



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend										Page 1 of 11				Permit Number: IN0024520					
Facility: South Bend Municipal WWTP										Public Notification Requirements Met? Y									
Monitoring Period: January 2024										Check box if no CSO discharge occurred for the month: <input type="checkbox"/>									
Design Peak Hourly Flow (MGD): 77										Design Average Flow (MGD): 48				Measured/Metered (M) or Estimated (E) must be specified					
WWTP Influent Data			Precipitation Data					CSO Outfall No. 001				CSO Outfall No. 002							
Day of Month	Average Daily Flow (MGD)	Peak Hourly Flow (MGD)	Time Precip. Began (am/pm)	Precip. Duration (Hours)	Total Daily Precip. (Inches)	Peak Intensity (Inch/hr)	Measurement Interval (hr, 30 m, 15 m)	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1	22.5	25.2	1:00 PM	0.08	0.01	0.01	1 hr												
2	23.3	26.9			-														
3	23.9	26.9			-														
4	23.5	26.2			-														
5	23.7	27.9			-														
6	23.3	26.6			-														
7	24.1	27.1	2:15 AM	1.25	0.05	0.02	1 hr												
8	23.5	25.8			-														
9	43.9	79.6	12:50 AM	13.67	1.03	0.13	1 hr	3:10 AM	E	1.85	E	0.20	E	3:10 AM	E	1.87	E	0.01	E
10	31.2	48.6	12:15 AM	2.00	0.08	0.03	1 hr												
11	25.8	28.6	5:25 AM	0.08	0.01	0.01	1 hr												
12	27.0	33.5	9:10 AM	8.92	0.65	0.16	1 hr	11:20 AM	E	0.84	E	0.04	E						
13	27.0	34.6	5:05 AM	3.42	0.22	0.06	1 hr												
14	25.1	28.7			-														
15	25.3	28.8			-														
16	25.8	29.6			-														
17	26.0	28.8			-														
18	25.9	29.2	3:25 AM	2.75	0.09	0.04	1 hr												
19	26.3	30.2	12:40 AM	2.33	0.09	0.03	1 hr												
20	25.8	29.6			-														
21	25.6	29.3			-														
22	26.0	29.4	12:15 PM	1.17	0.05	0.03	1 hr												
23	34.2	47.3	12:15 AM	7.75	0.38	0.07	1 hr	2:50 AM	E	0.15	E	0.01	E						
24	46.5	78.3	4:20 AM	6.58	0.72	0.34	1 hr	6:20 AM	E	0.18	E	0.01	E						
25	41.4	80.1	8:05 PM	3.75	0.49	0.18	1 hr	10:20 PM	E	0.59	E	0.03	E						
26	52.6	79.7	12:00 AM	3.17	0.28	0.10	1 hr												
27	38.5	75.5	6:35 AM	4.25	0.32	0.13	1 hr	9:50 PM	E	0.04	E	0.00	E						
28	50.0	77.6	12:00 AM	4.75	0.23	0.05	1 hr												
29	36.4	38.7			-														
30	36.3	40.6	4:25 AM	1.00	0.08	0.08	1 hr												
31	34.0	36.7	8:35 AM	0.08	0.01	0.01	1 hr												
Totals:	944.4			67.00	4.79			6	Da	3.65		0.28		1	Da	1.87		0.01	
Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent										Telephone									
Kim Thompson, Director of Wastewater										574-235-5969									
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION; THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.																			
Signature of Principal Executive Officer or Authorized Agent										Date (mm/dd/yy)									
										2-23-24									



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT													Page 2 of 11			Permit Number: IN0024520											
City: City of South Bend													Public Notification Requirements Met? Y														
Facility: South Bend Municipal WWTP													Check box if no CSO discharge occurred for the month: <input type="checkbox"/>														
Monitoring Period: January 2024													Design Flow (MGD): 48														
Design Peak Flow (Hourly) (MGD): 77													Measured/Metered (M) or Estimated (E) must be specified														
CSO Outfall No. 003													CSO Outfall No. 004						CSO Outfall No. 006			CSO Outfall No. 007					
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E			
1																											
2																											
3																											
4																											
5																											
6																											
7																											
8																											
9							3:10 AM	E	0.20	E	0.00	E	3:35 AM	E	3.02	E	0.72	E	3:10 AM	E	3.66	E	0.03	E			
10																											
11																											
12													11:40 AM	E	1.75	E	0.37	E	11:20 AM	E	1.35	E	0.01	E			
13																											
14																											
15																											
16																											
17																											
18																											
19																											
20																											
21																											
22																											
23													2:30 AM	E	0.23	E	0.05	E									
24																											
25													10:20 PM	E	1.52	E	0.32	E									
26																											
27																											
28																											
29																											
30																											
31																											
Totals:	0	Days			0.00		1	Days	0.20		0.00		4	Days	6.52		1.45		2	Days	5.01						



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CSO Monthly Report of Operation (CSO MRO)

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 3 of 11		Permit Number: IN0024520										
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: January 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 008						CSO Outfall No. 010						CSO Outfall No. 11A						CSO Outfall No. 11B						
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9	3:10 AM	E	12.25	E	0.20	E	3:10 AM	E	7.02	E	0.22	E							3:10 AM	E	6.43	E	1.44	E
10	2:15 AM	E	0.00	E	0.00	E																		
11																								
12	11:20 AM	E	10.54	E	0.13	E	11:20 AM	E	5.54	E	0.15	E							11:20 AM	E	5.11	E	0.91	E
13	8:20 AM	E	0.88	E	0.00	E																		
14																								
15																								
16																								
17																								
18	6:35 AM	E	0.44	E	0.00	E																		
19																								
20																								
21																								
22	2:20 PM	E	0.00	E	0.00	E																		
23	2:30 AM	E	5.33	E	0.05	E	2:30 AM	E	3.08	E	0.04	E							2:30 AM	E	2.68	E	0.19	E
24	6:40 AM	E	5.53	E	0.05	E	6:40 AM	E	3.17	E	0.05	E							6:40 AM	E	2.77	E	0.22	E
25	10:10 PM	E	1.83	E	0.02	E	10:10 PM	E	1.83	E	0.03	E							10:10 PM	E	1.83	E	0.16	E
26	12:00 AM	E	5.65	E	0.07	E	12:00 AM	E	3.40	E	0.04	E							12:00 AM	E	2.73	E	0.17	E
27	9:20 PM	E	2.67	E	0.02	E	9:20 PM	E	1.90	E	0.02	E							9:20 PM	E	1.62	E	0.08	E
28	12:00 AM	E	2.29	E	0.01	E																		
29																								
30	6:40 AM	E	0.44	E	0.00	E																		
31																								
Totals:	13	Da ys	47.85		0.55		7	Da ys	25.94		0.56		0	Da ys			0.00		7	Da ys	23.17		3.17	



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Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: January 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77												Design Flow (MGD): 48				Measured/Metered (M) or Estimated (E) must be specified								
CSO Outfall No. 014						CSO Outfall No. 018						CSO Outfall No. 019				CSO Outfall No. 021								
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9	3:10 AM	E	2.00	E	0.08	E	3:10 AM	E	7.33	E	0.67	E	2:55 AM	E	1.92	E	0.07	E	2:55 AM	E	0.71	E	0.00	E
10																								
11																								
12	11:20 AM	E	1.35	E	0.06	E	11:20 AM	E	6.81	E	0.38	E	11:20 AM	E	0.63	E	0.01	E						
13																								
14																								
15																								
16																								
17																								
18																								
19																								
20																								
21																								
22																								
23	2:30 AM	E	0.16	E	0.01	E	2:30 AM	E	1.05	E	0.04	E	2:35 AM	E	0.12	E	0.00	E						
24	6:40 AM	E	0.20	E	0.01	E	6:40 AM	E	1.32	E	0.05	E	6:45 AM	E	0.30	E	0.00	E						
25	10:10 PM	E	0.28	E	0.01	E	10:10 PM	E	1.83	E	0.06	E	10:05 PM	E	0.69	E	0.01	E						
26							12:00 AM	E	0.01	E	0.00	E												
27																								
28																								
29																								
30																								
31																								
Totals:	5	Days	3.99		0.17		6	Days	18.35		1.20		5	Days	3.66		0.09		1	Days	0.71		0.00	



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Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: January 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77												Design Flow (MGD): 48				Measured/Metered (M) or Estimated (E) must be specified								
CSO Outfall No. 022						CSO Outfall No. 025						CSO Outfall No. 026						CSO Outfall No. 027						
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9	12:35 PM	M	8.08	M	1.75	E													3:05 AM	E	1.89	E	0.16	E
10																								
11																								
12																			11:15 AM	E	0.69	E	0.03	E
13																								
14																								
15																								
16																								
17																								
18																								
19																								
20																								
21																								
22																								
23																								
24	1:35 PM	M	6.08	M	2.14	E													6:25 AM	E	1.01	E	0.05	E
25	9:05 PM	M	2.92	M	2.34	E																		
26	12:00 AM	M	8.08	M	3.49	E																		
27	10:05 PM	M	1.92	M	0.63	E																		
28	12:00 AM	M	1.92	M	0.12	E																		
29																								
30																								
31																								
Totals:	6	Da ys	29.00		10.48		0	Da ys			0.00		0	Da ys			0.00		3	Da ys	3.59		0.24	



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Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: January 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 028						CSO Outfall No. 029						CSO Outfall No. 031				CSO Outfall No. 033								
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9	3:10 AM	E	1.21	E	0.01	E	3:10 AM	E	2.59	E	0.05	E	3:10 AM	E	10.09	E	1.43	E	3:10 AM	E	9.61	E	0.04	E
10																								
11																								
12	11:20 AM	E	0.42	E	0.00	E	11:20 AM	E	2.26	E	0.03	E	11:20 AM	E	7.09	E	0.92	E	11:20 AM	E	7.41	E	0.03	E
13																								
14																								
15																								
16																								
17																								
18																								
19																								
20																								
21																								
22																								
23							2:30 AM	E	0.91	E	0.00	E	2:30 AM	E	3.74	E	0.23	E	2:30 AM	E	2.33	E	0.00	E
24							6:40 AM	E	0.97	E	0.00	E	6:40 AM	E	3.82	E	0.25	E	6:40 AM	E	2.52	E	0.00	E
25							10:10 PM	E	1.09	E	0.01	E	10:10 PM	E	1.83	E	0.13	E	10:10 PM	E	1.83	E	0.00	E
26							2:00 AM	E	0.46	E	0.00	E	12:00 AM	E	4.37	E	0.26	E	12:00 AM	E	2.16	E	0.00	E
27							9:20 PM	E	0.46	E	0.00	E	9:20 PM	E	2.37	E	0.10	E	9:20 PM	E	1.10	E	0.00	E
28																								
29																								
30																								
31																								
Totals:	2	Da ys	1.63		0.01		7	Da ys	8.74		0.10		7	Da ys	33.31		3.32		7	Da ys	26.96		0.08	



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City: City of South Bend												Page 7 of 11			Permit Number: IN0024520														
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y																	
Monitoring Period: January 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>																	
Design Peak Flow (Hourly) (MGD): 77												Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified											
CSO Outfall No. 035												CSO Outfall No. 036						CSO Outfall No. 037						CSO Outfall No. 038					
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E					
1																													
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9	3:10 AM	E	12.80	E	0.24	E	3:10 AM	E	3.53	E	0.02	E																	
10	2:15 AM	E	0.00	E	0.00	E																							
11																													
12	11:20 AM	E	10.27	E	0.17	E	11:20 AM	E	2.91	E	0.01	E																	
13	8:20 AM	E	0.17	E	0.00	E																							
14																													
15																													
16																													
17																													
18	6:35 AM	E	0.08	E	0.00	E																							
19																													
20																													
21																													
22	2:20 PM	E	0.00	E	0.00	E																							
23	2:30 AM	E	5.91	E	0.05	E	2:30 AM	E	0.41	E	0.00	E																	
24	6:40 AM	E	6.05	E	0.06	E	6:40 AM	E	0.52	E	0.00	E	3:10 PM	M	0.42	M	0.00	E											
25	10:10 PM	E	1.83	E	0.02	E	10:10 PM	E	0.72	E	0.00	E	9:50 PM	M	2.17	M	0.17	E											
26	12:00 AM	E	5.79	E	0.07	E							12:00 AM	M	1.17	M	0.03	E											
27	9:20 PM	E	2.67	E	0.02	E																							
28	12:00 AM	E	1.37	E	0.01	E																							
29																													
30	6:40 AM	E	0.08	E	0.00	E																							
31																													
Totals:	13	Days	47.02		0.64		5	Days	8.09		0.04		3	Days	3.75		0.20		0	Days			0.00						



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Monitoring Period: January 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 039						CSO Outfall No. 040						CSO Outfall No. 041				CSO Outfall No. 042								
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9	2:55 AM	E	3.92	E	0.18	E	3:05 AM	E	1.92	E	0.06	E	2:55 AM	E	1.94	E	0.02	E						
10																								
11																								
12	11:20 AM	E	2.03	E	0.05	E	11:15 AM	E	0.77	E	0.01	E												
13																								
14																								
15																								
16																								
17																								
18																								
19																								
20																								
21																								
22																								
23	2:35 AM	E	0.39	E	0.01	E																		
24	6:45 AM	E	0.97	E	0.02	E	6:25 AM	E	1.12	E	0.02	E												
25	10:05 PM	E	1.92	E	0.05	E																		
26	12:00 AM	E	0.30	E	0.01	E																		
27																								
28																								
29																								
30																								
31																								
Totals:	6	Days	9.53		0.32		3	Days	3.81		0.10		1	Days	1.94		0.02		0	Days			0.00	



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Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: January 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77												Design Flow (MGD): 48				Measured/Metered (M) or Estimated (E) must be specified								
CSO Outfall No. 044						CSO Outfall No. 045						CSO Outfall No. 048						CSO Outfall No. 049						
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9							4:15 PM	M	2.58	M	0.24	E	2:55 AM	E	10.82	E	0.65	E						
10																								
11																								
12													11:20 AM	E	5.33	E	0.26	E						
13													7:10 AM	E	1.73	E	0.05	E						
14																								
15																								
16																								
17																								
18																								
19																								
20																								
21																								
22																								
23													2:35 AM	E	2.84	E	0.10	E						
24													6:45 AM	E	3.72	E	0.16	E						
25							10:50 PM	M	1.17	M	0.41	E	10:05 PM	E	1.92	E	0.10	E						
26							12:00 AM	M	2.50	M	1.01	E	12:00 AM	E	4.08	E	0.24	E						
27													8:55 AM	E	1.73	E	0.05	E						
28													2:15 AM	E	1.04	E	0.03	E						
29																								
30																								
31																								
Totals:	0	Da ys			0.00		3	Da ys	6.25		1.66		9	Da ys	33.21		1.62		0	Da ys			0.00	



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)


State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend										Page 10 of 11					Permit Number: IN0024520									
Facility: South Bend Municipal WWTP										Public Notification Requirements Met? Y														
Monitoring Period: January 2024										Check box if no CSO discharge occurred for the month: <input type="checkbox"/>														
Design Peak Flow (Hourly) (MGD): 77										Design Flow (MGD): 48					Measured/Metered (M) or Estimated (E) must be specified									
CSO Outfall No. 060										CSO Outfall No.					CSO Outfall No. [#]					CSO Outfall No. [#]				
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9	3:10 AM	E	9.83	E	0.03	E																		
10																								
11																								
12	11:20 AM	E	8.73	E	0.02	E																		
13																								
14																								
15																								
16																								
17																								
18																								
19																								
20																								
21																								
22																								
23	2:30 AM	E	6.22	E	0.00	E																		
24	6:40 AM	E	6.32	E	0.00	E																		
25	10:10 PM	E	1.83	E	0.00	E																		
26	12:00 AM	E	6.04	E	0.00	E																		
27	9:20 PM	E	2.67	E	0.00	E																		
28	12:00 AM	E	1.37	E	0.00	E																		
29																								
30																								
31																								
Totals:	8	Day	43.01		0.06		0	Day			0.00		0	Day			0.00		0	Day			0.00	



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend		Page: 11 of 11	Permit Number: IN0024520
Facility: South Bend Municipal WWTP		Public Notification Requirements Met? Y <input checked="" type="checkbox"/>	
Monitoring Period: January Year: 2024		Check box if no CSO discharge occurred for the month: <input type="checkbox"/>	
Design Peak Hourly Flow (MGD): 77		Design Average Flow (MGD): 48	
Day of Month	Comments (further explanation as to why each CSO event occurred)		
1			
2			
3			
4			
5			
6			
7			
8			
9	Precipitation Event Observed		
10	Precipitation Event Observed		
11			
12	Precipitation Event Observed		
13	Precipitation Event Observed		
14			
15			
16			
17			
18	Precipitation Event Observed		
19			
20			
21			
22	Precipitation Event Observed		
23	Precipitation Event Observed		
24	Precipitation Event Observed		
25	Precipitation Event Observed		
26	Precipitation Event Observed		
27	Precipitation Event Observed		
28	Precipitation Event Observed		
29			
30	Precipitation Event Observed		
31			
Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent		Telephone	
Kim Thompson, Director of Wastewater		574-235-5969	
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION; THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.			
Signature of Principal Executive Officer or Authorized Agent		Date (mm/dd/yy)	
		2-23-24	

CSO Public Notification - January

Day of Month	Day of Week	Total Daily Precip. (inches)	Total Daily CSO Discharge Volume (MG)	Notification Sent	Notes
1	Mon	0.01	0.00		
2	Tue	-	-		
3	Wed	-	-		
4	Thu	-	-		
5	Fri	-	-		
6	Sat	-	-		
7	Sun	0.05	0.00	YES	Notification Sent, But No Overflows
8	Mon	-	-		
9	Tue	1.03	8.54	YES	
10	Wed	0.08	0.00	YES	<10,000
11	Thu	0.01	0.00		
12	Fri	0.65	3.59	YES	
13	Sat	0.22	0.05	YES	
14	Sun	-	-		
15	Mon	-	-		
16	Tue	-	-		
17	Wed	-	-		
18	Thu	0.09	0.00	YES	<10,000
19	Fri	0.09	0.00	YES	Notification Sent, But No Overflows
20	Sat	-	-		
21	Sun	-	-		
22	Mon	0.05	0.00	YES	<10,000
23	Tue	0.38	0.79	YES	
24	Wed	0.72	3.10	YES	
25	Thu	0.49	3.87	YES	Overflow Continued Into the 26th.
26	Fri	0.28	5.40	YES	
27	Sat	0.32	0.92	YES	Overflow Continued Into the 28th.
28	Sun	0.23	0.16	YES	
29	Mon	-	-		
30	Tue	0.08	0.00	YES	<10,000 Gallons
31	Wed	0.01	0.00		

Notes

Average Daily Flow	Average value of 5-min WWTP flow data
Peak Hourly Flow	Maximum value of the rolling hourly average flow rate
Time Precipitation Began	First precipitation recorded between the six rain gauges
Precipitation Duration	Cumulative duration of all precipitation for the day
Total Daily Precipitation	Maximum value of precipitation for all the six rain gauges
Peak Intensity	Maximum precipitation depth in an hour
Design Peak Hourly Flow	Per the NPDES Permit, the WWTP facility has a peak design flow of 77 MGD

Metered CSOs

- CSOs 3, 6, 22, 37 and 45 are metered with flow meter equipment.
- Data is downloaded from these sites and entered into the report.
- Discharge begin time and duration is obtained from this data.
- Discharge volume is calculated using level data.

The sensor at CSO 006 did not work the entire month of January. The Matrix of Storms was used to calculate overflows from CSO 006 for this period.

Other CSOs

For non-metered CSOs, matrix relating precipitation to CSO volume is used to calculate CSO volume and the same for duration. The matrix was created from the South Bend design storms SWMM model results. The discharge time is estimated from the precipitation start time

Rain Gauges

Used the following rain gauges data in the CSO MRO: Colfax, Ethanol, Vaness, Southfield, WWTP and Ironwood.

Overflows less than 10,000 gallons are reported as 0.00 MG on the CSO MRO and as <0.01 MG on the NetDMR.



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend		Page 1 of 11		Permit Number: IN0024520															
Facility: South Bend Municipal WWTP				Public Notification Requirements Met? <input checked="" type="checkbox"/> Y															
Monitoring Period: February 2024		Check box if no CSO discharge occurred for the month: <input type="checkbox"/>																	
Design Peak Hourly Flow (MGD): 77		Design Average Flow (MGD): 48		Measured/Metered (M) or Estimated (E) must be specified															
WWTP Influent Data			Precipitation Data			CSO Outfall No. 001			CSO Outfall No. 002										
Day of Month	Average Daily Flow (MGD)	Peak Hourly Flow (MGD)	Time Precip. Began (am/pm)	Precip. Duration (Hours)	Total Daily Precip. (Inches)	Peak Intensity (Inch/hr)	Measurement Interval (hr, 30 m, 15 m)	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1	33.7	36.9			-														
2	32.9	36.3			-														
3	32.1	36.8			-														
4	31.7	35.6			-														
5	31.4	35.0			-														
6	30.9	33.8			-														
7	31.5	35.5			-														
8	31.7	34.4	11:10 PM	0.08	0.01	0.01	1 hr												
9	31.3	34.5			-														
10	29.7	32.8			-														
11	29.8	34.3			-														
12	29.8	32.4			-														
13	29.0	31.0			-														
14	29.2	33.1			-														
15	31.8	50.1	7:40 AM	1.17	0.19	0.19	1 hr												
16	28.7	32.1	12:30 PM	0.25	0.02	0.01	1 hr												
17	28.1	31.9	1:15 AM	0.25	0.01	0.01	1 hr												
18	28.4	32.9			-														
19	28.8	33.5			-														
20	28.5	31.4			-														
21	28.7	32.4			-														
22	35.5	64.9	1:10 AM	4.50	0.44	0.19	1 hr	3:10 AM	E	0.07	E	0.00	E						
23	28.5	33.4	9:15 PM	2.67	0.24	0.12	1 hr												
24	30.8	36.5	12:00 AM	1.33	0.07	0.05	1 hr												
25	28.8	35.5			-														
26	28.3	31.8			-														
27	28.6	31.1			-														
28	27.8	30.7	3:40 AM	1.17	0.06	0.03	1 hr												
29	27.6	30.8			-														
Totals:	873.5			11.42	1.04			1	Days	0.07		0.00		0	Days			0.00	
Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent														Telephone					
Kim Thompson, Director of Wastewater														574-235-5969					
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION; THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.																			
Signature of Principal Executive Officer or Authorized Agent														Date (mm/dd/yy)					
K. Thompson														3-18-24					



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 2 of 11			Permit Number: IN0024520									
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: February 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 003						CSO Outfall No. 004						CSO Outfall No. 006			CSO Outfall No. 007									
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E						
1																								
2																								
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27																								
28																								
29																								
Totals:	0	Days			0.00		0	Days			0.00		1	Days	1.28		0.27		0	Days			0.00	



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 3 of 11		Permit Number: IN0024520										
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: February 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 008						CSO Outfall No. 010						CSO Outfall No. 11A						CSO Outfall No. 11B						
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
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2																								
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10																								
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12																								
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14																								
15	9:45 AM	E	1.96	E	0.00	E	9:45 AM	E	0.21	E	0.00	E							9:45 AM	E	0.18	E	0.01	E
16																								
17																								
18																								
19																								
20																								
21																								
22	3:20 AM	E	4.91	E	0.04	E	3:20 AM	E	2.92	E	0.04	E							3:20 AM	E	2.51	E	0.15	E
23	11:30 PM	E	0.50	E	0.00	E	11:30 PM	E	0.50	E	0.01	E							11:30 PM	E	0.50	E	0.02	E
24	12:00 AM	E	1.88	E	0.01	E	12:00 AM	E	0.13	E	0.00	E							12:00 AM	E	0.04	E	0.00	E
25																								
26																								
27																								
28																								
29																								
Totals:	4	Days	9.25		0.06		4	Days	3.76		0.05		0	Days			0.00		4	Days	3.23		0.19	

**National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)**

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend													Page 4 of 11			Permit Number: IN0024520								
Facility: South Bend Municipal WWTP													Public Notification Requirements Met? Y											
Monitoring Period: February 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 014						CSO Outfall No. 018						CSO Outfall No. 019				CSO Outfall No. 021								
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
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29																								
Totals:	1	Da ys	0.08		0.00		1	Da ys	0.53		0.02		1	Da ys	0.51	</								



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 55046 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 5 of 11		Permit Number: IN0024520										
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: February 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 022						CSO Outfall No. 025						CSO Outfall No. 026						CSO Outfall No. 027						
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
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Totals:	2	Da ys	2.92		1.27		0	Da ys			0.00		0	Da ys			0.00		0	Da ys			0.00	



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 6 of 11			Permit Number: IN0024520									
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: February 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77												Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified						
CSO Outfall No. 028						CSO Outfall No. 029						CSO Outfall No. 031						CSO Outfall No. 033						
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4																								
5																								
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7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								
15							9:45 AM	E	0.05	E	0.00	E	9:45 AM	E	0.26	E	0.01	E	9:45 AM	E	0.12	E	0.00	E
16																								
17																								
18																								
19																								
20																								
21																								
22							3:20 AM	E	0.79	E	0.00	E	3:20 AM	E	3.58	E	0.19	E	3:20 AM	E	1.96	E	0.00	E
23							11:30 PM	E	0.15	E	0.00	E	11:30 PM	E	0.50	E	0.02	E	11:30 PM	E	0.37	E	0.00	E
24													12:00 AM	E	0.29	E	0.01	E						
25																								
26																								
27																								
28																								
29																								
Totals:	0	Days			0.00		3	Days	0.99		0.00		4	Days	4.63		0.24		3	Days	2.45		0.00	



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 55046 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 7 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: February 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 035						CSO Outfall No. 036						CSO Outfall No. 037				CSO Outfall No. 038								
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
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6																								
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								
15	9:45 AM	E	0.72	E	0.00	E																		
16																								
17																								
18																								
19																								
20																								
21																								
22	3:20 AM	E	5.62	E	0.05	E	3:20 AM	E	0.21	E	0.00	E												
23	11:30 PM	E	0.50	E	0.00	E																		
24	12:00 AM	E	0.99	E	0.01	E																		
25																								
26																								
27																								
28																								
29																								
Totals:	4	Da ys	7.83		0.06		1	Da ys	0.21		0.00		0	Da ys		0.00		0	Da ys		0.00			



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend										Page 8 of 11					Permit Number: IN0024520									
Facility: South Bend Municipal WWTP										Public Notification Requirements Met? Y														
Monitoring Period: February 2024										Check box if no CSO discharge occurred for the month: <input type="checkbox"/>														
Design Peak Flow (Hourly) (MGD): 77										Design Flow (MGD): 48					Measured/Metered (M) or Estimated (E) must be specified									
CSO Outfall No. 039						CSO Outfall No. 040						CSO Outfall No. 041					CSO Outfall No. 042							
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4																								
5																								
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17																								
18																								
19																								
20																								
21																								
22	3:10 AM	E	1.64	E	0.04	E																		
23																								
24																								
25																								
26																								
27																								
28																								
29																								
Totals:	1	Days	1.64		0.04		0	Days			0.00		0	Days			0.00		0	Days			0.00	



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 9 of 11		Permit Number: IN0024520										
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: February 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 044						CSO Outfall No. 045						CSO Outfall No. 048				CSO Outfall No. 049								
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
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7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								
15													9:50 AM	E	0.69	E	0.02	E						
16																								
17																								
18																								
19																								
20																								
21																								
22													3:10 AM	E	4.74	E	0.22	E						
23													11:20 PM	E	0.67	E	0.02	E						
24													12:00 AM	E	1.41	E	0.04	E						
25																								
26																								
27																								
28																								
29																								
Totals:	0	Days			0.00		0	Days			0.00		4	Days	7.51		0.30		0	Days			0.00	



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 10 of 11			Permit Number: IN0024520				
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y							
Monitoring Period: February 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>							
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified							
CSO Outfall No. 060						CSO Outfall No.						CSO Outfall No. [#]			CSO Outfall No. [#]				
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15	9:45 AM	E	0.45	E	0.00	E													
16																			
17																			
18																			
19																			
20																			
21																			
22	3:20 AM	E	6.03	E	0.00	E													
23	11:30 PM	E	0.50	E	0.00	E													
24	12:00 AM	E	0.85	E	0.00	E													
25																			
26																			
27																			
28																			
29																			
Totals:	4	Days	7.83		0.00		0	Days		0.00		0	Days		0.00		0	Days	



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend		Page: 11 of 11	Permit Number: IN0024520
Facility: South Bend Municipal WWTP		Public Notification Requirements Met? Y	
Monitoring Period: February Year: 2024		Check box if no CSO discharge occurred for the month: <input type="checkbox"/>	
Design Peak Hourly Flow (MGD): 77		Design Average Flow (MGD): 48	
Day of Month	Comments (further explanation as to why each CSO event occurred)		
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15	Precipitation Event Observed		
16			
17			
18			
19			
20			
21			
22	Precipitation Event Observed		
23	Precipitation Event Observed		
24	Precipitation Event Observed		
25			
26			
27			
28			
29			
30			
31			
Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent		Telephone	
Kim Thompson, Director of Wastewater		574-235-5969	
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION; THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.			
Signature of Principal Executive Officer or Authorized Agent		Date (mm/dd/yy)	
<i>K. Thompson</i>		3-18-24	

CSO Public Notification - February

Day of Month	Day of Week	Total Daily Precip. (inches)	Total Daily CSO Discharge Volume (MG)	Notification Sent	Notes
1	Thu	-	-		
2	Fri	-	-		
3	Sat	-	-		
4	Sun	-	-		
5	Mon	-	-		
6	Tue	-	-		
7	Wed	-	-		
8	Thu	0.01	0.00		
9	Fri	-	-		
10	Sat	-	-		
11	Sun	-	-		
12	Mon	-	-		
13	Tue	-	-		
14	Wed	-	-		
15	Thu	0.19	0.15	YES	
16	Fri	0.02	0.00		
17	Sat	0.01	0.00		
18	Sun	-	-		
19	Mon	-	-		
20	Tue	-	-		
21	Wed	-	-		
22	Thu	0.44	2.21	YES	
23	Fri	0.24	0.07	YES	Overflow Continued Past Midnight
24	Sat	0.07	0.07	YES	
25	Sun	-	-		
26	Mon	-	-		
27	Tue	-	-		
28	Wed	0.06	0.00	YES	Notification Sent, But No Overflow
29	Thu				

Notes

Average Daily Flow Average value of 5-min WWTP flow data
 Peak Hourly Flow Maximum value of the rolling hourly average flow rate
 Time Precipitation Beg First precipitation recorded between the six rain gauges
 Precipitation Duration Cumulative duration of all precipitation for the day
 Total Daily Precipitation Maximum value of precipitation for all the six rain gauges
 Peak Intensity Maximum precipitation depth in an hour
 Design Peak Hourly Flow Per the NPDES Permit, the WWTP facility has a peak design flow of 77 MGD

Metered CSOs

- CSOs 3, 6, 22, 37 and 45 are metered with flow meter equipment.
- Data is downloaded from these sites and entered into the report.
- Discharge begin time and duration is obtained from this data.
- Discharge volume is calculated using level data.

The sensor at CSO 006 was not working properly during the month of February. The Matrix of Storms was used to calculate overflows for CSO 006 during this month.

Other CSOs

For non-metered CSOs, matrix relating precipitation to CSO volume is used to calculate CSO volume and the same for duration. The matrix was created from the South Bend design storms SWMM model results. The discharge time is estimated from the precipitation start time

Rain Gauges

Used the following rain gauges data in the CSO MRO: Colfax, Ethanol, Vaness, Southfield, WWTP and Ironwood.

Overflows less than 10,000 gallons are reported as 0.00 MG on the CSO MRO and as <0.01 MG on the NetDMR.



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend										Page 1 of 11					Permit Number: IN0024520									
Facility: South Bend Municipal WWTP										Public Notification Requirements Met? <input checked="" type="checkbox"/> Y														
Monitoring Period: March 2024										Check box if no CSO discharge occurred for the month: <input type="checkbox"/>														
Design Peak Hourly Flow (MGD): 77										Design Average Flow (MGD): 48										Measured/Metered (M) or Estimated (E) must be specified				
WWTP Influent Data			Precipitation Data					CSO Outfall No. 001					CSO Outfall No. 002											
Day of Month	Average Daily Flow (MGD)	Peak Hourly Flow (MGD)	Time Precip. Began (am/pm)	Precip. Duration (Hours)	Total Daily Precip. (Inches)	Peak Intensity (Inch/hr)	Measurement Interval (hr, 30 m, 15 m)	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E					
1	27.5	30.8			-																			
2	27.0	31.0			-																			
3	27.6	31.6			-																			
4	27.8	31.0			-																			
5	37.0	81.1	3:45 AM	3.08	0.61	0.41	1 hr																	
6	27.9	30.5			-																			
7	27.4	29.8			-																			
8	43.4	80.0	9:35 AM	13.17	0.90	0.19	1 hr	11:45 AM	E	1.96	E	0.22	E	11:45 AM	E	2.13	E	0.02	E					
9	34.6	73.2	12:00 AM	0.25	0.01	0.01	1 hr																	
10	27.3	30.0	1:05 AM	0.17	0.01	0.01	1 hr																	
11	29.8	34.4			-																			
12	27.9	30.8			-																			
13	28.2	31.8			-																			
14	57.7	83.0	1:15 AM	7.67	1.66	0.52	1 hr	3:55 AM	E	3.22	E	0.60	E	3:55 AM	E	5.07	E	0.43	E					
15	34.2	38.4			-																			
16	32.1	35.6			-																			
17	31.0	33.7			-																			
18	31.4	34.4			-																			
19	31.0	34.3			-																			
20	30.5	33.5			-																			
21	30.2	32.9			-																			
22	30.4	33.2	12:00 AM	0.08	0.02	0.02	1 hr																	
23	29.6	33.6			-																			
24	29.9	33.4			-																			
25	30.3	33.6	12:00 AM	0.08	0.02	0.02	1 hr																	
26	34.2	43.1	12:55 AM	4.42	0.32	0.10	1 hr	3:00 AM	E	0.15	E	0.01	E											
27	28.6	31.5			-																			
28	29.1	33.1			-																			
29	28.6	32.4	11:50 PM	0.08	0.01	0.03	1 hr																	
30	45.5	79.2	12:00 AM	5.67	0.98	0.34	1 hr	2:50 AM	E	1.98	E	0.23	E	2:50 AM	E	2.19	E	0.03	E					
31	31.3	61.5	8:20 PM	3.50	0.43	0.20	1 hr	10:45 PM	E	0.15	E	0.01	E											
Totals:	989.0			38.17	4.97			5	Days	7.46		1.07		3	Days	9.39		0.48						
Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent															Telephone									
Kim Thompson, Director of Wastewater															574-235-5969									
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION; THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.																								
Signature of Principal Executive Officer or Authorized Agent															Date (mm/dd/yy)									
Kim Thompson															4-24-24									



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 2 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: March 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 003						CSO Outfall No. 004						CSO Outfall No. 006				CSO Outfall No. 007								
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4																								
5													6:45 AM	E	1.52	E	0.32	E	6:45 AM	E	0.11	E	0.00	E
6																								
7																								
8							11:40 AM	E	0.10	E	0.00	E	11:45 AM	E	4.10	E	1.82	E	11:40 AM	E	3.58	E	0.02	E
9																								
10																								
11																								
12																								
13																								
14	9:55 AM	M	3.25	M	7.47	E	3:30 AM	E	3.28	E	0.10	E	3:15 AM	E	6.44	E	5.78	E	3:30 AM	E	6.00	E	0.16	E
15																								
16																								
17																								
18																								
19																								
20																								
21																								
22																								
23																								
24																								
25																								
26													2:55 AM	E	0.82	E	0.17	E						
27																								
28																								
29																								
30	5:55 AM	M	2.75	M	1.31	E	4:45 AM	E	0.50	E	0.01	E	4:55 AM	E	4.99	E	3.03	E	4:45 AM	E	3.91	E	0.04	E
31																								
Totals:	2	Da	6.00		8.78		3	Da	3.88		0.11		5	Da	17.87		11.12		4	Da	13.60		0.23	



National Pollutant Discharge Elimination System (NPDES)
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State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 3 of 11		Permit Number: IN0024520										
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: March 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77												Design Flow (MGD): 48		Measured/Metered (M) or Estimated (E) must be specified										
CSO Outfall No. 008						CSO Outfall No. 010						CSO Outfall No. 11A				CSO Outfall No. 11B								
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4																								
5	6:45 AM	E	9.74	E	0.10	E	6:45 AM	E	4.89	E	0.11	E					6:45 AM	E	4.55	E	0.66	E		
6																								
7																								
8	11:40 AM	E	12.08	E	0.20	E	11:40 AM	E	6.84	E	0.22	E					11:40 AM	E	6.26	E	1.39	E		
9																								
10																								
11																								
12																								
13																								
14	3:30 AM	E	16.22	E	0.40	E	3:30 AM	E	12.10	E	0.49	E					3:30 AM	E	11.64	E	3.39	E		
15																								
16																								
17																								
18																								
19																								
20																								
21																								
22																								
23																								
24																								
25																								
26	3:00 AM	E	3.87	E	0.03	E	3:00 AM	E	2.12	E	0.02	E					3:00 AM	E	1.79	E	0.08	E		
27																								
28																								
29																								
30	4:45 AM	E	12.75	E	0.22	E	4:45 AM	E	7.56	E	0.25	E					4:45 AM	E	6.95	E	1.59	E		
31	10:25 PM	E	1.58	E	0.02	E	10:25 PM	E	1.58	E	0.03	E					10:25 PM	E	1.58	E	0.16	E		
Totals:	6	De	56.24	ys	0.96		6	De	35.09	ys	1.12		0	De		0.00	ys	6	De	32.77	ys	7.27		



National Pollutant Discharge Elimination System (NPDES)
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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 4 of 11		Permit Number: IN0024520															
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y																	
Monitoring Period: March 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>																	
Design Peak Flow (Hourly) (MGD): 77												Design Flow (MGD): 48												Measured/Metered (M) or Estimated (E) must be specified					
CSO Outfall No. 014						CSO Outfall No. 018						CSO Outfall No. 019						CSO Outfall No. 021											
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E					
1																													
2																													
3																													
4																													
5	6:45 AM	E	1.03	E	0.05	E	6:45 AM	E	6.60	E	0.24	E	5:50 AM	E	0.60	E	0.01	E											
6																													
7																													
8	11:40 AM	E	1.96	E	0.08	E	11:40 AM	E	7.25	E	0.65	E	11:45 AM	E	1.84	E	0.05	E	11:45 AM	E	0.59	E	0.00	E					
9																													
10																													
11																													
12																													
13																													
14	3:30 AM	E	2.96	E	0.29	E	3:30 AM	E	9.54	E	1.73	E	3:20 AM	E	2.77	E	0.18	E	3:20 AM	E	1.87	E	0.04	E					
15																													
16																													
17																													
18																													
19																													
20																													
21																													
22																													
23																													
24																													
25																													
26													2:55 AM	E	0.12	E	0.00	E											
27																													
28																													
29																													
30	4:45 AM	E	2.13	E	0.10	E	4:45 AM	E	7.57	E	0.75	E	2:05 AM	E	1.95	E	0.07	E	2:05 AM	E	0.76	E	0.00	E					
31	10:25 PM	E	0.40	E	0.02	E	10:25 PM	E	1.58	E	0.06	E	10:20 PM	E	0.54	E	0.01	E											
Totals:	5	Days	8.48		0.53		5	Days	32.54		3.42		6	Days	7.82		0.32		3	Days	3.22		0.04						



National Pollutant Discharge Elimination System (NPDES)
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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 5 of 11					Permit Number: IN0024520																														
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y																																			
Monitoring Period: March 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>																																			
Design Peak Flow (Hourly) (MGD): 77												Design Flow (MGD): 48												Measured/Metered (M) or Estimated (E) must be specified																							
CSO Outfall No. 022												CSO Outfall No. 025												CSO Outfall No. 026												CSO Outfall No. 027											
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E																							
1																																															
2																																															
3																																															
4																																															
5	4:20 AM	M	2.00	M	1.22	E													6:45 AM	E	0.55	E	0.03	E																							
6																																															
7																																															
8	11:30 AM	M	4.00	M	2.06	E													11:40 AM	E	1.61	E	0.11	E																							
9	12:00 AM	M	1.00	M	0.49	E																																									
10																																															
11																																															
12																																															
13																																															
14	2:15 AM	M	10.42	M	10.92	E							3:30 AM	E	0.86	E	0.01	E	3:30 AM	E	2.61	E	0.50	E																							
15																																															
16																																															
17																																															
18																																															
19																																															
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25																																															
26																																															
27																																															
28																																															
29																																															
30	2:05 AM	E	14.90	E	1.58	E													2:20 AM	E	1.78	E	0.14	E																							
31	10:20 PM	E	1.67	E	0.09	E																																									
Totals:	6	Da ys	33.98		16.35		0	Da ys			0.00		1	Da ys	0.86		0.01		4	Da ys	6.55		0.77																								



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 6 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: March 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77												Design Flow (MGD): 48				Measured/Metered (M) or Estimated (E) must be specified								
CSO Outfall No. 028						CSO Outfall No. 029						CSO Outfall No. 031						CSO Outfall No. 033						
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4																								
5	6:45 AM	E	0.03	E	0.00	E	6:45 AM	E	2.17	E	0.02	E	6:45 AM	E	5.56	E	0.67	E	6:45 AM	E	6.35	E	0.02	E
6																								
7																								
8	11:40 AM	E	1.15	E	0.00	E	11:40 AM	E	2.51	E	0.05	E	11:40 AM	E	9.92	E	1.38	E	11:40 AM	E	9.43	E	0.04	E
9																								
10																								
11																								
12																								
13																								
14	3:30 AM	E	2.85	E	0.18	E	3:30 AM	E	4.78	E	0.13	E	3:30 AM	E	14.75	E	2.98	E	3:30 AM	E	15.03	E	0.11	E
15																								
16																								
17																								
18																								
19																								
20																								
21																								
22																								
23																								
24																								
25																								
26							3:00 AM	E	0.51	E	0.00	E	3:00 AM	E	2.63	E	0.12	E	3:00 AM	E	1.22	E	0.00	E
27																								
28																								
29																								
30	4:45 AM	E	1.39	E	0.01	E	4:45 AM	E	2.86	E	0.06	E	4:45 AM	E	10.60	E	1.56	E	4:45 AM	E	10.16	E	0.05	E
31							10:25 PM	E	1.27	E	0.01	E	10:25 PM	E	1.58	E	0.13	E	10:25 PM	E	1.58	E	0.00	E
Totals:	4	Dis ys	5.42		0.19		6	Dis ys	14.10		0.27		6	Dis ys	45.04		6.84		6	Dis ys	43.77		0.23	



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 55046 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 7 of 11		Permit Number: IN0024520																																	
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y																																			
Monitoring Period: March 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>																																			
Design Peak Flow (Hourly) (MGD): 77												Design Flow (MGD): 48												Measured/Metered (M) or Estimated (E) must be specified																							
CSO Outfall No. 035												CSO Outfall No. 036												CSO Outfall No. 037												CSO Outfall No. 038											
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E																							
1																																															
2																																															
3																																															
4																																															
5	6:45 AM	E	9.03	E	0.13	E	6:45 AM	E	2.61	E	0.01	E	7:05 AM	M	0.75	M	0.07	E																													
6																																															
7																																															
8	11:40 AM	E	12.33	E	0.23	E	11:40 AM	E	3.47	E	0.02	E																																			
9	12:00 AM	E	0.28	E	0.01	E																																									
10																																															
11																																															
12																																															
13																																															
14	3:30 AM	E	17.71	E	0.43	E	3:30 AM	E	5.63	E	0.07	E	2:25 AM	M	3.67	M	1.90	E																													
15																																															
16																																															
17																																															
18																																															
19																																															
20																																															
21																																															
22																																															
23																																															
24																																															
25																																															
26	3:00 AM	E	4.18	E	0.03	E																																									
27																																															
28																																															
29																																															
30	4:45 AM	E	13.39	E	0.26	E	4:45 AM	E	3.71	E	0.03	E	4:50 AM	M	3.50	M	0.31	E																													
31	10:25 PM	E	1.58	E	0.02	E	10:25 PM	E	1.03	E	0.00	E																																			
Totals:	7	Da ys	58.50		1.11		5	Da ys	16.45		0.13		3	Da ys	7.92		2.28		0	Da ys			0.00																								



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 8 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: March 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77												Design Flow (MGD): 48				Measured/Metered (M) or Estimated (E) must be specified								
CSO Outfall No. 039												CSO Outfall No. 040				CSO Outfall No. 041				CSO Outfall No. 042				
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4																								
5	5:50 AM	E	1.93	E	0.05	E	6:45 AM	E	0.61	E	0.01	E												
6																								
7																								
8	11:45 AM	E	3.61	E	0.15	E	11:40 AM	E	1.72	E	0.04	E	11:45 AM	E	1.77	E	0.01	E						
9																								
10																								
11																								
12																								
13																								
14	3:20 AM	E	6.12	E	0.36	E	3:30 AM	E	3.08	E	0.15	E	3:20 AM	E	2.67	E	0.04	E						
15																								
16																								
17																								
18																								
19																								
20																								
21																								
22																								
23																								
24																								
25																								
26	2:55 AM	E	0.39	E	0.01	E																		
27																								
28																								
29																								
30	2:05 AM	E	4.05	E	0.19	E	2:20 AM	E	1.85	E	0.05	E	2:05 AM	E	2.01	E	0.02	E						
31	10:20 PM	E	1.67	E	0.04	E																		
Totals:	6	Days	17.77		0.80		4	Days	7.26		0.25		3	Days	6.45		0.06		0	Days			0.00	



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 9 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: March 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 044						CSO Outfall No. 045						CSO Outfall No. 048				CSO Outfall No. 049								
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4																								
5													5:50 AM	E	5.18	E	0.25	E						
6																								
7																								
8													11:45 AM	E	9.85	E	0.58	E						
9																								
10																								
11																								
12																								
13																								
14							10:00 AM	M	3.92	M	3.37	E	3:20 AM	E	15.88	E	1.06	E						
15																								
16																								
17																								
18																								
19																								
20																								
21																								
22																								
23																								
24																								
25																								
26													2:55 AM	E	2.84	E	0.10	E						
27																								
28																								
29																								
30							2:50 AM	E	3.96	E	0.93	E	2:05 AM	E	11.20	E	0.68	E						
31													10:20 PM	E	1.67	E	0.08	E						
Totals:	0	Da ys			0.00		2	Da ys	7.88		4.30		6	Da ys	46.62		2.75		0	Da ys			0.00	



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 10 of 11			Permit Number: IN0024520														
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y																	
Monitoring Period: March 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>																	
Design Peak Flow (Hourly) (MGD): 77												Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified											
CSO Outfall No. 060												CSO Outfall No.						CSO Outfall No. [#]						CSO Outfall No. [#]					
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E					
1																													
2																													
3																													
4																													
5	6:45 AM	E	8.29	E	0.01	E																							
6																													
7																													
8	11:40 AM	E	9.66	E	0.03	E																							
9																													
10																													
11																													
12																													
13																													
14	3:30 AM	E	14.61	E	0.08	E																							
15																													
16																													
17																													
18																													
19																													
20																													
21																													
22																													
23																													
24																													
25																													
26	3:00 AM	E	4.49	E	0.00	E																							
27																													
28																													
29																													
30	4:45 AM	E	10.31	E	0.03	E																							
31	10:25 PM	E	1.58	E	0.00	E																							
Totals:	6	Days	48.94		0.16		0	Days		0.00			0	Days		0.00			0	Days		0.00							



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend		Page: 11 of 11	Permit Number: IN0024520
Facility: South Bend Municipal WWTP		Public Notification Requirements Met? Y <input type="checkbox"/>	
Monitoring Period: March Year: 2024		Check box if no CSO discharge occurred for the month: <input type="checkbox"/>	
Design Peak Hourly Flow (MGD): 77		Design Average Flow (MGD): 48	
Day of Month	Comments (further explanation as to why each CSO event occurred)		
1			
2			
3			
4			
5	Precipitation Event Observed		
6			
7			
8	Precipitation Event Observed		
9	Precipitation Event Observed		
10			
11			
12			
13			
14	Precipitation Event Observed		
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26	Precipitation Event Observed		
27			
28			
29			
30	Precipitation Event Observed		
31	Precipitation Event Observed		
Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent		Telephone	
Kim Thompson, Director of Wastewater		574-235-5969	
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION; THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.			
Signature of Principal Executive Officer or Authorized Agent		Date (mm/dd/yy)	
K Thompson		4-24-24	

CSO Public Notification - March

Day of Month	Day of Week	Total Daily Precip. (inches)	CSO Discharge Volume (MG)	Notification Sent	Notes
1	Fri	-	-		
2	Sat	-	-		
3	Sun	-	-		
4	Mon	-	-		
5	Tue	0.61	3.99	YES	
6	Wed	-	-		
7	Thu	-	-		
8	Fri	0.90	9.37	YES	Overflow Continued Past Midnight
9	Sat	0.01	0.49		
10	Sun	0.01	0.00		
11	Mon	-	-		
12	Tue	-	-		
13	Wed	-	-		
14	Thu	1.66	43.34	YES	
15	Fri	-	-		
16	Sat	-	-		
17	Sun	-	-		
18	Mon	-	-		
19	Tue	-	-		
20	Wed	-	-		
21	Thu	-	-		
22	Fri	0.02	0.00		
23	Sat	-	-		
24	Sun	-	-		
25	Mon	0.02	0.00		
26	Tue	0.32	0.57	YES	
27	Wed	-	-		
28	Thu	-	-		
29	Fri	0.01	0.00		
30	Sat	0.98	13.54	YES	
31	Sun	0.43	0.67	YES	

Notes

Average Daily Flow	Average value of 5-min WWTP flow data
Peak Hourly Flow	Maximum value of the rolling hourly average flow rate
Time Precipitation Began	First precipitation recorded between the six rain gauges
Precipitation Duration	Cumulative duration of all precipitation for the day
Total Daily Precipitation	Maximum value of precipitation for all the six rain gauges
Peak Intensity	Maximum precipitation depth in an hour
Design Peak Hourly Flow	Per the NPDES Permit, the WWTP facility has a peak design flow of 77 MGD

Metered CSOs

- CSOs 3, 6, 22, 37 and 45 are metered with flow meter equipment.
- Data is downloaded from these sites and entered into the report.
- Discharge begin time and duration is obtained from this data.
- Discharge volume is calculated using level data.

Sensor data from CSO 003, 006, 022 & 045 was not available during portions of March due to failures, removal for sewer cleaning and power issues. The matrix of storms was used for periods when the sensor was not functioning.

Other CSOs

For non-metered CSOs, matrix relating precipitation to CSO volume is used to calculate CSO volume and the same for duration. The matrix was created from the South Bend design storms SWMM model results. The discharge time is estimated from the precipitation start time

Rain Gauges

Used the following rain gauges data in the CSO MRO: Colfax, Ethanol, Vaness, Southfield, WWTP and Ironwood.

Overflows less than 10,000 gallons are reported as 0.00 MG on the CSO MRO and as <0.01 MG on the NetDMR.



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend										Page 1 of 11					Permit Number: IN0024520				
Facility: South Bend Municipal WWTP										Public Notification Requirements Met? Y									
Monitoring Period: April 2024										Check box if no CSO discharge occurred for the month: <input type="checkbox"/>									
Design Peak Hourly Flow (MGD): 77					Design Average Flow (MGD): 48					Measured/Metered (M) or Estimated (E) must be specified									
WWTP Influent Data			Precipitation Data					CSO Outfall No. 001					CSO Outfall No. 002						
Day of Month	Average Daily Flow (MGD)	Peak Hourly Flow (MGD)	Time Precip. Began (am/pm)	Precip. Duration (Hours)	Total Daily Precip. (Inches)	Peak Intensity (Inch/hr)	Measurement Interval (hr, 30 m, 15 m)	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1	60.6	86.0	12:00 AM	7.25	1.20	0.56	1 hr	2:25 AM	E	2.19	E	0.29	E	2:25 AM	E	2.83	E	0.10	E
2	38.9	67.0	3:00 AM	2.58	0.13	0.05	1 hr												
3	38.5	58.0	1:20 PM	4.75	0.22	0.05	1 hr												
4	34.6	46.8	10:05 AM	0.42	0.02	0.02	1 hr												
5	33.8	37.9	11:25 AM	0.33	0.02	0.02	1 hr												
6	33.2	38.1			-														
7	36.6	58.5	5:45 PM	2.58	0.25	0.16	1 hr												
8	34.4	50.8	12:00 AM	0.50	0.04	0.04	1 hr												
9	33.9	36.7			-														
10	33.1	35.7	11:45 PM	0.17	0.01	0.02	1 hr												
11	53.8	77.4	12:10 AM	13.67	0.95	0.22	1 hr	3:35 AM	E	1.56	E	0.15	E	3:35 AM	E	1.29	E	0.01	E
12	34.9	39.8	1:20 AM	0.17	0.01	0.01	1 hr												
13	33.0	36.7			-														
14	32.5	36.0			-														
15	32.8	35.7			-														
16	32.9	35.4	11:10 PM	0.42	0.02	0.10	1 hr												
17	40.0	56.7	12:00 AM	3.25	0.48	0.23	1 hr	2:00 AM	E	0.26	E	0.01	E						
18	32.9	37.0	10:45 PM	1.25	0.28	0.41	1 hr												
19	45.0	85.1	12:00 AM	2.58	0.40	0.36	1 hr	2:00 AM	E	0.18	E	0.01	E						
20	32.2	35.5			-														
21	31.5	35.0			-														
22	31.7	35.1			-														
23	31.7	34.5	2:35 PM	1.17	0.08	0.03	1 hr												
24	30.8	34.2			-														
25	30.8	34.2			-														
26	33.0	50.4	4:50 PM	2.58	0.20	0.09	1 hr												
27	34.6	57.3	2:05 AM	1.25	0.21	0.20	1 hr												
28	43.2	81.2	2:10 AM	3.50	0.55	0.22	1 hr	4:40 AM	E	0.40	E	0.02	E						
29	32.7	37.8	5:40 AM	0.67	0.06	0.06	1 hr												
30	31.9	35.2			-														
Totals:	1079.4			49.08	5.13			5	Da	4.59		0.48		2	Da	4.12		0.11	
Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent															Telephone				
Kim Thompson, Director of Wastewater															574-235-5969				
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION; THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.																			
Signature of Principal Executive Officer or Authorized Agent															Date (mm/dd/yy)				
K. Thompson															5-16-24				



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 2 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: April 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 003						CSO Outfall No. 004						CSO Outfall No. 006				CSO Outfall No. 007								
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1	6:35 PM	M	2.00	M	0.63	E	2:05 AM	E	1.31	E	0.02	E	3:25 AM	E	3.02	E	0.72	E	2:05 AM	E	4.56	E	0.08	E
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11													3:30 AM	M	2.58	M	0.70	E	3:45 AM	E	1.92	E	0.01	E
12																								
13																								
14																								
15																								
16																								
17													12:05 PM	M	0.92	M	0.25	E						
18													11:55 PM	M	0.08	M	0.01	E						
19	1:05 AM	M	1.00	M	0.48	E							12:00 AM	M	3.25	M	2.05	E						
20																								
21																								
22																								
23																								
24																								
25																								
26																								
27																								
28													4:10 AM	M	2.50	M	0.51	E						
29																								
30																								
Totals:	2	Dis	ys	3.00		1.11	1	Dis	ys	1.31		0.02	6	Dis	ys	12.35		4.23	2	Dis	ys	6.48		0.09



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 3 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: April 2024												Check box If no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 008						CSO Outfall No. 010						CSO Outfall No. 11A				CSO Outfall No. 11B								
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1	2:05 AM	E	14.08	E	0.26	E	2:05 AM	E	8.98	E	0.31	E							2:05 AM	E	8.35	E	1.99	E
2	5:10 AM	E	1.53	E	0.00	E																		
3	5:05 PM	E	1.53	E	0.00	E																		
4																								
5																								
6																								
7	7:50 PM	E	2.60	E	0.01	E	7:50 PM	E	0.85	E	0.01	E							7:50 PM	E	0.72	E	0.03	E
8																								
9																								
10																								
11	3:45 AM	E	10.90	E	0.15	E	3:45 AM	E	5.84	E	0.16	E							3:45 AM	E	5.37	E	1.02	E
12																								
13																								
14																								
15																								
16																								
17	2:25 AM	E	5.95	E	0.06	E	2:25 AM	E	3.33	E	0.05	E							2:25 AM	E	2.94	E	0.26	E
18	12:50 AM	E	3.02	E	0.02	E	12:50 AM	E	1.27	E	0.01	E							12:50 AM	E	1.08	E	0.05	E
19	2:00 AM	E	4.71	E	0.04	E	2:00 AM	E	2.83	E	0.03	E							2:00 AM	E	2.42	E	0.13	E
20																								
21																								
22																								
23																								
24																								
25																								
26	6:55 PM	E	2.38	E	0.01	E	6:55 PM	E	0.63	E	0.01	E							6:55 PM	E	0.54	E	0.03	E
27	4:15 AM	E	1.53	E	0.00	E																		
28	4:40 AM	E	9.46	E	0.10	E	4:40 AM	E	4.75	E	0.11	E							4:40 AM	E	4.41	E	0.62	E
29																								
30																								
Totals:	11	Da ys	57.69		0.65		8	Da ys	28.48		0.69		0	Da ys		0.00			8	Da ys	25.83		4.14	



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 4 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: April 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77												Design Flow (MGD): 48				Measured/Metered (M) or Estimated (E) must be specified								
CSO Outfall No. 014												CSO Outfall No. 018				CSO Outfall No. 019				CSO Outfall No. 021				
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1	2:05 AM	E	2.47	E	0.14	E	2:05 AM	E	8.22	E	0.95	E	2:15 AM	E	2.14	E	0.11	E	2:15 AM	E	1.04	E	0.01	E
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11	3:45 AM	E	1.50	E	0.06	E	3:45 AM	E	6.90	E	0.44	E	3:35 AM	E	1.93	E	0.07	E	3:35 AM	E	0.73	E	0.00	E
12																								
13																								
14																								
15																								
16																								
17	2:25 AM	E	0.28	E	0.01	E	2:25 AM	E	1.84	E	0.06	E	2:05 AM	E	0.42	E	0.01	E						
18													1:00 AM	E	0.12	E	0.00	E						
19	2:00 AM	E	0.04	E	0.00	E	2:00 AM	E	0.26	E	0.01	E	2:00 AM	E	0.45	E	0.01	E						
20																								
21																								
22																								
23																								
24																								
25																								
26																								
27																								
28	4:40 AM	E	0.96	E	0.05	E	4:40 AM	E	6.32	E	0.22	E	4:10 AM	E	0.96	E	0.02	E	4:10 AM	E	0.11	E	0.00	E
29																								
30																								
Totals:	5	Da ys	5.25		0.27		5	Da ys	23.54		1.69		6	Da ys	6.02		0.22		3	Da ys	1.88		0.01	



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)

State Form 55046 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 5 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: April 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77												Design Flow (MGD): 48				Measured/Metered (M) or Estimated (E) must be specified								
CSO Outfall No. 022							CSO Outfall No. 025					CSO Outfall No. 026					CSO Outfall No. 027							
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1	2:15 AM	E	18.20	E	2.29	E													2:10 AM	E	2.06	E	0.19	E
2																								
3	4:20 PM	E	0.90	E	0.02	E																		
4																								
5																								
6																								
7	8:00 PM	E	3.62	E	0.08	E																		
8																								
9																								
10																								
11	3:05 AM	M	1.83	M	0.16	E													2:10 AM	E	1.72	E	0.13	E
12																								
13																								
14																								
15																								
16																								
17	12:05 PM	M	0.67	M	0.22	E																		
18	11:45 PM	M	0.25	M	0.06	E																		
19	12:00 AM	M	1.92	M	0.91	E																		
20																								
21																								
22																								
23																								
24																								
25																								
26																								
27	3:15 AM	M	0.08	M	0.00	E																		
28	3:45 AM	M	2.00	M	0.31	E													4:45 AM	E	0.27	E	0.01	E
29																								
30																								
Totals:	9	Days	29.47		4.05		0	Days			0.00		0	Days			0.00		3	Days	4.05		0.33	



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 6 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? <input checked="" type="checkbox"/>												
Monitoring Period: April 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 028						CSO Outfall No. 029						CSO Outfall No. 031						CSO Outfall No. 033						
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1	2:05 AM	E	1.89	E	0.04	E	2:05 AM	E	3.58	E	0.07	E	2:05 AM	E	11.97	E	1.91	E	2:05 AM	E	11.62	E	0.06	E
2																								
3																								
4																								
5																								
6																								
7							7:50 PM	E	0.21	E	0.00	E	7:50 PM	E	1.05	E	0.05	E	7:50 PM	E	0.49	E	0.00	E
8																								
9																								
10																								
11	3:45 AM	E	0.59	E	0.00	E	3:45 AM	E	2.30	E	0.04	E	3:45 AM	E	7.79	E	1.03	E	3:45 AM	E	7.90	E	0.03	E
12																								
13																								
14																								
15																								
16																								
17							2:25 AM	E	1.09	E	0.01	E	2:25 AM	E	3.98	E	0.29	E	2:25 AM	E	2.89	E	0.01	E
18							12:50 AM	E	0.31	E	0.00	E	12:50 AM	E	1.58	E	0.07	E	12:50 AM	E	0.73	E	0.00	E
19							2:00 AM	E	0.73	E	0.00	E	2:00 AM	E	3.50	E	0.17	E	2:00 AM	E	1.77	E	0.00	E
20																								
21																								
22																								
23																								
24																								
25																								
26							6:55 PM	E	0.15	E	0.00	E	6:55 PM	E	0.79	E	0.03	E	6:55 PM	E	0.37	E	0.00	E
27																								
28							4:40 AM	E	2.11	E	0.02	E	4:40 AM	E	5.34	E	0.63	E	4:40 AM	E	6.06	E	0.02	E
29																								
30																								
Totals:	2	Days	2.48		0.04		8	Days	10.48		0.14		8	Days	36.00		4.18		8	Days	31.83		0.12	



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)

State Form 55046 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 7 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: April 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 035						CSO Outfall No. 036						CSO Outfall No. 037				CSO Outfall No. 038								
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1	2:05 AM	E	14.94	E	0.30	E	2:05 AM	E	4.17	E	0.04	E	2:45 AM	M	2.67	M	0.64	E						
2	5:10 AM	E	0.29	E	0.00	E																		
3	5:05 PM	E	0.29	E	0.00	E																		
4																								
5																								
6																								
7	7:50 PM	E	1.87	E	0.01	E																		
8																								
9																								
10																								
11	3:45 AM	E	10.84	E	0.18	E	3:45 AM	E	3.04	E	0.02	E												
12																								
13																								
14																								
15																								
16																								
17	2:25 AM	E	6.34	E	0.07	E	2:25 AM	E	0.72	E	0.00	E	12:20 PM	M	0.17	M	0.00	E						
18	12:50 AM	E	2.64	E	0.02	E																		
19	2:00 AM	E	5.48	E	0.04	E	2:00 AM	E	0.10	E	0.00	E	2:00 AM	E	1.99	E	0.27	E						
20																								
21																								
22																								
23																								
24																								
25																								
26	6:55 PM	E	1.49	E	0.01	E																		
27	4:15 AM	E	0.29	E	0.00	E																		
28	4:40 AM	E	8.77	E	0.13	E	4:40 AM	E	2.48	E	0.01	E	4:45 AM	E	4.14	E	0.67	E						
29																								
30																								
Totals:	11	De ye	53.24		0.76		5	De ye	10.51		0.07		4	De ye	8.96		1.57		0	De ye			0.00	



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 8 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: April 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 039						CSO Outfall No. 040						CSO Outfall No. 041				CSO Outfall No. 042								
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1	2:15 AM	E	4.79	E	0.25	E	2:10 AM	E	2.05	E	0.07	E	2:15 AM	E	2.43	E	0.03	E						
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11	3:35 AM	E	3.99	E	0.18	E	2:10 AM	E	1.80	E	0.05	E	3:35 AM	E	1.98	E	0.02	E						
12																								
13																								
14																								
15																								
16																								
17	2:05 AM	E	1.35	E	0.03	E																		
18	1:00 AM	E	0.39	E	0.01	E																		
19	2:00 AM	E	1.45	E	0.04	E																		
20																								
21																								
22																								
23																								
24																								
25																								
26																								
27																								
28	4:10 AM	E	2.64	E	0.08	E	4:45 AM	E	0.31	E	0.01	E	4:10 AM	E	0.81	E	0.00	E						
29																								
30																								
Totals:	6	Da ys	14.61		0.59		3	Da ys	4.16		0.13		3	Da ys	5.22		0.05		0	Da ys			0.00	



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 9 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: April 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 044						CSO Outfall No. 045						CSO Outfall No. 048				CSO Outfall No. 049								
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1							2:25 AM	E	4.39	E	1.53	E	2:15 AM	E	13.53	E	0.86	E						
2																								
3													4:20 PM	E	0.52	E	0.01	E						
4																								
5																								
6																								
7													8:00 PM	E	2.08	E	0.06	E						
8																								
9																								
10																								
11													3:35 AM	E	11.01	E	0.67	E						
12																								
13																								
14																								
15																								
16																								
17													2:05 AM	E	4.30	E	0.19	E						
18													1:00 AM	E	2.84	E	0.10	E						
19							1:05 AM	M	1.75	M	0.61	E	2:00 AM	E	4.45	E	0.20	E						
20																								
21																								
22																								
23																								
24																								
25																								
26													6:50 PM	E	1.38	E	0.04	E						
27													4:20 AM	E	0.00	E	0.00	E						
28													4:10 AM	E	6.66	E	0.35	E						
29																								
30																								
Totals:	0	Days			0.00		2	Days	6.14		2.14		10	Days	46.77		2.48		0	Days			0.00	



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 10 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: April 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77												Design Flow (MGD): 48				Measured/Metered (M) or Estimated (E) must be specified								
CSO Outfall No. 060												CSO Outfall No.				CSO Outfall No. [#]				CSO Outfall No. [#]				
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1	2:05 AM	E	11.62	E	0.04	E																		
2																								
3																								
4																								
5																								
6																								
7	7:50 PM	E	1.79	E	0.00	E																		
8																								
9																								
10																								
11	3:45 AM	E	8.94	E	0.02	E																		
12																								
13																								
14																								
15																								
16																								
17	2:25 AM	E	6.51	E	0.00	E																		
18	12:50 AM	E	2.69	E	0.00	E																		
19	2:00 AM	E	5.93	E	0.00	E																		
20																								
21																								
22																								
23																								
24																								
25																								
26	6:55 PM	E	1.35	E	0.00	E																		
27																								
28	4:40 AM	E	8.15	E	0.01	E																		
29																								
30																								
Totals:	8	Days	46.98		0.08		0	Days			0.00		0	Days			0.00		0	Days			0.00	



**National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)**
State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend		Page: 11 of 11	Permit Number: IN0024520
Facility: South Bend Municipal WWTP		Public Notification Requirements Met? Y <input type="checkbox"/>	
Monitoring Period: April Year: 2024		Check box if no CSO discharge occurred for the month: <input type="checkbox"/>	
Design Peak Hourly Flow (MGD): 77		Design Average Flow (MGD): 48	
Day of Month	Comments (further explanation as to why each CSO event occurred)		
1	Precipitation Event Observed		
2	Precipitation Event Observed		
3	Precipitation Event Observed		
4			
5			
6			
7	Precipitation Event Observed		
8			
9			
10			
11	Precipitation Event Observed		
12			
13			
14			
15			
16			
17	Precipitation Event Observed		
18	Precipitation Event Observed		
19	Precipitation Event Observed		
20			
21			
22			
23			
24			
25			
26	Precipitation Event Observed		
27	Precipitation Event Observed		
28	Precipitation Event Observed		
29			
30			
Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent		Telephone	
Kim Thompson, Director of Wastewater		574-235-5969	
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION; THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.			
Signature of Principal Executive Officer or Authorized Agent		Date (mm/dd/yy)	
		5/16/24	

CSO Public Notification - April

Day of Month	Day of Week	Total Daily Precip. (inches)	Total Daily CSO Discharge Volume (MG)	Notification Sent	Notes
1	Mon	1.20	13.95	YES	
2	Tue	0.13	0.00	YES	
3	Wed	0.22	0.03	YES	
4	Thu	0.02	0.00		
5	Fri	0.02	0.00		
6	Sat	-	-		
7	Sun	0.25	0.25	YES	
8	Mon	0.04	0.00	YES	Initial Notice Sent Due To Precipitation, But No Overflow Occurred
9	Tue	-	-		
10	Wed	0.01	0.00		
11	Thu	0.95	5.30	YES	
12	Fri	0.01	0.00		
13	Sat	-	-		
14	Sun	-	-		
15	Mon	-	-		
16	Tue	0.02	0.00		
17	Wed	0.48	1.53	YES	
18	Thu	0.28	0.35	YES	
19	Fri	0.40	5.00	YES	
20	Sat	-	-		
21	Sun	-	-		
22	Mon	-	-		
23	Tue	0.08	0.00	YES	Initial Notice Sent Due To Precipitation, But No Overflow Occurred
24	Wed	-	-		
25	Thu	-	-		
26	Fri	0.20	0.12	YES	
27	Sat	0.21	0.00	YES	
28	Sun	0.55	3.88	YES	
29	Mon	0.06	0.00	YES	Initial Notice Sent Due To Precipitation, But No Overflow Occurred
30	Tue	-	-		

Notes

Average Daily Flow Average value of 5-min WWTP flow data
 Peak Hourly Flow Maximum value of the rolling hourly average flow rate
 Time Precipitation Began First precipitation recorded between the six rain gauges
 Precipitation Duration Cumulative duration of all precipitation for the day
 Total Daily Precipitation Maximum value of precipitation for all the six rain gauges
 Peak Intensity Maximum precipitation depth in an hour
 Design Peak Hourly Flow Per the NPDES Permit, the WWTP facility has a peak design flow of 77 MGD

Metered CSOs

- CSOs 3, 6, 22, 37 and 45 are metered with flow meter equipment.
- Data is downloaded from these sites and entered into the report.
- Discharge begin time and duration is obtained from this data.
- Discharge volume is calculated using level data.

The sensor at CSO 006 was not functional from the 1st to the 4th of this month.
 The sensor at CSO 022 was removed for sewer cleaning during a portion of this month.
 The sensor at CSO 045 failed early in the month and was replaced.
 The sensor at CSO 037 was removed for sewer cleaning during a portion of this month.

The Matrix of Storms was used to calculate overflows during these periods.

Other CSOs

For non-metered CSOs, matrix relating precipitation to CSO volume is used to calculate CSO volume and the same for duration. The matrix was created from the South Bend design storms SWMM model results. The discharge time is estimated from the precipitation start time

Rain Gauges

Used the following rain gauges data in the CSO MRO: Colfax, Ethanol, Vaness, Southfield, WWTP and Ironwood.

Overflows less than 10,000 gallons are reported as 0.00 MG on the CSO MRO and as <0.01 MG on the NetDMR.



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend										Page 1 of 11					Permit Number: IN0024520														
Facility: South Bend Municipal WWTP										Public Notification Requirements Met? Y																			
Monitoring Period: May 2024										Check box if no CSO discharge occurred for the month: <input type="checkbox"/>																			
Design Peak Hourly Flow (MGD): 77										Design Average Flow (MGD): 48										Measured/Metered (M) or Estimated (E) must be specified									
WWTP Influent Data			Precipitation Data					CSO Outfall No. 001					CSO Outfall No. 002																
Day of Month	Average Daily Flow (MGD)	Peak Hourly Flow (MGD)	Time Precip. Began (am/pm)	Precip. Duration (Hours)	Total Daily Precip. (Inches)	Peak Intensity (Inch/hr)	Measurement Interval (hr, 30 m, 15 m)	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E										
1	32.0	35.1			-																								
2	32.0	37.9	1:00 PM	0.83	0.08	0.07	1 hr																						
3	33.6	37.6	2:25 AM	1.42	0.20	0.14	1 hr																						
4	31.1	35.0	11:00 PM	0.92	0.50	0.50	1 hr																						
5	37.7	73.0	12:15 AM	1.17	0.25	0.25	1 hr	2:15 AM	E	0.04	E	0.00	E																
6	30.8	34.2			-																								
7	33.5	43.9	10:55 AM	1.50	0.54	0.45	1 hr																						
8	30.5	34.3			-																								
9	40.9	81.6	5:30 AM	7.08	0.77	0.29	1 hr	7:40 AM	E	1.05	E	0.06	E	7:40 AM	E	0.26	E	0.00	E										
10	32.2	39.3	1:40 AM	0.08	0.01	0.01	1 hr																						
11	33.8	63.8	2:20 AM	1.75	0.20	0.16	1 hr																						
12	30.2	34.2			-																								
13	37.9	74.7	3:55 PM	2.00	0.60	0.57	1 hr																						
14	41.7	80.3	6:15 AM	4.33	0.80	0.53	1 hr	5:35 PM	E	1.88	E	0.20	E	5:35 PM	E	1.94	E	0.01	E										
15	33.8	44.3	12:00 AM	1.58	0.06	0.03	1 hr																						
16	36.9	57.2	5:10 PM	1.25	0.45	0.44	1 hr																						
17	33.0	48.3	11:00 AM	0.08	0.01	0.01	1 hr																						
18	31.9	35.7			-																								
19	31.6	34.6			-																								
20	38.3	82.1	7:10 PM	1.42	0.39	0.30	1 hr	9:10 PM	E	0.51	E	0.02	E																
21	32.6	58.7	12:25 AM	0.08	0.01	0.01	1 hr																						
22	31.2	33.8			-																								
23	30.7	34.2			-																								
24	30.8	34.6	3:20 PM	0.33	0.03	0.03	1 hr																						
25	30.0	34.1			-																								
26	32.9	57.6	2:00 PM	1.25	0.36	0.36	1 hr																						
27	41.8	83.7	12:00 AM	2.42	0.85	0.83	1 hr	2:45 AM	E	0.26	E	0.01	E																
28	31.2	35.8	5:30 AM	2.50	0.36	0.28	1 hr																						
29	39.4	68.1	1:35 AM	3.58	0.37	0.18	1 hr	3:35 AM	E	0.48	E	0.02	E																
30	31.0	34.2			-																								
31	31.3	35.4			-																								
Totals:		1046.1		35.58	6.84			6	Da	4.22		0.32		2	Da	2.20		0.01											
Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent															Telephone														
Kim Thompson, Director of Wastewater															574-235-5969														
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION; THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.																													
Signature of Principal Executive Officer or Authorized Agent															Date (mm/dd/yy)														
K. Thompson															6-18-24														



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 2 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: May 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77												Design Flow (MGD): 48				Measured/Metered (M) or Estimated (E) must be specified								
CSO Outfall No. 003												CSO Outfall No. 004				CSO Outfall No. 006				CSO Outfall No. 007				
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4													11:50 PM	M	0.17	M	0.03	E						
5													12:00 AM	M	1.67	M	0.23	E						
6																								
7																								
8																								
9													12:10 PM	M	2.58	M	0.90	E	10:20 AM	E	0.11	E	0.00	E
10																								
11																								
12																								
13													4:15 PM	M	2.75	M	1.95	E						
14													3:45 PM	M	3.58	M	2.53	E	5:20 PM	E	2.15	E	0.01	E
16																								
16													5:40 PM	M	2.33	M	0.77	E						
17																								
18																								
19																								
20																								
21													7:40 PM	M	2.58	M	0.41	E						
22																								
23																								
24																								
25																								
26																								
27	1:40 AM	M	1.75	M	1.89	E	3:05 AM	E	0.20	E	0.00	E	1:15 AM	M	3.33	M	3.78	E	3:05 AM	E	3.66	E	0.03	E
28																								
29													2:30 AM	M	3.17	M	0.75	E						
30																								
31																								
Totals:	1	Da ys	1.75		1.89		1	Da ys	0.20		0.00		9	Da ys	22.17		11.34		3	Da ys	5.92		0.04	



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 3 of 11		Permit Number: IN0024520										
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: May 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 008						CSO Outfall No. 010						CSO Outfall No. 11A						CSO Outfall No. 11B						
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3	4:30 AM	E	1.53	E	0.00	E																		
4	1:10 AM	E	2.38	E	0.01	E	1:10 AM	E	0.63	E	0.01	E							1:10 AM	E	0.54	E	0.03	E
5	2:20 AM	E	1.75	E	0.00	E	2:20 AM	E	0.00	E	0.00	E							2:20 AM	E	0.00	E	0.00	E
6																								
7	1:50 PM	E	2.38	E	0.01	E	1:50 PM	E	0.63	E	0.01	E							1:50 PM	E	0.54	E	0.03	E
8																								
9	10:20 AM	E	9.74	E	0.10	E	10:20 AM	E	4.89	E	0.11	E							10:20 AM	E	4.55	E	0.66	E
10																								
11	4:35 AM	E	3.02	E	0.02	E	4:35 AM	E	1.27	E	0.01	E							4:35 AM	E	1.08	E	0.05	E
12																								
13	6:05 PM	E	5.92	E	0.06	E	6:05 PM	E	3.83	E	0.07	E							6:05 PM	E	3.46	E	0.39	E
14	12:00 AM	E	7.94	E	0.11	E	5:20 PM	E	5.96	E	0.17	E							5:20 PM	E	5.47	E	1.07	E
15	12:00 AM	E	4.38	E	0.06	E																		
16	7:20 PM	E	4.67	E	0.05	E	7:20 PM	E	4.42	E	0.09	E							7:20 PM	E	4.07	E	0.53	E
17	12:00 AM	E	3.96	E	0.04	E																		
18																								
19																								
20	9:15 PM	E	2.75	E	0.02	E	9:15 PM	E	2.75	E	0.03	E							9:15 PM	E	2.42	E	0.13	E
21	12:00 AM	E	1.96	E	0.02	E	12:00 AM	E	0.08	E	0.00	E												
22																								
23																								
24																								
25																								
26	4:15 PM	E	3.23	E	0.02	E	4:15 PM	E	1.48	E	0.02	E							4:15 PM	E	1.26	E	0.06	E
27	3:05 AM	E	12.25	E	0.20	E	3:05 AM	E	7.02	E	0.22	E							3:05 AM	E	6.43	E	1.44	E
28	10:55 PM	E	0.00	E	0.00	E																		
29	3:45 AM	E	3.23	E	0.02	E	3:45 AM	E	1.48	E	0.02	E							3:45 AM	E	1.26	E	0.06	E
30																								
31																								
Totals:	17	Da ys	71.09		0.74		13	Da ys	34.44		0.77		0	Da ys			0.00		12	Da ys	31.08		4.44	



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

Slate Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 4 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: May 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 014						CSO Outfall No. 018						CSO Outfall No. 019				CSO Outfall No. 021								
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4													1:05 AM	E	0.78	E	0.01	E	1:05 AM	E	0.02	E	0.00	E
5																								
6																								
7													12:55 PM	E	0.89	E	0.02	E	12:55 PM	E	0.08	E	0.00	E
8																								
9	10:20 AM	E	1.03	E	0.05	E	10:20 AM	E	6.60	E	0.24	E	7:30 AM	E	1.69	E	0.04	E	7:30 AM	E	0.51	E	0.00	E
10																								
11																								
12																								
13	6:05 PM	E	0.52	E	0.03	E	6:05 PM	E	3.42	E	0.12	E												
14	5:20 PM	E	1.56	E	0.06	E	5:20 PM	E	6.67	E	0.45	E	8:15 AM	E	0.78	E	0.01	E	8:15 AM	E	0.02	E	0.00	E
15							12:00 AM	E	0.27	E	0.02	E												
16	7:20 PM	E	0.80	E	0.04	E	7:20 PM	E	4.67	E	0.16	E												
17							12:00 AM	E	0.60	E	0.02	E												
18																								
19																								
20	9:15 PM	E	0.04	E	0.00	E	9:15 PM	E	0.26	E	0.01	E												
21																								
22																								
23																								
24																								
25																								
26													4:15 PM	E	0.33	E	0.00	E						
27	3:05 AM	E	2.00	E	0.08	E	3:05 AM	E	7.33	E	0.67	E	3:20 AM	E	0.60	E	0.01	E						
28																								
29																								
30																								
31																								
Totals:	6	Days	5.95		0.26		8	Days	29.82		1.70		6	Days	5.07		0.09		4	Days	0.63		0.00	



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)

State Form 55046 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend										Page 5 of 11										Permit Number: IN0024520																			
Facility: South Bend Municipal WWTP										Public Notification Requirements Met? Y																													
Monitoring Period: May 2024										Check box if no CSO discharge occurred for the month: <input type="checkbox"/>																													
Design Peak Flow (Hourly) (MGD): 77										Design Flow (MGD): 48										Measured/Metered (M) or Estimated (E) must be specified																			
CSO Outfall No. 022										CSO Outfall No. 025										CSO Outfall No. 026										CSO Outfall No. 027									
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E															
1																																							
2																																							
3																																							
4	11:20 PM	M	0.67	M	0.30	E																																	
5	12:00 AM	M	0.75	M	0.02	E																																	
6																																							
7	5:05 PM	M	0.75	M	0.37	E																																	
8																																							
9	11:25 AM	M	1.75	M	0.38	E													7:40 AM	E	0.73	E	0.04	E															
10																																							
11																																							
12																																							
13																																							
14	3:25 PM	M	1.25	M	0.62	E													5:20 PM	E	0.27	E	0.01	E															
15																																							
16	5:45 PM	M	0.33	M	0.03	E																																	
17																																							
18																																							
19																																							
20	7:45 PM	M	0.67	M	0.05	E																																	
21																																							
22																																							
23																																							
24																																							
25																																							
26	2:50 PM	M	0.50	M	0.08	E																																	
27	1:35 AM	M	0.83	M	0.32	E																																	
28																																							
29																																							
30																																							
31																																							
Totals:	9	Days	7.50		2.18		0	Days			0.00		0	Days			0.00		2	Days	1.00		0.05																



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 6 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: May 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 028						CSO Outfall No. 029						CSO Outfall No. 031				CSO Outfall No. 033								
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4							1:10 AM	E	0.15	E	0.00	E	1:10 AM	E	0.79	E	0.03	E	1:10 AM	E	0.37	E	0.00	E
5							2:20 AM	E	0.00	E	0.00	E	2:20 AM	E	0.00	E	0.00	E	2:20 AM	E	0.00	E	0.00	E
6																								
7							1:50 PM	E	0.15	E	0.00	E	1:50 PM	E	0.79	E	0.03	E	1:50 PM	E	0.37	E	0.00	E
8																								
9	10:20 AM	E	0.03	E	0.00	E	10:20 AM	E	2.17	E	0.02	E	10:20 AM	E	5.56	E	0.67	E	10:20 AM	E	6.35	E	0.02	E
10																								
11							4:35 AM	E	0.31	E	0.00	E	4:35 AM	E	1.58	E	0.07	E	4:35 AM	E	0.73	E	0.00	E
12																								
13							6:05 PM	E	1.45	E	0.01	E	6:05 PM	E	4.46	E	0.41	E	6:05 PM	E	4.01	E	0.01	E
14	5:20 PM	E	0.66	E	0.00	E	5:20 PM	E	2.32	E	0.04	E	5:20 PM	E	6.67	E	0.89	E	5:20 PM	E	6.67	E	0.03	E
15													12:00 AM	E	1.40	E	0.19	E	12:00 AM	E	1.42	E	0.01	E
16							7:20 PM	E	1.87	E	0.02	E	7:20 PM	E	4.67	E	0.51	E	7:20 PM	E	4.67	E	0.01	E
17													12:00 AM	E	0.35	E	0.04	E	12:00 AM	E	0.65	E	0.00	E
18																								
19																								
20							9:15 PM	E	0.73	E	0.00	E	9:15 PM	E	2.75	E	0.13	E	9:15 PM	E	1.77	E	0.00	E
21													12:00 AM	E	0.75	E	0.04	E						
22																								
23																								
24																								
25																								
26							4:15 PM	E	0.36	E	0.00	E	4:15 PM	E	1.84	E	0.08	E	4:15 PM	E	0.85	E	0.00	E
27	3:05 AM	E	1.21	E	0.01	E	3:05 AM	E	2.59	E	0.05	E	3:05 AM	E	10.09	E	1.43	E	3:05 AM	E	9.61	E	0.04	E
28																								
29							3:45 AM	E	0.36	E	0.00	E	3:45 AM	E	1.84	E	0.08	E	3:45 AM	E	0.85	E	0.00	E
30																								
31																								
Totals:	3	Da ys	1.90		0.01		12	Da ys	12.46		0.14		15	Da ys	43.54		4.60		14	Da ys	38.32		0.12	



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 55046 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 7 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: May 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 035						CSO Outfall No. 036						CSO Outfall No. 037				CSO Outfall No. 038								
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3	4:30 AM	E	0.29	E	0.00	E																		
4	1:10 AM	E	1.49	E	0.01	E																		
5	2:20 AM	E	0.33	E	0.00	E																		
6																								
7	1:50 PM	E	1.49	E	0.01	E							5:20 PM	M	0.42	M	0.03	E						
8																								
9	10:20 AM	E	9.03	E	0.13	E	10:20 AM	E	2.61	E	0.01	E	12:35 PM	M	0.83	M	0.10	E						
10																								
11	4:35 AM	E	2.64	E	0.02	E																		
12																								
13	6:05 PM	E	5.92	E	0.07	E	6:05 PM	E	1.34	E	0.01	E	4:40 PM	M	0.50	M	0.02	E						
14	12:00 AM	E	7.95	E	0.13	E	5:20 PM	E	3.09	E	0.02	E	5:20 PM	E	4.14	E	0.67	E						
15	12:00 AM	E	4.39	E	0.08	E																		
16	7:20 PM	E	4.67	E	0.06	E	7:20 PM	E	2.07	E	0.01	E	6:00 PM	M	0.33	M	0.00	E						
17	12:00 AM	E	3.53	E	0.05	E																		
18																								
19																								
20	9:15 PM	E	2.75	E	0.02	E	9:15 PM	E	0.10	E	0.00	E												
21	12:00 AM	E	2.73	E	0.02	E																		
22																								
23																								
24																								
25																								
26	4:15 PM	E	3.03	E	0.02	E																		
27	3:05 AM	E	12.80	E	0.24	E	3:05 AM	E	3.53	E	0.02	E	1:40 AM	M	1.08	M	0.56	E						
28	10:55 PM	E	0.00	E	0.00	E																		
29	3:45 AM	E	3.03	E	0.02	E																		
30																								
31																								
Totals:	17	Days	68.07		0.89		6	Days	12.74		0.06		6	Days	7.31		1.39		0	Days			0.00	



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 8 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: May 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 039						CSO Outfall No. 040						CSO Outfall No. 041				CSO Outfall No. 042								
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4	1:05 AM	E	2.45	E	0.06	E							1:05 AM	E	0.62	E	0.00	E						
5																								
6																								
7	12:55 PM	E	2.57	E	0.07	E							12:55 PM	E	0.73	E	0.00	E						
8																								
9	7:30 AM	E	3.43	E	0.14	E	7:40 AM	E	0.82	E	0.02	E	7:30 AM	E	1.60	E	0.01	E						
10																								
11																								
12																								
13																								
14	8:15 AM	E	2.45	E	0.06	E	5:20 PM	E	0.31	E	0.01	E	8:15 AM	E	0.62	E	0.00	E						
15																								
16																								
17																								
18																								
19																								
20																								
21																								
22																								
23																								
24																								
25																								
26	4:15 PM	E	1.06	E	0.03	E																		
27	3:20 AM	E	1.93	E	0.05	E																		
28																								
29																								
30																								
31																								
Totals:	6	Days	13.89		0.41		2	Days	1.13		0.02		4	Days	3.57		0.01		0	Days			0.00	



National Pollutant Discharge Elimination System (NPDES)
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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend		Page 9 of 11		Permit Number: IN0024520																			
Facility: South Bend Municipal WWTP		Public Notification Requirements Met? Y																					
Monitoring Period: May 2024		Check box if no CSO discharge occurred for the month: <input type="checkbox"/>																					
Design Peak Flow (Hourly) (MGD): 77		Design Flow (MGD): 48		Measured/Metered (M) or Estimated (E) must be specified																			
CSO Outfall No. 044		CSO Outfall No. 045		CSO Outfall No. 048		CSO Outfall No. 049																	
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E					
1																							
2																							
3																							
4													1:05 AM	E	6.04	E	0.31	E					
5																							
6																							
7													12:55 PM	E	6.41	E	0.33	E					
8																							
9													7:30 AM	E	9.26	E	0.54	E					
10																							
11																							
12																							
13																							
14							5:30 PM	M	1.58	M	0.48	E	8:15 AM	E	6.04	E	0.31	E					
15																							
16													7:20 PM	E	1.56	E	0.04	E					
17																							
18																							
19																							
20													9:15 PM	E	1.90	E	0.05	E					
21																							
22																							
23																							
24																							
25																							
26													4:15 PM	E	3.86	E	0.17	E					
27							2:05 AM	M	1.83	M	0.61	E	3:20 AM	E	5.18	E	0.25	E					
28													8:00 AM	E	1.04	E	0.03	E					
29													4:25 AM	E	1.04	E	0.03	E					
30																							
31																							
Totals:	0	Days			0.00		2	Days	3.42		1.09		10	Days	42.33		2.05		0	Days		0	0.00



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend		Page 10 of 11		Permit Number: IN0024520														
Facility: South Bend Municipal WWTP		Public Notification Requirements Met? Y																
Monitoring Period: May 2024		Check box if no CSO discharge occurred for the month: <input type="checkbox"/>																
Design Peak Flow (Hourly) (MGD): 77		Design Flow (MGD): 48		Measured/Metered (M) or Estimated (E) must be specified														
CSO Outfall No. 060		CSO Outfall No.		CSO Outfall No. [#]														
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																		
2																		
3																		
4	1:10 AM	E	1.35	E	0.00	E												
5	2:20 AM	E	0.00	E	0.00	E												
6																		
7	1:50 PM	E	1.35	E	0.00	E												
8																		
9	10:20 AM	E	8.29	E	0.01	E												
10																		
11	4:35 AM	E	2.69	E	0.00	E												
12																		
13	6:05 PM	E	5.92	E	0.00	E												
14	12:00 AM	E	7.84	E	0.02	E												
15	12:00 AM	E	2.35	E	0.01	E												
16	7:20 PM	E	4.67	E	0.00	E												
17	12:00 AM	E	3.10	E	0.00	E												
18																		
19																		
20	9:15 PM	E	2.75	E	0.00	E												
21	12:00 AM	E	3.18	E	0.00	E												
22																		
23																		
24																		
25																		
26	4:15 PM	E	3.14	E	0.00	E												
27	3:05 AM	E	9.83	E	0.03	E												
28																		
29	3:45 AM	E	3.14	E	0.00	E												
30																		
31																		
Totals:	15	Days	59.60		0.08		0	Days		0.00			0	Days		0.00		



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City:	City of South Bend	Page:	11 of 11	Permit Number:	IN0024520
Facility:	South Bend Municipal WWTP	Public Notification Requirements Met? <input checked="" type="checkbox"/> Y			
Monitoring Period:	May Year: 2024	Check box if no CSO discharge occurred for the month: <input type="checkbox"/>			
Design Peak Hourly Flow (MGD):	77	Design Average Flow (MGD):	48		
Day of Month	Comments (further explanation as to why each CSO event occurred)				
1					
2					
3	Precipitation Event Observed				
4	Precipitation Event Observed				
5	Precipitation Event Observed				
6					
7	Precipitation Event Observed				
8					
9	Precipitation Event Observed				
10					
11	Precipitation Event Observed				
12					
13	Precipitation Event Observed				
14	Precipitation Event Observed				
15	Precipitation Event Observed				
16	Precipitation Event Observed				
17	Precipitation Event Observed				
18					
19					
20	Precipitation Event Observed				
21	Precipitation Event Observed				
22					
23					
24					
25					
26	Precipitation Event Observed				
27	Precipitation Event Observed				
28	Precipitation Event Observed				
29	Precipitation Event Observed				
30					
31					
Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent				Telephone	
Kim Thompson, Director of Wastewater				574-235-5969	
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION; THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.					
Signature of Principal Executive Officer or Authorized Agent				Date (mm/dd/yy)	
K Thompson				6-18-24	

CSO Public Notification - May

Day of Month	Day of Week	Total Daily Precip. (Inches)	Total Daily CSO Discharge Volume (MG)	Notification Sent	Notes
1	Wed	-	-		
2	Thu	0.08	0.00	YES	Initial Notice Sent Due To Precipitation, But No Overflow Occurred
3	Fri	0.20	0.00	YES	<10,000 Gallons
4	Sat	0.50	0.80	YES	
5	Sun	0.25	0.25	YES	
6	Mon	-	-		
7	Tue	0.54	0.92	YES	
8	Wed	-	-		
9	Thu	0.77	4.26	YES	
10	Fri	0.01	0.00		
11	Sat	0.20	0.17	YES	
12	Sun	-	-		
13	Mon	0.60	3.14	YES	
14	Tue	0.80	7.92	YES	
15	Wed	0.06	0.35	YES	Overflow from the 14th continued into the 15th.
16	Thu	0.45	2.34	YES	
17	Fri	0.01	0.15		Overflow from the 16th continued into the 17th.
18	Sat	-	-		
19	Sun	-	-		
20	Mon	0.39	0.90	YES	
21	Tue	0.01	0.08		Overflow from the 20th continued into the 21st.
22	Wed	-	-		
23	Thu	-	-		
24	Fri	0.03	0.00		
25	Sat	-	-		
26	Sun	0.36	0.47	YES	
27	Mon	0.85	11.96	YES	
28	Tue	0.36	0.03	YES	
29	Wed	0.37	0.99	YES	
30	Thu	-	-		
31	Fri	-	-		

Notes

Average Daily Flow	Average value of 5-min WWTP flow data
Peak Hourly Flow	Maximum value of the rolling hourly average flow rate
Time Precipitation Began	First precipitation recorded between the six rain gauges
Precipitation Duration	Cumulative duration of all precipitation for the day
Total Daily Precipitation	Maximum value of precipitation for all the six rain gauges
Peak Intensity	Maximum precipitation depth in an hour
Design Peak Hourly Flow	Per the NPDES Permit, the WWTP facility has a peak design flow of 77 MGD

Metered CSOs

- CSOs 3, 6, 22, 37 and 45 are metered with flow meter equipment.
- Data is downloaded from these sites and entered into the report.
- Discharge begin time and duration is obtained from this data.
- Discharge volume is calculated using level data.

The sensor at CSO 037 was not working properly during a portion of May. The Matrix of Storms was used to calculate overflows during this period.

Other CSOs

For non-metered CSOs, matrix relating precipitation to CSO volume is used to calculate CSO volume and the same for duration. The matrix was created from the South Bend design storms SWMM model results. The discharge time is estimated from the precipitation start time

Rain Gauges

Used the following rain gauges data in the CSO MRO: Colfax, Ethanol, Vaness, Southfield, WWTP and Ironwood.

Overflows less than 10,000 gallons are reported as 0.00 MG on the CSO MRO and as <0.01 MG on the NetDMR.



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend										Page 1 of 11					Permit Number: IN0024520									
Facility: South Bend Municipal WWTP										Public Notification Requirements Met? Y														
Monitoring Period: June 2024										Check box if no CSO discharge occurred for the month: <input type="checkbox"/>														
Design Peak Hourly Flow (MGD): 77										Design Average Flow (MGD): 48										Measured/Metered (M) or Estimated (E) must be specified				
WWTP Influent Data				Precipitation Data				CSO Outfall No. 001					CSO Outfall No. 002											
Day of Month	Average Daily Flow (MGD)	Peak Hourly Flow (MGD)	Time Precip. Began (am/pm)	Precip. Duration (Hours)	Total Daily Precip. (Inches)	Peak Intensity (Inch/hr)	Measurement Interval (hr, 30 m, 15 m)	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E					
1	31.0	36.7	2:55 PM	3.42	0.16	0.06	1 hr																	
2	30.6	34.1	12:55 AM	1.25	0.04	0.03	1 hr																	
3	31.2	35.6			-																			
4	31.0	34.4			-																			
5	31.0	36.3	1:25 AM	1.58	0.14	0.10	1 hr																	
6	30.2	33.4			-																			
7	30.6	37.2			-																			
8	30.0	40.5	5:55 PM	1.25	0.12	0.12	1 hr																	
9	30.0	42.2			-																			
10	29.3	32.6			-																			
11	29.9	36.7			-																			
12	29.8	34.5			-																			
13	40.0	81.2	5:15 PM	2.08	1.29	0.91	1 hr	7:20 PM	E	1.63	E	0.16	E	7:20 PM	E	1.42	E	0.01	E					
14	32.8	66.3			-																			
15	29.6	32.8			-																			
16	29.5	33.1	9:40 PM	0.75	0.17	0.17	1 hr																	
17	32.4	41.9	12:55 AM	1.33	0.46	0.42	1 hr																	
18	30.1	33.6	10:55 AM	0.33	0.03	0.03	1 hr																	
19	29.8	33.1			-																			
20	31.2	44.4	3:45 PM	1.25	0.71	0.65	1 hr	12:45 AM	E	1.40	E	0.12	E	12:45 AM	E	0.97	E	0.00	E					
21	31.6	42.2	2:25 AM	0.08	-	0.01	1 hr																	
22	29.1	32.4			-																			
23	44.9	82.4	1:55 AM	5.50	1.12	0.76	1 hr	3:55 AM	E	2.60	E	0.41	E	3:55 AM	E	4.05	E	0.23	E					
24	29.8	32.6	3:00 AM	0.25	0.03	0.01	1 hr																	
25	44.8	83.3	9:15 AM	2.33	1.29	1.09	1 hr	11:15 AM	E	2.62	E	0.42	E	11:15 AM	E	4.11	E	0.24	E					
26	32.7	36.4	7:55 AM	0.08	0.01	0.01	1 hr																	
27	30.5	33.6			-																			
28	30.5	37.9	1:35 PM	2.92	0.37	0.26	1 hr	3:35 PM	E	0.48	E	0.02	E											
29	38.9	73.4	1:15 AM	1.33	0.26	0.22	1 hr																	
30	29.0	32.4	2:30 AM	0.08	0.04	0.04	1 hr																	
Totals:	962.0			25.83	6.24			5	Days	8.73		1.13		4	Days	10.55		0.49						
Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent															Telephone									
Kim Thompson, Director of Wastewater															574-235-5969									
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION; THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.																								
Signature of Principal Executive Officer or Authorized Agent															Date (mm/dd/yy)									
															7-26-24									



National Pollutant Discharge Elimination System (NPDES)

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 2 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: June 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77												Design Flow (MGD): 48				Measured/Metered (M) or Estimated (E) must be specified								
CSO Outfall No. 003												CSO Outfall No. 004				CSO Outfall No. 006				CSO Outfall No. 007				
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13	7:10 PM	M	2.00	M	3.72	E							5:50 PM	M	4.42	M	5.12	E	7:20 PM	E	3.05	E	0.02	E
14																								
15																								
16																								
17																								
18																								
19																								
20													5:45 PM	E	4.05	E	1.76	E						
21																								
22																								
23	4:05 AM	E	0.31	E	0.00	E							2:20 AM	M	3.83	M	3.24	E	4:05 AM	E	3.27	E	0.02	E
24																								
25	10:05 AM	M	2.75	M	6.03	E	11:20 AM	E	0.76	E	0.01	E	9:35 AM	M	4.42	M	6.64	E	11:20 AM	E	4.11	E	0.05	E
26																								
27																								
28													11:45 PM	M	0.25	M	0.03	E						
29													12:00 AM	M	1.00	M	0.09	E						
30																								
Totals:	3	Da ys	5.06		9.75		1	Da ys	0.76		0.01		6	Da ys	17.97		16.89		3	Da ys	10.43		0.09	



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 3 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: June 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 008						CSO Outfall No. 010						CSO Outfall No. 11A				CSO Outfall No. 11B								
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1	5:10 PM	E	1.31	E	0.00	E																		
2																								
3																								
4																								
5																								
6																								
7																								
8	11:05 PM	E	0.92	E	0.00	E																		
9	12:00 AM	E	0.17	E	0.00	E																		
10																								
11																								
12																								
13	7:20 PM	E	4.67	E	0.07	E	7:20 PM	E	4.67	E	0.14	E							7:20 PM	E	4.67	E	0.99	E
14	12:00 AM	E	6.96	E	0.11	E	12:00 AM	E	1.76	E	0.05	E							12:00 AM	E	1.21	E	0.26	E
15																								
16	12:40 AM	E	1.75	E	0.00	E	12:40 AM	E	0.00	E	0.00	E							12:40 AM	E	0.00	E	0.00	E
17																								
18																								
19																								
20	6:00 PM	E	0.22	E	0.00	E																		
21																								
22																								
23	4:05 AM	E	11.77	E	0.18	E	4:05 AM	E	6.55	E	0.20	E							4:05 AM	E	5.98	E	1.29	E
24																								
25	11:20 AM	E	12.67	E	0.22	E	11:20 AM	E	8.00	E	0.27	E							11:20 AM	E	7.39	E	1.72	E
26	12:00 AM	E	0.50	E	0.01	E																		
27																								
28	4:45 PM	E	3.23	E	0.02	E	4:45 PM	E	1.48	E	0.02	E							4:45 PM	E	1.26	E	0.06	E
29	3:35 AM	E	3.02	E	0.02	E	3:35 AM	E	1.27	E	0.01	E							3:35 AM	E	1.08	E	0.05	E
30																								
Totals:	12	Da ys	47.19		0.63		7	Da ys	23.73		0.70		0	Da ys			0.00		7	Da ys	21.59		4.37	



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 4 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? <input checked="" type="checkbox"/> Y												
Monitoring Period: June 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 014						CSO Outfall No. 018						CSO Outfall No. 019				CSO Outfall No. 021								
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13	7:20 PM	E	1.80	E	0.07	E	7:20 PM	E	4.67	E	0.37	E	7:20 PM	E	2.23	E	0.13	E	7:20 PM	E	1.25	E	0.01	E
14							12:00 AM	E	2.42	E	0.19	E												
15																								
16																								
17													3:00 AM	E	0.63	E	0.01	E						
18																								
19																								
20																								
21																								
22																								
23	4:05 AM	E	1.86	E	0.07	E	4:05 AM	E	7.13	E	0.59	E	4:15 AM	E	1.66	E	0.04	E	4:15 AM	E	0.49	E	0.00	E
24																								
25	11:20 AM	E	2.24	E	0.11	E	11:20 AM	E	7.78	E	0.81	E	11:35 AM	E	1.99	E	0.08	E	11:35 AM	E	0.82	E	0.00	E
26																								
27																								
28																								
29																								
30																								
Totals:	3	Da ys	5.90		0.25		4	Da ys	22.00		1.98		4	Da ys	6.51		0.26		3	Da ys	2.56		0.02	



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)

State Form 55046 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 5 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: June 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 022						CSO Outfall No. 025						CSO Outfall No. 026						CSO Outfall No. 027						
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13	7:20 PM	E	4.67	E	0.62	E													7:25 PM	E	0.18	E	0.01	E
14	12:00 AM	E	14.53	E	1.94	E																		
15																								
16																								
17	3:00 AM	E	6.09	E	0.36	E																		
18																								
19																								
20																								
21																								
22																								
23	2:30 AM	M	2.42	M	0.62	E													4:05 AM	E	1.61	E	0.11	E
24																								
25	9:40 AM	M	2.58	M	1.35	E													11:20 AM	E	2.37	E	0.27	E
26																								
27																								
28																								
29																								
30																								
Totals:	5	Days	30.29		4.89		0	Days			0.00		0	Days			0.00		3	Days	4.16		0.39	



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
Slate Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 6 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: June 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 028						CSO Outfall No. 029						CSO Outfall No. 031				CSO Outfall No. 033								
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13	7:20 PM	E	0.94	E	0.00	E	7:20 PM	E	2.38	E	0.05	E	7:20 PM	E	4.67	E	0.64	E	7:20 PM	E	4.67	E	0.02	E
14													12:00 AM	E	4.52	E	0.62	E	12:00 AM	E	4.19	E	0.02	E
15																								
16							12:40 AM	E	0.00	E	0.00	E	12:40 AM	E	0.00	E	0.00	E	12:40 AM	E	0.00	E	0.00	E
17																								
18																								
19																								
20																								
21																								
22																								
23	4:05 AM	E	1.01	E	0.00	E	4:05 AM	E	2.40	E	0.05	E	4:05 AM	E	9.47	E	1.30	E	4:05 AM	E	9.06	E	0.04	E
24																								
25	11:20 AM	E	1.55	E	0.02	E	11:20 AM	E	3.09	E	0.06	E	11:20 AM	E	11.03	E	1.67	E	11:20 AM	E	10.62	E	0.05	E
26																								
27																								
28							4:45 PM	E	0.36	E	0.00	E	4:45 PM	E	1.84	E	0.08	E	4:45 PM	E	0.85	E	0.00	E
29							3:35 AM	E	0.31	E	0.00	E	3:35 AM	E	1.58	E	0.07	E	3:35 AM	E	0.73	E	0.00	E
30																								
Totals:	3	Days	3.50		0.02		6	Days	8.54		0.16		7	Days	33.11		4.37		7	Days	30.12		0.13	



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 55046 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 7 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: June 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77												Design Flow (MGD): 48				Measured/Metered (M) or Estimated (E) must be specified								
CSO Outfall No. 035												CSO Outfall No. 036				CSO Outfall No. 037				CSO Outfall No. 038				
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1	5:10 PM	E	0.25	E	0.00	E																		
2																								
3																								
4																								
5																								
6																								
7																								
8	11:05 PM	E	0.21	E	0.00	E																		
9																								
10																								
11																								
12																								
13	7:20 PM	E	4.67	E	0.08	E	7:20 PM	E	3.31	E	0.02	E	6:15 PM	M	1.00	M	0.46	E						
14	12:00 AM	E	7.30	E	0.13	E																		
15																								
16	12:40 AM	E	0.33	E	0.00	E																		
17																								
18																								
19																								
20	6:00 PM	E	0.04	E	0.00	E																		
21																								
22																								
23	4:05 AM	E	12.19	E	0.22	E	4:05 AM	E	3.36	E	0.02	E	2:25 AM	M	2.25	M	0.95	E						
24																								
25	11:20 AM	E	12.67	E	0.25	E	11:20 AM	E	3.85	E	0.03	E	9:40 AM	M	2.33	M	7.64	E						
26	12:00 AM	E	1.20	E	0.02	E																		
27																								
28	4:45 PM	E	3.03	E	0.02	E																		
29	3:35 AM	E	2.64	E	0.02	E																		
30																								
Totals:	11	Da ys	44.53		0.75		3	Da ys	10.52		0.07		3	Da ys	5.58		9.05		0	Da ys			0.00	



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 8 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: June 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 039						CSO Outfall No. 040						CSO Outfall No. 041				CSO Outfall No. 042								
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13	7:20 PM	E	4.67	E	0.25	E	7:25 PM	E	0.20	E	0.00	E	7:20 PM	E	2.52	E	0.03	E						
14	12:00 AM	E	0.36	E	0.02	E																		
15																								
16																								
17	3:00 AM	E	2.03	E	0.05	E																		
18																								
19																								
20																								
21																								
22																								
23	4:15 AM	E	3.40	E	0.14	E	4:05 AM	E	1.72	E	0.04	E	4:15 AM	E	1.56	E	0.01	E						
24																								
25	11:35 AM	E	4.20	E	0.20	E	11:20 AM	E	2.33	E	0.10	E	11:35 AM	E	2.10	E	0.02	E						
26																								
27																								
28																								
29																								
30																								
Totals:	5	Days	14.66		0.66		3	Days	4.25		0.14		3	Days	6.18		0.06		0	Days			0.00	



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 9 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: June 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 044						CSO Outfall No. 045						CSO Outfall No. 048				CSO Outfall No. 049								
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4																								
5																								
6																								
7																								
8													11:05 PM	E	0.00	E	0.00	E						
9																								
10																								
11																								
12																								
13							7:00 PM	M	2.58	M	1.22	E	7:20 PM	E	4.67	E	0.30	E						
14													12:00 AM	E	9.46	E	0.61	E						
15																								
16																								
17													3:00 AM	E	5.33	E	0.26	E						
18																								
19																								
20																								
21																								
22																								
23							3:30 AM	M	2.42	M	1.00	E	4:15 AM	E	9.13	E	0.53	E						
24																								
25							10:25 AM	M	2.92	M	1.81	E	11:35 AM	E	11.69	E	0.72	E						
26																								
27																								
28																								
29													3:15 AM	E	1.56	E	0.04	E						
30																								
Totals:	0	Da ys			0.00		3	Da ys	7.92		4.03		7	Da ys	41.84		2.46		0	Da ys			0.00	



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 10 of 11		Permit Number: IN0024520				
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y						
Monitoring Period: June 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>						
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified						
CSO Outfall No. 060						CSO Outfall No.						CSO Outfall No. [#]		CSO Outfall No. [#]				
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13	7:20 PM	E	4.67	E	0.01	E												
14	12:00 AM	E	4.67	E	0.01	E												
15																		
16	12:40 AM	E	0.00	E	0.00	E												
17																		
18																		
19																		
20																		
21																		
22																		
23	4:05 AM	E	9.42	E	0.03	E												
24																		
25	11:20 AM	E	10.72	E	0.04	E												
26																		
27																		
28	4:45 PM	E	3.14	E	0.00	E												
29	3:35 AM	E	2.69	E	0.00	E												
30																		
Totals:	7	Days	35.31		0.09		0	Days		0.00		0	Days		0.00		0	Days



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend		Page: 11 of 11	Permit Number: IN0024520
Facility: South Bend Municipal WWTP		Public Notification Requirements Met? Y	
Monitoring Period: June Year: 2024		Check box if no CSO discharge occurred for the month: <input type="checkbox"/>	
Design Peak Hourly Flow (MGD): 77		Design Average Flow (MGD): 48	
Day of Month	Comments (further explanation as to why each CSO event occurred)		
1	Precipitation Event Observed		
2			
3			
4			
5			
6			
7			
8	Precipitation Event Observed		
9	Precipitation Event Observed		
10			
11			
12			
13	Precipitation Event Observed		
14	Precipitation Event Observed		
15			
16	Precipitation Event Observed		
17	Precipitation Event Observed		
18			
19			
20	Precipitation Event Observed		
21			
22			
23	Precipitation Event Observed		
24			
25	Precipitation Event Observed		
26	Precipitation Event Observed		
27			
28	Precipitation Event Observed		
29	Precipitation Event Observed		
30			
Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent		Telephone	
Kim Thompson, Director of Wastewater		574-235-5969	
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION; THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.			
Signature of Principal Executive Officer or Authorized Agent		Date (mm/dd/yy)	
K. Thompson		7-26-24	

CSO Public Notification - June

Day of Month	Day of Week	Total Daily Precip. (inches)	Total Daily CSO Discharge Volume (MG)	Notification Sent	Notes
1	Sat	0.16	0.00	YES	<10,000 Gallons
2	Sun	0.04	0.00	YES	Notification Sent Due To Precipitation, But No Overflows
3	Mon	-	-		
4	Tue	-	-		
5	Wed	0.14	0.00	YES	Notification Sent Due To Precipitation, But No Overflows
6	Thu	-	-		
7	Fri	-	-		
8	Sat	0.12	0.00	YES	<10,000 Gallons
9	Sun	-	-		
10	Mon	-	-		
11	Tue	-	-		
12	Wed	-	-		
13	Thu	1.29	14.54	YES	Overflow Continued Into The 14th.
14	Fri	-	-		
15	Sat	-	-		
16	Sun	0.17	0.00	YES	<10,000 Gallons
17	Mon	0.46	0.68	YES	
18	Tue	0.03	0.00		
19	Wed	-	-		
20	Thu	0.71	1.89	YES	
21	Fri	-	-		
22	Sat	-	-		
23	Sun	1.12	11.34	YES	
24	Mon	0.03	0.00		
25	Tue	1.29	30.84	YES	
26	Wed	0.01	0.03		Overflow Continued Into The 26th.
27	Thu	-	-		
28	Fri	0.37	0.25	YES	
29	Sat	0.26	0.30	YES	
30	Sun	0.04	0.00	YES	Notification Sent Due To Precipitation, But No Overflows

Notes

Average Daily Flow	Average value of 5-min WWTP flow data
Peak Hourly Flow	Maximum value of the rolling hourly average flow rate
Time Precipitation Began	First precipitation recorded between the six rain gauges
Precipitation Duration	Cumulative duration of all precipitation for the day
Total Daily Precipitation	Maximum value of precipitation for all the six rain gauges
Peak Intensity	Maximum precipitation depth in an hour
Design Peak Hourly Flow	Per the NPDES Permit, the WWTP facility has a peak design flow of 77 MGD

Metered CSOs

- CSOs 3, 6, 22, 37 and 45 are metered with flow meter equipment.
- Data is downloaded from these sites and entered into the report.
- Discharge begin time and duration is obtained from this data
- Discharge volume is calculated using level data.

The sensors at CSO 003, 006 & 022 were not working during portions of this month.
The Matrix of Storms was used to calculate the overflows during these periods.

Other CSOs

For non-metered CSOs, matrix relating precipitation to CSO volume is used to calculate CSO volume and the same for duration. The matrix was created from the South Bend design storms SWMM model results. The discharge time is estimated from the precipitation start time

Rain Gauges

Used the following rain gauges data in the CSO MRO: Colfax, Ethanol, Vaness, Southfield, WWTP and Ironwood.

Overflows less than 10,000 gallons are reported as 0.00 MG on the CSO MRO and as <0.01 MG on the NetDMR.



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend		Page 1 of 11		Permit Number: IN0024520															
Facility: South Bend Municipal WWTP		Public Notification Requirements Met? Y																	
Monitoring Period: July 2024		Check box if no CSO discharge occurred for the month: <input type="checkbox"/>																	
Design Peak Hourly Flow (MGD): 77		Design Average Flow (MGD): 48		Measured/Metered (M) or Estimated (E) must be specified															
WWTP Influent Data			Precipitation Data					CSO Outfall No. 001					CSO Outfall No. 002						
Day of Month	Average Daily Flow (MGD)	Peak Hourly Flow (MGD)	Time Precip. Began (am/pm)	Precip. Duration (Hours)	Total Daily Precip. (Inches)	Peak Intensity (Inch/hr)	Measurement Interval (hr, 30 m, 15 m)	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1	30.3	35.0	11:20 PM	0.08	0.01	0.01	1 hr												
2	29.6	32.9	11:15 PM	0.08	0.01	0.01	1 hr												
3	29.7	32.8			-														
4	28.3	31.2			-														
5	29.2	34.4	9:40 AM	1.17	0.19	0.19	1 hr												
6	27.7	30.6			-														
7	28.0	31.3	7:05 PM	0.67	0.21	0.21	1 hr												
8	31.7	52.6	9:25 AM	1.67	0.30	0.19	1 hr	4:50 PM	E	0.18	E	0.01	E						
9	38.9	79.9	5:45 AM	6.75	1.77	1.05	1 hr	7:45 AM	E	4.41	E	0.86	E	7:45 AM	E	5.55	E	0.62	E
10	65.0	82.2	12:00 AM	10.33	2.05	0.67	1 hr	2:00 AM	E	3.54	E	0.68	E	2:00 AM	E	5.24	E	0.49	E
11	37.3	41.6	6:55 AM	0.25	0.04	0.04	1 hr												
12	35.8	40.7	7:00 AM	0.08	0.01	0.01	1 hr												
13	34.3	38.0			-														
14	50.1	80.0	2:00 AM	5.08	1.05	0.58	1 hr	4:30 AM	E	1.53	E	0.14	E	4:30 AM	E	1.23	E	0.01	E
15	48.0	78.8	1:40 AM	2.83	0.61	0.43	1 hr	3:40 AM	E	0.40	E	0.02	E						
16	39.2	52.6	12:10 AM	2.00	0.39	0.27	1 hr	2:10 AM	E	0.04	E	0.00	E						
17	35.4	39.9			-														
18	33.8	37.8			-														
19	33.2	36.4			-														
20	32.1	35.6			-														
21	32.0	36.1			-														
22	32.1	35.2	6:15 PM	0.08	0.01	0.01	1 hr												
23	32.1	35.8			-														
24	31.6	35.2	7:05 AM	0.33	0.10	0.09	1 hr												
25	30.9	33.9			-														
26	30.9	34.8			-														
27	29.9	33.9			-														
28	29.7	33.1			-														
29	31.3	38.9	1:05 PM	1.08	0.33	0.20	1 hr	3:15 PM	E	0.29	E	0.01	E						
30	29.7	34.6			-														
31	29.4	33.1	12:20 PM	0.08	-	0.01	1 hr												
Totals:	1056.9			32.58	7.08			7	Da ys	10.39		1.73		3	Da ys	12.02		1.11	
Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent												Telephone							
Kim Thompson, Director of Wastewater												574-235-5969							
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION; THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.																			
Signature of Principal Executive Officer or Authorized Agent												Date (mm/dd/yy)							
												8-16-24							



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 2 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: July 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
		CSO Outfall No. 003					CSO Outfall No. 004					CSO Outfall No. 006					CSO Outfall No. 007							
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9	2:25 PM	M	1.08	M	0.90	E							9:25 PM	M	2.58	M	1.75	E	3:50 PM	E	2.26	E	0.01	E
10	12:00 AM	M	4.42	M	8.83	E	2:00 AM	E	2.12	E	0.04	E	12:00 AM	M	9.33	M	8.52	E	2:00 AM	E	5.21	E	0.12	E
11																								
12																								
13																								
14	4:05 AM	M	2.00	M	1.29	E	4:30 AM	E	0.76	E	0.01	E	2:40 AM	M	4.00	M	3.59	E	4:30 AM	E	4.11	E	0.05	E
15													2:15 AM	M	3.33	M	0.92	E						
16																								
17																								
18																								
19																								
20																								
21																								
22																								
23																								
24																								
25																								
26																								
27																								
28																								
29																								
30																								
31																								
Totals:	3	Da ys	7.50		11.02		2	Da ys	2.88		0.05		4	Da ys	19.25		14.78		3	Da ys	11.58		0.19	



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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend										Page 3 of 11					Permit Number: IN0024520									
Facility: South Bend Municipal WWTP										Public Notification Requirements Met? Y														
Monitoring Period: July 2024										Check box if no CSO discharge occurred for the month: <input type="checkbox"/>														
Design Peak Flow (Hourly) (MGD): 77										Design Flow (MGD): 48					Measured/Metered (M) or Estimated (E) must be specified									
CSO Outfall No. 008										CSO Outfall No. 010					CSO Outfall No. 11A					CSO Outfall No. 11B				
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4																								
5	12:20 PM	E	0.00	E	0.00	E																		
6																								
7																								
8	4:50 PM	E	1.09	E	0.00	E																		
9	3:50 PM	E	8.17	E	0.12	E	3:50 PM	E	6.02	E	0.17	E							3:50 PM	E	5.52	E	1.09	E
10	12:00 AM	E	17.42	E	0.35	E	2:00 AM	E	10.41	E	0.37	E							2:00 AM	E	9.74	E	2.39	E
11																								
12																								
13																								
14	4:30 AM	E	13.17	E	0.23	E	4:30 AM	E	8.00	E	0.27	E							4:30 AM	E	7.39	E	1.72	E
15	3:45 AM	E	8.22	E	0.08	E	3:45 AM	E	4.25	E	0.09	E							3:45 AM	E	3.89	E	0.49	E
16	2:10 AM	E	1.31	E	0.00	E																		
17																								
18																								
19																								
20																								
21																								
22																								
23																								
24																								
25																								
26																								
27																								
28																								
29	3:10 PM	E	0.44	E	0.00	E																		
30																								
31																								
Totals:	8	Da ys	49.82		0.78		4	Da ys	28.68		0.89		0	Da ys			0.00		4	Da ys	28.54		5.69	



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City: City of South Bend												Page 4 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: July 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 014						CSO Outfall No. 018						CSO Outfall No. 019				CSO Outfall No. 021								
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9	3:50 PM	E	1.59	E	0.06	E	3:50 PM	E	6.96	E	0.48	E	3:30 PM	E	2.04	E	0.09	E	3:30 PM	E	0.89	E	0.01	E
10	2:00 AM	E	2.81	E	0.19	E	2:00 AM	E	8.88	E	1.16	E	2:00 AM	E	4.02	E	0.26	E	2:00 AM	E	1.99	E	0.07	E
11																								
12																								
13																								
14	4:30 AM	E	2.24	E	0.11	E	4:30 AM	E	7.78	E	0.81	E	4:35 AM	E	1.92	E	0.07	E	4:35 AM	E	0.71	E	0.00	E
15	3:45 AM	E	0.72	E	0.04	E	3:45 AM	E	4.74	E	0.17	E	3:45 AM	E	0.89	E	0.02	E	3:45 AM	E	0.08	E	0.00	E
16																								
17																								
18																								
19																								
20																								
21																								
22																								
23																								
24																								
25																								
26																								
27																								
28																								
29																								
30																								
31																								
Totals:	4	Days	7.36		0.40		4	Days	28.36		2.62		4	Days	8.87		0.44		4	Days	3.67		0.08	



National Pollutant Discharge Elimination System (NPDES)

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 5 of 11			Permit Number: IN0024520									
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: July 2024												Check box If no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 022						CSO Outfall No. 025						CSO Outfall No. 026						CSO Outfall No. 027						
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9	9:25 PM	M	2.58	M	2.30	E													3:40 PM	E	2.14	E	0.20	E
10	12:00 AM	M	12.92	M	8.37	E													2:00 AM	E	2.83	E	0.74	E
11																								
12																								
13																								
14	2:50 AM	M	4.17	M	2.69	E													4:30 AM	E	1.65	E	0.11	E
15	2:15 AM	M	3.50	M	1.93	E																		
16	12:40 AM	M	1.17	M	0.31	E																		
17																								
18																								
19																								
20																								
21																								
22																								
23																								
24																								
25																								
26																								
27																								
28																								
29	7:40 PM	M	0.33	M	0.07	E																		
30																								
31																								
Totals:	6	Da ys	24.67		15.67		0	Da ys		0.00		0	Da ys		0.00		3	Da ys	6.62		1.06			



National Pollutant Discharge Elimination System (NPDES)

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City: City of South Bend												Page 6 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: July 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 028						CSO Outfall No. 029						CSO Outfall No. 031						CSO Outfall No. 033						
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9	3:50 PM	E	0.70	E	0.00	E	3:50 PM	E	2.33	E	0.04	E	3:50 PM	E	8.17	E	1.09	E	3:50 PM	E	8.17	E	0.03	E
10	2:00 AM	E	2.39	E	0.06	E	2:00 AM	E	4.29	E	0.09	E	12:00 AM	E	13.37	E	2.27	E	12:00 AM	E	13.10	E	0.08	E
11																								
12																								
13																								
14	4:30 AM	E	1.55	E	0.02	E	4:30 AM	E	3.09	E	0.06	E	4:30 AM	E	11.03	E	1.67	E	4:30 AM	E	10.62	E	0.05	E
15							3:45 AM	E	1.75	E	0.01	E	3:45 AM	E	4.86	E	0.51	E	3:45 AM	E	4.94	E	0.01	E
16																								
17																								
18																								
19																								
20																								
21																								
22																								
23																								
24																								
25																								
26																								
27																								
28																								
29																								
30																								
31																								
Totals:	3	Days	4.64		0.08		4	Days	11.46		0.21		4	Days	37.43		5.54		4	Days	36.83		0.18	



National Pollutant Discharge Elimination System (NPDES)

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 7 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: July 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77												Design Flow (MGD): 48				Measured/Metered (M) or Estimated (E) must be specified								
CSO Outfall No. 035												CSO Outfall No. 036				CSO Outfall No. 037				CSO Outfall No. 038				
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4																								
5	12:20 PM	E	0.00	E	0.00	E																		
6																								
7																								
8	4:50 PM	E	0.21	E	0.00	E																		
9	3:50 PM	E	8.17	E	0.14	E	3:50 PM	E	3.12	E	0.02	E	3:40 PM	E	7.26	E	2.29	E						
10	12:00 AM	E	18.49	E	0.40	E	2:00 AM	E	4.64	E	0.05	E	2:00 AM	E	10.80	E	5.16	E						
11																								
12																								
13																								
14	4:30 AM	E	13.87	E	0.27	E	4:30 AM	E	3.85	E	0.03	E	4:30 AM	E	6.01	E	1.65	E						
15	3:45 AM	E	7.91	E	0.10	E	3:45 AM	E	1.86	E	0.01	E	3:45 AM	E	2.76	E	0.37	E						
16	2:10 AM	E	0.25	E	0.00	E							2:10 AM	E	0.31	E	0.04	E						
17																								
18																								
19																								
20																								
21																								
22																								
23																								
24																								
25																								
26																								
27																								
28																								
29	3:10 PM	E	0.08	E	0.00	E																		
30																								
31																								
Totals:	8	Days	48.98		0.92		4	Days	13.47		0.10		5	Days	27.14		9.51		0	Days			0.00	



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 8 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: July 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 039						CSO Outfall No. 040						CSO Outfall No. 041				CSO Outfall No. 042								
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9	3:30 PM	E	4.39	E	0.22	E	3:40 PM	E	2.11	E	0.08	E	3:30 PM	E	2.20	E	0.02	E						
10	2:00 AM	E	8.63	E	0.49	E	2:00 AM	E	4.06	E	0.20	E	2:00 AM	E	2.97	E	0.06	E						
11																								
12																								
13																								
14	4:35 AM	E	3.92	E	0.18	E	4:30 AM	E	1.75	E	0.05	E	4:35 AM	E	1.94	E	0.02	E						
15	3:45 AM	E	2.57	E	0.07	E							3:45 AM	E	0.73	E	0.00	E						
16																								
17																								
18																								
19																								
20																								
21																								
22																								
23																								
24																								
25																								
26																								
27																								
28																								
29																								
30																								
31																								
Totals:	4	Da ys	19.51		0.96		3	Da ys	7.92		0.32		4	Da ys	7.84		0.10		0	Da ys			0.00	



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 9 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: July 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 044						CSO Outfall No. 045						CSO Outfall No. 048				CSO Outfall No. 049								
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4																								
5													12:15 PM	E	1.21	E	0.03	E						
6																								
7																								
8																								
9	7:45 AM	E	0.69	E	0.02	E	11:15 PM	M	0.75	M	0.40	E	3:30 PM	E	8.50	E	0.53	E						
10	2:00 AM	E	0.13	E	0.00	E	12:00 AM	M	7.75	M	4.86	E	12:00 AM	E	21.65	E	1.60	E						
11																								
12																								
13																								
14							4:05 AM	M	2.75	M	1.71	E	4:35 AM	E	10.82	E	0.65	E						
15							5:05 AM	M	0.42	M	0.01	E	3:45 AM	E	6.41	E	0.33	E						
16													2:10 AM	E	1.38	E	0.04	E						
17																								
18																								
19																								
20																								
21																								
22																								
23																								
24																								
25																								
26																								
27																								
28																								
29													3:10 PM	E	0.00	E	0.00	E						
30																								
31																								
Totals:	2	Days	0.82		0.02		4	Days	11.67		6.98		7	Days	49.97		3.18		0	Days			0.00	



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

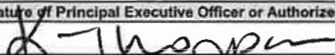
City: City of South Bend												Page 10 of 11		Permit Number: IN0024520										
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: July 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 060						CSO Outfall No.						CSO Outfall No. [#]						CSO Outfall No. [#]						
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9	3:50 PM	E	8.17	E	0.02	E																		
10	12:00 AM	E	13.81	E	0.05	E																		
11																								
12																								
13																								
14	4:30 AM	E	10.72	E	0.04	E																		
15	3:45 AM	E	7.57	E	0.01	E																		
16																								
17																								
18																								
19																								
20																								
21																								
22																								
23																								
24																								
25																								
26																								
27																								
28																								
29																								
30																								
31																								
Totals:	4	Days	40.27		0.12		0	Days			0.00		0	Days			0.00		0	Days			0.00	



**National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)**

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend		Page: 11 of 11	Permit Number: IN0024520
Facility: South Bend Municipal WWTP		Public Notification Requirements Met? Y <input type="checkbox"/>	
Monitoring Period: July Year: 2024		Check box if no CSO discharge occurred for the month: <input type="checkbox"/>	
Design Peak Hourly Flow (MGD): 77		Design Average Flow (MGD): 48	
Day of Month	Comments (further explanation as to why each CSO event occurred)		
1			
2			
3			
4			
5	Precipitation Event Observed		
6			
7			
8	Precipitation Event Observed		
9	Precipitation Event Observed		
10	Precipitation Event Observed		
11			
12			
13			
14	Precipitation Event Observed		
15	Precipitation Event Observed		
16	Precipitation Event Observed		
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29	Precipitation Event Observed		
30			
31			
Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent		Telephone	
Kim Thompson, Director of Wastewater		574-235-5969	
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION; THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.			
Signature of Principal Executive Officer or Authorized Agent		Date (mm/dd/yy)	
		8-16-24	

CSO Public Notification - July

Day of Month	Day of Week	Total Daily Precip. (Inches)	Total Daily CSO Discharge Volume (MG)	Notification Sent	Notes
1	Mon	0.01	0.00		
2	Tue	0.01	0.00		
3	Wed	-	-		
4	Thu	-	-		
5	Fri	0.19	0.03	YES	
6	Sat	-	-		
7	Sun	0.21	0.00	YES	Notification Sent Due To Precipitation, But No Overflows
8	Mon	0.30	0.01	YES	
9	Tue	1.77	13.56	YES	Overflow Continued Into The 10th
10	Wed	2.05	47.95	YES	
11	Thu	0.04	0.00	YES	Notification Sent Due To Precipitation, But No Overflows
12	Fri	0.01	0.00		
13	Sat	-	-		
14	Sun	1.05	17.51	YES	
15	Mon	0.61	5.19	YES	
16	Tue	0.39	0.39	YES	
17	Wed	-	-		
18	Thu	-	-		
19	Fri	-	-		
20	Sat	-	-		
21	Sun	-	-		
22	Mon	0.01	0.00		
23	Tue	-	-		
24	Wed	0.10	0.00	YES	Notification Sent Due To Precipitation, But No Overflows
25	Thu	-	-		
26	Fri	-	-		
27	Sat	-	-		
28	Sun	-	-		
29	Mon	0.33	0.08	YES	
30	Tue	-	-		
31	Wed	-	-		

Notes

Average Daily Flow	Average value of 5-min WWTP flow data
Peak Hourly Flow	Maximum value of the rolling hourly average flow rate
Time Precipitation Began	First precipitation recorded between the six rain gauges
Precipitation Duration	Cumulative duration of all precipitation for the day
Total Daily Precipitation	Maximum value of precipitation for all the six rain gauges
Peak Intensity	Maximum precipitation depth in an hour
Design Peak Hourly Flow	Per the NPDES Permit, the WWTP facility has a peak design flow of 77 MGD

Metered CSOs

- CSOs 3, 6, 22, 37 and 45 are metered with flow meter equipment.
- Data is downloaded from these sites and entered into the report.
- Discharge begin time and duration is obtained from this data.
- Discharge volume is calculated using level data.

The sensors at CSO 022 & 037 were not working properly during portions of July.
The Matrix of Storms was used to calculate overflows during these periods.

Other CSOs

For non-metered CSOs, matrix relating precipitation to CSO volume is used to calculate CSO volume and the same for duration. The matrix was created from the South Bend design storms SWMM model results. The discharge time is estimated from the precipitation start time

Rain Gauges

Used the following rain gauges data in the CSO MRO: Colfax, Ethanol, Vaness, Southfield, WWTP and Ironwood.

Overflows less than 10,000 gallons are reported as 0.00 MG on the CSO MRO and as <0.01 MG on the NetDMR.



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend		Page 1 of 11		Permit Number: IN0024520															
Facility: South Bend Municipal WWTP		Public Notification Requirements Met? Y																	
Monitoring Period: August 2024		Check box if no CSO discharge occurred for the month: <input type="checkbox"/>																	
Design Peak Hourly Flow (MGD): 77		Design Average Flow (MGD): 48		Measured/Metered (M) or Estimated (E) must be specified															
WWTP Influent Data			Precipitation Data				CSO Outfall No. 001				CSO Outfall No. 002								
Day of Month	Average Daily Flow (MGD)	Peak Hourly Flow (MGD)	Time Precip. Began (am/pm)	Precip. Duration (Hours)	Total Daily Precip. (Inches)	Peak Intensity (Inch/hr)	Measurement Interval (hr, 30 m, 15 m)	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1	29.2	31.7	5:25 PM	0.83	0.55	0.55	1 hr												
2	29.6	34.9	4:25 PM	0.92	0.08	0.08	1 hr												
3	28.9	32.7			-														
4	28.8	32.7			-														
5	34.5	63.4	9:35 AM	1.75	0.36	0.32	1 hr	11:35 AM	E	0.40	E	0.02	E						
6	28.9	31.7	10:55 AM	0.42	0.08	0.08	1 hr												
7	28.3	30.8			-														
8	28.5	32.6			-														
9	28.3	31.2			-														
10	27.7	31.2			-														
11	27.3	31.7			-														
12	27.9	31.0			-														
13	27.7	31.0			-														
14	27.9	31.0			-														
15	27.4	30.4	9:50 AM	1.83	0.08	0.04	1 hr												
16	27.8	31.1	5:10 AM	2.00	0.29	0.16	1 hr												
17	27.8	35.5	1:15 PM	1.42	0.21	0.12	1 hr												
18	28.0	32.0	3:40 AM	2.92	0.26	0.21	1 hr												
19	27.2	30.3			-														
20	26.7	29.7			-														
21	27.3	30.2			-														
22	27.2	29.8			-														
23	27.3	31.9			-														
24	27.1	31.3			-														
25	27.6	31.9			-														
26	28.0	32.6			-														
27	35.7	81.5	4:45 PM	1.83	1.42	1.15	1 hr	6:55 PM	E	1.21	E	0.09	E	6:55 PM	E	0.58	E	0.00	E
28	43.6	81.0	12:05 AM	3.25	0.32	0.15	1 hr	2:20 AM	E	0.04	E	0.00	E						
29	30.0	35.8	11:10 AM	0.08	0.01	0.01	1 hr												
30	28.6	31.8	5:45 PM	0.42	0.22	0.22	1 hr												
31	27.9	31.8	4:20 AM	0.08	0.01	0.01	1 hr												
Totals:	898.7			17.75	3.89			3	Day	1.65		0.11		1	Day	0.58		0.00	
Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent														Telephone					
Kim Thompson, Director of Wastewater														574-235-5969					
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION; THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.																			
Signature of Principal Executive Officer or Authorized Agent														Date (mm/dd/yy)					
K Thompson														9-26-24					



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 2 of 11			Permit Number: IN0024520									
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: August 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 003						CSO Outfall No. 004						CSO Outfall No. 006						CSO Outfall No. 007						
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4																								
5													10:05 AM	M	0.75	M	0.03	E						
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								
15																								
16																								
17																								
18																								
19																								
20																								
21																								
22																								
23																								
24																								
25																								
26																								
27	10:25 PM	M	1.58	M	6.75	E	6:50 PM	E	2.67	E	0.06	E	5:15 PM	M	4.00	M	6.77	E	6:50 PM	E	5.17	E	0.13	E
28	12:00 AM	M	0.92	M	0.84	E							12:00 AM	M	3.58	M	0.71	E	12:00 AM	E	0.40	E	0.01	E
29																								
30																								
31																								
Totals:	2	Days	2.50		7.59		1	Days	2.67		0.06		3	Days	8.33		7.51		2	Days	5.57		0.14	



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 3 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: August 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77												Design Flow (MGD): 48				Measured/Metered (M) or Estimated (E) must be specified								
CSO Outfall No. 008						CSO Outfall No. 010						CSO Outfall No. 11A						CSO Outfall No. 11B						
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2	6:35 PM	E	0.00	E	0.00	E																		
3																								
4																								
5	11:45 AM	E	5.95	E	0.06	E	11:45 AM	E	3.33	E	0.05	E							11:45 AM	E	2.94	E	0.26	E
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								
15	12:25 PM	E	0.00	E	0.00	E																		
16	7:35 AM	E	0.00	E	0.00	E																		
17	3:50 PM	E	0.00	E	0.00	E																		
18	5:50 AM	E	0.88	E	0.00	E																		
19																								
20																								
21																								
22																								
23																								
24																								
25																								
26																								
27	6:50 PM	E	5.17	E	0.11	E	6:50 PM	E	5.17	E	0.20	E							6:50 PM	E	5.17	E	1.42	E
28	12:00 AM	E	8.12	E	0.29	E	12:00 AM	E	5.50	E	0.27	E							12:00 AM	E	5.11	E	1.62	E
29																								
30																								
31																								
Totals:	8	Da ya	20.11		0.46		3	Da ya	13.99		0.52		0	Da ya			0.00		3	Da ya	13.21		3.30	



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 4 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: August 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77												Design Flow (MGD): 48				Measured/Metered (M) or Estimated (E) must be specified								
CSO Outfall No. 014						CSO Outfall No. 018						CSO Outfall No. 019				CSO Outfall No. 021								
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4																								
5	11:45 AM	E	0.28	E	0.01	E	11:45 AM	E	1.84	E	0.06	E	11:45 AM	E	0.33	E	0.00	E						
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								
15																								
16													7:15 AM	E	0.12	E	0.00	E						
17																								
18													5:55 AM	E	0.03	E	0.00	E						
19																								
20																								
21																								
22																								
23																								
24																								
25																								
26																								
27	6:50 PM	E	2.88	E	0.22	E	6:50 PM	E	5.17	E	0.79	E	7:00 PM	E	2.25	E	0.13	E	7:00 PM	E	1.32	E	0.02	E
28	2:10 AM	E	0.28	E	0.01	E	12:00 AM	E	4.01	E	0.66	E	2:05 AM	E	0.15	E	0.00	E						
29																								
30																								
31																								
Totals:	3	Days	3.44		0.25		3	Days	11.01		1.52		5	Days	2.88		0.14		1	Days	1.32		0.02	





National Pollutant Discharge Elimination System (NPDES)

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 6 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: August 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77												Design Flow (MGD): 48				Measured/Metered (M) or Estimated (E) must be specified								
CSO Outfall No. 028						CSO Outfall No. 029						CSO Outfall No. 031						CSO Outfall No. 033						
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4																								
5							11:45 AM	E	1.09	E	0.01	E	11:45 AM	E	3.98	E	0.29	E	11:45 AM	E	2.89	E	0.01	E
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								
15																								
16																								
17																								
18																								
19																								
20																								
21																								
22																								
23																								
24																								
25																								
26																								
27	6:50 PM	E	2.64	E	0.10	E	6:50 PM	E	4.42	E	0.11	E	6:50 PM	E	5.17	E	0.95	E	6:50 PM	E	5.17	E	0.03	E
28							2:10 AM	E	1.09	E	0.01	E	12:00 AM	E	6.15	E	1.87	E	12:00 AM	E	5.06	E	0.06	E
29																								
30																								
31																								
Totals:	1	Da ys	2.64		0.10		3	Da ys	6.60		0.12		3	Da ys	15.29		3.12		3	Da ys	13.11		0.10	



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 55046 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 7 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: August 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 035						CSO Outfall No. 036						CSO Outfall No. 037				CSO Outfall No. 038								
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2	6:35 PM	E	0.00	E	0.00	E																		
3																								
4																								
5	11:45 AM	E	6.34	E	0.07	E	11:45 AM	E	0.72	E	0.00	E												
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								
15	12:25 PM	E	0.00	E	0.00	E																		
16	7:35 AM	E	0.00	E	0.00	E																		
17	3:50 PM	E	0.00	E	0.00	E																		
18	5:50 AM	E	0.17	E	0.00	E																		
19																								
20																								
21																								
22																								
23																								
24																								
25																								
26																								
27	6:50 PM	E	5.17	E	0.12	E	6:50 PM	E	4.98	E	0.06	E	5:15 PM	M	2.50	M	12.44	E						
28	12:00 AM	E	8.51	E	0.33	E	2:10 AM	E	0.72	E	0.00	E	12:00 AM	M	0.33	M	0.02	E						
29																								
30																								
31																								
Totals:	8	Da ys	20.18		0.51		3	Da ys	6.42		0.06		2	Da ys	2.83		12.46		0	Da ys			0.00	



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 8 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: August 2024												Check box If no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 039						CSO Outfall No. 040						CSO Outfall No. 041				CSO Outfall No. 042								
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4																								
5	11:45 AM	E	1.06	E	0.03	E																		
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								
15																								
16	7:15 AM	E	0.39	E	0.01	E																		
17																								
18	5:55 AM	E	0.10	E	0.00	E																		
19																								
20																								
21																								
22																								
23																								
24																								
25																								
26																								
27	7:00 PM	E	5.00	E	0.27	E	6:45 PM	E	2.52	E	0.11	E	7:00 PM	E	2.53	E	0.03	E						
28	12:00 AM	E	0.56	E	0.02	E																		
29																								
30																								
31																								
Totals:	5	De ys	7.11		0.33		1	De ys	2.52		0.11		1	De ys	2.53		0.03		0	De ys			0.00	



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 9 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: August 2024												Check box If no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 044						CSO Outfall No. 045						CSO Outfall No. 048						CSO Outfall No. 049						
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4																								
5													11:45 AM	E	3.86	E	0.17	E						
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								
15																								
16													7:15 AM	E	2.84	E	0.10	E						
17																								
18													5:55 AM	E	2.40	E	0.07	E						
19																								
20																								
21																								
22																								
23																								
24																								
25																								
26																								
27							10:45 PM	M	1.25	M	1.03	E	7:00 PM	E	5.00	E	0.32	E						
28							12:00 AM	M	1.50	M	0.39	E	12:00 AM	E	5.06	E	0.70	E						
29																								
30																								
31																								
Totals:	0	Days			0.00		2	Days	2.75		1.41		5	Days	19.16		1.36		0	Days			0.00	



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 10 of 11			Permit Number: IN0024520				
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y							
Monitoring Period: August 2024												Check box If no CSO discharge occurred for the month: <input type="checkbox"/>							
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified							
CSO Outfall No. 060						CSO Outfall No.						CSO Outfall No. [#]			CSO Outfall No. [#]				
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	
1																			
2																			
3																			
4																			
5	11:45 AM	E	6.51	E	0.00	E													
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			
25																			
26																			
27	6:50 PM	E	5.17	E	0.02	E													
28	12:00 AM	E	8.68	E	0.04	E													
29																			
30																			
31																			
Totals:	3	Day	20.35		0.06		0	Day			0.00		0	Day			0.00		



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend		Page: 11 of 11	Permit Number: IN0024520
Facility: South Bend Municipal WWTP		Public Notification Requirements Met? Y	
Monitoring Period: August Year: 2024		Check box if no CSO discharge occurred for the month: <input type="checkbox"/>	
Design Peak Hourly Flow (MGD): 77		Design Average Flow (MGD): 48	
Day of Month	Comments (further explanation as to why each CSO event occurred)		
1			
2	Precipitation Event Observed		
3			
4			
5	Precipitation Event Observed		
6			
7			
8			
9			
10			
11			
12			
13			
14			
15	Precipitation Event Observed		
16	Precipitation Event Observed		
17	Precipitation Event Observed		
18	Precipitation Event Observed		
19			
20			
21			
22			
23			
24			
25			
26			
27	Precipitation Event Observed		
28	Precipitation Event Observed		
29			
30			
31			
Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent		Telephone	
Kim Thompson, Director of Wastewater		574-235-5969	
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION; THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.			
Signature of Principal Executive Officer or Authorized Agent		Date (mm/dd/yy)	
		9-26-24	

CSO Public Notification - August

Day of Month	Day of Week	Total Daily Precip. (Inches)	Total Daily CSO Discharge Volume (MG)	Notification Sent	Notes
1	Thu	0.55	0.00		Notification Sent Due To Precipitation, But No Overflows
2	Fri	0.08	0.00		<10,000 Gallons
3	Sat	-	-		
4	Sun	-	-		
5	Mon	0.36	1.79		
6	Tue	0.08	0.00		Notification Sent Due To Precipitation, But No Overflows
7	Wed	-	-		
8	Thu	-	-		
9	Fri	-	-		
10	Sat	-	-		
11	Sun	-	-		
12	Mon	-	-		
13	Tue	-	-		
14	Wed	-	-		
15	Thu	0.08	0.00		<10,000 Gallons
16	Fri	0.29	0.18		
17	Sat	0.21	0.00		<10,000 Gallons
18	Sun	0.26	0.07		
19	Mon	-	-		
20	Tue	-	-		
21	Wed	-	-		
22	Thu	-	-		
23	Fri	-	-		
24	Sat	-	-		
25	Sun	-	-		
26	Mon	-	-		
27	Tue	1.42	35.07		
28	Wed	0.32	7.99		
29	Thu	0.01	0.00		
30	Fri	0.22	0.00		Notification Sent Due To Precipitation, But No Overflows
31	Sat	0.01	0.00		

Notes

Average Daily Flow	Average value of 5-min WWTP flow data
Peak Hourly Flow	Maximum value of the rolling hourly average flow rate
Time Precipitation Began	First precipitation recorded between the six rain gauges
Precipitation Duration	Cumulative duration of all precipitation for the day
Total Daily Precipitation	Maximum value of precipitation for all the six rain gauges
Peak Intensity	Maximum precipitation depth in an hour
Design Peak Hourly Flow	Per the NPDES Permit, the WWTP facility has a peak design flow of 77 MGD

Metered CSOs

- CSOs 3, 6, 22, 37 and 45 are metered with flow meter equipment.
- Data is downloaded from these sites and entered into the report.
- Discharge begin time and duration is obtained from this data.
- Discharge volume is calculated using level data.

Other CSOs

For non-metered CSOs, matrix relating precipitation to CSO volume is used to calculate CSO volume and the same for duration. The matrix was created from the South Bend design storms SWMM model results. The discharge time is estimated from the precipitation start time

Rain Gauges

Used the following rain gauges data in the CSO MRO: Colfax, Ethanol, Vaness, Southfield, WWTP and Ironwood.

Overflows less than 10,000 gallons are reported as 0.00 MG on the CSO MRO and as <0.01 MG on the NetDMR.



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

Slate Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend										Page 1 of 11					Permit Number: IN0024520									
Facility: South Bend Municipal WWTP										Public Notification Requirements Met? Y														
Monitoring Period: September 2024										Check box if no CSO discharge occurred for the month: <input type="checkbox"/>														
Design Peak Hourly Flow (MGD): 77										Design Average Flow (MGD): 48										Measured/Metered (M) or Estimated (E) must be specified				
WWTP Influent Data			Precipitation Data					CSO Outfall No. 001					CSO Outfall No. 002											
Day of Month	Average Daily Flow (MGD)	Peak Hourly Flow (MGD)	Precip. Began (am/pm)	Precip. Duration (Hours)	Total Daily Precip. (Inches)	Peak Intensity (Inch/hr)	Measurement Interval (hr, 30 m, 15 m)	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E					
1	26.8	30.4			-																			
2	26.6	31.3			-																			
3	27.1	29.9			-																			
4	27.3	30.9			-																			
5	27.3	30.8			-																			
6	26.9	30.3			-																			
7	25.8	29.7			-																			
8	25.6	29.4			-																			
9	26.6	31.1			-																			
10	27.2	33.5			-																			
11	27.0	30.2			-																			
12	27.7	31.8			-																			
13	27.5	31.9			-																			
14	26.5	29.9			-																			
15	27.1	31.5			-																			
16	27.8	31.7			-																			
17	27.3	30.4			-																			
18	27.1	30.5			-																			
19	27.5	31.9			-																			
20	27.6	31.3	2:05 PM	1.25	0.26	0.18	1 hr	4:05 PM	E	0.04	E	0.00	E											
21	27.0	31.6	6:00 AM	0.17	0.01	0.01	1 hr																	
22	39.5	66.2	11:40 AM	7.42	1.15	0.42	1 hr	2:00 PM	E	2.43	E	0.36	E	2:00 PM	E	3.53	E	0.18	E					
23	27.2	41.7	1:10 AM	0.25	0.01	0.06	1 hr																	
24	41.4	83.5	12:00 AM	7.67	1.47	1.05	1 hr	2:05 AM	E	3.37	E	0.65	E	2:05 AM	E	5.18	E	0.47	E					
25	37.8	78.9	12:05 AM	6.17	0.75	0.28	1 hr																	
26	27.4	31.5	3:35 AM	0.08	-	0.01	1 hr																	
27	27.2	30.6			-																			
28	27.6	30.2	1:55 AM	3.50	0.20	0.16	1 hr																	
29	27.0	31.4	12:40 AM	0.17	0.01	0.01	1 hr																	
30	26.8	30.9			-																			
Totals:	849.0			26.67	3.86			3	Days	5.84		1.01		2	Days	8.71		0.64						
Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent															Telephone									
Kim Thompson, Director of Wastewater															574-235-5969									
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION; THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.																								
Signature of Principal Executive Officer or Authorized Agent															Date (mm/dd/yy)									
Kim Thompson															10-21-24									

**National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)**
State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend													Page 2 of 11			Permit Number: IN0024520								
Facility: South Bend Municipal WWTP													Public Notification Requirements Met? Y											
Monitoring Period: September 2024													Check box if no CSO discharge occurred for the month: <input type="checkbox"/>											
Design Peak Flow (Hourly) (MGD): 77							Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified											
		CSO Outfall No. 003					CSO Outfall No. 004					CSO Outfall No. 006					CSO Outfall No. 007							
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4																								
5																								
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10																								
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13																								
14																								
15																								
16																								
17																								
18																								
19																								
20																								
21																								
22	3:25 PM	M	0.75	M	0.43	E	1:45 PM	E	1.71	E	0.03	E	2:15 PM	M	1.50	M	0.47	E	1:45 PM	E	4.88	E	0.10	E
23																								
24	5:55 PM	M	1.92	M	1.26	E							2:00 AM	E	3.35	E	1.05	E	2:00 AM	E	0.90	E	0.01	E
25													10:55 AM	M	1.58	M	0.32	E	3:45 AM	E	2.94	E	0.02	E
26																								
27																								
28																								
29																								
30																								
Totals:	2	Da ys	2.67		1.69		1	Da ys	1.71		0.03		3	Da ys										



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 3 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: September 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77												Design Flow (MGD): 48				Measured/Metered (M) or Estimated (E) must be specified								
CSO Outfall No. 008						CSO Outfall No. 010						CSO Outfall No. 11A						CSO Outfall No. 11B						
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								
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16																								
17																								
18																								
19																								
20																								
21																								
22	1:45 PM	E	10.25	E	0.20	E	1:45 PM	E	9.70	E	0.34	E							1:45 PM	E	9.05	E	2.19	E
23	12:00 AM	E	4.50	E	0.09	E																		
24	2:00 AM	E	10.25	E	0.12	E	2:00 AM	E	5.31	E	0.14	E							2:00 AM	E	4.91	E	0.82	E
25	3:45 AM	E	11.55	E	0.18	E	3:45 AM	E	6.37	E	0.19	E							3:45 AM	E	5.83	E	1.23	E
26																								
27																								
28	4:50 AM	E	1.09	E	0.00	E																		
29																								
30																								
Totals:	5	Da ys	37.64		0.58		3	Da ys	21.38		0.67		0	Da ys			0.00		3	Da ys	19.79		4.24	

**National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)**
State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend													Page 4 of 11			Permit Number: IN0024520								
Facility: South Bend Municipal WWTP													Public Notification Requirements Met? Y											
Monitoring Period: September 2024													Check box if no CSO discharge occurred for the month: <input type="checkbox"/>											
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48							Measured/Metered (M) or Estimated (E) must be specified											
		CSO Outfall No. 014					CSO Outfall No. 018						CSO Outfall No. 019						CSO Outfall No. 021					
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
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22	1:45 PM	E	2.64	E	0.16	E	1:45 PM	E	8.55	E	1.05	E	1:40 PM	E	2.08	E	0.10	E	1:40 PM	E	0.96	E	0.01	E
23																								
24	2:00 AM	E	1.24	E	0.06	E	2:00 AM	E	6.73	E	0.33	E	2:00 AM	E	0.60	E	0.01	E						
25	3:45 AM	E	1.77	E	0.07	E	3:45 AM	E	7.07	E	0.56	E	2:05 AM	E	0.39	E	0.01	E						
26																								
27																								
28																								
29																								
30																								
Totals:	3	Days	5.65		0.29		3	Days	22.35		1.94		3	Days	3.07		0.12		1	Days	0.96		0.01	



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 55046 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend										Page 5 of 11					Permit Number: IN0024520									
Facility: South Bend Municipal WWTP										Public Notification Requirements Met? Y														
Monitoring Period: September 2024										Check box if no CSO discharge occurred for the month: <input type="checkbox"/>														
Design Peak Flow (Hourly) (MGD): 77										Design Flow (MGD): 48					Measured/Metered (M) or Estimated (E) must be specified									
CSO Outfall No. 022						CSO Outfall No. 025					CSO Outfall No. 026					CSO Outfall No. 027								
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
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21																								
22	12:20 PM	M	3.92	M	2.20	E									1:50 PM	E	1.80	E	0.14	E				
23																								
24	6:20 AM	M	0.58	M	0.11	E									2:05 AM	E	1.59	E	0.10	E				
25	8:40 AM	M	2.17	M	0.79	E																		
26																								
27																								
28																								
29																								
30																								
Totals:	3	Days	6.67		3.10		0	Days			0.00		0	Days			0.00		2	Days	3.39		0.24	



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 6 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: September 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 028						CSO Outfall No. 029						CSO Outfall No. 031						CSO Outfall No. 033						
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
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22	1:45 PM	E	2.14	E	0.05	E	1:45 PM	E	3.93	E	0.08	E	1:45 PM	E	10.25	E	1.69	E	1:45 PM	E	10.25	E	0.06	E
23													12:00 AM	E	2.40	E	0.40	E	12:00 AM	E	2.10	E	0.01	E
24	2:00 AM	E	0.28	E	0.00	E	2:00 AM	E	2.23	E	0.03	E	2:00 AM	E	6.53	E	0.83	E	2:00 AM	E	7.02	E	0.03	E
25	3:45 AM	E	0.91	E	0.00	E	3:45 AM	E	2.38	E	0.05	E	3:45 AM	E	9.05	E	1.23	E	3:45 AM	E	8.77	E	0.04	E
26																								
27																								
28																								
29																								
30																								
Totals:	3	Days	3.33		0.05		3	Days	8.54		0.15		4	Days	28.23		4.15		4	Days	28.14		0.13	



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)

State Form 55046 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 7 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: September 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77												Design Flow (MGD): 48				Measured/Metered (M) or Estimated (E) must be specified								
CSO Outfall No. 035												CSO Outfall No. 036				CSO Outfall No. 037				CSO Outfall No. 038				
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
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22	1:45 PM	E	10.25	E	0.21	E	1:45 PM	E	4.41	E	0.04	E	2:25 PM	M	1.25	M	0.30	E						
23	12:00 AM	E	5.46	E	0.11	E																		
24	2:00 AM	E	9.82	E	0.16	E	2:00 AM	E	2.80	E	0.01	E												
25	3:45 AM	E	11.85	E	0.21	E	3:45 AM	E	3.28	E	0.02	E												
26																								
27																								
28	4:50 AM	E	0.21	E	0.00	E																		
29																								
30																								
Totals:	5	Days	37.59		0.69		3	Days	10.49		0.07		1	Days	1.25		0.30		0	Days			0.00	



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 8 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: September 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77												Design Flow (MGD): 48				Measured/Metered (M) or Estimated (E) must be specified								
CSO Outfall No. 039												CSO Outfall No. 040				CSO Outfall No. 041				CSO Outfall No. 042				
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
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22	1:40 PM	E	4.58	E	0.23	E	1:50 PM	E	1.86	E	0.06	E	1:40 PM	E	2.31	E	0.02	E						
23																								
24	2:00 AM	E	1.93	E	0.05	E	2:05 AM	E	1.71	E	0.04	E												
25	2:05 AM	E	1.26	E	0.03	E																		
26																								
27																								
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29																								
30																								
Totals:	3	Days	7.77		0.31		2	Days	3.57		0.10		1	Days	2.31		0.02		0	Days			0.00	



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 9 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: September 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77												Design Flow (MGD): 48				Measured/Metered (M) or Estimated (E) must be specified								
CSO Outfall No. 044												CSO Outfall No. 045				CSO Outfall No. 048				CSO Outfall No. 049				
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
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22							3:05 PM	M	4.92	M	2.86	E	1:40 PM	E	10.33	E	0.65	IE						
23													12:00 AM	E	2.52	E	0.16	E						
24	2:05 AM	IE	0.02	E	0.00	E	6:35 PM	M	1.58	M	0.56	E	2:00 AM	E	5.18	E	0.25	IE						
25													2:05 AM	E	4.16	E	0.18	IE						
26																								
27																								
28																								
29																								
30																								
Totals:	1	Days	0.02		0.00		2	Days	6.50		3.41		4	Days	22.19		1.24		0	Days			0.00	



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend										Page 10 of 11					Permit Number: IN0024520									
Facility: South Bend Municipal WWTP										Public Notification Requirements Met? Y														
Monitoring Period: September 2024										Check box if no CSO discharge occurred for the month: <input type="checkbox"/>														
Design Peak Flow (Hourly) (MGD): 77										Design Flow (MGD): 48					Measured/Metered (M) or Estimated (E) must be specified									
CSO Outfall No. 060										CSO Outfall No.					CSO Outfall No. [#]					CSO Outfall No. [#]				
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
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22	1:45 PM	E	10.25	E	0.04	E																		
23	12:00 AM	E	2.02	E	0.01	E																		
24	2:00 AM	E	8.57	E	0.02	E																		
25	3:45 AM	E	9.30	E	0.03	E																		
26																								
27																								
28																								
29																								
30																								
Totals:	4	Da ys	30.14		0.09		0	Da ys			0.00		0	Da ys			0.00		0	Da ys			0.00	



**National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)**
State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend		Page: 11 of 11	Permit Number: IN0024520
Facility: South Bend Municipal WWTP		Public Notification Requirements Met? Y <input checked="" type="checkbox"/>	
Monitoring Period: September Year: 2024		Check box if no CSO discharge occurred for the month: <input type="checkbox"/>	
Design Peak Hourly Flow (MGD): 77		Design Average Flow (MGD): 48	
Day of Month	Comments (further explanation as to why each CSO event occurred)		
1			
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11			
12			
13			
14			
15			
16			
17			
18			
19			
20	Precipitation Event Observed		
21			
22	Precipitation Event Observed		
23	Precipitation Event Observed		
24	Precipitation Event Observed		
25	Precipitation Event Observed		
26			
27			
28	Precipitation Event Observed		
29			
30			
Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent		Telephone	
Kim Thompson, Director of Wastewater		574-235-5969	
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION; THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.			
Signature of Principal Executive Officer or Authorized Agent		Date (mm/dd/yy)	
		10-21-24	

CSO Public Notification - September

Day of Month	Day of Week	Total Daily Precip. (inches)	Total Daily CSO Discharge Volume (MG)	Notification Sent	Notes
1	Sun	-	-		
2	Mon	-	-		
3	Tue	-	-		
4	Wed	-	-		
5	Thu	-	-		
6	Fri	-	-		
7	Sat	-	-		
8	Sun	-	-		
9	Mon	-	-		
10	Tue	-	-		
11	Wed	-	-		
12	Thu	-	-		
13	Fri	-	-		
14	Sat	-	-		
15	Sun	-	-		
16	Mon	-	-		
17	Tue	-	-		
18	Wed	-	-		
19	Thu	-	-		
20	Fri	0.26	0.00	YES	<10,000 Gallons
21	Sat	0.01	0.00		
22	Sun	1.15	14.27	YES	Overflow continued past midnight
23	Mon	0.01	0.77	YES	
24	Tue	1.47	7.08	YES	
25	Wed	0.75	5.14	YES	
26	Thu	-	-		
27	Fri	-	-		
28	Sat	0.20	0.00	YES	<10,000 Gallons
29	Sun	0.01	0.00		
30	Mon	-	-		

Notes

Average Daily Flow	Average value of 5-min WWTP flow data
Peak Hourly Flow	Maximum value of the rolling hourly average flow rate
Time Precipitation Began	First precipitation recorded between the six rain gauges
Precipitation Duration	Cumulative duration of all precipitation for the day
Total Daily Precipitation	Maximum value of precipitation for all the six rain gauges
Peak Intensity	Maximum precipitation depth in an hour
Design Peak Hourly Flow	Per the NPDES Permit, the WWTP facility has a peak design flow of 77 MGD

Metered CSOs

- CSOs 3, 6, 22, 37 and 45 are metered with flow meter equipment.
- Data is downloaded from these sites and entered into the report.
- Discharge begin time and duration is obtained from this data.
- Discharge volume is calculated using level data.

The meter at CSO 003 failed for portions of the 15th & 16th. The Matrix of storms was used to calculate overflows during this period. The meter at CSO 006 failed from the 22nd to the 25th. The Matrix of storms was used to calculate overflows during this period.

Other CSOs

For non-metered CSOs, matrix relating precipitation to CSO volume is used to calculate CSO volume and the same for duration. The matrix was created from the South Bend design storms SWMM model results. The discharge time is estimated from the precipitation start time

Rain Gauges

Used the following rain gauges data in the CSO MRO: Colfax, Ethanol, Vaness, Southfield, WWTP and Ironwood.

Overflows less than 10,000 gallons are reported as 0.00 MG on the CSO MRO and as <0.01 MG on the NetDMR.



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend		Page 1 of 11		Permit Number: IN0024520															
Facility: South Bend Municipal WWTP		Public Notification Requirements Met? <input checked="" type="checkbox"/> Y																	
Monitoring Period: October 2024		Check box if no CSO discharge occurred for the month: <input type="checkbox"/>																	
Design Peak Hourly Flow (MGD): 77		Design Average Flow (MGD): 48		Measured/Metered (M) or Estimated (E) must be specified															
WWTP Influent Data		Precipitation Data			CSO Outfall No. 001			CSO Outfall No. 002											
Day of Month	Average Daily Flow (MGD)	Peak Hourly Flow (MGD)	Time Precip. Began (am/pm)	Precip. Duration (Hours)	Total Daily Precip. (Inches)	Peak Intensity (Inch/hr)	Measurement Interval (hr, 30 m, 15 m)	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1	26.2	28.8																	
2	26.3	30.3																	
3	26.7	31.1																	
4	26.0	29.6																	
5	26.2	29.3																	
6	26.5	30.5																	
7	26.5	30.2																	
8	26.5	29.9																	
9	26.2	30.2																	
10	25.8	29.4																	
11	26.4	30.6																	
12	25.8	29.5	6:40 PM	0.75	0.08	0.06	1 hr												
13	26.3	33.0	5:10 PM	2.00	0.20	0.12	1 hr												
14	36.7	59.2	12:25 AM	6.75	0.53	0.16	1 hr	2:35 AM	E	0.59	E	0.03	E						
15	28.3	45.8	12:00 AM	0.25	0.01	0.01	1 hr												
16	25.9	29.8																	
17	25.7	30.1																	
18	25.4	30.6																	
19	24.8	29.1																	
20	24.4	28.9																	
21	24.9	29.0																	
22	24.8	31.8																	
23	24.0	26.2																	
24	23.7	26.8																	
25	26.5	35.0	3:30 AM	3.50	0.32	0.20	1 hr												
26	23.3	26.5																	
27	23.3	27.2																	
28	24.4	28.3																	
29	25.1	29.0																	
30	25.6	30.0																	
31	26.4	39.9	6:30 AM	2.83	0.22	0.14	1 hr												
Totals:	804.8			16.08	1.36			1	Days	0.59		0.03		0	Days		0.00		
Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent														Telephone					
Kim Thompson, Director of Wastewater														574-235-5969					
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION; THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.																			
Signature of Principal Executive Officer or Authorized Agent														Date (mm/dd/yy)					
K. Thompson														11-22-2024					



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 2 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: October 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77												Design Flow (MGD): 48				Measured/Metered (M) or Estimated (E) must be specified								
CSO Outfall No. 003												CSO Outfall No. 004				CSO Outfall No. 006				CSO Outfall No. 007				
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
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Totals:	0	Days			0.00		0	Days			0.00		0	Days			0.00		0	Days			0.00	



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 3 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: October 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77												Design Flow (MGD): 48				Measured/Metered (M) or Estimated (E) must be specified								
CSO Outfall No. 008												CSO Outfall No. 010				CSO Outfall No. 11A				CSO Outfall No. 11B				
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
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13	7:15 PM	E	3.44	E	0.02	E	7:15 PM	E	1.69	E	0.02	E							7:15 PM	E	1.44	E	0.07	E
14	2:45 AM	E	8.43	E	0.09	E	2:45 AM	E	4.33	E	0.09	E							2:45 AM	E	3.98	E	0.51	E
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25	5:35 AM	E	3.65	E	0.03	E	5:35 AM	E	1.90	E	0.02	E							5:35 AM	E	1.62	E	0.08	E
26																								
27																								
28																								
29																								
30																								
31	9:25 AM	E	2.38	E	0.01	E	9:25 AM	E	0.63	E	0.01	E							9:25 AM	E	0.54	E	0.03	E
Totals:	4	Days	17.90		0.15		4	Days	8.55		0.14		0	Days			0.00		4	Days	7.58		0.68	



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 4 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: October 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77												Design Flow (MGD): 48				Measured/Metered (M) or Estimated (E) must be specified								
CSO Outfall No. 014												CSO Outfall No. 018				CSO Outfall No. 019				CSO Outfall No. 021				
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
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14	2:45 AM	E	0.76	E	0.04	E	2:45 AM	E	5.00	E	0.17	E	2:50 AM	E	0.85	E	0.01	E	2:50 AM	E	0.06	E	0.00	E
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25													5:35 AM	E	0.21	E	0.00	E						
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Totals:	1	Days	0.76		0.04		1	Days	5.00		0.17		2	Days	1.06		0.02		1	Days	0.06		0.00	



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)

State Form 55046 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 5 of 11		Permit Number: IN0024520																																	
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y																																			
Monitoring Period: October 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>																																			
Design Peak Flow (Hourly) (MGD): 77												Design Flow (MGD): 48												Measured/Metered (M) or Estimated (E) must be specified																							
CSO Outfall No. 022												CSO Outfall No. 025												CSO Outfall No. 026												CSO Outfall No. 027											
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E																							
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14	4:10 AM	M	1.00	M	0.17	E													12:15 PM	E	11.75	E	0.02	E																							
15																			12:00 AM	E	24.00	E	0.03	E																							
16																			12:00 AM	E	24.00	E	0.03	E																							
17																			12:00 AM	E	11.75	E	0.02	E																							
18																																															
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31																																															
Totals:	1	Da ys	1.00		0.17		0	Da ys			0.00		0	Da ys			0.00		4	Da ys	71.50		0.10																								

*Dry weather overflow happened from
10/14 to 10/17.



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 6 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: October 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77												Design Flow (MGD): 48				Measured/Metered (M) or Estimated (E) must be specified								
CSO Outfall No. 028												CSO Outfall No. 029				CSO Outfall No. 031				CSO Outfall No. 033				
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
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13							7:15 PM	E	0.41	E	0.00	E	7:15 PM	E	2.10	E	0.09	E	7:15 PM	E	0.97	E	0.00	E
14							2:45 AM	E	1.81	E	0.02	E	2:45 AM	E	4.94	E	0.53	E	2:45 AM	E	5.13	E	0.02	E
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25							5:35 AM	E	0.46	E	0.00	E	5:35 AM	E	2.37	E	0.10	E	5:35 AM	E	1.10	E	0.00	E
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31							9:25 AM	E	0.15	E	0.00	E	9:25 AM	E	0.79	E	0.03	E	9:25 AM	E	0.37	E	0.00	E
Totals:	0	Da ys			0.00		4	Da ys	2.83		0.02		4	Da ys	10.20		0.76		4	Da ys	7.57		0.02	



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)

State Form 55046 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend										Page 7 of 11					Permit Number: IN0024520																								
Facility: South Bend Municipal WWTP										Public Notification Requirements Met? Y																													
Monitoring Period: October 2024										Check box if no CSO discharge occurred for the month: <input type="checkbox"/>																													
Design Peak Flow (Hourly) (MGD): 77										Design Flow (MGD): 48										Measured/Metered (M) or Estimated (E) must be specified																			
CSO Outfall No. 035										CSO Outfall No. 036										CSO Outfall No. 037										CSO Outfall No. 038									
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E															
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13	7:15 PM	E	3.41	E	0.02	E																																	
14	2:45 AM	E	8.06	E	0.11	E	2:45 AM	E	1.96	E	0.01	E																											
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31	9:25 AM	E	1.49	E	0.01	E																																	
Totals:	4	Days	16.75		0.17		1	Days	1.96		0.01		0	Days			0.00		0	Days			0.00																



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 8 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: October 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77												Design Flow (MGD): 48				Measured/Metered (M) or Estimated (E) must be specified								
CSO Outfall No. 039												CSO Outfall No. 040				CSO Outfall No. 041				CSO Outfall No. 042				
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
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14	2:50 AM	E	2.53	E	0.07	E							2:50 AM	E	0.70	E	0.00	E						
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25	5:35 AM	E	0.68	E	0.02	E																		
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Totals:	2	Days	3.21		0.09		0	Days			0.00		1	Days	0.70		0.00		0	Days			0.00	



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 9 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: October 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77												Design Flow (MGD): 48				Measured/Metered (M) or Estimated (E) must be specified								
CSO Outfall No. 044						CSO Outfall No. 045						CSO Outfall No. 048						CSO Outfall No. 049						
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
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26																								
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28																								
29																								
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31													9:15 AM	E	1.04	E	0.03	E						
Totals:	0	Da ys			0.00		0	Da ys			0.00		3	Da ys	10.61		0.48		0	Da ys			0.00	



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend										Page 10 of 11					Permit Number: IN0024520									
Facility: South Bend Municipal WWTP										Public Notification Requirements Met? Y														
Monitoring Period: October 2024										Check box if no CSO discharge occurred for the month: <input type="checkbox"/>														
Design Peak Flow (Hourly) (MGD): 77										Design Flow (MGD): 48					Measured/Metered (M) or Estimated (E) must be specified									
CSO Outfall No. 060										CSO Outfall No.					CSO Outfall No. [#]					CSO Outfall No. [#]				
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
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12																								
13	7:15 PM	E	3.59	E	0.00	E																		
14	2:45 AM	E	7.67	E	0.01	E																		
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24																								
25	5:35 AM	E	4.04	E	0.00	E																		
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27																								
28																								
29																								
30																								
31	9:25 AM	E	1.35	E	0.00	E																		
Totals:	4	Days	16.65		0.01		0	Days			0.00		0	Days			0.00		0	Days			0.00	



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend		Page: 11 of 11	Permit Number: IN0024520
Facility: South Bend Municipal WWTP		Public Notification Requirements Met? Y <input checked="" type="checkbox"/>	
Monitoring Period: October Year: 2024		Check box if no CSO discharge occurred for the month: <input type="checkbox"/>	
Design Peak Hourly Flow (MGD): 77		Design Average Flow (MGD): 48	
Day of Month	Comments (further explanation as to why each CSO event occurred)		
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13	Precipitation Event Observed		
14	Precipitation Event Observed		
15	Dry Weather Overflow At CSO 027		
16	Dry Weather Overflow At CSO 027		
17	Dry Weather Overflow At CSO 027		
18			
19			
20			
21			
22			
23			
24			
25	Precipitation Event Observed		
26			
27			
28			
29			
30			
31	Precipitation Event Observed		
Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent		Telephone	
Kim Thompson, Director of Wastewater		574-235-5969	
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION; THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.			
Signature of Principal Executive Officer or Authorized Agent		Date (mm/dd/yy)	
		11-22-24	

Automated valve failure @ CSO 027 caused it to remain closed & restrict flow in throttle pipe. Alternate pipe was blocked resulting in diversion at CSO027.

CSO Public Notification - October

Day of Month	Day of Week	Total Daily Precip. (inches)	CSO Discharge Volume (MG)	Notification Sent	Notes
1	Tue	-	-		
2	Wed	-	-		
3	Thu	-	-		
4	Fri	-	-		
5	Sat	-	-		
6	Sun	-	-		
7	Mon	-	-		
8	Tue	-	-		
9	Wed	-	-		
10	Thu	-	-		
11	Fri	-	-		
12	Sat	0.08	0.00	YES	Initial Notification Sent Due To Precipitation, But No Overflow
13	Sun	0.20	0.23	YES	
14	Mon	0.53	2.21	YES	SEE SPECIAL NOTE FOR CSO 027 UNDER "OTHER CSOs" BELOW. There was a dry weather overflow at CSO 027 from the 14th to 11:45 am on the 17th.
15	Tue	0.01	0.03	YES	
16	Wed	-	0.03	YES	
17	Thu	-	0.02	YES	
18	Fri	-	-		
19	Sat	-	-		
20	Sun	-	-		
21	Mon	-	-		
22	Tue	-	-		
23	Wed	-	-		
24	Thu	-	-		
25	Fri	0.32	0.40	YES	
26	Sat	-	-		
27	Sun	-	-		
28	Mon	-	-		
29	Tue	-	-		
30	Wed	-	-		
31	Thu	0.22	0.11	YES	

Notes

Average Daily Flow	Average value of 5-min WWTP flow data
Peak Hourly Flow	Maximum value of the rolling hourly average flow rate
Time Precipitation Began	First precipitation recorded between the six rain gauges
Precipitation Duration	Cumulative duration of all precipitation for the day
Total Daily Precipitation	Maximum value of precipitation for all the six rain gauges
Peak Intensity	Maximum precipitation depth in an hour
Design Peak Hourly Flow	Per the NPDES Permit, the WWTP facility has a peak design flow of 77 MGD

Metered CSOs

- CSOs 3, 6, 22, 37 and 45 are metered with flow meter equipment.
- Data is downloaded from these sites and entered into the report.
- Discharge begin time and duration is obtained from this data.
- Discharge volume is calculated using level data.

CSO 037 had periods where it wasn't working. The Matrix of Storms was used to calculate overflows during these periods.

Other CSOs

For non-metered CSOs, matrix relating precipitation to CSO volume is used to calculate CSO volume and the same for duration. The matrix was created from the South Bend design storms SWMM model results. The discharge time is estimated from the precipitation start time

SPECIAL NOTE FOR CSO 027

Wet weather occurred the morning of 10/14, but did not result in an overflow at CSO 027. A CCTV inspection conducted on 10/17 showed that a Dry Weather Overflow was occurring at CSO 027. It is not known exactly when the overflow started, but it is assumed that the overflow began on the 14th unrelated to wet weather. Maintenance was done to end the DWO the 17th as soon as it was found.

Rain Gauges

Used the following rain gauges data in the CSO MRO: Colfax, Ethanol, Vaness, Southfield, WWTP and Ironwood.

Overflows less than 10,000 gallons are reported as 0.00 MG on the CSO MRO and as <0.01 MG on the NetDMR.



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend		Page 1 of 11		Permit Number: IN0024520															
Facility: South Bend Municipal WWTP		Public Notification Requirements Met? Y																	
Monitoring Period: November 2024		Check box if no CSO discharge occurred for the month: <input type="checkbox"/>																	
Design Peak Hourly Flow (MGD): 77		Design Average Flow (MGD): 48		Measured/Metered (M) or Estimated (E) must be specified															
WWTP Influent Data			Precipitation Data			CSO Outfall No. 001			CSO Outfall No. 002										
Day of Month	Average Daily Flow (MGD)	Peak Hourly Flow (MGD)	Time Precip. Began (am/pm)	Precip. Duration (Hours)	Total Daily Precip. (Inches)	Peak Intensity (Inch/hr)	Measurement Interval (hr, 30 m, 15 m)	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1	23.9	26.9			-														
2	23.6	27.6			-														
3	23.6	27.8			-														
4	34.9	73.2	1:25 AM	6.50	0.71	0.18	1 hr	3:25 AM	E	1.17	E	0.08	E	3:25 AM	E	0.52	E	0.00	E
5	35.0	71.3	12:00 AM	4.50	0.64	0.30	1 hr	2:15 AM	E	1.01	E	0.06	E	2:15 AM	E	0.19	E	0.00	E
6	25.5	42.4			-														
7	24.9	29.0			-														
8	24.4	27.7			-														
9	23.9	28.9			-														
10	30.2	59.3	1:20 AM	3.75	0.41	0.24	1 hr	3:30 AM	E	0.07	E	0.00	E						
11	23.8	26.1			-														
12	23.7	37.6			-														
13	26.3	53.0	7:35 PM	3.25	0.28	0.15	1 hr	9:35 PM	E	0.04	E	0.00	E						
14	27.3	52.5	12:10 AM	4.33	0.16	0.04	1 hr												
15	25.0	27.8	4:20 AM	0.17	0.02	0.01	1 hr												
16	24.2	28.4			-														
17	24.1	28.1			-														
18	29.5	47.2	12:50 PM	5.25	0.29	0.09	1 hr	3:50 PM	E	0.04	E	0.00	E						
19	30.2	48.4	2:20 AM	3.08	0.25	0.18	1 hr												
20	27.3	48.3	9:25 AM	1.42	0.16	0.14	1 hr												
21	25.5	31.8	3:00 AM	2.42	0.09	0.04	1 hr												
22	27.9	43.5	6:25 AM	3.83	0.16	0.06	1 hr												
23	24.1	27.6	5:05 AM	0.17	0.01	0.01	1 hr												
24	24.3	28.9			-														
25	25.0	27.7	7:05 PM	0.17	0.01	0.01	1 hr												
26	25.0	28.9			-														
27	24.7	29.1			-														
28	23.0	26.9			-														
29	22.3	26.1			-														
30	22.8	28.0			-														
Totals:	775.5			38.83	3.19			5	Days	2.33		0.15		2	Days	0.71		0.00	
Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent														Telephone					
Kim Thompson, Director of Wastewater														574-235-5969					
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION; THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.																			
Signature of Principal Executive Officer or Authorized Agent														Date (mm/dd/yy)					
K. Thompson														12-19-24					



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 2 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: November 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 003						CSO Outfall No. 004						CSO Outfall No. 006				CSO Outfall No. 007								
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E						
1																								
2																								
3																								
4													7:40 AM	M	1.67	M	0.08	E						
5													1:35 AM	M	1.17	M	0.16	E						
6																								
7																								
8																								
9																								
10													4:05 AM	M	0.58	M	0.04	E						
11																								
12																								
13																								
14																								
15																								
16																								
17																								
18																								
19																								
20																								
21																								
22																								
23																								
24																								
25																								
26																								
27																								
28																								
29																								
30																								
Totals:	0	Days			0.00		0	Days			0.00		3	Days	3.42		0.28							
																2				Days	0.61		0.06	

*Dry Weather Overflow on 27th



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 3 of 11				Permit Number: IN0024520					
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y									
Monitoring Period: November 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>									
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified									
CSO Outfall No. 008						CSO Outfall No. 010						CSO Outfall No. 11A				CSO Outfall No. 11B					
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E			
1																					
2																					
3																					
4	6:10 AM	E	9.74	E	0.10	E	6:10 AM	E	4.89	E	0.11	E			6:10 AM	E	4.55	E	0.66	E	
5	2:00 AM	E	8.63	E	0.09	E	2:00 AM	E	4.42	E	0.09	E			2:00 AM	E	4.07	E	0.53	E	
6																					
7																					
8																					
9																					
10	3:25 AM	E	6.77	E	0.07	E	3:25 AM	E	3.67	E	0.07	E			3:25 AM	E	3.29	E	0.34	E	
11																					
12																					
13	9:40 PM	E	2.33	E	0.02	E	9:40 PM	E	2.33	E	0.03	E			9:40 PM	E	2.33	E	0.14	E	
14	12:00 AM	E	4.00	E	0.02	E	12:00 AM	E	0.59	E	0.01	E			12:00 AM	E	0.18	E	0.01	E	
15																					
16																					
17																					
18	2:50 PM	E	4.71	E	0.04	E	2:50 PM	E	2.83	E	0.03	E			2:50 PM	E	2.42	E	0.13	E	
19	4:30 AM	E	3.02	E	0.02	E	4:30 AM	E	1.27	E	0.01	E			4:30 AM	E	1.08	E	0.05	E	
20	11:40 AM	E	1.53	E	0.00	E															
21	2:25 PM	E	0.22	E	0.00	E															
22	8:25 AM	E	1.75	E	0.00	E	8:25 AM	E	0.00	E	0.00	E			8:25 AM	E	0.00	E	0.00	E	
23																					
24																					
25																					
26																					
27																					
28																					
29																					
30																					
Totals:	10	Da ys	42.70		0.36		8	Da ys	20.00		0.36		0	Da ys		0.00		8	Da ys	17.92	1.87



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 4 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: November 2024												Check box If no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 014						CSO Outfall No. 018						CSO Outfall No. 019				CSO Outfall No. 021								
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4	6:10 AM	E	1.03	E	0.05	E	6:10 AM	E	6.60	E	0.24	E	3:40 AM	E	1.34	E	0.03	E	3:40 AM	E	0.32	E	0.00	E
5	2:00 AM	E	0.80	E	0.04	E	2:00 AM	E	5.27	E	0.18	E	2:00 AM	E	0.42	E	0.01	E						
6																								
7																								
8																								
9																								
10	3:25 AM	E	0.44	E	0.02	E	3:25 AM	E	2.90	E	0.10	E	3:20 AM	E	0.30	E	0.00	E						
11																								
12																								
13	9:40 PM	E	0.08	E	0.00	E	9:40 PM	E	0.53	E	0.02	E	9:40 PM	E	0.03	E	0.00	E						
14																								
15																								
16																								
17																								
18	2:50 PM	E	0.04	E	0.00	E	2:50 PM	E	0.26	E	0.01	E	3:05 PM	E	0.12	E	0.00	E						
19																								
20																								
21																								
22																								
23																								
24																								
25																								
26																								
27																								
28																								
29																								
30																								
Totals:	5	Days	2.39		0.12		5	Days	15.56		0.56		5	Days	2.21		0.04		1	Days	0.32		0.00	



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 55046 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 5 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: November 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 022						CSO Outfall No. 025						CSO Outfall No. 026						CSO Outfall No. 027						
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4	6:55 AM	M	3.75	M	0.78	E													3:35 AM	E	0.59	E	0.03	E
5	2:20 AM	M	1.42	M	0.60	E													2:00 AM	E	0.27	E	0.01	E
6																								
7																								
8																								
9																								
10	5:00 AM	M	0.92	M	0.33	E																		
11																								
12																								
13	10:25 PM	M	0.50	M	0.05	E																		
14																								
15																								
16																								
17																								
18																								
19	4:15 AM	M	0.75	M	0.22	E																		
20	11:55 AM	M	0.42	M	0.03	E																		
21																								
22																								
23																								
24																								
25																								
26																								
27																								
28																								
29																								
30																								
Totals:	6	Da ys	7.75		2.01		0	Da ys			0.00		0	Da ys			0.00		2	Da ys		0.86		0.04



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
State Form 50546 (R3 / 7-13)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 6 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: November 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 028						CSO Outfall No. 029						CSO Outfall No. 031				CSO Outfall No. 033								
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4	6:10 AM	E	0.03	E	0.00	E	6:10 AM	E	2.17	E	0.02	E	6:10 AM	E	5.56	E	0.67	E	6:10 AM	E	6.35	E	0.02	E
5							2:00 AM	E	1.87	E	0.02	E	2:00 AM	E	5.02	E	0.55	E	2:00 AM	E	5.32	E	0.02	E
6																								
7																								
8																								
9																								
10							3:25 AM	E	1.33	E	0.01	E	3:25 AM	E	4.30	E	0.37	E	3:25 AM	E	3.64	E	0.01	E
11																								
12																								
13							9:40 PM	E	0.79	E	0.00	E	9:40 PM	E	2.33	E	0.12	E	9:40 PM	E	1.96	E	0.00	E
14							2:15 AM	E	0.00	E	0.00	E	12:00 AM	E	1.25	E	0.07	E	2:15 AM	E	0.00	E	0.00	E
15																								
16																								
17																								
18							2:50 PM	E	0.73	E	0.00	E	2:50 PM	E	3.50	E	0.17	E	2:50 PM	E	1.77	E	0.00	E
19							4:30 AM	E	0.31	E	0.00	E	4:30 AM	E	1.58	E	0.07	E	4:30 AM	E	0.73	E	0.00	E
20																								
21																								
22							8:25 AM	E	0.00	E	0.00	E	8:25 AM	E	0.00	E	0.00	E	8:25 AM	E	0.00	E	0.00	E
23																								
24																								
25																								
26																								
27																								
28																								
29																								
30																								
Totals:	1	Da ys	0.03		0.00		8	Da ys	7.20		0.05		8	Da ys	23.54		2.02		8	Da ys	19.77		0.05	



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 55046 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 7 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: November 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 035						CSO Outfall No. 036						CSO Outfall No. 037				CSO Outfall No. 038								
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4	6:10 AM	E	9.03	E	0.13	E	6:10 AM	E	2.61	E	0.01	E												
5	2:00 AM	E	8.20	E	0.11	E	2:00 AM	E	2.07	E	0.01	E												
6																								
7																								
8																								
9																								
10	3:25 AM	E	6.91	E	0.08	E	3:25 AM	E	1.14	E	0.00	E	3:25 AM	E	2.45	E	0.33	E						
11																								
12																								
13	9:40 PM	E	2.33	E	0.02	E	9:40 PM	E	0.21	E	0.00	E	9:40 PM	E	0.61	E	0.08	E						
14	12:00 AM	E	2.58	E	0.03	E																		
15																								
16																								
17																								
18	2:50 PM	E	5.48	E	0.04	E	2:50 PM	E	0.10	E	0.00	E	2:55 PM	E	0.61	E	0.08	E						
19	4:30 AM	E	2.64	E	0.02	E																		
20	11:40 AM	E	0.29	E	0.00	E																		
21	2:25 PM	E	0.04	E	0.00	E																		
22	8:25 AM	E	0.33	E	0.00	E																		
23																								
24																								
25																								
26																								
27																								
28																								
29																								
30																								
Totals:	10	Days	37.83		0.43		5	Days	6.13		0.02		3	Days	3.67		0.49		0	Days			0.00	



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 8 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: November 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 039						CSO Outfall No. 040						CSO Outfall No. 041				CSO Outfall No. 042								
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4	3:40 AM	E	3.06	E	0.11	E	3:35 AM	E	0.66	E	0.01	E	3:40 AM	E	1.22	E	0.01	E						
5	2:00 AM	E	1.35	E	0.03	E	2:00 AM	E	0.31	E	0.01	E												
6																								
7																								
8																								
9																								
10	3:20 AM	E	0.97	E	0.02	E																		
11																								
12																								
13	9:40 PM	E	0.10	E	0.00	E																		
14																								
15																								
16																								
17																								
18	3:05 PM	E	0.39	E	0.01	E																		
19																								
20																								
21																								
22																								
23																								
24																								
25																								
26																								
27																								
28																								
29																								
30																								
Totals:	5	Days	5.87		0.18		2	Days	0.97		0.02		1	Days	1.22		0.01		0	Days		0.00		



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 9 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: November 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 044						CSO Outfall No. 045						CSO Outfall No. 048				CSO Outfall No. 049								
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4													3:40 AM	E	8.02	E	0.45	E						
5													2:00 AM	E	4.30	E	0.19	E						
6																								
7																								
8																								
9																								
10													3:20 AM	E	3.72	E	0.16	E						
11																								
12																								
13													9:40 PM	E	2.33	E	0.07	E						
14													12:00 AM	E	0.59	E	0.02	E						
15																								
16																								
17																								
18													3:05 PM	E	2.84	E	0.10	E						
19													4:25 AM	E	2.08	E	0.06	E						
20													11:45 AM	E	0.52	E	0.01	E						
21																								
22													8:35 AM	E	0.52	E	0.01	E						
23																								
24																								
25																								
26																								
27																								
28																								
29																								
30																								
Totals:	0	Days			0.00		0	Days			0.00		9	Days	24.92		1.06		0	Days			0.00	



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 10 of 11		Permit Number: IN0024520				
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y						
Monitoring Period: November 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>						
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified						
CSO Outfall No. 060						CSO Outfall No.						CSO Outfall No. [#]		CSO Outfall No. [#]				
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																		
2																		
3																		
4	6:10 AM	E	8.29	E	0.01	E												
5	2:00 AM	E	7.77	E	0.01	E												
6																		
7																		
8																		
9																		
10	3:25 AM	E	6.90	E	0.00	E												
11																		
12																		
13	9:40 PM	E	2.33	E	0.00	E												
14	12:00 AM	E	2.25	E	0.00	E												
15																		
16																		
17																		
18	2:50 PM	E	5.93	E	0.00	E												
19	4:30 AM	E	2.69	E	0.00	E												
20																		
21																		
22	8:25 AM	E	0.00	E	0.00	E												
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		
Totals:	8	Day s	36.16		0.02		0	Da ys			0.00		0	Da ys			0.00	



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend		Page: 11 of 11	Permit Number: IN0024520
Facility: South Bend Municipal WWTP		Public Notification Requirements Met? <input checked="" type="checkbox"/> Y	
Monitoring Period: November Year: 2024		Check box if no CSO discharge occurred for the month: <input type="checkbox"/>	
Design Peak Hourly Flow (MGD): 77		Design Average Flow (MGD): 48	
Day of Month	Comments (further explanation as to why each CSO event occurred)		
1			
2			
3			
4	Precipitation Event Observed		
5	Precipitation Event Observed		
6			
7			
8			
9			
10	Precipitation Event Observed		
11			
12			
13	Precipitation Event Observed		
14	Precipitation Event Observed		
15			
16			
17			
18	Precipitation Event Observed		
19	Precipitation Event Observed		
20	Precipitation Event Observed		
21	Precipitation Event Observed		
22	Precipitation Event Observed		
23			
24			
25			
26			
27	Dry Weather Overflow at CSO 007		
28			
29			
30			
Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent		Telephone	
Kim Thompson, Director of Wastewater		574-235-5969	
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION; THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.			
Signature of Principal Executive Officer or Authorized Agent		Date (mm/dd/yy)	
		12-19-24	

Bypass pumps used by contractor during River Crossing 4 repair ceased during refueling and caused DWO @ CSO 007.

CSO Public Notification - November

Day of Month	Day of Week	Total Daily Precip. (inches)	Total Daily CSO Discharge Volume (MG)	Notification Sent	Notes
1	Fri	-	-		
2	Sat	-	-		
3	Sun	-	-		
4	Mon	0.71	3.63	YES	
5	Tue	0.64	2.72	YES	
6	Wed	-	-		
7	Thu	-	-		
8	Fri	-	-		
9	Sat	-	-		
10	Sun	0.41	1.96	YES	
11	Mon	-	-		
12	Tue	-	-		
13	Wed	0.28	0.56	YES	Overflow on the 13th continued past midnight into the 14th
14	Thu	0.16	0.15	YES	
15	Fri	0.02	0.00		
16	Sat	-	-		
17	Sun	-	-		
18	Mon	0.29	0.63	YES	
19	Tue	0.25	0.45	YES	
20	Wed	0.16	0.04	YES	
21	Thu	0.09	0.00	YES	<10,000 Gallons
22	Fri	0.16	0.01	YES	
23	Sat	0.01	0.00		
24	Sun	-	-		
25	Mon	0.01	0.00		
26	Tue	-	-		
27	Wed	-	0.06	YES	Dry Weather Overflow at CSO 007
28	Thu	-	-		
29	Fri	-	-		
30	Sat	-	-		

Notes

Average Daily Flow	Average value of 5-min WWTP flow data
Peak Hourly Flow	Maximum value of the rolling hourly average flow rate
Time Precipitation Began	First precipitation recorded between the six rain gauges
Precipitation Duration	Cumulative duration of all precipitation for the day
Total Daily Precipitation	Maximum value of precipitation for all the six rain gauges
Peak Intensity	Maximum precipitation depth in an hour
Design Peak Hourly Flow	Per the NPDES Permit, the WWTP facility has a peak design flow of 77 MGD

Metered CSOs

- CSOs 3, 6, 22, 37 and 45 are metered with flow meter equipment.
- Data is downloaded from these sites and entered into the report.
- Discharge begin time and duration is obtained from this data.
- Discharge volume is calculated using level data.

The sensors at CSO 006 and 037 failed during various periods of this month.
The Matrix of Storms was used to calculate overflows during these periods.

Other CSOs

For non-metered CSOs, matrix relating precipitation to CSO volume is used to calculate CSO volume and the same for duration. The matrix was created from the South Bend design storms SWMM model results. The discharge time is estimated from the precipitation start time

Rain Gauges

Used the following rain gauges data in the CSO MRO: Colfax, Ethanol, Vaness, Southfield, WWTP and Ironwood.

Overflows less than 10,000 gallons are reported as 0.00 MG on the CSO MRO and as <0.01 MG on the NetDMR.



National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend		Page 1 of 11		Permit Number: IN0024520															
Facility: South Bend Municipal WWTP		Public Notification Requirements Met? Y																	
Monitoring Period: December 2024		Check box if no CSO discharge occurred for the month: <input type="checkbox"/>																	
Design Peak Hourly Flow (MGD): 77		Design Average Flow (MGD): 48		Measured/Metered (M) or Estimated (E) must be specified															
WWTP Influent Data			Precipitation Data					CSO Outfall No. 001					CSO Outfall No. 002						
Day of Month	Average Daily Flow (MGD)	Peak Hourly Flow (MGD)	Time Precip. Began (am/pm)	Precip. Duration (Hours)	Total Daily Precip. (Inches)	Peak Intensity (Inch/hr)	Measurement Interval (hr, 30 m, 15 m)	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1	22.8	26.4			-														
2	24.3	27.3			-														
3	24.3	26.9			-														
4	24.1	27.8			-														
5	24.0	27.0	6:50 AM	2.33	0.11	0.03	1 hr												
6	24.2	28.1			-														
7	24.4	29.5			-														
8	25.0	29.0			-														
9	24.7	28.0	1:55 AM	0.83	0.03	0.02	1 hr												
10	24.3	27.9			-														
11	24.0	27.1			-														
12	23.7	29.4			-														
13	23.4	27.9			-														
14	24.4	38.8	7:55 PM	3.50	0.18	0.08	1 hr												
15	32.8	69.3	12:00 AM	3.92	0.34	0.14	1 hr												
16	26.0	36.0	6:00 AM	2.25	0.13	0.10	1 hr												
17	24.4	26.9			-														
18	24.6	28.1			-														
19	24.2	27.6	9:45 PM	0.17	0.02	0.01	1 hr												
20	25.6	34.0	12:00 AM	3.67	0.14	0.04	1 hr												
21	23.9	27.2			-														
22	23.1	27.2			-														
23	23.0	26.2			-														
24	22.3	26.1			-														
25	21.1	23.8			-														
26	22.8	26.8	2:00 AM	0.17	0.01	0.01	1 hr												
27	24.5	32.6	1:10 AM	3.92	0.18	0.05	1 hr												
28	23.4	29.7	12:30 AM	0.50	0.02	0.02	1 hr												
29	62.1	81.4	2:55 AM	16.75	1.58	0.22	1 hr	5:10 AM	E	3.15	E	0.58	E	5:10 AM	E	5.02	E	0.41	E
30	29.5	46.0			-														
31	30.1	42.7	7:00 AM	5.17	0.18	0.04	1 hr												
Totals:	801.0			43.17	2.92			1	Day	3.15		0.58		1	Day	5.02		0.41	
Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent												Telephone							
Kim Thompson, Director of Wastewater												574-235-5969							
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION; THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.																			
Signature of Principal Executive Officer or Authorized Agent												Date (mm/dd/yy)							
K. Thompson												1-23-25							



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 2 of 11				Permit Number: IN0024520											
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y															
Monitoring Period: December 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>															
Design Peak Flow (Hourly) (MGD): 77												Design Flow (MGD): 48				Measured/Metered (M) or Estimated (E) must be specified											
CSO Outfall No. 003												CSO Outfall No. 004				CSO Outfall No. 006				CSO Outfall No. 007							
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E			
1																											
2																											
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6																											
7																											
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9																											
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11																											
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13																											
14																											
15													2:15 AM	M	0.25	M	0.00	E									
16																											
17																											
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21																											
22																											
23																											
24																											
25																											
26																											
27																											
28																											
29							4:55 AM	E	1.66	E	0.03	E	5:00 AM	M	12.00	M	1.11	E	4:55 AM	E	4.84	E	0.10	E			
30																											
31																											
Totals:	0	De	ys		0.00		1	De	ys	1.66		0.03		2	De	ys	12.25		1.11		1	De	ys	4.84		0.10	



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 3 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: December 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
CSO Outfall No. 008						CSO Outfall No. 010						CSO Outfall No. 11A				CSO Outfall No. 11B								
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14	10:10 PM	E	1.83	E	0.00	E	10:10 PM	E	0.21	E	0.00	E							10:10 PM	E	0.18	E	0.01	E
15	12:00 AM	E	4.84	E	0.04	E	2:05 AM	E	2.83	E	0.03	E							2:05 AM	E	2.42	E	0.13	E
16	8:15 AM	E	0.88	E	0.00	E																		
17																								
18																								
19																								
20	2:55 AM	E	0.88	E	0.00	E																		
21																								
22																								
23																								
24																								
25																								
26																								
27	3:10 PM	E	2.38	E	0.01	E	3:10 PM	E	0.63	E	0.01	E							3:10 PM	E	0.54	E	0.03	E
28																								
29	4:55 AM	E	14.67	E	0.28	E	4:55 AM	E	9.61	E	0.33	E							4:55 AM	E	8.96	E	2.17	E
30																								
31	10:10 AM	E	1.09	E	0.00	E																		
Totals:	7	Da	26.57	ys	0.34		4	Da	13.28	ys	0.38		0	Da			0.00		4	Da	12.10	ys	2.33	



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 4 of 11			Permit Number: IN0024520														
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y																	
Monitoring Period: December 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>																	
Design Peak Flow (Hourly) (MGD): 77												Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified											
CSO Outfall No. 014												CSO Outfall No. 018						CSO Outfall No. 019						CSO Outfall No. 021					
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E					
1																													
2																													
3																													
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7																													
8																													
9																													
10																													
11																													
12																													
13																													
14																													
15	2:05 AM	E	0.04	E	0.00	E	2:05 AM	E	0.26	E	0.01	E	2:05 AM	E	0.15	E	0.00	E											
16																													
17																													
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19																													
20																													
21																													
22																													
23																													
24																													
25																													
26																													
27																													
28																													
29	4:55 AM	E	2.62	E	0.16	E	4:55 AM	E	8.51	E	1.04	E	4:55 AM	E	2.60	E	0.17	E	4:55 AM	E	1.85	E	0.03	E					
30																													
31																													
Totals:	2	Days	2.66		0.16		2	Days	8.77		1.05		2	Days	2.75		0.17		1	Days	1.85		0.03						



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)

State Form 55046 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 5 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: December 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77												Design Flow (MGD): 48				Measured/Metered (M) or Estimated (E) must be specified								
CSO Outfall No. 022												CSO Outfall No. 025				CSO Outfall No. 026				CSO Outfall No. 027				
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								
15	2:20 AM	M	2.17	M	0.48	E																		
16	7:50 AM	M	0.33	M	0.04	E																		
17																								
18																								
19																								
20																								
21																								
22																								
23																								
24																								
25																								
26																								
27																								
28																								
29	5:35 AM	M	14.17	M	4.86	E													5:00 AM	E	2.57	E	0.45	E
30																								
31																								
Totals:	3	Days	16.67		5.37		0	Days			0.00		0	Days			0.00		1	Days	2.57		0.45	

National Pollutant Discharge Elimination System (NPDES)
CSO Monthly Report of Operation (CSO MRO)
 State Form 50546 (R3 / 7-13)
 INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 6 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: December 2024												Check box If no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77						Design Flow (MGD): 48						Measured/Metered (M) or Estimated (E) must be specified												
		CSO Outfall No. 028					CSO Outfall No. 029					CSO Outfall No. 031					CSO Outfall No. 033							
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14							10:10 PM	E	0.05	E	0.00	E	10:10 PM	E	0.26	E	0.01	E	10:10 PM	E	0.12	E	0.00	E
15							2:05 AM	E	0.73	E	0.00	E	2:05 AM	E	3.50	E	0.17	E	2:05 AM	E	1.77	E	0.00	E
16																								
17																								
18																								
19																								
20																								
21																								
22																								
23																								
24																								
25																								
26																								
27							3:10 PM	E	0.15	E	0.00	E	3:10 PM	E	0.79	E	0.03	E	3:10 PM	E	0.37	E	0.00	E
28																								
29	4:55 AM	E	2.11	E	0.05	E	4:55 AM	E	3.89	E	0.08	E	4:55 AM	E	12.56	E	2.07	E	4:55 AM	E	12.26	E	0.07	E
30																								
31																								
Totals:	1	Days	2.11		0.05		4	Days	4.82		0.08		4	Days	17.11		2.29		4	Days	14.52		0.07	



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)

State Form 55046 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 7 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: December 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77												Design Flow (MGD): 48				Measured/Metered (M) or Estimated (E) must be specified								
CSO Outfall No. 035												CSO Outfall No. 036				CSO Outfall No. 037				CSO Outfall No. 038				
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14	10:10 PM	E	0.72	E	0.00	E																		
15	2:05 AM	E	5.48	E	0.04	E	2:05 AM	E	0.10	E	0.00	E												
16	8:15 AM	E	0.17	E	0.00	E																		
17																								
18																								
19																								
20	2:55 AM	E	0.17	E	0.00	E																		
21																								
22																								
23																								
24																								
25																								
26																								
27	3:10 PM	E	1.49	E	0.01	E																		
28																								
29	4:55 AM	E	15.61	E	0.32	E	4:55 AM	E	4.38	E	0.04	E	5:35 AM	M	2.50	M	0.11	E						
30																								
31	10:10 AM	E	0.21	E	0.00	E																		
Totals:	7	Da ys	23.85		0.38		2	Da ys	4.48		0.04		1	Da ys	2.50		0.11		0	Da ys			0.00	



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 8 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: December 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77												Design Flow (MGD): 48				Measured/Metered (M) or Estimated (E) must be specified								
CSO Outfall No. 039												CSO Outfall No. 040				CSO Outfall No. 041				CSO Outfall No. 042				
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
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14																								
15	2:05 AM	E	0.48	E	0.01	E																		
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28																								
29	4:55 AM	E	5.77	E	0.34	E	5:00 AM	E	2.88	E	0.14	E	4:55 AM	E	2.63	E	0.03	E						
30																								
31																								
Totals:	2	Days	6.25		0.35		1	Days	2.88		0.14		1	Days	2.63		0.03		0	Days			0.00	



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 9 of 11				Permit Number: IN0024520								
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y												
Monitoring Period: December 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>												
Design Peak Flow (Hourly) (MGD): 77												Design Flow (MGD): 48				Measured/Metered (M) or Estimated (E) must be specified								
CSO Outfall No. 044												CSO Outfall No. 045				CSO Outfall No. 048				CSO Outfall No. 049				
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
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14													10:00 PM	E	1.04	E	0.03	E						
15													2:05 AM	E	2.98	E	0.11	E						
16													8:10 AM	E	0.17	E	0.00	E						
17																								
18																								
19																								
20													2:10 AM	E	0.52	E	0.01	E						
21																								
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23																								
24																								
25																								
26																								
27													3:00 PM	E	1.04	E	0.03	E						
28																								
29							6:05 PM	M	2.25	M	0.38	E	4:55 AM	E	15.36	E	1.02	E						
30																								
31													9:30 AM	E	0.69	E	0.02	E						
Totals:	0	Days			0.00		1	Days	2.25		0.38		7	Days	21.80		1.22		0	Days			0.00	



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend												Page 10 of 11		Permit Number: IN0024520																					
Facility: South Bend Municipal WWTP												Public Notification Requirements Met? Y																							
Monitoring Period: December 2024												Check box if no CSO discharge occurred for the month: <input type="checkbox"/>																							
Design Peak Flow (Hourly) (MGD): 77												Design Flow (MGD): 48												Measured/Metered (M) or Estimated (E) must be specified											
CSO Outfall No. 060												CSO Outfall No.												CSO Outfall No. [#]						CSO Outfall No. [#]					
Day of Month	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E											
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14	10:10 PM	E	0.45	E	0.00	E																													
15	2:05 AM	E	5.93	E	0.00	E																													
16																																			
17																																			
18																																			
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24																																			
25																																			
26																																			
27	3:10 PM	E	1.35	E	0.00	E																													
28																																			
29	4:55 AM	E	12.19	E	0.05	E																													
30																																			
31																																			
Totals:	4	Days	19.92		0.05		0	Days			0.00		0	Days			0.00		0	Days			0.00												



National Pollutant Discharge Elimination System (NPDES)

CSO Monthly Report of Operation (CSO MRO)

State Form 50546 (R3 / 7-13)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

City: City of South Bend		Page: 11 of 11	Permit Number: IN0024520
Facility: South Bend Municipal WWTP		Public Notification Requirements Met? Y	
Monitoring Period: December Year: 2024		Check box if no CSO discharge occurred for the month: <input type="checkbox"/>	
Design Peak Hourly Flow (MGD): 77		Design Average Flow (MGD): 48	
Day of Month	Comments (further explanation as to why each CSO event occurred)		
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14	Precipitation Event Observed		
15	Precipitation Event Observed		
16	Precipitation Event Observed		
17			
18			
19			
20	Precipitation Event Observed		
21			
22			
23			
24			
25			
26			
27	Precipitation Event Observed		
28			
29	Precipitation Event Observed		
30			
31	Precipitation Event Observed		
Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent		Telephone	
Kim Thompson, Director of Wastewater		574-235-5969	
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION; THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.			
Signature of Principal Executive Officer or Authorized Agent		Date (mm/dd/yy)	
		1-23-25	

CSO Public Notification - December

Day of Month	Day of Week	Total Daily Precip. (inches)	Total Daily CSO Discharge Volume (MG)	Notification Sent	Notes
1	Sun	-	-		
2	Mon	-	-		
3	Tue	-	-		
4	Wed	-	-		
5	Thu	0.11	0.00	YES	Notice Sent, But No Overflows
6	Fri	-	-		
7	Sat	-	-		
8	Sun	-	-		
9	Mon	0.03	0.00		
10	Tue	-	-		
11	Wed	-	-		
12	Thu	-	-		
13	Fri	-	-		
14	Sat	0.18	0.06	YES	
15	Sun	0.34	1.03	YES	
16	Mon	0.13	0.04	YES	
17	Tue	-	-		
18	Wed	-	-		
19	Thu	0.02	0.00		
20	Fri	0.14	0.01	YES	
21	Sat	-	-		
22	Sun	-	-		
23	Mon	-	-		
24	Tue	-	-		
25	Wed	-	-		
26	Thu	0.01	0.00		
27	Fri	0.18	0.11	YES	
28	Sat	0.02	0.00		
29	Sun	1.58	16.43	YES	
30	Mon	-	-		
31	Tue	0.18	0.02	YES	

Notes

Average Daily Flow	Average value of 5-min WWTP flow data
Peak Hourly Flow	Maximum value of the rolling hourly average flow rate
Time Precipitation Began	First precipitation recorded between the six rain gauges
Precipitation Duration	Cumulative duration of all precipitation for the day
Total Daily Precipitation	Maximum value of precipitation for all the six rain gauges
Peak Intensity	Maximum precipitation depth in an hour
Design Peak Hourly Flow	Per the NPDES Permit, the WWTP facility has a peak design flow of 77 MGD

Metered CSOs

- CSOs 3, 6, 22, 37 and 45 are metered with flow meter equipment.
- Data is downloaded from these sites and entered into the report.
- Discharge begin time and duration is obtained from this data.
- Discharge volume is calculated using level data.

Other CSOs

For non-metered CSOs, matrix relating precipitation to CSO volume is used to calculate CSO volume and the same for duration. The matrix was created from the South Bend design storms SWMM model results. The discharge time is estimated from the precipitation start time

Rain Gauges

Used the following rain gauges data in the CSO MRO: Colfax, Ethanol, Vaness, Southfield, WWTP and Ironwood.

Overflows less than 10,000 gallons are reported as 0.00 MG on the CSO MRO and as <0.01 MG on the NetDMR.