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 2019		Check box if no CSO discharge occurred for the month: ☐	
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	44.7	49.6			-														
2	52.7	79.7	12:55 PM	2.08	0.50	0.30	1 hr	2:55 PM	E	0.70	E	0.03	E						
3	47.0	74.9	1:40 AM	0.08	0.01	0.01	1 hr												
4	42.2	47.5			-														
5	51.2	82.5	3:25 PM	1.92	0.63	0.63	1 hr	5:25 PM	E	0.95	E	0.05	E	5:25 PM	E	0.06	E	0.00	E
6	55.8	82.7	7:20 AM	2.00	0.86	0.73	1 hr	11:00 AM	E	1.96	E	0.22	E	11:00 AM	E	2.13	E	0.02	E
7	48.2	55.8			-														
8	45.9	50.1			-														
9	44.6	48.9			-														
10	44.5	48.3	8:35 AM	0.33	0.05	0.04	1 hr												
11	43.7	48.0	12:05 AM	0.08	0.01	0.01	1 hr												
12	42.4	46.8			-														
13	41.5	45.6			-														
14	40.9	44.2	12:20 AM	0.08	0.01	0.01	1 hr												
15	41.9	46.4			-														
16	45.5	61.8	4:40 AM	4.33	0.77	0.45	1 hr	6:40 AM	E	0.55	E	0.02	E						
17	43.5	60.0	3:50 AM	0.33	0.02	0.02	1 hr												
18	46.4	76.1	12:05 PM	2.25	0.43	0.37	1 hr	2:05 PM	E	0.04	E	0.00	E						
19	41.2	45.3			-														
20	40.6	44.1	4:30 AM	1.67	0.26	0.25	1 hr												
21	49.6	81.3	3:25 PM	4.08	4.44	3.82	1 hr	6:20 PM	E	3.47	E	0.67	E	6:20 PM	E	5.22	E	0.48	E
22	46.4	64.5	10:40 AM	0.08	0.01	0.01	1 hr												
23	40.9	45.4			-														
24	39.8	43.2			-														
25	39.2	43.8			-														
26	39.5	44.0			-														
27	37.9	41.3			-														
28	38.0	41.7			-														
29	38.4	42.8	9:20 AM	2.25	0.19	0.14	1 hr												
30	37.4	41.7			-														
31	35.9	40.6			-														
Totals:	1347.5			21.58	8.19			6	Days	7.67		0.99		3	Days	7.41		0.50	

Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent	Telephone
Al Greek , Director of Utilities	574-271-4210

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)
Al Greek	08/15/19

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 2 of 11	Permit Number: IN0024520
Facility: South Bend Municipal WWTP		Public Notification Requirements Met? Y	
Monitoring Period: July 2019		Check box if no CSO discharge occurred for the month: ☐	
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	6:00 PM	M	0.58	M	0.13	E							5:50 PM	M	3.25	M	0.53	E						
3																								
4																								
5	4:25 PM	M	2.08	M	2.05	E							4:20 PM	M	3.00	M	2.25	E	5:55 PM	E	1.47	E	0.01	E
6	4:25 PM	M	0.58	M	4.43	E							4:20 PM	M	0.50	M	2.31	E	9:20 AM	E	0.11	E	0.00	E
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								
15																								
16																								
17																								
18													1:25 PM	M	1.75	M	0.08	E						
19																								
20																								
21	4:45 PM	M	3.00	M	4.16	E							4:35 PM	M	4.00	M	2.05	E	6:15 PM	E	3.16	E	0.02	E
22																								
23																								
24																								
25																								
26																								
27																								
28																								
29																								
30																								
31																								
Totals:	4	Days	6.25		10.78		0	Days			0.00		5	Days	12.50		7.24		3	Days	4.74		0.03	

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Facility: South Bend Municipal WWTP		Public Notification Requirements Met? Y	
Monitoring Period: July 2019		Check box if no CSO discharge occurred for the month: ☐	
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	7:15 PM	E	4.75	E	0.05	E	7:15 PM	E	4.58	E	0.10	E							7:15 PM	E	4.24	E	0.58	E
3	12:00 AM	E	4.30	E	0.04	E																		
4																								
5	5:55 PM	E	6.08	E	0.08	E	5:55 PM	E	5.60	E	0.15	E							5:55 PM	E	5.16	E	0.93	E
6	12:00 AM	E	14.27	E	0.16	E	9:20 AM	E	4.89	E	0.11	E							9:20 AM	E	4.55	E	0.66	E
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								
15																								
16	6:45 AM	E	5.33	E	0.05	E	6:45 AM	E	3.08	E	0.04	E							6:45 AM	E	2.68	E	0.19	E
17																								
18	2:20 PM	E	5.95	E	0.06	E	2:20 PM	E	3.33	E	0.05	E							2:20 PM	E	2.94	E	0.26	E
19																								
20																								
21	6:15 PM	E	5.75	E	0.09	E	6:15 PM	E	5.75	E	0.18	E							6:15 PM	E	5.75	E	1.23	E
22	12:00 AM	E	5.95	E	0.09	E	12:00 AM	E	0.74	E	0.02	E							12:00 AM	E	0.18	E	0.04	E
23																								
24																								
25																								
26																								
27																								
28																								
29	2:25 PM	E	0.88	E	0.00	E																		
30																								
31																								
Totals:	9	Days	53.26		0.62		7	Days	27.97		0.66		0	Days			0.00		7	Days	25.50		3.90	

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Facility: South Bend Municipal WWTP		Public Notification Requirements Met? Y	
Monitoring Period: July 2019		Check box if no CSO discharge occurred for the month: ☐	
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	7:15 PM	E	0.88	E	0.04	E	7:15 PM	E	4.75	E	0.17	E												
3							12:00 AM	E	1.04	E	0.04	E												
4																								
5	5:55 PM	E	1.38	E	0.06	E	5:55 PM	E	6.08	E	0.35	E	6:20 PM	E	0.99	E	0.02	E	6:20 PM	E	0.13	E	0.00	E
6	9:20 AM	E	1.03	E	0.05	E	12:00 AM	E	7.35	E	0.29	E												
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								
15																								
16	6:45 AM	E	0.16	E	0.01	E	6:45 AM	E	1.05	E	0.04	E	6:40 AM	E	1.69	E	0.04	E	6:40 AM	E	0.51	E	0.00	E
17																								
18	2:20 PM	E	0.28	E	0.01	E	2:20 PM	E	1.84	E	0.06	E	2:25 PM	E	0.54	E	0.01	E						
19																								
20													6:50 AM	E	0.03	E	0.00	E						
21	6:15 PM	E	1.83	E	0.07	E	6:15 PM	E	5.75	E	0.47	E	5:30 PM	E	3.06	E	0.20	E	5:30 PM	E	1.89	E	0.04	E
22							12:00 AM	E	1.36	E	0.11	E												
23																								
24																								
25																								
26																								
27																								
28																								
29																								
30																								
31																								
Totals:	6	Days	5.56		0.24		8	Days	29.22		1.52		5	Days	6.31		0.27		3	Days	2.53		0.04	

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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																			3:05 PM	E	0.05	E	0.00	E
3																								
4																								
5	4:45 PM	M	1.25	M	0.87	E													5:55 PM	E	0.14	E	0.01	E
6	4:45 PM	M	0.50	M	0.09	E													11:00 AM	E	0.14	E	0.01	E
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								
15																								
16	2:15 PM	M	1.50	M	0.80	E																		
17																								
18	1:00 PM	M	1.00	M	0.37	E																		
19																								
20	5:45 AM	M	0.25	M	0.03	E																		
21	4:20 PM	M	3.75	M	2.30	E													6:20 PM	E	0.32	E	0.02	E
22																								
23																								
24																								
25																								
26																								
27																								
28																								
29																								
30																								
31																								
Totals:	6	Days	8.25		4.47		0	Days			0.00		0	Days			0.00		4	Days	0.65		0.03	

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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							7:15 PM	E	1.99	E	0.02	E	7:15 PM	E	4.75	E	0.54	E	7:15 PM	E	4.75	E	0.01	E
3													12:00 AM	E	0.43	E	0.05	E	12:00 AM	E	0.94	E	0.00	E
4																								
5	5:55 PM	E	0.45	E	0.00	E	5:55 PM	E	2.27	E	0.03	E	5:55 PM	E	6.08	E	0.79	E	5:55 PM	E	6.08	E	0.02	E
6	9:20 AM	E	0.03	E	0.00	E	9:20 AM	E	2.17	E	0.02	E	12:00 AM	E	6.71	E	0.82	E	12:00 AM	E	7.78	E	0.03	E
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								
15																								
16							6:45 AM	E	0.91	E	0.00	E	6:45 AM	E	3.74	E	0.23	E	6:45 AM	E	2.33	E	0.00	E
17																								
18							2:20 PM	E	1.09	E	0.01	E	2:20 PM	E	3.98	E	0.29	E	2:20 PM	E	2.89	E	0.01	E
19																								
20																								
21	6:15 PM	E	0.98	E	0.00	E	6:15 PM	E	2.39	E	0.05	E	6:15 PM	E	5.75	E	0.78	E	6:15 PM	E	5.75	E	0.02	E
22													12:00 AM	E	3.58	E	0.49	E	12:00 AM	E	3.21	E	0.01	E
23																								
24																								
25																								
26																								
27																								
28																								
29																								
30																								
31																								
Totals:	3	Days	1.46		0.00		6	Days	10.82		0.13		8	Days	35.02		3.99		8	Days	33.73		0.11	

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Facility: South Bend Municipal WWTP		Public Notification Requirements Met? Y	
Monitoring Period: July 2019		Check box if no CSO discharge occurred for the month: ☐	
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	7:15 PM	E	4.75	E	0.07	E	7:15 PM	E	2.27	E	0.01	E	3:05 PM	E	3.88	E	0.54	E						
3	12:00 AM	E	3.74	E	0.05	E																		
4																								
5	5:55 PM	E	6.08	E	0.10	E	5:55 PM	E	2.93	E	0.01	E	5:55 PM	E	3.99	E	0.59	E						
6	12:00 AM	E	13.33	E	0.20	E	9:20 AM	E	2.61	E	0.01	E	11:00 AM	E	3.99	E	0.59	E						
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								
15																								
16	6:45 AM	E	5.91	E	0.05	E	6:45 AM	E	0.41	E	0.00	E	2:15 PM	M	0.83	M	0.32	E						
17																								
18	2:20 PM	E	6.34	E	0.07	E	2:20 PM	E	0.72	E	0.00	E												
19																								
20																								
21	6:15 PM	E	5.75	E	0.10	E	6:15 PM	E	3.34	E	0.02	E	4:25 PM	M	1.33	M	0.90	E						
22	12:00 AM	E	6.33	E	0.12	E																		
23																								
24																								
25																								
26																								
27																								
28																								
29	2:25 PM	E	0.17	E	0.00	E																		
30																								
31																								
Totals:	9	Days	52.40		0.76		6	Days	12.28		0.06		5	Days	14.03		2.94		0	Days			0.00	

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	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							3:05 PM	E	0.05	E	0.00	E												
3																								
4																								
5	6:20 PM	E	2.68	E	0.08	E	5:55 PM	E	0.15	E	0.00	E	6:20 PM	E	0.85	E	0.00	E						
6							11:00 AM	E	0.15	E	0.00	E												
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								
15																								
16	6:40 AM	E	3.43	E	0.14	E							6:40 AM	E	1.60	E	0.01	E						
17																								
18	2:25 PM	E	1.74	E	0.04	E																		
19																								
20	6:50 AM	E	0.10	E	0.00	E																		
21	5:30 PM	E	6.50	E	0.38	E	6:20 PM	E	0.36	E	0.01	E	5:30 PM	E	2.74	E	0.04	E						
22	12:00 AM	E	0.20	E	0.01	E																		
23																								
24																								
25																								
26																								
27																								
28																								
29																								
30																								
31																								
Totals:	6	Days	14.65		0.65		4	Days	0.71		0.01		3	Days	5.19		0.05		0	Days			0.00	

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Facility: South Bend Municipal WWTP		Public Notification Requirements Met? Y	
Monitoring Period: July 2019		Check box if no CSO discharge occurred for the month: ☐	
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							5:05 PM	M	2.17	M	0.84	E	6:20 PM	E	5.67	E	0.30	E						
6							3:45 PM	M	3.08	M	1.37	E	12:00 AM	E	3.19	E	0.11	E						
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								
15																								
16													6:40 AM	E	9.26	E	0.54	E						
17																								
18													2:25 PM	E	4.89	E	0.23	E						
19																								
20													6:50 AM	E	2.40	E	0.07	E						
21	6:20 PM	E	0.09	E	0.00	E	5:20 PM	M	3.42	M	2.13	E	5:30 PM	E	6.50	E	0.44	E						
22													12:00 AM	E	10.26	E	0.69	E						
23																								
24																								
25																								
26																								
27																								
28																								
29																								
30																								
31																								
Totals:	1	Days	0.09		0.00		3	Days	8.67		4.34		7	Days	42.17		2.39		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 10 of 11	Permit Number: IN0024520
Facility: South Bend Municipal WWTP		Public Notification Requirements Met? Y	
Monitoring Period: July 2019		Check box if no CSO discharge occurred for the month: ☐	
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	7:15 PM	E	4.75	E	0.01	E																		
3	12:00 AM	E	3.21	E	0.00	E																		
4																								
5	5:55 PM	E	6.08	E	0.01	E																		
6	12:00 AM	E	10.98	E	0.02	E																		
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								
15																								
16	6:45 AM	E	6.22	E	0.00	E																		
17																								
18	2:20 PM	E	6.51	E	0.00	E																		
19																								
20																								
21	6:15 PM	E	5.75	E	0.02	E																		
22	12:00 AM	E	3.63	E	0.01	E																		
23																								
24																								
25																								
26																								
27																								
28																								
29																								
30																								
31																								
Totals:	8	Days	47.13		0.07		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: July Year: 2019		Check box if no CSO discharge occurred for the month: ☐	
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	Overflow Event From 2nd Extended Into 3rd.
4	
5	Precipitation Event Observed
6	Precipitation Event Observed
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	Precipitation Event Observed
17	
18	Precipitation Event Observed
19	
20	Precipitation Event Observed
21	Precipitation Event Observed
22	Overflow Event From 21st Extended Into 22nd.
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
Al Greek , Director of Utilities	574-271-4210

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)
Al Greek	08/15/19

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	-	-		
2	Tue	0.50	2.83	Yes	
3	Wed	0.01	0.19		Overflow event from 2nd extended into the 3rd
4	Thu	-	-		
5	Fri	0.63	9.62	Yes	
6	Sat	0.86	11.54	Yes	
7	Sun	-	-		
8	Mon	-	-		
9	Tue	-	-		
10	Wed	0.05	0.00	Yes	Initial notification sent, but no overflows occurred
11	Thu	0.01	0.00		
12	Fri	-	-		
13	Sat	-	-		
14	Sun	0.01	0.00		
15	Mon	-	-		
16	Tue	0.77	2.51	Yes	
17	Wed	0.02	0.00		
18	Thu	0.43	1.56	Yes	
19	Fri	-	-		
20	Sat	0.26	0.10	Yes	
21	Sun	4.44	16.88	Yes	
22	Mon	0.01	1.60		Overflow event from 21st extended into the 22nd
23	Tue	-	-		
24	Wed	-	-		
25	Thu	-	-		
26	Fri	-	-		
27	Sat	-	-		
28	Sun	-	-		
29	Mon	0.19	0.00	Yes	Estimated overflow was less than 10,000 gallons.
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.

- CSO 37's meter was down July 1st until 12:45 PM on July 10th. During times when metering equipment is down, the matrix relating precipitation to CSO volume is used to calculate volume and duration.

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. Southfield's rain gauge was out of service from July 1st - 17th. During this time, Ironwood's rain gauge data was used for Southfield.

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

Precipitation Data Summary - July

Day of Month	Day of Week	Daily Precipitation (in)						Average Daily Precipitation (in)
		Colfax RG1	Ethanol RG2	Vaness RG3	Southfield RG4	WWTP RG5	Ironwood RG6	
1	Mon	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	Tue	0.47	0.40	0.50	0.08	0.44	0.08	0.33
3	Wed	0.00	0.00	0.01	0.00	0.00	0.00	0.00
4	Thu	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	Fri	0.63	0.43	0.53	0.57	0.50	0.57	0.54
6	Sat	0.51	0.86	0.53	0.24	0.83	0.24	0.53
7	Sun	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	Mon	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	Tue	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	Wed	0.00	0.01	0.00	0.05	0.00	0.05	0.02
11	Thu	0.00	0.00	0.00	0.01	0.00	0.01	0.00
12	Fri	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	Sat	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	Sun	0.00	0.00	0.00	0.01	0.00	0.01	0.00
15	Mon	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	Tue	0.28	0.32	0.27	0.77	0.40	0.77	0.47
17	Wed	0.01	0.00	0.01	0.00	0.00	0.02	0.01
18	Thu	0.32	0.40	0.29	0.19	0.25	0.43	0.31
19	Fri	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	Sat	0.03	0.01	0.11	0.26	0.12	0.25	0.13
21	Sun	0.78	0.75	0.57	4.44	1.49	1.68	1.62
22	Mon	0.00	0.00	0.01	0.00	0.00	0.00	0.00
23	Tue	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	Wed	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	Thu	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	Fri	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	Sat	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	Sun	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	Mon	0.07	0.08	0.09	0.19	0.16	0.08	0.11
30	Tue	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	Wed	0.00	0.00	0.00	0.00	0.00	0.00	0.00

City of South Bend, Indiana
CSO Overflow Summary
JULY 2019

NUMBER OF OVERFLOW EVENTS IN JULY 2019 = 8

CSO Outfall	Total Overflow Duration (Hours)	Total Overflow Volume (MG)	Number of Overflow Events[1]
001	7.67	0.99	6
002	7.41	0.50	3
003	6.25	10.78	4
004			0
006	12.50	7.24	5
007	4.74	0.03	3
008	53.26	0.62	7
010	27.97	0.66	6
11A			0
11B	25.50	3.90	6
014	5.56	0.24	6
018	29.22	1.52	6
019	6.31	0.27	5
021	2.53	0.04	3
022	8.25	4.47	6
025			0
026			0
027	0.65	0.03	4
028	1.46	0.00	3
029	10.82	0.13	6
031	35.02	3.99	6
033	33.73	0.11	6
035	52.40	0.76	7
036	12.28	0.06	6
037	14.03	2.94	5
038			0
039	14.65	0.65	5
040	0.71	0.01	4
041	5.19	0.05	3
042			0
044	0.09	0.00	1
045	8.67	4.34	3
048	42.17	2.39	6
049			0
060	47.13	0.07	6
Total		**46.8**	

This tab summarizes the total overflow volume, total overflow duration and number of overflow events for every CSO for that particular month.

[1]More than one event on the same day is counted as one event.
If an Overflow event is rolled over to the next day, it is still counted as one event.