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 STP	Public Notification Requirements Met? Y	
Monitoring Period: April 2018	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	37.4	41.6																	
2	38.2	42.1																	
3	46.3	78.9	4:20 AM	3.33	0.50	0.28	1 hr	3:05 PM	E	0.26	E	0.01	E						
4	41.8	62.1	1:15 AM	2.50	0.11	0.04	1 hr												
5	38.4	41.0	11:55 PM	0.08	0.01	0.03	1 hr												
6	38.5	40.6	12:15 AM	0.58	0.03	0.03	1 hr												
7	37.4	42.2																	
8	37.3	41.6																	
9	37.6	40.8																	
10	37.6	43.8																	
11	37.9	41.4																	
12	39.7	45.5	1:40 AM	2.17	0.20	0.17	1 hr												
13	37.8	41.5																	
14	56.9	80.2	12:05 AM	8.42	1.42	0.42	1 hr	4:00 AM	E	3.24	E	0.61	E	4:00 AM	E	5.09	E	0.43	E
15	59.0	81.1	12:05 AM	8.00	1.32	0.46	1 hr	2:20 AM	E	3.02	E	0.54	E	2:20 AM	E	4.90	E	0.36	E
16	44.3	51.8	2:45 PM	0.25	0.02	0.01	1 hr												
17	42.1	44.6																	
18	42.2	45.7	4:25 PM	1.58	0.06	0.06	1 hr												
19	45.1	51.1	12:05 AM	2.50	0.15	0.10	1 hr												
20	41.8	45.4																	
21	41.0	45.1																	
22	40.7	46.3																	
23	41.1	44.6																	
24	40.6	43.7																	
25	40.2	42.5																	
26	39.2	42.0																	
27	39.0	41.9	9:50 PM	1.58	0.11	0.06	1 hr												
28	38.9	41.9	12:05 AM	0.92	0.08	0.08	1 hr												
29	36.9	41.6																	
30	37.6	41.0																	
Totals:	1232.6			31.92	4.01			3	Days	6.52		1.16		2	Days	9.99		0.80	

Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent	Telephone
Al Greek - Utilities Director	574-277-8515

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	05/21/18

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 STP	Public Notification Requirements Met? Y	
Monitoring Period: April 2018		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																								
3													5:55 PM	M	2.00	M	0.34	E						
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14	5:45 AM	M	1.50	M	0.24	E							3:25 AM	M	5.75	M	0.43	E	4:05 AM	E	2.94	E	0.02	E
15	9:30 AM	M	3.17	M	2.57	E							6:10 AM	M	5.25	M	1.68	E	2:10 AM	E	0.79	E	0.00	E
16																								
17																								
18																								
19																								
20																								
21																								
22																								
23																								
24																								
25																								
26																								
27																								
28																								
29																								
30																								
Totals:	2	Days	4.67		2.81		0	Days	0.00		0.00		3	Days	13.00		2.44		2	Days	3.73		0.02	

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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 STP		Public Notification Requirements Met? Y	
Monitoring Period: April 2018		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																								
3	3:05 PM	E	8.92	E	0.09	E	3:05 PM	E	4.58	E	0.10	E							3:05 PM	E	4.24	E	0.58	E
4	12:00 AM	E	0.57	E	0.00	E																		
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12	4:15 AM	E	1.75	E	0.00	E	4:15 AM	E	0.00	E	0.00	E							4:15 AM	E	0.00	E	0.00	E
13																								
14	4:05 AM	E	11.55	E	0.18	E	4:05 AM	E	6.37	E	0.19	E							4:05 AM	E	5.83	E	1.23	E
15	2:10 AM	E	10.17	E	0.12	E	2:10 AM	E	5.25	E	0.13	E							2:10 AM	E	4.86	E	0.80	E
16																								
17																								
18																								
19	2:05 AM	E	0.88	E	0.00	E																		
20																								
21																								
22																								
23																								
24																								
25																								
26																								
27																								
28																								
29																								
30																								
Totals:	6	Days	33.84		0.39		4	Days	16.20		0.43		0	Days	0.00		0.00		4	Days	14.93		2.60	

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City: City of South Bend		Page 4 of 11	Permit Number: IN0024520
Facility: South Bend Municipal STP		Public Notification Requirements Met? Y	
Monitoring Period: April 2018		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																								
3	3:05 PM	E	0.88	E	0.04	E	3:05 PM	E	5.79	E	0.20	E	6:20 AM	E	0.78	E	0.01	E	6:20 AM	E	0.02	E	0.00	E
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14	4:05 AM	E	1.77	E	0.07	E	4:05 AM	E	7.07	E	0.56	E	3:55 AM	E	1.69	E	0.04	E	3:55 AM	E	0.51	E	0.00	E
15	2:10 AM	E	1.21	E	0.05	E	2:10 AM	E	6.72	E	0.32	E	2:05 AM	E	1.84	E	0.05	E	2:05 AM	E	0.59	E	0.00	E
16																								
17																								
18																								
19																								
20																								
21																								
22																								
23																								
24																								
25																								
26																								
27																								
28																								
29																								
30																								
Totals:	3	Days	3.86		0.17		3	Days	19.58		1.08		3	Days	4.31		0.11		3	Days	1.12		0.00	

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Facility: South Bend Municipal STP	Public Notification Requirements Met? Y	
Monitoring Period: April 2018	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. 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	5:15 PM	M	0.50	M	0.14	E																		
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14	3:00 AM	M	1.25	M	0.10	E													4:05 AM	E	1.23	E	0.06	E
15	5:45 AM	M	3.25	M	0.92	E													2:05 AM	E	1.37	E	0.07	E
16																								
17																								
18																								
19																								
20																								
21																								
22																								
23																								
24																								
25																								
26																								
27																								
28																								
29																								
30																								
Totals:	3	Days	5.00		1.17		0	Days	0.00		0.00		0	Days	0.00		0.00		2	Days	2.60		0.13	

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City: City of South Bend		Page 6 of 11	Permit Number: IN0024520
Facility: South Bend Municipal STP		Public Notification Requirements Met? Y	
Monitoring Period: April 2018		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. 028						CSO Outfall No. 029						CSO Outfall No.						CSO Outfall No. 031					
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							3:05 PM	E	1.99	E	0.02	E							3:05 PM	E	5.18	E	0.59	E
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12							4:15 AM	E	0.00	E	0.00	E							4:15 AM	E	0.00	E	0.00	E
13																								
14	4:05 AM	E	0.91	E	0.00	E	4:05 AM	E	2.38	E	0.05	E							4:05 AM	E	9.05	E	1.23	E
15	2:10 AM	E	0.24	E	0.00	E	2:10 AM	E	2.22	E	0.03	E							2:10 AM	E	6.40	E	0.81	E
16																								
17																								
18																								
19																								
20																								
21																								
22																								
23																								
24																								
25																								
26																								
27																								
28																								
29																								
30																								
Totals:	2	Days	1.15		0.00		4	Days	6.59		0.09			Days					4	Days	20.63		2.62	

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City: City of South Bend		Page 7 of 11	Permit Number: IN0024520
Facility: South Bend Municipal STP		Public Notification Requirements Met? Y	
Monitoring Period: April 2018		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. 033						CSO Outfall No. 035						CSO Outfall No. 036						CSO Outfall No. 037					
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	3:05 PM	E	5.69	E	0.02	E	3:05 PM	E	8.49	E	0.12	E	3:05 PM	E	2.27	E	0.01	E						
4							4:55 AM	E	0.08	E	0.00	E												
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12	4:15 AM	E	0.00	E	0.00	E	4:15 AM	E	0.33	E	0.00	E												
13																								
14	4:05 AM	E	8.77	E	0.04	E	4:05 AM	E	11.85	E	0.21	E	4:05 AM	E	3.28	E	0.02	E						
15	2:10 AM	E	6.93	E	0.02	E	2:10 AM	E	9.71	E	0.15	E	2:10 AM	E	2.77	E	0.01	E	10:00 AM	M	2.25	M	0.52	E
16																								
17																								
18																								
19							2:05 AM	E	0.17	E	0.00	E												
20																								
21																								
22																								
23																								
24																								
25																								
26																								
27																								
28																								
29																								
30																								
Totals:	4	Days	21.39		0.08		6	Days	30.63		0.49		3	Days	8.32		0.04		1	Days	2.25		0.52	

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City: City of South Bend		Page 8 of 11	Permit Number: IN0024520
Facility: South Bend Municipal STP		Public Notification Requirements Met? Y	
Monitoring Period: April 2018		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. 038						CSO Outfall No. 039						CSO Outfall No. 040						CSO Outfall No. 041					
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							6:20 AM	E	2.45	E	0.06	E							6:20 AM	E	0.62	E	0.00	E
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14							3:55 AM	E	3.43	E	0.14	E	4:05 AM	E	1.38	E	0.03	E	3:55 AM	E	1.60	E	0.01	E
15							2:05 AM	E	3.61	E	0.15	E	2:05 AM	E	1.53	E	0.03	E	2:05 AM	E	1.77	E	0.01	E
16																								
17																								
18																								
19																								
20																								
21																								
22																								
23																								
24																								
25																								
26																								
27																								
28																								
29																								
30																								
Totals:	0	Days	0.00		0.00		3	Days	9.49		0.35		2	Days	2.91		0.06		3	Days	3.99		0.02	

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City: City of South Bend	Page 9 of 11	Permit Number: IN0024520
Facility: South Bend Municipal STP	Public Notification Requirements Met? Y	
Monitoring Period: April 2018	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. 042						CSO Outfall No. 044						CSO Outfall No. 045						CSO Outfall No. 048					
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																			6:20 AM	E	6.04	E	0.31	E
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																			3:55 AM	E	0.17	E	0.00	E
13																								
14													5:40 AM	M	3.58	M	0.83	E	3:55 AM	E	9.26	E	0.54	E
15													9:50 AM	M	4.08	M	1.94	E	2:05 AM	E	9.85	E	0.58	E
16																								
17																								
18																								
19																								
20																								
21																								
22																								
23																								
24																								
25																								
26																								
27																								
28																								
29																								
30																								
Totals:	0	Days	0.00		0.00		0	Days	0.00		0.00		2	Days	7.67		2.78		4	Days	25.32		1.43	

National Pollutant Discharge Elimination System (NPDES)
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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 STP		Public Notification Requirements Met? Y	
Monitoring Period: April 2018		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. 049						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	Time Discharge Began	M or E	Event Duration (Hours)	M or E	Event Discharge (MG)	M or E
1																								
2																								
3							3:05 PM	E	7.96	E	0.01	E												
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12							4:15 AM	E	0.00	E	0.00	E												
13																								
14							4:05 AM	E	9.30	E	0.03	E												
15							2:10 AM	E	8.53	E	0.01	E												
16																								
17																								
18																								
19																								
20																								
21																								
22																								
23																								
24																								
25																								
26																								
27																								
28																								
29																								
30																								
Totals:	0	Days	0.00		0.00		4	Days	25.79		0.05		0	Days	0.00		0.00		0	Days	0.00		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 STP				Public Notification Requirements Met? Y	
Monitoring Period: April 2018				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	
3	Precipitation Event Observed
4	Precipitation Event Observed
5	
6	
7	
8	
9	
10	
11	
12	Precipitation Event Observed
13	
14	Precipitation Event Observed
15	Precipitation Event Observed
16	
17	
18	
19	Precipitation Event Observed
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	
31	

Typed or Printed Name and Title of Principal Executive Officer or Authorized Agent	Telephone
Al Greek - Utilities Director	574-277-8515

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	05/21/18

CSO Public Notification - April

Day of Month	Day of Week	Total Daily Precip. (inches)	Notification Sent	Notes
1	Sun		No	
2	Mon		No	
3	Tue	0.50	Yes	
4	Wed	0.11	Yes	
5	Thu	0.01	Yes	
6	Fri	0.03	Yes	
7	Sat		No	
8	Sun		No	
9	Mon		No	
10	Tue		No	
11	Wed		No	
12	Thu	0.20	Yes	
13	Fri		No	
14	Sat	1.42	Yes	
15	Sun	1.32	Yes	
16	Mon	0.02	Yes	
17	Tue		No	
18	Wed	0.06	Yes	
19	Thu	0.15	Yes	
20	Fri		No	
21	Sat		No	
22	Sun		No	
23	Mon		No	
24	Tue		No	
25	Wed		No	
26	Thu		No	
27	Fri	0.11	Yes	
28	Sat	0.08	Yes	
29	Sun		No	
30	Mon		No	

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 CSO's

- CSO's 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 CSO's

For non-metered CSO's, 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

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

City of Souty Bend, Indiana
CSO Overflow Summary
APRIL 2018

CSO Outfall	Total Overflow Duration (Hours)	Total Overflow Volume (MG)	Number of Overflow Events[1]
001	6.52	1.16	3
002	9.99	0.80	2
003	4.67	2.81	2
004	0.00	0.00	0
006	13.00	2.44	3
007	3.73	0.02	2
008	33.84	0.39	6
010	16.20	0.43	4
11A	0.00	0.00	0
11B	14.93	2.60	4
014	3.86	0.17	3
018	19.58	1.08	3
019	4.31	0.11	3
021	1.12	0.00	3
022	5.00	1.17	3
025	0.00	0.00	0
026	0.00	0.00	0
027	2.60	0.13	2
028	1.15	0.00	2
029	6.59	0.09	4
031	20.63	2.62	4
033	21.39	0.08	4
035	30.63	0.49	6
036	8.32	0.04	3
037	2.25	0.52	1
038	0.00	0.00	0
039	9.49	0.35	3
040	2.91	0.06	2
041	3.99	0.02	3
042	0.00	0.00	0
044	0.00	0.00	0
045	7.67	2.78	2
048	25.32	1.43	4
049	0.00	0.00	0
060	25.79	0.05	4
Total		**21.8**	

Number of overflow days in April - 6

[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.

Precipitation Data Summary - April

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	Sun	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	Mon	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	Tue	0.47	0.27	0.35	0.34	0.32	0.50	0.37
4	Wed	0.06	0.05	0.04	0.00	0.11	0.09	0.06
5	Thu	0.00	0.00	0.01	0.00	0.00	0.00	0.00
6	Fri	0.01	0.02	0.02	0.02	0.03	0.02	0.02
7	Sat	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	Sun	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	Mon	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	Tue	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	Wed	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	Thu	0.12	0.09	0.13	0.09	0.20	0.13	0.13
13	Fri	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	Sat	0.75	0.34	0.77	0.53	1.42	0.77	0.76
15	Sun	0.56	0.50	0.80	0.48	1.32	0.81	0.74
16	Mon	0.01	0.00	0.00	0.00	0.02	0.00	0.00
17	Tue	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	Wed	0.03	0.06	0.04	0.04	0.03	0.06	0.04
19	Thu	0.07	0.15	0.05	0.06	0.14	0.09	0.09
20	Fri	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	Sat	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	Sun	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	Mon	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	Tue	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	Wed	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	Thu	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	Fri	0.03	0.06	0.05	0.06	0.11	0.07	0.06
28	Sat	0.02	0.04	0.03	0.03	0.08	0.08	0.05
29	Sun	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	Mon	0.00	0.00	0.00	0.00	0.00	0.00	0.00