



CITY OF LIMA, OHIO

David J. Berger, Mayor

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June 19, 2019

David Brumbaugh
Ohio EPA
Division of Surface Water
NPDES Permits
50 W. Town St., Suite 700
Columbus, Ohio 43215

**Re: CSO Annual Report
NPDES Permit No. 2PE00000*ND**

David,

Attached please find the City of Lima's CSO Annual Report for 2018.

Please contact this office if you have any questions. Thank you.

Sincerely,

Michael H. Caprella
Director of Utilities

Attachment

cc: Peggy Christie, OEPA NWDO
Ryan Gierhart, OEPA NWDO
Eric Markley, WWTP Supervisor
File

Combined

Sewer Overflow

Annual Report

2018

CITY OF LIMA, OHIO



June 19, 2019

Introduction

In response to the new CSO Public Notification rule, the City of Lima is required to post an Annual Report on or prior to May 1st of each year that summarizes the City's CSO activity from the previous year. In addition to the overflow information, this report also summarizes the City's action taken to meet the Nine Minimum Control measures as defined by the national CSO Control policy.

The following pages illustrate the overflows that occurred in 2018 from Lima's 19 CSO discharge points. The individual CSO charts illustrate the date an overflow occurred, the amount of overflow discharged in millions of gallons, the duration of the overflow, the rainfall associated with the overflow and analytical results from any sampling done on the overflow.

Following the data pages is a summary update of the Long Term Control Plan.

Collett Street Control Structure # 002

DMR 002 Daily 1/1/2018 - 12/31/2018	City of Lima WWTP 000002 Solids TSS MG/L	002 BYPASS OCCUR NUMBER Daily	000002 OVRFL MGD	002 BOD Carb 5 MG/L Daily	002 OVRFLWD Duration Hours	Rainfall	Receiving Stream
1/12/2018	55.1	1	3.50	21.60	8.77	0.57	Ottawa River
2/15/2018	270.0	1	4.67	87.00	8.09	0.04	Ottawa River
2/16/2018		1	1.35		12.31	0.67	Ottawa River
2/19/2018		1	13.12		16.00	0.29	Ottawa River
2/20/2018		1	1.27		12.84	0.76	Ottawa River
2/21/2018		1	11.57		17.60	0.39	Ottawa River
2/22/2018		1	10.91		24.00	0.55	Ottawa River
2/23/2018		1	0.92		12.21	0.09	Ottawa River
2/24/2018		1	8.35		17.40	0.19	Ottawa River
2/25/2018		1	13.89		24.00	0.39	Ottawa River
2/26/2018		1	0.22		9.10	0.00	Ottawa River
3/1/2018	143.2	1	20.90	42.00	14.31	0.27	Ottawa River
3/2/2018		1	6.83		22.81	1.05	Ottawa River
3/27/2018		1	0.36		1.72	0.10	Ottawa River
3/29/2018		1	23.71		11.74	0.16	Ottawa River
3/30/2018		1	7.21		24.00	1.28	Ottawa River
3/31/2018		1	0.01		1.75	0.01	Ottawa River
4/3/2018		1	33.47	22.00	15.48	0.60	Ottawa River
4/4/2018		1	0.07		1.20	1.60	Ottawa River
4/5/2018		1	0.06		1.99	0.01	Ottawa River
4/14/2018		1	0.36		3.03	0.00	Ottawa River
4/15/2018		1	8.88		20.14	0.88	Ottawa River
4/16/2018		1	0.33		11.68	0.30	Ottawa River
5/30/2018	152.1	1	0.43	84.00	1.37	0.00	Ottawa River
6/5/2018	615.0	1	1.55	210.00	3.90	0.00	Ottawa River
6/8/2018		1	0.05		0.52	0.00	Ottawa River
6/9/2018		1	9.52		11.85	0.25	Ottawa River
6/10/2018		1	0.83		4.35	1.33	Ottawa River
6/19/2018		1	8.98		6.26	0.47	Ottawa River
6/21/2018		1	15.73		8.27	0.31	Ottawa River
6/22/2018		1	26.93		24.00	1.81	Ottawa River
6/23/2018		1	11.81		18.18	1.23	Ottawa River
6/24/2018		1	0.03		1.01	0.07	Ottawa River
6/27/2018		1	4.49		7.16	0.72	Ottawa River
7/16/2018		1	5.38		4.41	0.00	Ottawa River
7/31/2018	187.7	1	4.53	36.80	3.21	0.13	Ottawa River
8/16/2018		1	1.04		1.88	0.69	Ottawa River
8/17/2018	505.5	1	3.79	47.50	2.71	0.11	Ottawa River
8/21/2018		1	2.72		4.79	0.57	Ottawa River
8/25/2018		1	0.18		1.10	0.00	Ottawa River
9/6/2018		1	13.34		5.63	0.00	Ottawa River
9/19/2018		1	1.43		1.52	0.37	Ottawa River
9/26/2018		1	0.70		2.21	0.83	Ottawa River
10/5/2018	436.3	1	4.47	59.40	4.72	0.00	Ottawa River
10/6/2018		1	0.64		1.94	1.35	Ottawa River
10/7/2018		1	0.25		1.22	0.98	Ottawa River
10/28/2018		1	3.36		6.15	0.70	Ottawa River
11/1/2018	51.2	1	12.19	26.30	15.89	0.68	Ottawa River
11/26/2018		1	17.16		15.19	0.50	Ottawa River
12/1/2018	258	1	17.50	53.00	11.81	0.00	Ottawa River
12/2/2018		1	2.62		3.87	0.68	Ottawa River
12/20/2018		1	0.79		1.56	0.04	Ottawa River
12/21/2018		1	8.34		14.59	0.70	Ottawa River
12/31/2018		1	21.66		9.97	0.06	Ottawa River
Sum		54	374		493		

Heindel Control Structure # 003

DMR 003 Daily 1/1/2018 - 12/31/2018	003 Solids TSS mg/L	003 Bypass Occurance Number	003 Flow MGD	003 BOD Carb 5 mg/L	003 Duration Hours	Rainfall	Receiving Stream
1/12/2018	136.4	1	0.76		9.06	0.57	Ottawa River
2/15/2018	309.2	1	1.01	150.00	8.02	0.04	Ottawa River
2/16/2018		1	0.13		11.66	0.67	Ottawa River
2/19/2018		1	2.95		15.97	0.29	Ottawa River
2/20/2018		1	0.05		7.30	0.76	Ottawa River
2/21/2018		1	2.73		17.61	0.39	Ottawa River
2/22/2018		1	2.26		24.00	0.55	Ottawa River
2/23/2018		1	0.08		16.61	0.09	Ottawa River
2/24/2018		1	1.89		17.28	0.19	Ottawa River
2/25/2018		1	4.43		22.90	0.39	Ottawa River
2/26/2018		1	0.04		8.47	0.00	Ottawa River
3/1/2018	96.0	1	9.45	56.00	14.31	0.27	Ottawa River
3/2/2018		1	3.53		23.99	1.05	Ottawa River
3/3/2018		1	0.00		0.62	0.02	Ottawa River
3/27/2018		1	0.31		3.13	0.10	Ottawa River
3/29/2018		1	11.13		11.83	0.16	Ottawa River
3/30/2018		1	4.01		23.73	1.28	Ottawa River
3/31/2018		1	0.03		4.09	0.01	Ottawa River
4/3/2018	97.2	1	19.87	22.00	18.05	0.60	Ottawa River
4/4/2018		1	7.91		9.55	1.60	Ottawa River
4/14/2018		1	0.10		3.03	0.00	Ottawa River
4/15/2018		1	2.86		20.15	0.88	Ottawa River
4/16/2018		1	0.08		11.20	0.30	Ottawa River
5/30/2018	247.5	1	0.18		1.41	0.00	Ottawa River
6/5/2018	588.3	1	0.73	310.00	3.91	0.00	Ottawa River
6/8/2018		1	0.03		0.53	0.00	Ottawa River
6/9/2018		1	3.96		12.08	0.25	Ottawa River
6/10/2018		1	0.24		4.32	1.33	Ottawa River
6/19/2018		1	3.90		6.30	0.47	Ottawa River
6/21/2018		1	5.95		8.29	0.31	Ottawa River
6/22/2018		1	10.53		24.00	1.81	Ottawa River
6/23/2018		1	5.58		11.25	1.23	Ottawa River
6/24/2018		1	5.96		0.31	0.07	Ottawa River
6/27/2018		1	2.10		7.20	0.72	Ottawa River
7/16/2018		1	2.51		4.29	0.00	Ottawa River
7/31/2018	194.3	1	2.02	38.50	3.22	0.13	Ottawa River
8/16/2018		1	0.47		1.90	0.69	Ottawa River
8/17/2018	674.6	1	1.58	180.00	2.78	0.11	Ottawa River
8/21/2018		1	1.10		5.01	0.57	Ottawa River
8/25/2018		1	0.05		1.11	0.00	Ottawa River
9/6/2018		1	20.75		6.62	0.00	Ottawa River
9/7/2018		1	1.78		9.66	2.10	Ottawa River
9/9/2018		1	0.35		7.11	0.66	Ottawa River
9/19/2018		1	0.69		2.30	0.37	Ottawa River
9/26/2018		1	2.91		5.92	0.83	Ottawa River
10/5/2018	352.3	1	9.05	53.10	9.76	0.00	Ottawa River
10/6/2018		1	0.05		1.50	1.35	Ottawa River
10/7/2018		1	0.12		1.78	0.98	Ottawa River
10/28/2018		1	3.99		7.73	0.70	Ottawa River
11/1/2018	52.8	1	30.25	55.00	20.80	0.66	Ottawa River
11/2/2018		1	30.52		23.81	1.66	Ottawa River
11/3/2018		1	1.46		3.89	0.07	Ottawa River
11/26/2018		1	2.99		17.74	0.50	Ottawa River
11/27/2018		1	0.02		1.40	0.25	Ottawa River
12/1/2018	186.0	1	6.08	47.30	11.89	0.00	Ottawa River
12/2/2018		1	0.82		7.09	0.68	Ottawa River
12/20/2018		1	0.58		1.57	0.04	Ottawa River
12/21/2018		1	6.36		14.44	0.70	Ottawa River
12/31/2018		1	18.12		9.97	0.06	Ottawa River
Sum		59	259		566		

McDonel Control Structure # 004

DMR 004 Daily 1/1/2018 - 12/31/2018	000004 Solids TSS MG/L Daily	000004 BYPASS OCCUR NUMBER Daily	000004 OVRFLQC MGD	000004 BOD mg/L Daily	004 Duration Hours	Rainfall	Receiving Stream
2/15/2018		1	0.02		0.33	0.04	Ottawa River
2/16/2018		1	0.12			0.67	Ottawa River
2/19/2018	177.3	1	0.17	38	1.05	0.29	Ottawa River
2/24/2018		1	0.23		1.00	0.19	Ottawa River
2/25/2018		1	0.81		1.71	0.39	Ottawa River
3/1/2018	90.1	1	1.19	AA 66.7	2.00	0.27	Ottawa River
3/29/2018		1	3.51		6.73	0.16	Ottawa River
4/3/2018	212.2	1	6.72	30	10.43	0.60	Ottawa River
4/15/2018		1	0.00		0.09	0.88	Ottawa River
6/9/2018	109.3	1	1.44	21.1	2.22	0.25	Ottawa River
6/19/2018		1	2.53		1.46	0.47	Ottawa River
6/21/2018		1	69.97		8.41	0.31	Ottawa River
6/22/2018		1	112.65		17.87	1.81	Ottawa River
6/23/2018		1	112.65		17.87	1.23	Ottawa River
6/24/2018		1	112.65		17.87	0.07	Ottawa River
6/27/2018		1	0.73		0.98	0.72	Ottawa River
7/16/2018		1	1.82		1.05	0.00	Ottawa River
7/31/2018		1	0.45		0.76	0.13	Ottawa River
8/17/2018	459.5	1	0.55	52	0.74	0.11	Ottawa River
8/21/2018		1	0.02		0.16	0.57	Ottawa River
9/6/2018	118.8	1	17.87	AA 10.0	6.30	0.00	Ottawa River
9/26/2018		1	0.73		1.04	0.83	Ottawa River
10/5/2018	268.3	1	3.40	51.3	3.14	0.00	Ottawa River
10/28/2018		1	0.69		1.73	0.70	Ottawa River
10/31/2018		1	0.02		0.00	0.00	Ottawa River
11/1/2018	43.7	1	90.29	20.3	12.55	0.68	Ottawa River
11/2/2018		1	157.92		24.00	1.66	Ottawa River
11/3/2018		1	24.37		8.24	0.07	Ottawa River
11/26/2018		1	85.47		21.46	0.50	Ottawa River
11/27/2018		1	12.93		8.28	0.25	Ottawa River
12/1/2018	147	1	55.48	38.4	11.96	0.00	Ottawa River
12/2/2018		1	36.57		12.90	0.68	Ottawa River
12/20/2018		1	6.09		1.96	0.04	Ottawa River
12/21/2018		1	72.96		20.14	0.70	Ottawa River
12/31/2018		1	61.90		11.30	0.06	Ottawa River
Sum		36	1055		238		

Central Control Structure # 005

DMR 005 Daily 1/1/2018 - 12/31/2018	000005 Solids TSS MG/L Daily	000005 BYPASS OCCUR NUMBER Daily	000005 OVRFLQC MGD	000005 BOD Carb 5 MG/L Daily	005 Duration Hours	Rainfall	Receiving Stream
2/25/2018		1	0.16		0.88	0.39	Ottawa River
3/1/2018	197.20	1	0.18	AA 66.7	0.70	0.27	Ottawa River
3/29/2018		1	2.03		4.16	0.16	Ottawa River
4/3/2018	135.00	1	4.16	22.00	5.94	0.60	Ottawa River
6/9/2018		1	0.56		1.25	0.25	Ottawa River
6/19/2018		1	2.89		1.15	0.47	Ottawa River
6/21/2018	217.80	1	1.10	30.10	1.05	0.31	Ottawa River
6/22/2018		1	2.14		3.68	1.81	Ottawa River
6/27/2018		1	0.48		0.59	0.72	Ottawa River
7/16/2018		1	1.40		0.70	0.00	Ottawa River
7/31/2018		1	0.08		0.31	0.13	Ottawa River
8/17/2018		1	0.33		0.46	0.11	Ottawa River
9/6/2018	179.40	1	25.46	AA 15.0	4.95	0.00	Ottawa River
9/26/2018		1	0.64		0.61	0.83	Ottawa River
10/5/2018	155.60	1	2.45	25.10	2.30	0.00	Ottawa River
10/28/2018		1	0.00		0.27	0.70	Ottawa River
11/1/2018	46.20	1	2.88	18.00	10.44	0.68	Ottawa River
12/31/2018	158.00	1	3.15	39.60	4.31	0.06	Ottawa River
Sum		18	50		44		

Lovers Lane Control Structure # 006

DMR 006 Daily 1/1/2018 - 12/31/2018	000006 Solids TSS MG/L Daily	000006 BYPASS OCCUR NUMBER Daily	000006 OVRFLQC MGD	000006 BOD Carb 5 MG/L Daily	006 Duration Hours	Rainfall	Receiving Stream
1/12/2018	30.90	1	0.16	36.50	0.58	0.57	Ottawa River
1/18/2018		1	7.44		0.95	0.00	Ottawa River
1/19/2018		1	0.46		0.06	0.00	Ottawa River
2/19/2018	92.50	1	0.07	15.00	0.44	0.29	Ottawa River
3/1/2018	47.30	1	1.44	42.60	8.82	0.27	Ottawa River
3/29/2018		1	0.03		0.74	0.16	Ottawa River
4/3/2018	88.30	1	0.37	27.00	2.98	0.60	Ottawa River
6/9/2018		1	0.07		0.36	0.25	Ottawa River
6/19/2018		1	1.90		0.78	0.47	Ottawa River
6/21/2018		1	0.22		0.37	0.31	Ottawa River
6/22/2018		1	0.51		1.83	1.81	Ottawa River
6/27/2018		1	0.08		0.25	0.72	Ottawa River
7/16/2018		1	0.25		0.28	0.00	Ottawa River
8/17/2018		1	0.00		0.04	0.11	Ottawa River
9/6/2018	139.10	1	13.34	14.30	3.14	0.00	Ottawa River
9/26/2018		1	0.10		0.22	0.83	Ottawa River
10/5/2018		1	0.07		0.45	0.00	Ottawa River
Sum		18	1214		174		

S. Central & Ottawa River - # 007							
Daily 1/1/2018 - 12/31/2018	Solids TSS MG/L Daily	BYPASS OCCUR NUMBER Daily	OVRFLQC MGD ESTIMATED	BOD Carb 5 MG/L Daily	Duration Hours	Rainfall	Receiving Stream
2/16/2018		1				0.67	Ottawa River
6/10/2018		1				1.33	Ottawa River
7/17/2018		1				1.41	Ottawa River
8/19/2018		1				0.56	Ottawa River
8/21/2018		1				0.57	Ottawa River
9/10/2018		1				0.30	Ottawa River
9/26/2018		1				0.83	Ottawa River
10/7/2018		1				0.98	Ottawa River
10/29/2018		1				0.85	Ottawa River
11/2/2018		1	3.76			1.66	Ottawa River
12/31/2018		1	0.75			1.26	Ottawa River
Totals =		11	4.51				

Timberlake & Ottawa River - # 008							
Daily 1/1/2018 - 12/31/2018	Solids TSS MG/L Daily	BYPASS OCCUR NUMBER Daily	OVRFLQC MGD ESTIMATED	BOD Carb 5 MG/L Daily	Duration Hours	Rainfall	Receiving Stream
6/22/2018		1				1.81	Ottawa River
11/27/2018		1				0.25	Ottawa River
12/2/2018		1				0.68	Ottawa River
12/21/2018		1	1.78			0.70	Ottawa River
Totals =		4	1.78				

Oxford & Collett - # 009							
Daily 1/1/2018 - 12/31/2018	Solids TSS MG/L Daily	BYPASS OCCUR NUMBER Daily	OVRFLQC MGD ESTIMATED	BOD Carb 5 MG/L Daily	Duration Hours	Rainfall	Receiving Stream
1/28/2018		1				0.36	Ottawa River
9/25/2018		1				0.31	Ottawa River
9/26/2018		1				0.83	Ottawa River
Totals =		3					

Burch & O'Connor - # 011							
Daily 1/1/2018 - 12/31/2018	Solids TSS MG/L Daily	BYPASS OCCUR NUMBER Daily	OVRFLQC MGD ESTIMATED	BOD Carb 5 MG/L Daily	Duration Hours	Rainfall	Receiving Stream
Totals =		0					

McDonel & O'Connor - # 012							
Daily 1/1/2018 - 12/31/2018	Solids TSS MG/L Daily	BYPASS OCCUR NUMBER Daily	OVRFLQC MGD ESTIMATED	BOD Carb 5 MG/L Daily	Duration Hours	Rainfall	Receiving Stream
6/14/2018		1				0.47	Pike Run Ditch
9/10/2018		1				0.30	Pike Run Ditch
Totals =		2					

Metcalf & O'Connor - # 013							
Daily 1/1/2018 - 12/31/2018	Solids TSS MG/L Daily	BYPASS OCCUR NUMBER Daily	OVRFLQC MGD ESTIMATED	BOD Carb 5 MG/L Daily	Duration Hours	Rainfall	Receiving Stream
5/16/2018		1				0.44	Pike Run Ditch
6/21/2018		1				0.31	Pike Run Ditch
Totals =		2					

Metcalf & Tremont - # 014							
Daily 1/1/2018 - 12/31/2018	Solids TSS MG/L Daily	BYPASS OCCUR NUMBER Daily	OVRFLQC MGD ESTIMATED	BOD Carb 5 MG/L Daily	Duration Hours	Rainfall	Receiving Stream
1/28/2018		1				0.36	Pike Run Ditch
2/16/2018		1				0.67	Pike Run Ditch
3/1/2018		1				0.27	Pike Run Ditch
6/14/2018		1				0.47	Pike Run Ditch
8/7/2018		1				0.43	Pike Run Ditch
8/11/2018		1				0.28	Pike Run Ditch
9/10/2018		1				0.30	Pike Run Ditch
11/2/2018		1				1.66	Pike Run Ditch
Totals =		8					

Metcalf & Runyan - # 015							
Daily 1/1/2018 - 12/31/2018	Solids TSS MG/L Daily	BYPASS OCCUR NUMBER Daily	OVRFLQC MGD ESTIMATED	BOD Carb 5 MG/L Daily	Duration Hours	Rainfall	Receiving Stream
7/17/2018		1				1.41	Pike Run Ditch
12/31/2018		1	0.75			1.26	Pike Run Ditch
Totals =		2	0.75				

Metcalf & Ashton - # 016							
Daily 1/1/2018 - 12/31/2018	Solids TSS MG/L Daily	BYPASS OCCUR NUMBER Daily	OVRFLQC MGD ESTIMATED	BOD Carb 5 MG/L Daily	Duration Hours	Rainfall	Receiving Stream
6/14/2018		1				0.47	Pike Run Ditch
9/10/2018		1				0.30	Pike Run Ditch
Totals =		2	0				

627 S. Nixon St. - # 033							
Daily 1/1/2018 - 12/31/2018	Solids TSS MG/L Daily	BYPASS OCCUR NUMBER Daily	OVRFLQC MGD ESTIMATED	BOD Carb 5 MG/L Daily	Duration Hours	Rainfall	Receiving Stream
1/13/2018		1				0.39	Ottawa River
7/17/2018		1				1.41	Ottawa River
9/10/2018		1				0.30	Ottawa River
10/29/2018		1				0.85	Ottawa River
Totals =		4	0				

701 Judkins Ave. - # 034							
Daily 1/1/2018 - 12/31/2018	Solids TSS MG/L Daily	BYPASS OCCUR NUMBER Daily	OVRFLQC MGD ESTIMATED	BOD Carb 5 MG/L Daily	Duration Hours	Rainfall	Receiving Stream
10/29/2018		1				0.85	Ottawa River
Totals =		1	0				

Lakewood & Charles - # 035							
Daily 1/1/2018 - 12/31/2018	Solids TSS MG/L Daily	BYPASS OCCUR NUMBER Daily	OVRFLQC MGD ESTIMATED	BOD Carb 5 MG/L Daily	Duration Hours	Rainfall	Receiving Stream
1/28/2018		1				0.36	Ottawa River
8/19/2018		1				0.56	Ottawa River
8/21/2018		1				0.57	Ottawa River
9/10/2018		1				0.30	Ottawa River
11/16/2018		1				0.29	Ottawa River
Totals =		5	0				

Northshore Drive at Diamond #3 Backstop - # 037							
Daily 1/1/2018 - 12/31/2018	Solids TSS MG/L Daily	BYPASS OCCUR NUMBER Daily	OVRFLQC MGD ESTIMATED	BOD Carb 5 MG/L Daily	Duration Hours	Rainfall	Receiving Stream
3/1/2018		1				0.27	Ottawa River
3/29/2018		1				0.65	Ottawa River
4/4/2018		1				1.60	Ottawa River
8/19/2018		1				0.56	Ottawa River
12/31/2018		1	0.75			1.26	Ottawa River
Totals =		5	0.75				

West & O'Connor Ave - # 038							
Daily 1/1/2018 - 12/31/2018	Solids TSS MG/L Daily	BYPASS OCCUR NUMBER Daily	OVRFLQC MGD ESTIMATED	BOD Carb 5 MG/L Daily	Duration Hours	Rainfall	Receiving Stream
Totals =		0	0				

Summary of Nine Minimum Controls Implementation:

1. Proper operation and regular maintenance programs for the sewer system and CSOs.

Lima's Utility Field Services department operates and maintains nearly 252 miles of sanitary sewers. Combined sewers account for 60% of that total, with 40% being separated. In addition, the WWTP maintains 32 lift stations located throughout the service area. The City submitted a CMOM Plan document to OEPA & USEPA on July 31, 2018. On 3/1/2019, Lima received approval of the plan by USEPA/OEPA with a requirement to implement the plan within 30 days. That plan has been implemented and regular progress reports are being submitted.

Lima also submitted a revised CSO Operational Plan on July 31, 2018 to the USEPA and OEPA. Lima received approval of the plan by USEPA/OEPA on 3/1/19 with a requirement to implement the plan immediately. That plan has been implemented and regular progress reports are being submitted.

Full detail of each program can be found in the respective submittals.

2. Review and modification of pretreatment requirements to assure CSO impacts are minimized.

Lima has an approved Pretreatment Program. Agreements are in place with industries that batch discharge to limit their discharges during storm events or when notified by the City of surcharge conditions in the sewer system. The Local Limits were recently re-evaluated as required by the current NPDES permit (2PE00000*ND) and submitted to OEPA on February 1, 2019. Lima is currently awaiting a response to the proposed limits.

3. Provide the maximum use of the collection system for storage of wet-weather flow prior to allowing overflows.

Lima continues to rehabilitate large diameter sewers that play a part in the upstream storage strategy employed by the WWTP. The current Phase 1 project is being conducted on High Street and Jameson Avenue where 1,800 feet of 54" mainline and 430 feet of 78" mainline are being lined with a HDPE product to provide structural integrity and improve flow efficiency. Design is underway on a Phase 2 project to rehabilitate another 2,400 feet of 78" mainline.

The City is currently in the second year of a 3-year project to construct a 13-million gallon CSO storage basin. This project is on target to be completed in 2020 at a cost of \$40M --- the most expensive capital project ever undertaken by the City of Lima. The basin is designed to help control peak wet-weather flow and reduce overflow to the Ottawa River.

Additionally, as part of the CSO storage basin project, new stainless steel gates and stem guides are being installed on the three underground control structures that help regulate upstream storage.

4. Maximize flows to the WWTP for treatment.

Lima's WWTP completed a Headworks project in 2018 that increased the wet-weather capacity of the plant from 53MGD to 70MGD. Testing is currently underway to determine an effective strategy to seed the nitrification towers for high-rate treatment during peak flow periods.

5. Prohibition of CSOs during dry weather.

Lima did not have any dry weather overflows in the reporting period.

6. Control of solid and floatable material in CSOs.

Lima's Public Works Department has the responsibility to maintain catch basins on city streets. All catch basins are scheduled to be cleaned at least once per year. The five main CSO structures located on the Ottawa River, which account for approximately 98% of the annual CSO discharge by volume, are equipped with automatically activated fine screens.

7. Pollution prevention.

The City implements a leaf-and-brush pick-up program between the months of October and December. Bagged leaf and yard waste are accepted by resident drop-off year-round. The City also operates street cleaning equipment throughout the city, with areas cleaned, at minimum, once per month.

8. Public Notification to ensure that the public receives adequate notification of CSO occurrences and CSO impacts.

Monthly reports of CSO discharge have been available to the public on the City's webpage for many years. However with the new CSO reporting policy in effect, a 4-Hour notification is now being posted immediately upon becoming aware of a discharge. A more detailed 7-Day Supplemental Notification will also be posted as soon as possible after each event. The same reports are also forwarded to the Allen County Health Department. Additional data (volume, sample analysis, etc.) on the overflows will now be available on the same webpage as part of the annual CSO Notification Report at the following link:

<http://www.cityhall.lima.oh.us/410/CSO-Activity-Report>

The City has no designated public access sites to the river in the CSO impacted areas. However there is a public bike path that follows the south shore of the river. The bike path has areas which are closed to the public during periods of high water, often associated with heavy rainfall. Those periods usually coincide with discharges from the City's CSO structures. It is possible for the public to access the river bank for fishing or canoeing/kayaking in many undesignated areas. The City has large CSO identification signs visible from the river warning of the dangers of an active CSO.

9. Monitoring to effectively characterize CSO impacts and the efficacy of CSO controls.

The City continues to monitor and sample its CSOs according to the requirements defined in the permittee's NPDES permit (2PEO0000*ND), effective August 1, 2018.

Summary of Long Term Control Plan:

Lima's approved LTCP has three main components related to WWTP improvements, CSO system components and SSO system components to be completed over a 26 year implementation schedule.

The WWTP improvements were completed in 2018, which included adding four new grit tanks, four new primary tanks, expansion of the screening facility and replacement of aging critical equipment. The rehabilitation of the twin 54" interceptor sewers that convey flow to the plant via the Baxter Street Pump Station has also been completed. The plant is now in position to treat peak wet-weather flows up to 70 MGD. Testing is underway.

The majority of the CSO improvements are focused on the construction of the 13 MG storage basin at Simmons Field. As noted previously in this report, that project is currently in the 2nd year of a 3-year schedule. It is on time for a completion date in 2020.

The SSO system improvements are scheduled to begin after completion and testing of the storage basin, retirement of some existing debt and a possible re-evaluation of the affordability index. SSO improvements will include the upsizing of existing lift stations and force mains, along with site specific retention facilities.

The goal of the LTCP is to reduce the current average of 45 CSOs per year to no more than 5 in a typical year.