

# NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF WATER COMBINED SEWER OVERFLOWS ANNUAL REPORT

**PART I. GENERAL INSTRUCTIONS:** The Combined Sewer Overflows (CSO) Annual Report is consistent with the EPA CSO Long-Term Control Policy requiring permitting authorities to report "Measures of Success" of the policy implementation. Hence, the goal of this report is to obtain information regarding:

- 1. Compliance with the 15 CSO Best Management Practices;
- 2. The condition and operation of the combine sewer system (CSS) components. Most importantly, the end-of-pipe measures that show trends in the discharge of CSS flows to the receiving water body, such as reduction of pollutant loadings, the frequency of CSOs, and the duration of CSOs;
- 3. Receiving water body measures that show trends of the conditions in the water body to which the CSO occurs;
- 4. Overall status of the CSO LTCP, if applicable;
- 5. Key CSO control accomplishments and design and construction progress in the previous year

Permittee must complete ALL parts of the form and must attach all supporting documents. Please be aware that this annual report form template highlights the minimum requirement a permittee is expected to submit. Permittee is obligated to complete abatement activities to ensure compliance with the Clean Water Act. This report is also consistent with NYS 6 NYCRR 750-2.1(i).

### **Special Instructions:**

- 1. Multiple permittees (for instance NYC and Albany Pool) responsible to develop a single LTCP can submit one form and also complete Section D of this form.
- 2. ALL SECTIONS OF THIS REPORT MUST BE COMPLETED.

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PERMITTEE NAME:	1			NY-0028410	PAGE   <b>1</b>
			Part II - CSO LTCP Control Information	•	
CSO Facility:Bird	Islar	nd Se	wage Treatment Plant	Flow:	180.00мдр
SECTION A: CSO	LTCP	GENE	RAL INFORMATION		
LTCP Developmen	ıt/lm	pleme			
Check all that app	oly:		Describe other controls currently being used or planned. Also describe l Control Policy have been met.	how the objective	s of the CSO
In Development			The Buffalo Sewer Authority's Long Term Control Plan was appro 2014 and is scheduled for completion on March 18, 2034.	ved by the EPA	on March 18,
Submitted			2014 and is scrieduled for completion on March 16, 2034.		2
Approved		<b>√</b>			
In Progress	į	✓			
Completed	Ī				
Not Required					
CSO Controls:					
Check all that app	oly:		Describe other controls currently being used or planned. Also describe leads to control Policy have been met under the selected controls	how the objective	s of the CSO
Source Controls	[-	<b>√</b>	The Buffalo Sewer Authority's Long Term Control Plan was appro incorporates gray infrastructure projects such as weir raising, a flo		
Collection System Controls		<b>√</b>	relief sewer, in-line storage facilities, CSO in-line storage facilities	, upgrades to th	e existing
Storage Technologies		1	wastewater treatment plant (WWTP) and off-line storage facilities projects such as removal of impervious surfaces, permeable pave		
Treatment			facilities.	*	
Technologies		<b>✓</b>			1
Floatable	Γ	<b>✓</b>			
Controls  Disinfection					
Type:					
туре.	-				
Post-Construction	<u>Com</u>	plian	ce Monitoring (PCCM) Program:		
Check all that app			Describe PCCM findings, status, updates, and future plan. Attach a separ describe if the PCCM confirms that LTCP is meeting the t objectives of the		
In Development	Γ		The Buffalo Sewer Authority's Post Construction Monitoring Plan wa		
Submitted	Ī				,
Approved	<u></u>	<b>V</b>			
in Progress					×
Completed	- 7	7			9 8 <b>3</b>

Not Required

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# SPDES PERI Part II - CSO LTCP Control Information

# **SECTION B: OUTFALL INFORMATION**

List all existing and active CSO the outfalls. Attach extra sheets, if necessary.

Outfall #	Latitude	Longitude	Receiving Water/Classification	# of Regulators Associated with this Outfall	Type of Regulator(s) Associated with this Outfall (Fixed Dam, Float / Dynamic, Elevated Pipe, Wet Well Overflow, etc.)
003	42.9372	-78.9072	Black Rock Canal/C	11	Weir & Orifice
004	42.9261	-78.8992	Black Rock Canal/C	1	Leaping Weir
005	42.9242	-78.8908	Black Rock Canal/C	2	Elevated Pipe
006	42.9222	-78.8914	Black Rock Canal/C	7	Weir & Orifice
007	42.9222	-78.9222	Black Rock Canal/C	1	Weir & Orifice
008	42.9208	-78.9000	Black Rock Canal/C	1	Leaping Weir
009	42.9189	-78.9008	Black Rock Canal/C	1	Leaping Weir
010	42.9172	-78.9014	Black Rock Canal/C	1	Leaping Weir
011	42.9136	-78.9033	Niagara River/A-Special	1	Weir & Orifice
012	42.9133	-78.9019	Black Rock Canal/C	1	Weir & Orifice
013	42.8889	-78.8936	Buffalo Inner Harbor/C	1	Weir & Orifice
014	42.8836	-78.8867	Erie Basin/C	2	Weir
015	42.8828	-78.8853	Erie Basin/C	2	Leaping Weir
016	42.8819	<i>-</i> 78.8825	Erie Basin/C	2	Weir & Orifice
017	42.8772	-78.8797	Buffalo River/C	20	Weir, Orifice, Elevated Pipe
022	42.8731	-78.8747	Buffalo River/C	4	Weir, High Pt. Sewer, Elevated Pipe
023	42.8669	-78.8681	Buffalo River/C	1	Weir
025	42.8642	-78.8603	Buffalo River/C	1	Weir
026	42.8636	-78.8508	Buffalo River/C	45	RTC, Weirs & Leaping Weir
027	42.8633	-78.8378	Buffalo River/C	1	Weir & Orifice
028	42.8606	-78.8322	Buffalo River/C	7	Weirs & Elevated Pipe
029	42.8606	-78.8322	Buffalo River/C	3	Weir & Orifice
031	42.8603	-78.8247	Cazenovia Creek/C	1	Weir
032	42.8619	-78.8264	Buffalo River/C	1	Leaping Weir
033	42.8633	-78.8258	Buffalo River/C	5	Leaping Weir

# Part II - CSO LTCP Control Information

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List all existing and active CSO the outfalls. Attach extra sheets, if necessary.

Outfall #	Latitude	Longitude	Receiving Water/Classification	# of Regulators Associated with this Outfall	Type of Regulator(s) Associated with this Outfall (Fixed Dam, Float / Dynamic, Elevated Pipe, Wet Well Overflow, etc.)
035	42.8506	-78.8086	Cazenovia Creek/B	2	Weir & Orifice
037	42.8525	-78.8114	Cazenovia Creek/C	1	Weir
038	42.8528	-78.8111	Cazenovia Creek/C	3	Weir
039	42.8536	-78.8128	Cazenovia Creek/C	1	Leaping Weir
040	42.8542	-78.8128	Cazenovia Creek/C	1	Weir
042	42.8553	-78.8142	Cazenovia Creek/C	3	Weir & Elevated Pipe
044	42.8575	-78.8183	Cazenovia Creek/C	4	Leaping Weir
046	42.8589	-78.8203	Cazenovia Creek/C	1	Leaping Weir
047	42.8597	-78.8228	Cazenovia Creek/C	5	Weir
048	42.8606	-78.8247	Cazenovia Creek/C	2	Weir & Orifice
049	42.8617	-78.8267	Buffalo River/C	1	Weir & Orifice
050	42.8556	-78.8211	Buffalo River/C	. 1	Weir & Orifice
051	42.8619	-78.8106	Buffalo River/C	1	Weir & Orifice
052	42.8650	-78.8022	Buffalo River/C	2	Weir & Orifice
053	42.9239	-78.8572	Scajaquada Creek/A	42	Weir & Orifice
054	42.9519	-78.9100	Niagara River/A-Special	7	Weir
055	42.9431	-79.9097	Niagara River (Cornelius Creek)	1	Weir
056	42.9350	-78.8775	Scajaquada Creek/A	2	Weir
057	42.9286	-78.8978	Scajaquada Creek/A	1	Weir
058	42.9303	-78.8958	Scajaquada Creek/A	3	Weir
059	42.9308	-78.8942	Scajaquada Creek/A	3	Weir
060	42.9344	-78.8783	Scajaquada Creek/A	12	Weir
061	42.9208	-78.9003	Black Rock Canal/C	1	Weir
062	42.9153	-78.9019	Black Rock Canal/C	1	Weir
063	42.9028	-78.9019	Black Rock Canal/C	1	Weir

# Part II - CSO LTCP Control Information

# **SECTION B: OUTFALL INFORMATION**

List all existing and active CSO the outfalls. Attach extra sheets, if necessary.

Outfall #	Latitude	Longitude	Receiving Water/Classification	# of Regulators Associated with this Outfall	Type of Regulator(s) Associated with this Outfall (Fixed Dam, Float / Dynamic, Elevated Pipe, Wet Well Overflow, etc.)
064	42.8517	-78.8683	Buffalo River/C	7	Weir
065	42.8558	-78.8225	Buffalo River/C	9	Weir
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Permittee Name:

SPDES Permit No.: Part II - CSO LTCP Control Information

SECTIC	ON C: CSO EVE	ENTS, DISCH	ARGE VOLUIN	IE, ETC. Provi	de an estimat	e or actual d	ata on overfloo	w events. If ne	SECTION C: CSO EVENTS, DISCHARGE VOLUME, ETC. Provide an estimate or actual data on overflow events. If necessary, use a separate spreadsheet to report all CSO outfalls
	No. of overflow events in the previous year	ow events in	Total Annual CSO Volume Discharged (MG)	Total Annual CSO ume Discharged (MG)	Total Annual Volume Captured or Diverted to POTW (MG) Assuming a Baseline Condition of 0.0 MG	al Volume ir Diverted V (MG) Baseline of 0.0 MG	# of CSO	# of CSO Outfalls	Indicate Type of Overflow Measurements (e.g. metered, estimated or modeled). If other, please describe
CSO	Baseline**	Current***	Baseline**	Current***	Baseline**	Current	Baseline**	Current***	
933	27	7	4.5	3.24	0	1.3	1	1	All flow volumes and event frequencies in this table represent the
904		11	16.2	8.85	0	7.4	1	1	predicted combined sewer overflows only (excluding stormwater
902		0	0.1	0	0	0.1	1	-	and stream inflows) utilizing the combined system model from
900	65	39	189.5	42.57	0	146.9	÷	1	the approved Long 1erm Control Plan. Values for baseline
*400	0	8	0	0.53	0	-0.5	-	-	conditions are based on the Modified 1993 Typical Tear
800	44	0	8.2	0	0	8.2	-	-	riedpitatori and use tile Original zo 14 moder. Current Communis
*600		0	0	0	0	0.0	-	·	conformance with the Administrative Order and design flows for
010		22	11.8	14.59	0	-2.8	1	-	the planned development at BiverBend with precipitation values
011	41	38	132.3	283.3	0	-151.0	1	7	hased on the annual precipitation at the NOAA station at the
012		39	71.2	100.76	0	-29.6	1	1	Buffalo Niagara International Airport and utilize the recalibrated
013	14	8	13.6	8.99	0	4.6	1	1	2019 model. Because two different precipitation data sets and
410		14	26.2	36.07	0	-9.9	1	-	models are being used, a true comparison of data is not
015		1	5.7	0.11	0	5.6	ļ	-	possible.
016		0	0.0	0	0	0.0	جب	ζ	
017		27	90.3	214.11	0	-123.8	<b>*</b>	7	
022		27	39.8	3.02	0	36.8	1	1	
023*		2	0	0.45	0	-0.5	1	1	
025	11	7.	1.4	3.29	0	-1.9	-	-	
026	,	6	142.7	80.17	0	62.5	-	-	
027		19	19.7	74.63	0	-54.9	-	~	
028	73	38	44.4	29.31	0	15.1	-	-	
029	L	15	0	15.08	0	-15.1	-	-	
031*		0	0	0	0	0.0	τ-	-	
032	0	0	0	0	0	0.0	1		
033		25	35.9	143.98	0	-108.1	1	+	
035	22	0	4.8	0	0	4.8	-	4-	
037		15	21.2	23.74	0	-2.5	~	-	
038		2	0	0.44	0	-0.4	-	-	
039	2	0	0	0	O	0.0	-	-	
040*		1	0	0.11	0	0.1	-	-	

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SECTION C: CSO EVENTS, DISCHARGE VOLUME, ETC. Provide an estimate or actual data on overflow events. If necessary, use a separate spreadsheet to report all CSO outfalls

010						THE REAL PROPERTY AND ADDRESS OF THE PERSON.	The state of the s		
	No. of overflow events in the previous year	w events in	Total Annual CSO Volume Discharged (Î	MG)	Total Annual Volume Captured or Diverted to POTW (MG) Assuming a Baseline Condition of 0.0 MG	otal Annual Volume saptured or Diverted to POTW (MG) issuming a Baseline	# of GSO Outfalls	Outfalls	Indicate Type of Overflow Measurements (e.g. metered, estimated or modeled). If other, please describe
CSO	Baseline**	Current***	Baseline**	Current***	Baseline**	Current	Baseline**	Current***	
042*	0	0	0	0	0	0.0	1	1	All flow volumes and event frequencies in this table represent the
4	15	8	. 6.5	1.65	0	4.9	1	1	predicted combined sewer overflows only (excluding stormwater
046	6	0	1.1	0	0	1.1	7	-	and stream inflows) utilizing the combined system model from
740	47	10	10.4	3.87	. 0	6.5	-	-	the approved Long I erm Control Plan. Values for baseline
048	14	0	1.5	0	0	1.5	1	1	conditions are based on the Modified 1993 Typical Year
049	0	0	0	0	0	0.0	1	1	Precipitation and use the original 2014 model. Current conditions
020	21	6	4.1	3.13	0	1.0	1	1	Tellect As-built Data for projects completed to date for
051	19	0	3.7	0	0	3.7	1	1	the planned development at Diverbend with precipitation values
052	12	0	13.6	0	0	13.6	1	1 1	hased on the annual precipitation at the NOAA station at the
053	65	39	275.0	504.97	0	-230.0	1	-	Buffalo Niagara International Airport and utilize the recalibrated
054	4	0	0.1	0	0	0.1	1	1	2019 model Because two different precipitation data sets and
055	40	36	617.8	1043.23	0	425.4	-	-	models are being used, a true comparison of data is not
020	5	0	0	0	0	0.0	1	-	possible.
057	11	0	0	0	. 0	0.3	1	-	
058	9	0	0	0.	0	0.0	-	1	
028	17	17	5	10.36	0	-5.3	-	-	
090	11	0	2.9	0	0	2.9	-	-	
961	11	0	34.0	0	0	34.0	1	-	
*290	0	0 .	0	0	0	0.0	-	1	
063	49	2	1.5	0.41	0	1.1	-	-	
064	99	27	26.2	15.61	0	10.6	-	-	
990	16	9	2.5	10.15	0	-7.7	1	1	
	1145	518	1,886	2,681	0	-794.9	. 25	52	
		1 - 1	A control dive	and the state of	Collinate all	des one ace	objects of charge	shores	

\*These CSOs were excluded from the model due to lack of hydraulic significance and negligible CSO discharge \*\* 2001 System Conditions with Modified 1993 Typical Year Precipitation Data

\*\*\* 2019 System Conditions with 2019 Precipitation Data as Reported at the NOAA station located at the Buffalo Niagara International Airport.

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## **SECTION D: Collection System Information**

	Baseline	After CSO BMP and/or LTCP Implementation	Current
Percentage of the collection system owned by the permittee that is combined.	93	93	93
Approximate no. of miles of combined sewers in the permittee owned system	790	790	790
Number of combined sewer outfalls in the permittee owned system	65	52	52
Average annual no. of CSO events in the permittee owned system	1145	117	518
Average annual CSO volume discharged from the permittee owned system (MG)	1886	486.3	2681
Population served by the permittee's owned system	292,648	261,310	256,304
Number of satellite system connections	7	7	7

Use the space below to provide any further relevant information on the collection system. This should include a description of any unique ownership, operation and maintenance agreements or further explanation and description of satellite system connections. (Attach extra sheets, if necessary):

Discharges to the Buffalo Sewer Authority's Combined Sewer System from satellite sanitary sewer districts are restricted through inter-municipal agreements, these values were utilized in constructing the flow model or the LTCP:

- 1. Town of Cheektowaga: 45 MGD
- 2. Erie County Sewer District #4: 20 MGD
- 3. Erie County Sewer District #1: 17.82 MGD
- 4. West Seneca Town Sewer Districts #5, 13, \* 14: 12.8 MGD
- 5. Village of Sloan: 5.18 MGD
- 6. West Seneca Town Sewer Districts #1, 2, 3, 4, 9, & 10: 3.49 MGD
- 7. West Seneca Town Sewer District #15: 0.39 MGD

PERMITTEE NAME:				SPDES PERMIT No.:	NY-OC	28410	PAGE   <b>2</b>
		Part II - CSO	LTCP Control In	_			
		escribe how the implement eceiving stream(s) and als					
solutions. The is to the environment in conducted a carefuniform level of CS established water receiving waters. receiving water bothe BSA's approventy bacteria WQS The frequency of approach. Following system will be pos Niagara River (les	he right approper the most afful analysis of SO control for quality stand. The evaluation of equation of the evaluation	rol Plan uses a careful boach for this community fordable and cost-effective detailed receiving streat all BSA receiving water and (WQS) in each water on results showed that the dot provide 100% attains was assembled with a part of the performance measuration of the Recommenduce less than or equal all to 9 events per year).	and although it is we manner possibum water quality mr bodies would be broody in large parties the knee of the curument of the New primary focus on pated frequency of rement corresponded Plan, based to 6 events per ty	financially burder le. During the deviced ling results. To neither cost effect the total the extrement of th	some, it is relopmenthis analytive nor nely varied ne approversective attempts to accept to accept and the control we control we relopment to accept and the relording to a	is designed to fit the LTC sis revealed ecessary to ed nature of yed plan for anal WQS. tainment of complish the trol Policy pater bodies with the except.	to protect CP the BSA If that a In meet the the CSO each Therefore, the current ose WQS. Dresumptive in the BSA eption of the
	roved BSA C	ace to summarize other p SO LTCP implementation					
						*	
		<u>.</u>					
system designed to d or persons who man of my knowledge an	assure that qua age the system d belief, true, a	his document and all attachr lified personnel properly gat or those persons directly res ccurate, and complete. I am Imprisonment for knowing v	her and evaluate the sponsible for gatherin aware that there are	information submitte ng the information, th	ed. Based o e informat	n my inquiry ion submitted	of the person I is, to the best
Name:Oluwole A.			Official General	Manager		Phone: (716	3)851-4664
Signature:	().M		Date Signed:	Emai	l:omcfoy(	@buffalose	wer.org

Permittee Name	ME	A٨	N.	EE	П	MI	RI	E	P
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# PART III - CSO BEST MANAGEMENT PRACTICES

Check N/A if not required in the permit, consent order, or LTCP:

			T
1. CSO Maintenance/Inspection 6 NYCRR 750-2.8(a)(2) (EPA NMC: Proper Operation and Maintenance)	YES	NO	N/A
Is there a written program for the operation, inspection and maintenance of the CSS?	<b>✓</b>		
Does the program include procedures for ALL outfalls in the permit?		1	
Does the program include procedures for ALL regulators in the permit?	1		
Are inspections conducted at least as frequently as required in the permit (weekly or monthly)?	$\checkmark$		
Are inspections conducted during dry and wet weather?	<b>✓</b>		
Do the inspection reports indicate visual inspection, any observed flows, incidence of rain or snowmelt, condition of equipment, and any work required?	<b>√</b>		
Are inspection reports submitted to the DEC regional office with the monthly operating reports?	<b>✓</b>		
Is the written program sufficiently detailed? Indicate which of the following additional components are included in the plan.	<b>√</b>		
Pump Stations	<b>✓</b>		
Sewer cleaning	<b>✓</b>		
Sewer Manholes and Catch Basins	<b>✓</b>		
Outfalls	<b>✓</b>		
CSO Controls	<b>✓</b>		
Are there inter-municipal agreements which require inspection and maintenance?	<b>✓</b>		
Are any changes planned in the upcoming year for the agreements to make them more effective?		<b>√</b>	
Is the collection system mapped using GIS?	1		
Entire system, including manholes and catch basins?	1		
In the past year, was significant mapping progress accomplished?	1		
In the upcoming year, is GIS mapping planned?		1	
Is the collection system monitored using a SCADA system?	<b>✓</b>		
In the past year, was significant progress accomplished in installing or expanding monitoring with a SCADA system?	<b>✓</b>		
In the upcoming year, is installation of a SCADA system planned or being expanded?	1		
Does the municipality have an asset management plan that includes the collection system?	1		
Are funds available to carry out the BMP requirements?	1		
Are any major equipment purchases planned or expected in the next five years related to the BMP requirements? If yes, describe below	<b>V</b>		
Is the pump inventory, including spare parts, adequate for the upcoming year?	<b>✓</b>		
Is sufficient staff training available?	<b>✓</b>		

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PART III - CSO BEST MANAGEMENT PRACTICES			
Is funding for training adequate and available?	<b>V</b>		
	YES	NO	N/A
Is sufficient staff training available?	<b>√</b>		
Is funding for training adequate and available?	<b>✓</b>		CARDESTINE
Have any work efforts or problems in the past year resulted in changes in overflows? If yes, describe below	<b>√</b>		7
Fewer events	<b>✓</b>		
Less volume	<b>✓</b>		
Reduction in floatables, settleable solids or oil and grease discharged	<b>√</b>		
Reduction in industrial pollutants (chemicals)	1		
Improvement in water quality of receiving waterbody	1		
In the past year, was the inspection and maintenance program mostly:			
Reactive (responding to problems)	1		
Proactive (focusing on preventative maintenance to avoid problems)?	<b>✓</b>		L
If the program is mostly reactive, describe below any plans to shift the emphasis to prevention  DESCRIBE BELOW HOW THIS BMP IMPLEMENTATION HAS MET THE REQUIREMENTS OF THE SPDES PERMIT, AND THE OBJECTIVES OF			<b>√</b>
MINIMUM CONTROLS. (Attach extra sheet if necessary) 019 Improvements:  . Continued proactive and reactive sewer cleaning and televising and green infrastructure maintenar  . Commenced contract to remove additional grit from East Ferry Trunk and South Park Stormwater of  . Intregration of the Hazelwood RTC into the SCADA system;  . Removal of grit and debris from Albany Street interconnection;  . Commenced repairs to Albany Street outfall pipe;  . An NGICP training was held in Spring of 2019 to train staff in maintenance of green infrastructure processed in the spot list was created to facilitate proactive maintenance of trouble areas.  Planned 2020 Improvements:  . Continued proactive and reactive sewer cleaning and televising and green infrastructure maintenary  . Conclude cleaning of East Ferry Trunk;  . Commencement of project to prevent future grit accumulation in East Ferry Trunk;  . Implementation of project to repair/replace sewers with utility conflicts;  . Integration of the North Bailey and Hertel-Deer RTCs into the SCADA system;  . Conclude repairs of Albany Street outfall pipe;  . Refinement of hot spot list;  . Finalization of sewer maintenance Core Competency Gap Analysis.	detention		n;
Major equipment purchases: n 2019, 2 new combination machines, a backhoe, a salter, an air compressor, and a dump truck wer n 2020, the purchase of 1 dump truck, a trailer, SUV, and a pickup truck is planned.	e all pui	rchased	<b>d.</b>

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#### DART III - CSO REST MANAGEMENT DRACTICES

2. Maximum Use of Collection System for Storage 6 NYCRR 750-2.7(f), 750-2.8(a)(2), 750-2.8(a)(5) (EPA NMC: Maximum Use of Collection System for Storage)  Are CSOs minimized, and flow to the treatment plant maximized?  Has the hydraulic capacity of the system been evaluated?  Is there a continuous program of flushing and cleaning to prevent deposition of solids?  Have regulators and weirs been adjusted to maximize storage without causing service backups?  In the past year or the upcoming year, have any changes to structures or procedures been made or planned									
, , , , , , , , , , , , , , , , , , ,	Yes	No	N/A						
Are CSOs minimized, and flow to the treatment plant maximized?	<b>√</b>								
Has the hydraulic capacity of the system been evaluated?	<b>√</b>								
Is there a continuous program of flushing and cleaning to prevent deposition of solids?	<b>√</b>								
Have regulators and weirs been adjusted to maximize storage without causing service backups?	<b>✓</b>								
In the past year or the upcoming year, have any changes to structures or procedures been made or planned that will improve use of the collection system for storage? Describe below	<b>✓</b>								
Tidegates maintenance/repairs/replacement	<b>✓</b>								
FOG program	<b>✓</b>								
Removal of small systems bottlenecks	<b>√</b>								
Sewer cleaning and sediment removal	<b>✓</b>								
Removal of flow obstructions	<b>✓</b>								
Regulator or weir adjustment - list locations below	<b>√</b>								
In-line storage: Inflatable dams or sluice gates	<b>✓</b>								
Wet Weather Operating Plan	<b>✓</b>								
Do the municipalities within the combined sewer system have a water conservation program for homeowners?	$\checkmark$								
In the upcoming year are there any studies, work, or projects planned (other than routine activities) to improve use of collection system for storage? Describe below.	$  \checkmark  $								
DESCRIBE BELOW HOW THIS BMP IMPLEMENTATION HAS MET THE REQUIREMENTS OF THE SPDES PERMIT, AND THE OBJECTIVES OF MINIMUM CONTROLS. (Attach extra sheet if necessary)	тне ЕРА	NINE							
2019 Improvements:	,	* * * *							

- 1. Continued proactive and reactive sewer cleaning and televising and green infrastructure maintenance;
- Commenced contract to remove additional grit from East Ferry Trunk and South Park Stormwater detention system;
- 3. Construction of the North Bailey and Hertel-Deer RTC projects;
- 4. Removal of grit and debris from Albany Street interconnection;
- 5. Commenced repairs to Albany Street outfall pipe;
- 6. Design of the Mill Race, Broadway at Oak, Smith at Eagle, and Babcock Pumping Station RTCs was commenced;
- 7. An NGICP training was held in Spring of 2019 to train staff in maintenance of green infrastructure practices;
- 8. A hot spot list was created to facilitate proactive maintenance of trouble areas; and
- 9. Construction was completed on the Willert-Park and 612 Northland green infrastructure projects.

## Planned 2020 Improvements:

- 1. Continued proactive and reactive sewer cleaning and televising and green infrastructure maintenance;
- Conclude cleaning of East Ferry Trunk;
- 3. Commencement of project to prevent future grit accumulation in East Ferry Trunk;
- 4. Implementation of project to repair/replace sewers with utility conflicts;
- 5. Integration of the Bailey Avenue and Hertel-Deer RTCs into the SCADA system;
- 6. Conclude repairs of Albany Street outfall pipe;
- 7. Refinement of hot spot list;
- 8. Finalization of Core Competency Gap Analysis; and
- 9. Completion of Niagara Street Phase 3 and Northland Avenue construction.

PERMITTEE NAME:	1 SPDES PERMIT No.: NY-0	0284	10	
	PART III - CSO BEST MANAGEMENT PRACTICES		-	
	Pretreatment 6 NYCRR 750-2.7(f) and 2.9(a)(4)  ew and Modify Pretreatment Requirements)	YES	NO	N/A
Has the impact on Co taken to minimize su	SOs from nondomestic users that discharge toxic pollutants been evaluated, and steps uch impacts?	<b>✓</b>		
Is there an approved	pretreatment or mini-pretreatment program?	<b>✓</b>		
If there is no pretrea the previous questio	atment or min-pretreatment program, are there any nondomestic users? If No to both of ons, go to BMP 4			<b>✓</b>
Is there an inventory	y of industrial dischargers? Is the following information included?	<b>✓</b>		
Volume of o	discharge?	✓		
Pollutants i	n discharge?	$\checkmark$		
Are any pol	lutants classified as "persistent toxics" or bioaccumulative?		<b>✓</b>	
Is the locati	ion included on the collection system map?	<b>√</b>		
Are there any indust	rial discharges that could reach CSO outfalls?	<b>✓</b>		
If yes, have	any industrial dischargers been identified as contributing to a water quality impairment?		<b>✓</b>	
If yes, does collection s	the industry have a holding tank or EQ tank to store wastewater prior to discharge to the ystem?		<b>/</b>	
If yes, does	the industry have a written plan to store or hold discharges during rain events?		<b>✓</b>	
If yes, has t	he industry been asked to prepare a written plan to store or hold discharges?		<b>✓</b>	
	re there been negotiations or changes to agreements with industrial dischargers which will mpacts during CSO events? Describe below.	<b>√</b>		
	or, are any negotiations or changes to agreements with industrial dischargers planned by reduce impacts during CSO events? Describe below.	<b>√</b>		1
	THIS <b>BMP</b> IMPLEMENTATION HAS MET THE REQUIREMENTS OF THE SPDES PERMIT, AND THE OBJECTIVES OF TO (Attach extra sheet if necessary)	не ЕРА	NINE	
compliance or face with EPA and NYSI	es who violate their permits are cited by the Buffalo Sewer Authority and are required to revocations of their permits. Permits are reviewed and renewed with any changed re DEC regulations incorporated into the new permit on a three year cycle. All permits we wiewed for compliance with 40 CFR Part 403 and sewer use rules, regulations, and law	quired hich re	to cor	nply in the

BMP 3 Industrial Pretreatment

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SPDES PERMIT No.: NY-0028410

PART III - CSO BEST MANAGEMENT PRACTICES			
4. Maximize Flow to POTW 6 NYCRR 750-2.7(f), 2.8(a)(2), and 2.8(a)(5)			
(EPA NMC: Maximum Flow to POTW for Treatment)	YES	NO	N/A
N/A			
In the past year, were the headworks, primary treatment works and disinfection works able to pass the flows specified in the permit for all wet weather flows?	<b>✓</b>		
In the past year, was the secondary treatment works able to treat the flows specified in the permit for all wet weather flows?	<b>V</b>		
If the answer to either of the above questions was No, has a plan and schedule to accomplish this been submitted to the Department?			<b>√</b>
In the past year have there been any physical modifications to the collection system which have allowed more flow to reach the POTW? Describe below.	<b>✓</b>		
Are any physical modifications planned for the upcoming year?	<b>1</b>		
Are there areas of the collection system, including pump stations that need additional study to evaluate capacity, condition, or to determine if illegal connections (i.e. inflow) exist? List below		<b>V</b>	
In the past year, have any new problem areas been identified that restrict flow to the plant? List locations			一
below		V	
In the upcoming year, are there plans to address hydraulic restrictions or bottlenecks?	<b>✓</b>		
Pipe replacement		<b>✓</b>	
Construction of relief sewer		1	
Construction of overflow tank		1	
Pump station improvements	1		
Pump replacement		1	
Weir adjustment		<b>√</b>	
Smoke testing, dye testing to identify illicit connections		<b>V</b>	
Other:	<b>✓</b>		
DESCRIBE BELOW HOW THIS BMP IMPLEMENTATION HAS MET THE REQUIREMENTS OF THE SPDES PERMIT, AND THE OBJECTIVES OF MINIMUM CONTROLS. (Attach extra sheet if necessary)  2019 Improvements:  1. Continued proactive and reactive sewer cleaning and televising and green infrastructure maintenance. Commenced contract to remove additional grit from East Ferry Trunk and South Park Stormwater de  3. Construction of the North Bailey and Hertel-Deer RTC projects;  4. Removal of grit and debris from Albany Street interconnection;  5. Commenced repairs to Albany Street outfall pipe;  6. Design of the Mill Race, Broadway at Oak, Smith at Eagle, and Babcock Pumping Station RTCs was  7. An NGICP training was held in Spring of 2019 to train staff in maintenance of green infrastructure profess. A hot spot list was created to facilitate proactive maintenance of trouble areas; and  9. Construction was completed on the Willert-Park and 612 Northland green infrastructure projects. Planned 2020 Improvements:  1. Continued proactive and reactive sewer cleaning and televising and green infrastructure maintenance. Conclude cleaning of East Ferry Trunk;  3. Commencement of project to prevent future grit accumulation in East Ferry Trunk;  4. Implementation of project to repair/replace sewers with utility conflicts;  5. Integration of the Bailey Avenue and Hertel-Deer RTCs into the SCADA system;  6. Conclude repairs of Albany Street outfall pipe;	e; tention comme actices;	systen	
7. Refinement of hot spot list; and 8. Completion of Niagara Street Phase 3 and Northland Avenue construction.			

PERMITTEE NAME:	1					SPDES	PERMIT N	o.: NY-	00284	10	
			- CSO BEST								
5. Wet Weather C	perating Plan (V	WWOP) 6 NY	CRR 750-2.8(	a) (EPA N	MC: None	)	☐ N/A		YES	NO	N/A
Has a WWOP been dev weather events while operation?									<b>✓</b>		
In the past year, did trupon return to normal		veather flow	s cause any e	effluent vi	olations o	r destabili	ze treatm	ent		<b>✓</b>	
Has the WWOP been of POTWs with Combined					et Weath	er Operati	ng Practi	ces for	<b>✓</b>		
Has the WWOP been s approval?	ubmitted to the	Regional Off	ice and Burea	au of Wat	er Permit	s (Albany)	for reviev	v and	<b>✓</b>		
If the collection system		en modified	or upgraded,	has the V	VWOP be	en modifie	d to refle	ct new	<b>✓</b>		
If yes, has the	revised plan bee	en submitted	to the Regio	nal Office	for appro	oval?				1	
Does the plan identify disinfection units?	the maximum flo	ows through	preliminary,	primary, s	econdary	treatmen	t, tertiary	, and	<b>✓</b>		
In the upcoming year,	are changes to the	ne plan expe	cted?						П	1	
Plan was updated to resulted from this proj						eather flov	v throug	n the vv	WIP th	at nave	•
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PERMITTEE NAME: 1	SPDES PERMIT No.:	NY-00284	10	
PART III - CSO BEST MANAGEMENT S	PRACTICES			
<ol> <li>Prohibition of Dry Weather Overflows 6 NYCRR 750-2.7 and 2.8(b)(2) (EPA NMC: Eliminate Dry Weather Overflows)</li> <li>N/A</li> </ol>		YES	NO	N/A
In the past year, were there any dry weather overflows? If no, skip to BMP 7.		✓		
Were all dry weather overflows reported in accordance with 6 NYCRR Part 750-2.	.7 (incident reporting)?	✓		
If dry weather overflows occurred, indicate which procedures or equipment have	been improved or replac	ed		
Schedule for routine inspections			1	
Management, operation and maintenance program			<b>√</b>	
Modification of existing or issuance of new inter-municipal agreements	-		<b>✓</b>	
FOG program	7	<b>✓</b>		
Removal of illicit connections			<b>√</b>	
I/I Control program			1	
Leaky tidegates			1	
Adjustment and/or repair of regulators			1	
Pumps			1	
Auxiliary power			<b>√</b>	
Elimination of hydraulic bottlenecks			1	
Adequate dry weather flow capacity at the treatment plant			1	
Other, list below		<b>✓</b>		
Has additional staff training been provided?		<b>✓</b>		
Has the likelihood of future dry weather overflows been eliminated? If not, describelow.	ribe additional information	on 📗	1	

The upstream system was researched for any major potential sources of rags and debris.

Buffalo Sewer is currently exploring raising of the weir and/or real time monitoring of CSO 031.

A new Fats, Oils, and Grease program coordinator has been hired and is in the process of developing a comprehensive FOG program.

1 SPDES PERMIT No.: NY-0	0284	10	
PART III - CSO BEST MANAGEMENT PRACTICES	1		
	VEC	NO	N/A
Control of Solid and Floatable Materials in CSOs)	163		14/7
re did any outfalls discharge floating solids, oil and grease, or solids of sewage origin?	<b>✓</b>		
plemented to eliminate or minimize the discharge of floatables and settleable solids?	$\checkmark$		
mented in the upcoming year? If significant progress has been made in implementing	<b>✓</b>		
quantification	<b>√</b>		
	<b>✓</b>		
	✓		
ing		<b>✓</b>	
	<b>✓</b>		
n hoods	<b>✓</b>		
	<b>√</b>		
eded or planned for the upcoming year? Describe additional information below.	1		
eplaced. cant outlets and source controls (see BMP 12 for more details) have also been implem falo Sewer Authority's jurisdiction. and Grease program coordinator has been hired and is in the process of developing a c	ented	for so	
er the next year, it is anticipated that this program will begin to be implemented.		enens	*
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	PART III - CSO BEST MANAGEMENT PRACTICES  Floatables and Settleable Solids 6 NYCRR 750-2.8(a)(4) Control of Solid and Floatable Materials in CSOs)  The edid any outfalls discharge floating solids, oil and grease, or solids of sewage origin? Implemented to eliminate or minimize the discharge of floatables and settleable solids? It is implemented in the upcoming year? If significant progress has been made in implementing and Implementing year in the past year) elemented in the upcoming year? If significant progress has been made in implementing and skimming of open waters  Introls (street cleaning, public education, household hazardous waste collection, solid waste recycling, and/or composting of lawn/leaf/roadkill deer)  It in hoods  This BMP IMPLEMENTATION HAS MET THE REQUIREMENTS OF THE SPDES PERMIT, AND THE OBJECTIVES OF THE CALL AND THE OBJECTIVES OF THE SPDES PERMIT, AND THE OBJECTIVES OF THE SPDES PERMIT AND THE OBJECTIVES OF THE SPDES	PART III - CSO BEST MANAGEMENT PRACTICES  Floatables and Settleable Solids 6 NYCRR 750-2.8(a)(4)  Control of Solid and Floatable Materials in CSOs)  Pred did any outfalls discharge floating solids, oil and grease, or solids of sewage origin?  Inplemented to eliminate or minimize the discharge of floatables and settleable solids?  Inplemented in the upcoming year? If significant progress has been made in implementing and improvements have occurred, describe below.  Inplemented in the upcoming year? If significant progress has been made in implementing and simming of open waters and skirmening of open waters and skirmening of lawn/leaf/roadkill deer)  In hoods  In hoods	PART III - CSO BEST MANAGEMENT PRACTICES  Floatables and Settleable Solids 6 NYCRR 750-2.8(a)(4) Control of Solid and Floatable Materials in CSOs)  Pere did any outfalls discharge floating solids, oil and grease, or solids of sewage origin?  Implemented to eliminate or minimize the discharge of floatables and settleable solids?  Implemented in the upcoming year? If significant progress has been made in implementing and improvements have occurred, describe below.  Implemented in the upcoming year? If significant progress has been made in implementing and skimming of open waters and skimming of open waters and skimming of open waters and of the upcoming year? If significant progress has been made in implementing and skimming of open waters and skimming of open waters are cycling, and/or composting of lawn/leaf/roadkill deer)  In hoods  In hoods

PERMITTEE NAME:	1	SPDES PERMIT NO	.: NY-00284	<b>4</b> 10	
	PART III - CSO BES	T MANAGEMENT PRACTICES			
8. Combined S	ewer System Replacement 6 NYCRR 750	-2.10(i) (EPA NMC: None) N/A	YES	NO	N/A
	e any combined sewers designed or constr			1	
If yes, was the extent possil	ne combined sewer replaced by separate s ble?	sanitary and storm sewers to the greatest			<b>√</b>
	the separate sanitary and storm sewers de rconnections to the maximum extent prac		out		<b>√</b>
Is the combined porti	ion of the collection system completely ide	entified on maps or GIS?	<b>√</b>		
Are there any plans o	r current projects to separate combined s	ewers into sanitary and storm sewers?		<b>V</b>	
Is there an a	pproved engineering plan for this project?	)			<b>✓</b>
In the past y	ear, how many areas of combined sewer v	vere separated? acres			
In the upcon separated?	ning year, how many areas of combined se	ewer are scheduled to be acres			
Are the sewe	er replacement projects on schedule? If n	o, describe below.			<b>✓</b>
Overall, has the imple discharged? Describe	ementation of this BMP resulted in fewer of the below.	overflow events and/or less volume			<b>✓</b>
DESCRIBE BELOW HOW TO	HIS BMP IMPLEMENTATION HAS MET THE REQUIR	EMENTS OF THE SPDES PERMIT, AND THE OBJECT	TIVES OF THE EPA	NINE	
MINIMUM CONTROLS. (A	Attach extra sheet if necessary)				
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**Buffalo Sewer Authority** 

SPDES PERMIT NO .: NY-0028410

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PART III - CSO BEST MANAGEMENT PRACTICES		1	
9. Combined Sewer Extension 6 NYCRR 750-2.10(i) (EPA NMC: None) N/A	YES	NO	N/A
In the past year, were any combined sewers extended not using separate sewers?		<b>√</b>	
Were sanitary and storm sewers extensions designed and constructed simultaneously but without interconnections?		<b>✓</b>	
Were any new sources of stormwater added to a separate sewer anywhere in the collection system?		V	
If separate sewers were extended from combined sewers, was it demonstrated that the sewerage system had the ability to convey, and the treatment plant had the ability to adequately treat, the increased dry-weather flows?	<b>✓</b>		
If determined necessary by the Regional Water Engineer, was an assessment made of the effects of the increased flow of sanitary sewage or industrial waste on the strength of CSOs and their frequency of occurrence, including the impacts upon best usage of the receiving water?	<b>✓</b>		
Has a recent combined sewer extension resulted in increased discharge from a CSO?		<b>√</b>	
Has a recent combined sewer extension resulted in increased flow to the POTW? Describe any CSO impacts below.		<b>✓</b>	
Is any development planned upstream of a combined sewer?	<b>✓</b>		
If yes, has a sewer extension plan been submitted for review and approval?	1		
If the approval contained a flow credit requiring removal of I/I, what was the requirement or ratio?			<b>✓</b>
Does the plan include any flow retention structures?	<b>✓</b>		
DESCRIBE BELOW HOW THIS BMP IMPLEMENTATION HAS MET THE REQUIREMENTS OF THE SPDES PERMIT, AND THE OBJECTIVES OF MINIMUM CONTROLS. (Attach extra sheet if necessary)  Currently planned development upstream of the combined sewer system involves primarily private connexisting Buffalo Sewer Authority public combined sewer system. These private developments are subjective for downstream capacity only; downstream capacity is determined by metering of dry weather floof proposed flows based on the NYS Design Standards for Intermediate Sized Wastewater Treatment Sewer extensions are submitted for full approval to the Erie County Health Department as an age for approval.  As part of the Buffalo Sewer Authority's sewer tap permitting process for storm discharges, new development involves a soil disturbance of 0.25 acres or more which are upstream of or directly discharge to the compretain/detain on site post-construction flows during a 25 year storm in excess of pre-construction flows during a 25 year storm in excess of pre-construction flows during a 25 year storm in excess of pre-construction flows during a 25 year storm in excess of pre-construction flows during a 25 year storm in excess of pre-construction flows during a 25 year storm in excess of pre-construction flows during a 25 year storm in excess of pre-construction flows during a 25 year storm in excess of pre-construction flows during a 25 year storm in excess of pre-construction flows during a 25 year storm in excess of pre-construction flows during a 25 year storm in excess of pre-construction flows during a 25 year storm in excess of pre-construction flows during a 25 year storm in excess of pre-construction flows during a 25 year storm in excess of pre-construction flows during a 25 year storm in excess of pre-construction flows during a 25 year storm in excess of pre-construction flows during a 25 year storm in excess of pre-construction flows during a 25 year storm in excess of pre-construction flows during a 25 year storm in excess of pre-construction flo	ections oct to N' ows and Systems ent for the oment v bined s during a	to the YSDE calculate, 2014 calculate, 2014 che NY chich sewer a 2 year	C lation I SDEC system
storm. New development which disturbs 0.25 acres or more of soil and discharge downstream of a regulate the MS4 system must comply with the post-construction standards as outlined in GP-0-15-002 (GP-0-20 submitted on or after January 20, 2020).	0-001 fc	or proj	ects

10. Connection Prohibitions 6 NYCRR750-2.9(a)(5) (EPA NMC: None) N/A	YES	NO	N/A				
In the past year, were any sewer connections approved, in spite of a notice from DEC to prohibit further connections due to documented, recurrent instances of sewage backing up into house(s) or discharges of raw sewage onto the ground surface from surcharging manholes?							
re new connections prohibited by the DEC? If no, skip to BMP 11.		<b>✓</b>					
Is this due to basement backups?		1					
Is this due to surcharging manholes?							
the upcoming year, is any work planned to either increase capacity or reduce hydraulic loading? Describe elow.							
ESCRIBE BELOW HOW THIS BMP IMPLEMENTATION HAS MET THE REQUIREMENTS OF THE SPDES PERMIT, AND THE OBJECTIVES OF THE SPOES. (Attach extra sheet if necessary)	HE EPA	NINE					

PERMITTEE NAME:	1		SPDES		NY- 0028410	
		DADTIII	CCO Dear Management Dos	CTICEC		

# PART III - CSO BEST MANAGEMENT PRACTICES 11. Septage and Hauled Waste 6 NYCRR750-2.7(f) and 2.8(a)(1) (EPA NMC: None) N/A YES NO N/A In the past year, has there been any discharge or release of septage or hauled waste into the collection system upstream of a CSO? Does the facility have authorization from DEC to accept hauled waste or septage at a location other than the POTW? Describe below. Are any of these locations upstream of a CSO? Are there any agreements with haulers to accept waste at a location other than at the POTW? In the past year, was any hauled waste or septage accepted at a location other than at the POTW? What was the total volume received at locations other than the POTW? Is there a dedicated location to discharge septage at the POTW? Are there restrictions on when the plant accepts hauled waste or septage? Have there been any changes to the POTW's policy on septage and hauled waste in the past year? Are any changes needed or planned in the upcoming year? DESCRIBE BELOW HOW THIS BMP IMPLEMENTATION HAS MET THE REQUIREMENTS OF THE SPDES PERMIT, AND THE OBJECTIVES OF THE EPA NINE MINIMUM CONTROLS. (Attach extra sheet if necessary)

PERMITTEE NAME: 1 SPDES PERMIT NO.: NY-	0284	10		
PART III - CSO BEST MANAGEMENT PRACTICES				
12. Control of Run-off 6 NYCRR750- 2.1(e) (EPA NMC: None) N/A	YES	NO	N/A	,
Is sediment in runoff from construction zones entering catch basins in the combined sewer system?	1			
Is there adequate communication between the local municipal department that enforces local stormwater codes and ordinances and the collection system staff regarding stormwater runoff?	<b>✓</b>			
Do the municipalities within the combined sewer system have adequate storm water pollution prevention programs to reduce pollutants in stormwater?	<b>✓</b>			
Annual household hazardous waste collection	<b>✓</b>			
Autumn leaf collection	<b>✓</b>			
Lawn clippings	<b>✓</b>			
Christmas tree pickup	<b>√</b>			
Roadkill deer composting			1	
Fertilizer and pesticide management	<b>✓</b>			
Enforcement of litter laws	<b>√</b>			
Public education programs on composting	<b>✓</b>			
Are any changes needed in the implementation of this BMP to reduce the number of CSO events, the volume discharged, or pollutants in the discharge? If yes, describe below.		$\checkmark$		
DESCRIBE BELOW HOW THIS BMP IMPLEMENTATION HAS MET THE REQUIREMENTS OF THE SPDES PERMIT, AND THE OBJECTIVES OF T MINIMUM CONTROLS. (Attach extra sheet if necessary) The Buffalo Sewer Authority under MS4 Permit #NYR20A461 is regulated as a non-traditional MS4. As which involve the disturbance of one acre or more of soil and which discharge to sewers that drain direct the United States rather than the Bird Island STP are subject to NYSDEC SPDES General Permit for Co Permit No. GP-0-15-002 (GP-0-20-001 for projects submitted on or after January 20, 2020). This include inspection of construction sites for compliance with the permit. For those sites with 0.25-1.0 acre of soil sediment and erosion control plan is required, but inspections are only conducted upon receipt of a compliance of the Buffalo Sewer Authority's system which discharge upstream of or directly to the combine construction projects are restricted in final peak flow which could be discharged to the sewer, thereby receipt of the sewer in the sewer is the sewer in the sewer in the sewer in the sewer is the sewer in the s	such the suc	nose p le wate tion Ad ine ance, rer sys	ers of ctivity a tem,	S

For areas of the Buffalo Sewer Authority's system which discharge upstream of or directly to the combined sewer system, construction projects are restricted in final peak flow which could be discharged to the sewer, thereby reducing the peak flow discharging through the CSOs. In addition to the post-construction flow standards, for sites with 0.25 or more acres of soil disturbance a sediment and erosion control plan is created. For those sites of 1 acre or more, weekly inspections by the owner/operator are required and the Buffalo Sewer Authority verifies these inspections on a routine basis. It is expected, however that sediment is still entering the system through smaller sites and between inspections.

Regarding road kill deer, the City of Buffalo has not traditionally had an issue with road kill deer. When smaller road kill animals are reported, the Buffalo Animal shelter transports the carcasses to the Erie County SPCA for incineration. Due to the health risks associated with a large decaying animal in a high density population center, it is expected that a road kill deer would be disposed of promptly.

PERMITTEE NAME:	1	SPDES	PERMIT NO.:	NY-0028410
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PART III - CSO BEST MANAGEMENT PRACTICES			
13. Public Notification 6 NYCRR 750-1.12 (EPA NMC: Public Notification) N/A	YES	NO	N/A
Have identification signs been installed and maintained at all CSO outfalls owned and operated by the permittee?	<b>1</b>		
Are all signs placed at or near the outfall?	✓.		
Are the signs easily readable by the public?	<b>1</b>		
Are the signs a minimum size of 18" by 24"?	1		
Do the signs have white letters on a green background?	<b>√</b>		
Do all the signs contain the following information:	1		·
SPDES permit number	<b>√</b>		
Outfall number	<b>√</b>		
Permittee name, contact name and phone number at business office or NYSDEC Division of Water regional contact address and phone number	<b>√</b>		
For waters that are Class B or higher, is a public notification program implemented to inform citizens of the location and occurrence of CSO events?	<b>✓</b>		
Does this program include a mechanism (public media broadcast, standing beach advisories, newspaper notice, etc) to alert potential users of the receiving waters affected by CSOs?	<b>√</b>		
Does this program include a system to determine the nature and duration of conditions that are potentially harmful to users of these receiving waters due to CSOs?	<b>√</b>		
Were there any problems in the past year with missing or damaged signs? Describe below.		<b>✓</b>	
Is there a written public notification plan?			<b>V</b>
Does the plan list all methods used to notify the public of CSO events?			<b>V</b>
Does the plan list outfalls where signs are posted?			
DESCRIBE BELOW HOW THIS BMP IMPLEMENTATION HAS MET THE REQUIREMENTS OF THE SPDES PERMIT, AND THE OBJECTIVE MINIMUM CONTROLS. (Attach extra sheet if necessary)  The Buffalo Sewer Authority complies with the Sewage Pollution Right to Know Act through the use		2	
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PERMITTEE NAME:	1		SPI	DES PERMIT No.: N	<sup>Y-</sup> 00284	10	
		PART III - CSO BEST	MANAGEMENT PRACTICE	S			
14. Characteri	ization and Monitori	ng (6 NYCRR 750-1.11(d	a), 2.5(a) and 2.7(g)) (EPA I	NMC: Monitoring)	YES	NO	N/A
If required in the per overflows, and iden		ned sewer system been	characterized to determine	e the frequency of	<b>✓</b>		
Was a baseline sam	pling program establ	ished as part of the LTC	CP development?				
Are all outfalls mon	itored during dischar	ge events for:				<b>V</b>	
Flow Volum	me:					1	
Frequency	:					<b>✓</b>	
Duration:						<b>V</b>	
If all outfalls are no	t monitored, explain	how sufficient data is o	btained to document the s	uccess of the BMPs.			
List locations of rain	n gauges or the sourc	e of data, below.					
Has a Post Construct approval?	ction Modeling and M	1onitoring plan been su	bmitted to the Department	t for review and	<b>✓</b>		
Has the De	epartment approved	the Post Construction N	Modeling and Monitoring pl	an?		<b>✓</b>	
	onstruction monitori eady been provided.		receiving water begun? At	tach results if this		$\checkmark$	
MINIMUM CONTROLS. Extensive characters combined Sewer of separate storm serinspection of regulestimate CSO actipollutant impacts a calibrating the met post-construction of was submitted in Esubmitted to the N	(Attach extra sheet in erization and meterion and meterion connections do ators. A system-wind assed on a "Modified in ering data to the "Monitoring plan was December 2015. In YSDEC and USEP.	f necessary) ing were undertaken on Control Plan. As me winstream of regulate de hydraulic model wind volume. A system of Typical Year' which dodified Typical Year's submitted before Marcordance with this A in 2019 for review,	during the development of any of the BSA's CSO ours, CSO outfall monitoring as developed using flow water quality mode in has been reviewed and rain gages were installed arch 18, 2015 and a responsible plan, recalibration of the to date, Buffalo Sewer has ocument to calculate CSO	of the Buffalo Sew utfalls are submerg g is achieved thro meters and level I was developed v approved by regu d throughout the C onse to comments model has been c as not received co	er Author ged and/o ugh bimo gages wh which can ulatory ago City of Bur s regardin completed	rity's or have onthly lich is uprediction of the properties of the	used to t . In The olan vas ing thi
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PERMITTEE NAME: 1 SP	DE2 PERMIT NO.:	141-0028	<u>8410                                    </u>	
PART III - CSO BEST MANAGEMENT PRACTICE	ES			
15. Annual report 6 NYCRR 750-2.1(i) N/A (EPA NMC: None; Required in LTC	CP permit)	YES	NO	N/A
Is this report being used to satisfy BMP 15, Annual report, and the BMP checklist?		<b>✓</b>		
Is existing documentation of implementation of the BMPs included?		<b>√</b>		
Is this annual report submitted by January 31 to the Regional Office and the Bureau of Wa (Albany)?	ater Permits	V		
Attach any additional information necessary to document the implementation of BMPs in list plans for the upcoming year.	the past year or			
Overall, was implementation of the BMPs effective in controlling and minimizing CSO disc	harges?	$\checkmark$		
If no, list any improvements needed that have not been described elsewhere				<b>✓</b>

PERMITTEE NAME:	.1	*		SPDES PERMIT No.:	NY-0028410
		PART III - CSO BEST	MANAGEMENT PRAC	TICES	
ADDITIONAL INFOR	MATION:			,	
DESCRIBE BELOW IN DET PROJECT(S) HAS HELPED	TAIL OTHER "MEASURE TO MEET THE OBJECT!	E OF SUCCESS" ABOVE AND BE VES OF THE EPA NINE MINIM	YOND THE REQUIREMENTS IUM CONTROLS POLICY. (/	s <b>of the SPDES permit</b> Attach extra sheet if	. DESCRIBE HOW ADDITIONAL necessary)
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PERMITTEE NAME:	SPDES PERMIT NO.:	NY-		
-	PART III - CSO BEST MANAGEMENT PRACTICES			

# **SECTION D:** For Multiple Permittees Only

Permittee Name	SPDES Permit Name	SPDES Permit No

# **PART III - CSO BEST MANAGEMENT PRACTICES**

# **SECTION E: GLOSSARY/ACCRONYMS**

For the purposes of this annual report, the following terms and acronyms are described below:

Baseline: Conditions before the development and/or implementation of CSO BMPs and/or LTCP.

Best Management Practice (BMP): Permit condition used in place of or in conjunction with effluent limitations to prevent or control the discharge of pollutants. May include schedule of activities, prohibition of practices, maintenance procedure, or other management practice. BMPs may include, but are not limited to, treatment requirements, operating procedures, or practices to control plant site runoff, spillage, leaks, sludge or waste disposal, or drainage from raw material storage.

**Bypass:** A discharge of wastewater, stormwater, or combination of both, around a treatment unit designed for the removal of pollutants.

Catch Basin: A chamber usually built at the curbline of a street, which admits surface water for discharge into a storm drain

**Collection System:** A wastewater collection system which conveys sanitary wastewaters (domestic, commercial and industrial wastewaters) and stormwater through a single pipe to a publicly owned treatment works for treatment prior to discharge to surface waters.

Combined Sewer: A sewer designed to carry wastewater and stormwater runoff.

Combined Sewer Overflows (CSO): A discharge of untreated wastewater from a combined sewer system at a point prior to the headworks of a publicly owned treatment works. CSOs generally occur during wet weather (rainfall or snowmelt). During periods of wet weather, these systems become overloaded, bypass treatment works, and discharge directly to receiving waters.

Combined Sewer System (CSS): A wastewater collection system that conveys sanitary wastewaters and storm water through a single pipe to a publicly owned treatment works for treatment prior to discharge to surface waters.

**Demonstrative Regulatory Approach:** Control approach where a permittee develops and implement an LTCP that meets the state water quality standards. A permittee could develop an LTCP that would provide for attainment of water quality standards, or it could use a total maximum daily load (TMDL) to *demonstrate* that water quality standards can be attained through a combination of CSO controls and other controls.

**EPA:** Environmental Protection Agency

EQ Tank: Equalization Tank often used to smooth hydraulic peaks to a POTW or WWTP.

Fats Oil & Grease (FOG)

**Geographic Information System (GIS)** is a computer-based tool for mapping and analyzing features in the environment. GIS support a wide range of activities including water quality modeling, watershed planning, and wetlands permitting and mitigation.

GI: Green" Infrastructure

Infiltration/Inflow (I/I): Rainwater, snowmelt, or groundwater flowing into separate sanitary or combined sewers, typically introduced via connected roof downspouts and/or building footing drains or infiltrating into the pipe through cracks in the pipe walls or joints.

This Period: Period covering the last 12 months from January to December

Last Period: Activities covering the 12 calendar months prior to the end of the current period

# **PART III - CSO BEST MANAGEMENT PRACTICES**

**Long Term Control Plan (LTCP):** An engineering document that characterizes and assesses CSO discharge to a receiving waterbody. The goal of the Plan is to comply with the water quality standards of the receiving waterbody.

Million Gallons per Day (MGD) is a unit of flow commonly used for wastewater discharges. One mgd is equivalent to 1.547 cubic feet per second.

Multiple Permittees here is described as when a group of permittees (e.g. Albany Pool) is responsible to develop a single LTCP or when a single LTCP is required for multiple SPDES permit under a single permittee (e.g. NYC).

Nine Minimum Controls (NMC) provide information on nine minimum technology-based controls that permittees are expected to use to address CSO problems, without extensive engineering studies or significant construction costs, before long-term measures are taken.

NYSDEC: New State Department of Environmental Conservation (interchangeably uses as DEC)

Publicly Owned Treatment Works (POTW): Also commonly referred to as "treatment facility, WWTP (Wastewater Treatment Plant)

**SPDES Permit:** State Pollutant Discharge Elimination System Permit. A permit issued by DEC, authorized under the federal Clean Water Act, to discharge treated wastewater to waters of the United States.

**Overflow Events:** An event starts once an overflow starts from an outfall, and ends once the overflow stops and the pumpback to treatment facility have ended.

**Presumptive Approach:** The presumption approach is based on the assumption that an LTCP that meets certain minimum defined performance criteria. The "presumption approach," under which achievement of certain performance criteria (i.e., 4-6 untreated overflow events or 85 percent by volume capture) would be presumed to provide an adequate level of control to attain water quality standards

Raw Sewage: Untreated sanitary sewage.

Sanitary Sewer Overflow (SSO) is an untreated or partially treated sewage discharge from the sanitary sewer collection system.

Separate Sewer (SS): A pipe or conduit intended to convey only sanitary sewage to a wastewater treatment facility.

SPDES: State Pollutant Discharge Elimination System

Sewer System: A public or privately owned wastewater collection facility designed and used to convey or treat sanitary sewage or sanitary sewage and storm water. Sewer system does not include an on-site wastewater treatment system serving one residential unit or duplex.

Supervisory Control and Data Acquisition (SCADA) is a complex computer system that provides automatic control of stormwater storage and overflows at various locations within the sewer system.

Volume Discharged: Total discharge volume for the event (in millions of gallons) from each CSO outfall within this reporting period.

**Volume Captured:** Total discharge volume for the event (in millions of gallons) that were either captured via an offline treatment facility before discharge or diverted to the WWTP for treatment.

WWOP: Wet Weather Operating Plan

Water Quality Standards (WQS) are regulations that establish the uses for which surface waters of the state are protected and include numeric and narrative criteria to protect those uses.