







Woodward WWTP Bypass and CSO Overflow Log  
2020

SAC #	Event #	Start		Location	Stop		Duration Hours	Volume ML	Disinfection Yes / No	Reason Code	Sample Results					Final Effluent		
		Date yyyy-mm-dd	Time		Date yyyy-mm-dd	Time					TBOD mg/L	Bypass or CSO Sample			E.coli CFU/100ml	pH	Total Cl mg/L	
904797	93	2020-10-07	08:25	HCG03	2020-10-07	09:15	0.83	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
904801	94	2020-10-13	02:51	HCG03	2020-10-13	03:36	0.75	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
904802	95	2020-10-15	14:48	HCG03	2020-10-15	23:10	2.50	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
904803	96	2020-10-15	22:36	HCG14	2020-10-16	11:15	12.65	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
		2020-10-16	21:03		2020-10-17	09:20												12.28
1377-BUFP4B	97	2020-10-16	13:41	HCG03	2020-10-16	13:46	0.08	n/a	No		n/a	n/a	n/a	n/a	n/a	n/a	n/a	
		2020-10-16	18:34		2020-10-16	22:44												4.17
904805	98	2020-10-19	21:55	HCG03	2020-10-20	00:10	2.25	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
		2020-10-20	01:07		2020-10-20	04:13												3.10
904806	99	2020-10-21	05:14	HCG03	2020-10-21	05:57	0.72	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
904809	100	2020-10-22	06:15	HCG03	2020-10-22	06:56	0.68	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
904828	101	2020-10-23	20:07	HCG03	2020-10-23	21:49	1.70	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
904829	102	2020-10-23	20:08	HCG14	2020-10-26	15:14	67.10	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
		2020-10-26	20:36		2020-10-27	10:26												13.83
		2020-10-27	16:37		2020-10-28	06:44												14.11
904803	103	2020-11-01	09:13	HCG03	2020-11-01	09:39	0.43	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
904839	104	2020-11-15	09:07	HCG03	2020-11-15	10:26	1.32	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
		2020-11-15	14:48		2020-11-15	15:22												0.57
904847	105	2020-11-22	12:54	HCG03	2020-11-22	18:47	5.88	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
904852	106	2020-11-26	02:32	HCG03	2020-11-26	02:58	0.43	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
904855	107	2020-11-30	08:43	HCG03	2020-11-30	14:57	6.23	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
904856	108	2020-11-30	11:32	HCG14	2020-11-30	12:19	0.78	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
904857	109	2020-11-30	11:50	S	2020-12-01	03:08	15.30	125.225	No	1,7	82	n/a	130	2.55	1,450,000	6.99	0.00	
201212-000001	110	2020-12-12	13:16	HCG03	2020-12-12	15:33	2.28	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
904867	111	2020-12-12	13:48	HCG14	2020-12-12	14:12	0.40	n/a	No	1,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
		2020-12-12	14:24		2020-12-12	14:27												0.05
		2020-12-12	14:28		2020-12-12	15:21												0.88
201228-000000	113	2020-12-28	01:19	HCG03	2020-12-28	05:08	3.82	n/a	No	1,2,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
		2020-12-28	05:50		2020-12-28	06:58												1.12
201228-000001	112	2020-12-28	04:39	S	2020-12-28	11:41	7.03	44.188	No	1,2,7	32	n/a	70	1.33	930,000	7.10	0.00	
201230-000000	115	2020-12-30	13:10	HCG03	2020-12-30	13:38	0.45	n/a	No	1,2,7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
		2020-12-30	14:27		2020-12-30	15:30												1.05
		2020-12-30	16:39		2020-12-30	18:23												1.75
		2020-12-30	18:48		2020-12-30	19:47												0.98
201230-000001	114	2020-12-30	18:43	S	2020-12-30	22:34	3.85	27.947	No	1,2,7	70	n/a	93	1.79	930,000	7.18	0.00	

791.80

2352.154

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		Date yyyy-mm-dd	Time		Date yyyy-mm-dd	Time					TBOD mg/L	Bypass or CSO Sample		E.coli CFU/100ml	pH	Total Cl mg/L	

**Legend / Notes****Bypass/Overflow Locations:**

PH= Plant bypass  
HW= Headworks bypass  
PR= Primary bypass  
S = Secondary bypass

HCS01 = Greenhill CSO  
HCS02 = Strachan St CSO  
HCS03 = James St CSO  
HCS04 = Main/King CSO  
HCS05 = Eastwood CSO  
HCS7C = Red Hill CSO  
HCS08 = Royal CSO  
HCS09 = McMaster CSO

HCG03 = Wentworth CSO Outfall  
HCG14 = Wellington CSO Outfall

**Wastewater Pumping Stations:** use station number

**Treatment Levels:**

**Plant bypass (PH)** - no treatment  
**Headworks bypass (HW)** - receives preliminary treatment  
**Primary bypass (PR)** - receives preliminary treatment  
**Secondary bypass (S)** - receives preliminary and primary treatment  
**CSO tank overflows** receive no treatment prior to discharge.

**Notes:**

\* Insufficient sample collected to analyze all parameters  
\*\* Sample could not be collected due to autosampler failure

**Sample Locations:**

Plant: Headworks in front of the barscreens  
Primary / Headworks: Inlet of the Primary Clarifiers  
Secondary: Outlet of the Primary Clarifiers

Note: a Final Effluent Outfall sample must be collected for all bypass types

**Volume Determination:**

Bypass flow volumes at the Woodward WWTP are estimated.  
CSO tank overflow volumes are measured.  
Pumping stations overflow volumes are measured.

**Reason Codes:**

1. Heavy Precipitation
2. Snow Melt
3. Equipment Failure
4. Equipment Maintenance
5. Sewer Problems
6. Power Failure
7. Exceed Design
8. Other