

*City of Butler* annual notification:

**Summarizing CSO Discharges for 2019**

Outfall 003 is located at the U.S. Hwy 6 bridge Lat: 41 25' 48" N Long: 84 51' 26" W

The receiving water: Big Run Ditch

**Table 1 below of all CSO events for 2019**

Date	Big Run Ditch	Duration	Volume	Rain/ Snow melt	Precipitation
		Hours	MGD		
1/23/19	Big Run Ditch	7.50	0.0150	Rain	0.53
2/3/19	Big Run Ditch	2.08	0.0810	Rain	0.14
2/6/19	Big Run Ditch	10.92	0.4980	Rain	0.74
2/24/19	Big Run Ditch	1.78	0.0040	Rain	0.3
3/9/19	Big Run Ditch	6.00	0.2610	Rain	0.99
3/10/19	Big Run Ditch	0.25	0.0001	Rain	0.01
3/14/19	Big Run Ditch	5.33	0.0370	Rain	0.08
3/30/19	Big Run Ditch	11.83	0.6170	Rain	1.25
3/31/19	Big Run Ditch	4.83	0.1840	Rain	0.1
4/19/19	Big Run Ditch	5.00	0.0410	Rain	0.37
4/20/09	Big Run Ditch	10.00	0.7170	Rain	0.82
4/21/19	Big Run Ditch	3.33	0.0300	Rain	0
4/25/19	Big Run Ditch	0.58	0.0001	Rain	0.59
4/26/19	Big Run Ditch	5.66	0.0360	Rain	0.36
4/27/19	Big Run Ditch	0.75	0.0002	Rain	0.51
4/28/19	Big Run Ditch	4.75	0.0440	Rain	0.18
4/29/19	Big Run Ditch	3.66	0.0360	Rain	0.5
4/30/19	Big Run Ditch	3.83	0.0270	Rain	0.6
5/17/20	Big Run Ditch	1.83	2.0970	Rain	0.19
5/22/19	Big Run Ditch	2.17	0.0290	Rain	0.65
5/23/19	Big Run Ditch	2.42	0.0420	Rain	0.4
6/1/19	Big Run Ditch	1.00	0.0220	Rain	1.17
6/10/19	Big Run Ditch	1.25	0.0980	Rain	0.36
6/16/19	Big Run Ditch	3.83	0.6660	Rain	0.7
6/21/19	Big Run Ditch	15.42	8.6750	Rain	1.73
7/3/19	Big Run Ditch	0.75	0.0100	Rain	1.42
7/21/19	Big Run Ditch	3.17	1.0240	Rain	2.43
8/14/2019	Big Run Ditch	0.66	0.0300	Rain	0.77
8/18/2019	Big Run Ditch	0.75	0.0380	Rain	0.71
8/21/2019	Big Run Ditch	0.92	0.0490	Rain	0.69
8/22/2019	Big Run Ditch	0.17	0.0001	Rain	0.06

9/23/2019	Big Run Ditch	1.66	0.1660	Rain	0.8
8/28/2019	Big Run Ditch	6.58	1.5410	Rain	1.37
8/30/2019	Big Run Ditch	4.33	0.2190	Rain	0.69
9/21/2019	Big Run Ditch	1.42	0.0080	Rain	0.65
9/26/2019	Big Run Ditch	7.92	1.2600	Rain	1.58
9/27/2019	Big Run Ditch	0.66	0.0010	Rain	0.08
9/31/19	Big Run Ditch	0.08	0.7670	Rain	0.26
10/27/2019	Big Run Ditch	6.25	0.3550	Rain	0.97
11/27/2019	Big Run Ditch	6.25	0.3680	Rain	0.97
12/29/2019	Big Run Ditch	5.66	0.0850	Rain	1.02
12/30/2019	Big Run Ditch	12.92	3.224	Rain	1.04

**The city had no dry weather discharges in 2019**

Table 2 below CSO Lab Data

DATE	CBOD mg/l	TSS mg/l	Total P mg/l	NH3- N mg/l	TDS mg/l	Special Cond.	Chlorides mg/l	Sulfates mg/l	HARDNESS mg/l	E. COLI mg/l	pH	DO mg/l
01/23/19	25	54	0.2	0.083	549	394	1070	15.6	644	x	7.59	8.46
01/10/00	10	62	0.41	0.648	367	521	120	21	156	x	7.6	8.9
03/09/19	5.3	82	0.978	1.15	226	377	80	23.7	137	x	7.26	8.55
03/14/19	26	22	0.691	0.961	190	258	40	50.2	218	x	7.81	8.4
03/30/19	29.25	41	0.354	0.403	528	709	80	67	291	x	7.8	8.64
04/19/19	36	23	1.17	2.37	284	469	60	15.5	236	1299.7	7.53	8.88
04/20/19	32.75	34	0.478	0.825	380	456	60	5.22	286	665.3	7.6	8.54
04/26/19	39.75	21	3.78	3.28	801	1142	150	4.53	321	791.5	7.78	8.47
04/28/19	37.25	77	1.01	0.664	202	325	60	1.02	252	816.4	7.88	8.82
04/29/19	28.75	119	0.732	1.41	258	328	120	11.7	283	640.5	7.58	8.7
04/30/19	56	88	0.567	1.09	300	411	50	17.1	441	330	7.63	8.74
05/17/19	36.25	133	1.16	1.79	134	186	40	25	213	870.4	7.92	8.55
05/22/19	18	215	1.42	0.613	560	807	140	21.5	460	328.2	7.75	8.71
06/01/19	20	187	0.992	1.78	142	203	50	17.7	507	960.6	7.17	8.81
06/10/19	43	120	1.08	1.2	213	313	40	17.7	285	1011.2	7.15	8.24
06/16/19	29.25	60	0.682	0.743	128	177.5	40	0.813	201	550.4	7.54	5-8.51
06/20/19	44.5	74	0.596	0.934	142	201.6	40	13.6	345	1011.2	7.46	8.63
07/03/19	56.75	212	1.18	2.78	203	281	60	16.5	151	1011.2	7.37	8.39
7/21/2019	43.5	91	0.987	2.3	151	215	40	21.3	347	960.6	7.71	8.41
08/18/19	32.25	61	0.636	0.964	122	189	40	16.2	302	1011.1	7.4	8.35

08/22/19	45.75	47	0.924	3.12	208	290	50	10.9	118	1011.1	7.3	8.5
09/23/19	62.5	80	1.46	1.16	95	171.4	30	23.7	91	721.5	7.57	8.91
09/28/19	48.5	33	0.576	0.4	339	183	40	5.8	233	30.5	7.9	8.8
09/30/19	43	29	0.354	0.23	685	989	80	15.2	296	101.4	7.76	9.36
10/26/19	55.75	92	0.882	1.77	192	275	30	12.2	352	1011.1	7.71	8.72
10/31/2019	44.75	31	0.66	1.74	202	291	40	3.85	395	5.2	7.35	8.84
11/27/19	36.25	35	0.867	0.451	784	1160	190	19.5	501	X	7.9	8.5
12/29/19	49.5	60	1.17	2.68	159	286	70	22.3	344	x	7.8	8.8

No public access areas potentially impacted, because the city does not have any access areas along Big Run Ditch.

See table 1 for perception on each day of an over flow

Nine Minimum Controls Implementation:

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

The city cleans and video's 25,000 feet a year.

**2. Maximize use of the collection system for storage.**

By cleaning the sewers the city is maximizing the capacity of the sewer system. The city has lined approximately 4 miles of sewer pipe and removed 500,00 gallons of industrial flow from the system. 74 manholes have been lined.

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

The city's Pretreatment program looks at all felicitities.

**4. Maximization of flow to the publicly owned treatment work (POTW) for treatment.**

The treatment plant and its wet weather treatment plant are set up to maximize flow to the plants before it over flows to Big run Ditch

**5. Prohibition of CSOs during dry weather.**

The City has not had a dry weather over flow in the last 20 years

**6. Control of solid and floatable materials in CSOs.**

This item will be addressed in our CSO construction project that is in the design phase

**7. Pollution prevention.**

The city continues the pretreatment program.

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

The city has a system that will email anyone that wants to be notified and it is posted to the city's website immediately

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

Besides site inspections, the city's has a stream assessment done every 4 to 5 years and for the last 15 years it has shown an increase in life in the stream. When it started the stream could have been considered as impaired, now it is teeming with life