

Boulder County LID – Eldorado Springs Wastewater Plant
Operations Report
June 2020

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WWTP

- Please see the attached results for the samples and flows collected from the WWTF. Flows have decreased 19% from May.
- See the table below on percentage capacity left at the plant.

Collections System

- The grinder pump at 31 Fowler was replaced on June 26. It was the first time this grinder had been replaced since it was put in.

Eldorado Springs Percentage Capacity Estimate

AVERAGE CAPACITY UTILIZED June - September 2017- 2020	Percentage Capacity to accept	Additonal Gallons/Day allowed
64.71%	15.29%	4894
57.16%	22.84%	

Eldorado Springs WWTP (cells highlighted contain formulas)

Parameter	20-Jun	20-May	20-Apr	20-Mar	20-Feb	20-Jan	19-Dec	19-Nov	19-Oct	19-Sep	19-Aug	19-Jul
Average Influent/Effluent Flow (MGD)	0.020489	0.028993	0.02416	0.0194	0.0165	0.017	0.0175	0.0192	0.0208	0.0198	0.0192	0.0179
Maximum Influent/Effluent flow (MGD)	0.02825	0.0347	0.02939	0.0244	0.0194	0.0183	0.0184	0.026	0.0229	0.0267	0.0197	0.0226
Average Influent BOD (mg/L)	453	359	381	193	291	219	386	319	272	249	244	182
* Average Influent BOD (#s/d)	65.76	38.17	63.55	20.35	39.32	29.59	47.97	49.54	48.55	42.99	38.26	26.56
Average Influent TSS (mg/L)	558	273	460	150	256	200	366	290	353	235	88	156
* Plant Capacity Flow P (%)	64.03%	90.60%	75.50%	60.63%	51.56%	53.13%	54.69%	60.00%	65.00%	61.88%	60.00%	55.94%
* Plant Capacity Loading Q (%)	90.08%	52.29%	87.06%	27.88%	53.86%	40.53%	65.71%	67.86%	66.50%	58.89%	52.41%	36.38%
Day of sample Influent/Effluent Flow (MGD)	0.017405	0.01275	0.020	0.013	0.016	0.016	0.015	0.019	0.021	0.021	0.019	0.017
Average Effluent BOD (mg/L)	2	7	10	5	4	5	2	2	4	2	2	11
Average Effluent TSS (mg/L)	7	6	6	13	9	14	6	8	19	9	11	6
* BOD % Removal	99.56%	98.05%	97.38%	97.41%	98.63%	97.72%	99.48%	99.37%	98.53%	99.20%	99.18%	93.96%
* TSS % Removal	98.75%	97.80%	98.70%	91.33%	96.48%	93.00%	98.36%	97.24%	94.62%	96.17%	87.50%	96.15%
Average Effluent Ammonia Nitrogen (mg/L)	0.05	0.19	0.115	0.45	0.53	0.14	0.14	0.4	2.97	19.77	24.88	6.89
TIN Monthly Rolling Average	8.573	9.268	13.902	13.240	13.990	14.594	16.456	17.758	17.228	16.836	15.468	13.904
TIN(mg/L)	4.57	3.43	11.53	1.31	2.65	5.02	6.28	10.8	5.42	19.77	24.99	7.1
NO2+NO3 (mg/L)	4.52	3.24	11.415	0.86	2.12	4.88	6.14	9.98	2.45	0.19	0.11	0.21
Ecoli (#/100 ml)	1	69.56	1	1	1	2	1	1	1	1	1	49.2
* Ecoli Rolling Annual Average	10.81	10.81	28.77	28.77	28.77	31.60	31.52	31.52	31.52	31.52	31.52	31.52
pH (Minimum)	6.59	6.54	6.80	6.83	6.81	6.72	6.87	6.64	6.70	6.74	6.89	6.77
pH (Maximum)	6.91	7.12	7.49	7.89	7.06	7.06	7.00	7.12	7.25	7.14	7.31	7.47
Ave Influent TKN	80.60	42.80	86.50	68.30	69.40	71.10	78.00	62.30	49.80	54.00	93.90	92.20
Ave Effluent TKN	0.03	1.10	1.15	1.90	1.70	1.20	1.10	1.90	4.90	19.90	25.00	7.10