

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

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WWTP

- Please see the attached results for the samples and flows collected from the WWTF.

Eldorado Springs WWTP (cells highlighted contain formulas)

Parameter	20-Nov	20-Oct	20-Sep	20-Aug	20-Jul	20-Jun	20-May	20-Apr	20-Mar	20-Feb	20-Jan	19-Dec	19-Nov
Average Influent/Effluent Flow (MGD)		0.017167	0.016911	0.018469	0.01663	0.020489	0.028993	0.02416	0.0194	0.0165	0.017	0.0175	0.0192
Maximum Influent/Effluent flow (MGD)		0.022265	0.020842	0.01974	0.018864	0.02825	0.0347	0.02939	0.0244	0.0194	0.0183	0.0184	0.026
Average Influent BOD (mg/L)	229	343	347	354	333	453	359	381	193	291	219	386	319
* Average Influent BOD (#s/d)		49.26	54.12	55.05	52.39	65.76	38.17	63.55	20.35	39.32	29.59	47.97	49.54
Average Influent TSS (mg/L)	218	294	747	337	312	558	273	460	150	256	200	366	290
* Plant Capacity Flow P (%)		53.65%	52.85%	57.72%	51.97%	64.03%	90.60%	75.50%	60.63%	51.56%	53.13%	54.69%	60.00%
* Plant Capacity Loading Q (%)		67.48%	74.13%	75.41%	71.77%	90.08%	52.29%	87.06%	27.88%	53.86%	40.53%	65.71%	67.86%
Day of sample Influent/Effluent Flow (MGD)		0.017	0.019	0.019	0.019	0.017405	0.01275	0.020	0.013	0.016	0.016	0.015	0.019
Average Effluent BOD (mg/L)	2	2	6	5	5	2	7	10	5	4	5	2	2
Average Effluent TSS (mg/L)	6	8	14	12	12	7	6	6	13	9	14	6	8
* BOD % Removal		99.42%	98.27%	98.59%	98.50%	99.56%	98.05%	97.38%	97.41%	98.63%	97.72%	99.48%	99.37%
* TSS % Removal		97.28%	98.13%	96.44%	96.15%	98.75%	97.80%	98.70%	91.33%	96.48%	93.00%	98.36%	97.24%
Average Effluent Ammonia Nitrogen (mg/L)	0.34	1.85	3.43	9.3	1.8	0.05	0.19	0.115	0.45	0.53	0.14	0.14	0.4
TIN Monthly Rolling Average		6.310	5.982	7.119	8.370	8.573	9.268	13.902	13.240	13.990	14.594	16.456	17.758
TIN(mg/L)	14.69	9.36	6.13	9.975	4.67	4.57	3.43	11.53	1.31	2.65	5.02	6.28	10.8
NO2+NO3 (mg/L)	14.34	7.52	2.69	0.67	2.87	4.52	3.24	11.415	0.86	2.12	4.88	6.14	9.98
Ecoli (#/100 ml)	1	1.85	1	3	1	1	69.56	1	1	1	2	1	1
* Ecoli Rolling Annual Average		7.03	6.96	6.96	6.80	10.81	10.81	28.77	28.77	28.77	31.60	31.52	31.52
pH (Minimum)		6.75	6.78	6.82	6.81	6.59	6.54	6.80	6.83	6.81	6.72	6.87	6.64
pH (Maximum)		7.16	7.03	7.02	7.21	6.91	7.12	7.49	7.89	7.06	7.06	7.00	7.12
Ave Influent TKN	63.10	90.62	112.00	109.40	61.10	80.60	42.80	86.50	68.30	69.40	71.10	78.00	62.30
Ave Effluent TKN	1.10	1.90	4.80	13.70	1.80	0.03	1.10	1.15	1.90	1.70	1.20	1.10	1.90
* Average #'s Nitrate		1.08	0.42	0.10	0.45	0.66	0.34	1.90	0.09	0.29	0.66	0.76	1.55