

Boulder County LID – Eldorado Springs Wastewater Plant
Operations Report
June 2021

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WWTP

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

Collections system

- No grinders to report in June.

ELDORADO SPRINGS WWTP													
PERMIT# CO 0047651													
Permitted Flow 0.032 (MGD)													
Permitted Loading 73#/day													
(cells highlighted contain formulas)													
Parameter	21-Jul	21-Jun	21-May	21-Apr	21-Mar	21-Feb	21-Jan	20-Dec	20-Nov	20-Oct	20-Sep	20-Aug	20-Jul
INFLUENT - MONTHLY													
Average Influent/Effluent Flow (MGD)		0.01618	0.0183	0.0148	0.018371	0.018914	0.017811	0.018146	0.0202	0.017167	0.016911	0.018469	0.01663
Maximum Influent/Effluent flow (MGD)		0.01828	0.0216	0.020006	0.02275	0.021802	0.01886	0.02229	0.0209	0.022265	0.020842	0.01974	0.018864
Influent BOD (mg/L)	280	185	214	354	528	394	311	259	229	343	347	354	333
Influent BOD (#s/d)	0.00	27.22	34.80	51.05	80.95	55.33	48.76	38.77	35.16	49.26	54.12	55.05	52.39
Influent TSS (mg/L)	369	294	79	488	409	494	338	374	218	294	747	337	312
Influent TKN (mg/L)	84.80	28.30	44.80	68.60	97.20	84.80	87.30	109.60	63.10	90.62	112.00	109.40	61.10
* Plant Capacity Hydraulic P (%)	0.00%	50.56%	57.19%	46.25%	57.41%	59.11%	55.66%	56.71%	63.13%	53.65%	52.85%	57.72%	51.97%
* Plant Capacity Organic Q (%)	0.00%	37.28%	47.68%	69.93%	110.90%	75.79%	66.80%	53.11%	48.16%	67.48%	74.13%	75.41%	71.77%
Day of sample Influent/Effluent Flow (MGD)		0.018	0.020	0.017	0.018	0.017	0.019	0.018	0.018	0.017	0.019	0.019	0.019
EFFLUENT - MONTHLY													
Temperature (Nov-Apr)													
Ammonia Nitrogen (mg/L)	0.63	0.66	10.21	22.65	0.19	0.44	0.42	0.89	0.34	1.85	3.43	9.3	1.8
Ammonia Nitrogen RA - See Tab		5.42	5.2	11.3825	0.32	0.485	0.28	0.515	0.37	2.41	11.6	9.24	7.69833333
TIN(mg/L) 10 max	1.76	1.22	11.07	23.11	2.26	7.33	4.44	8.69	14.69	9.36	6.13	9.975	4.67
TIN RA 1.5 Beginning 1/1/22	8.187	8.934	9.248	9.066	7.505	8.161	8.279	8.919	8.965	7.534	6.925	7.323	4.670
NO2+NO3 (mg/L)	1.14	0.56	0.86	0.46	2.07	6.88	4.02	7.8	14.34	7.52	2.69	0.67	2.87
Ecoli (876 ml)		1	1	1733	1	1	1	1	1	1	1	3	1
* Ecoli RA 127	174.20	158.64	158.64	174.40	1.22	1.25	1.29	1.33	1.40	1.50	1.67	2.00	1.00
pH (Minimum) 6.5		6.97	6.95	7.20	6.94	6.81	6.86	6.85	6.90	6.75	6.78	6.82	6.81
pH (Maximum) 9.0		7.40	7.51	7.78	7.42	7.13	7.30	7.08	7.49	7.16	7.03	7.02	7.21
Effluent TKN	4.50	5.90	16.10	23.60	3.10	3.80	2.90	1.00	1.10	1.90	4.80	13.70	1.80
* Average #'s Nitrate	0.00	0.08	0.14	0.07	0.32	0.97	0.63	1.17	2.20	1.08	0.42	0.10	0.45
Effluent Arsenic (ug/L)							6.00						
2YR Arsenic (ug/L)							1.50						
Effluent Copper (ug/L)							9.50						
2YR Copper (ug/L)							2.38						
EFFLUENT - QUARTERLY													
Effluent BOD (mg/L) 30/45 mg/L	8	23	15	5	9	2	6	6	2	2	6	5	5
Highest BOD		23			9								
Effluent TSS (mg/L) 30/45 mg/L	21	26	30	16	21	5	16	7	6	8	14	12	12