



KENNEBEC SANITARY TREATMENT DISTRICT

FLOW, BOD, TSS - THREE YEAR COMPARISON 2024 YEAR-END SUMMARY



APPROVED
JANUARY 15, 2025

	2022		2023		2024		3 Yr Avg	
	MG Treated	%	MG Treated	%	MG Treated	%	MG	%
FLOW								
BENTON	25.91	1.12%	34.71	1.37%	27.26	1.22%	29.29	1.24%
FAIRFIELD	178.67	7.75%	210.92	8.34%	188.52	8.43%	192.70	8.18%
WATERVILLE	975.43	42.29%	1,150.19	45.47%	1,009.28	45.15%	1044.97	44.33%
HI	805.43	34.92%	736.18	29.10%	689.35	30.84%	743.65	31.55%
WINSLOW	321.20	13.92%	397.55	15.72%	321.07	14.36%	346.61	14.70%
KSTD TOTAL	2,306.64	100.00%	2,529.56	100.00%	2,235.48	100.00%	2357.22	100.00%

RAIN (IN)	43.9"	51.6"	44.7"
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	LBS Treated		LBS Treated		LBS Treated	
		%		%		%
BOD						
BENTON	30,386	0.78%	34,952	1.21%	28,710	1.17%
FAIRFIELD	175,914	4.49%	168,837	5.84%	134,440	5.47%
WATERVILLE	958,879	24.48%	1,209,517	41.84%	1,054,698	42.90%
HI	2,374,804	60.63%	1,079,176	37.33%	953,411	38.78%
WINSLOW	377,042	9.63%	398,480	13.78%	287,272	11.68%
KSTD TOTAL	3,917,025	100.00%	2,890,962	100.00%	2,458,530	100.00%

BOD AVG CONCENTRATIONS (ppm)			
2022	2023	2024	3 Yr Avg
141	121	126	129
118	96	86	100
118	126	125	123
354	176	166	232
141	120	107	123
203.6	137.0	131.9	158

	LBS Treated		LBS Treated		LBS Treated	
		%		%		%
TSS						
BENTON	32,955	0.68%	45,356	1.11%	39,130	0.94%
FAIRFIELD	214,350	4.42%	195,840	4.79%	182,407	4.39%
WATERVILLE	1,613,068	33.30%	1,187,348	29.04%	1,094,564	26.34%
HI	2,537,665	52.38%	2,186,242	53.48%	2,454,151	59.05%
WINSLOW	446,644	9.22%	473,542	11.58%	385,828	9.28%
KSTD TOTAL	4,844,683	100.00%	4,088,329	100.00%	4,156,080	100.00%

TSS AVG CONCENTRATIONS (ppm)			
2022	2023	2024	3 Yr Avg
153	157	172	160
144	111	116	124
198	124	130	151
378	356	427	387
167	143	144	151
252	194	223	223



	2022		2023		2024	
		% of WSD		% of WSD		% of WSD
Oakland						
Flow, MGD	98.774	10.60%	123.609	10.13%	101.032	10.01%
*TSS - LBS	122,907	8.25%	153,543	18.04%	123,164	11.25%
*BOD - LBS	105,410	8.49%	130,086	8.26%	98,808	9.37%

*Average of TSS	ppm 145
*Average of BOD	117

PUMP STATION FLOW BREAKDOWN

Main Station						
	2022		2023		2024	
	MG	%	MG	%	MG	%
BENTON	25.91	2.36%	34.71	3.10%	27.26	2.88%
FAIRFIELD	131.03	11.96%	150.41	13.42%	128.52	13.58%
HUHTAMAKI	805.43	73.50%	736.18	65.69%	689.35	72.85%
WATERVILLE	133.42	12.18%	199.37	17.79%	101.18	10.69%
TOTAL:	1,095.78	100.00%	1,120.67	100.00%	946.32	100.00%

Fairfield Station						
	2022		2023		2024	
	MG	%	MG	%	MG	%
BENTON	25.91	16.51%	34.71	18.75%	27.26	17.50%
FAIRFIELD	131.03	83.49%	150.41	81.25%	128.52	82.50%
TOTAL:	156.94	100.00%	185.12	100.00%	155.78	100.00%

Note*: Treatment plant flows include all received flows, where the totals on page one have deducted trucked in and leachate from old KSTD landfill