



City of Sturgis

WWTP

2006

Annual Summary of Influent and Effluent Sampling

The following table contains the annual averages of all sampling results (including the units used) taken by the POTW during the reporting period. The number of samples used to calculate the annual average is in (). The level of detection is in []. For the purpose of calculating the average , those sampling results below the level of detection are treated as zero (0).

Parameter	Reading	Loading Lbs	Max	% Removed	Number of samples used for average	Average of detection limit		
INFLUENT								FLOW, MIL GAL
Influent BOD	289 mg/L	2,580			(365)	[2]	AVG day	1.07
Influent SS	271 mg/L	2,427			(365)	[2]	Max day	2.88
Influent Phosphorus	7.31 mg/L	66			(55)	[0.1]	TOTAL	392
Influent NH3	27.9 mg/L	249			(365)	[0.1]		
Influent pH	7.6 S.U.				(365)	[]		
EFFLUENT								
Effluent BOD	4 mg/L		40	99%	(365)	[2]	final eff flow	
Effluent SS	5 mg/L		13	98%	(365)	[2]		1.03
Effluent Phosphorus	0.54 mg/L		0.9	92%	(55)	[0.1]	Max day	2.88
Effluent NH3	0.71 mg/L		9.3	98%	(365)	[0.1]		374.30
Effluent pH	7.6 S.U.		8.0		(365)	[]		
Cyanide, A	0.000 ug/L				(1)	[5]		
Cadmium	0.200 ug/L				(1)	[2]		
Copper	4.00 ug/L				(1)	[1]		
Selenium	0.000 ug/L				(1)	[2]		
Lead	0.000 ug/L				(1)	[1]		
Zinc	15.00 ug/L				(1)	[15]		

Dissolved Oxygen, minimum

5.10

Fe 47,037 \$15,993

Electric 731,160 \$58,493

Cl2 2,150 \$1,301

Polymer 87 \$131

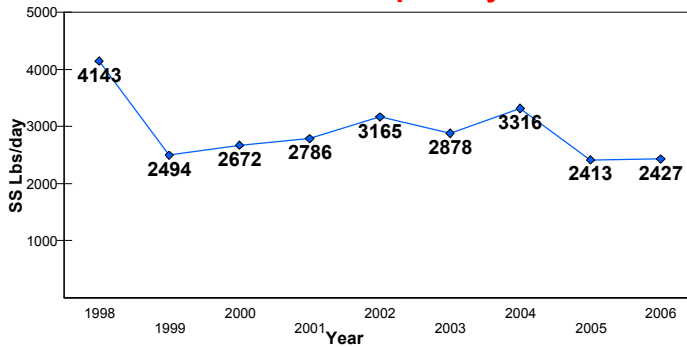
Bisulfite



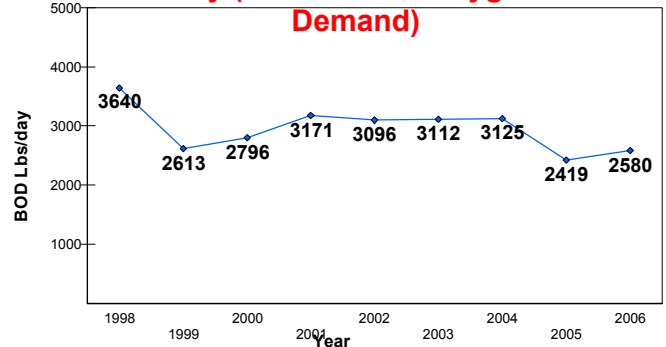
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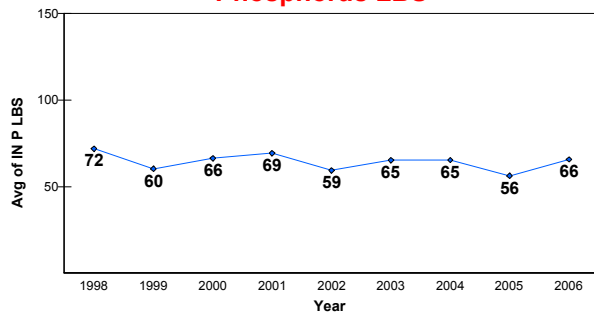
Avg of Influent Suspended Solids LBS per day



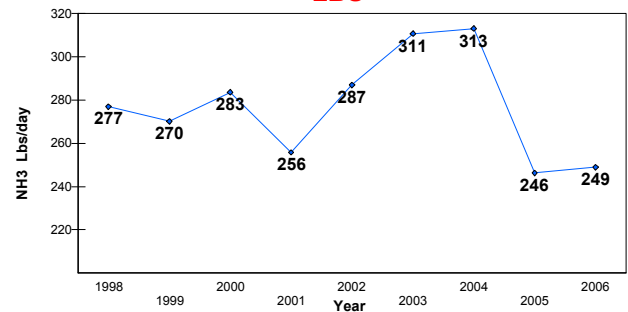
Avg of Influent BOD LBS per day (Biochemical Oxygen Demand)



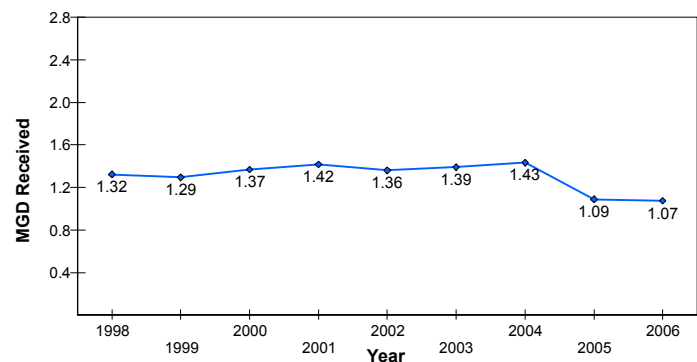
Avg of Influent Phosphorus LBS



Avg of Influent Ammonia N LBS



Average Million Gallons per day Influent



Respectfully Submitted,

Jeannette Fenner