



2008

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	273 mg/L	2,391			(366)	[2]	AVG day	1.05
Influent SS	243 mg/L	2,138			(366)	[2]	Max day	1.82
Influent Phosphorus	6.95 mg/L	62			(53)	[0.1]	TOTAL	386
Influent NH3	28.4 mg/L	248			(366)	[0.1]		
Influent pH	7.7 S.U.				(366)	[]		
EFFLUENT								
			min % rem					
Effluent BOD	3 mg/L	93%	13	98%	(366)	[2]	final eff flow	
Effluent SS	4 mg/L	91%	10	98%	(366)	[2]		1.29
Effluent Phosphorus	0.47 mg/L	81%	0.8	91%	(53)	[0.1]	Max day	2.80
Effluent NH3	0.80 mg/L	18%	20.8	97%	(366)	[0.1]		472
Effluent pH	7.6 S.U.		8.0		(366)	[]		
Cadmium	0.000 ug/L				(5)	[2]		
Copper	5.76 ug/L				(5)	[1]		
Lead	0.000 ug/L				(5)	[1]		
Zinc	18.20 ug/L				(5)	[15]		

Dissolved Oxygen, minimum 5.40

LBS

Fe **44,884 \$17,505**
 Cl2 **2,516 \$1,216**
 Polymer **0 \$0**

Electric **710,280 KWH \$62,150**

Gas Produced **45,492**

Decant gallons **1,621,968**

Sturgis WWTP

Summary of Biosolids Analysis for Calendar year 2008

	%Total Solids	% Volatile Solids	S.U.	Arsenic mg/kg	Cadmium mg/kg	Chromium mg/kg	Copper mg/kg	Lead mg/kg	Mercury mg/kg	Nickel mg/kg
DATE	TS	TVS	pH	AS	CD	CR	CU	PB	HG	NI
1/11/08	11.3	38	7.1	7	2.6	108	875	36	1.39	39
4/4/08	9.1	56	7.2	6.4	1.9	90	760	47	1.9	26
7/11/08	11.95	59	7.2	6.1	2	82	830	53	1.2	31
10/15/08	4	54	7.5	5.9	1.9	73	780	43	2	25
Avg	9.09	52	7.25	6.4	2.1	88	811	45	1.62	30.25
Max	11.95	59	7.5	7	2.6	108	875	53	2	39
Min	4	38	7.1	5.9	1.9	73	760	36	1.2	25
# of sample:	4	4	4	4	4	4	4	4	4	4

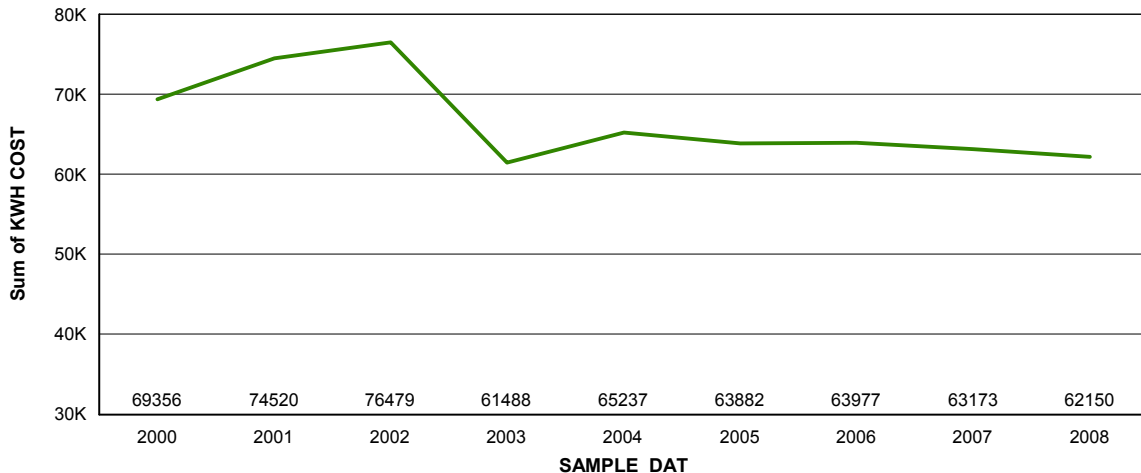
	Molybdenum mg/kg	Potassium % wt	Selenium mg/kg	Silver mg/kg	Zinc mg/kg	Ammonia % wt	Nitrate % wt	Total Nitrogen % wt	Phosphorus % wt
DATE	MO	K	SE	AG	ZN	NH4	NO3	TKN	P
1/11/08	46	0.089	6	32	1090	1.17	0.001	5.12	3.89
4/4/08	38	0.099	3.3	15	940	0.76	0.0002	0.76	2.9
7/11/08	37	0.1	2.8	19	1500	0.77	0.00021	0.77	3.4
10/15/08	38	0.17	4	17	1000	1.7	0.0005	1.7	4.2
Avg	39.75	0.11	4.025	20.75	1133	1.10	0.000	2.09	4.25
Max	46	0.17	6	32	1500	1.7	0.001	5.12	4.2
Min	37	0.089	2.8	15	940	0.76	0.000	0.76	2.9
# of sample:	4	4	4	4	4	4	4	4	4



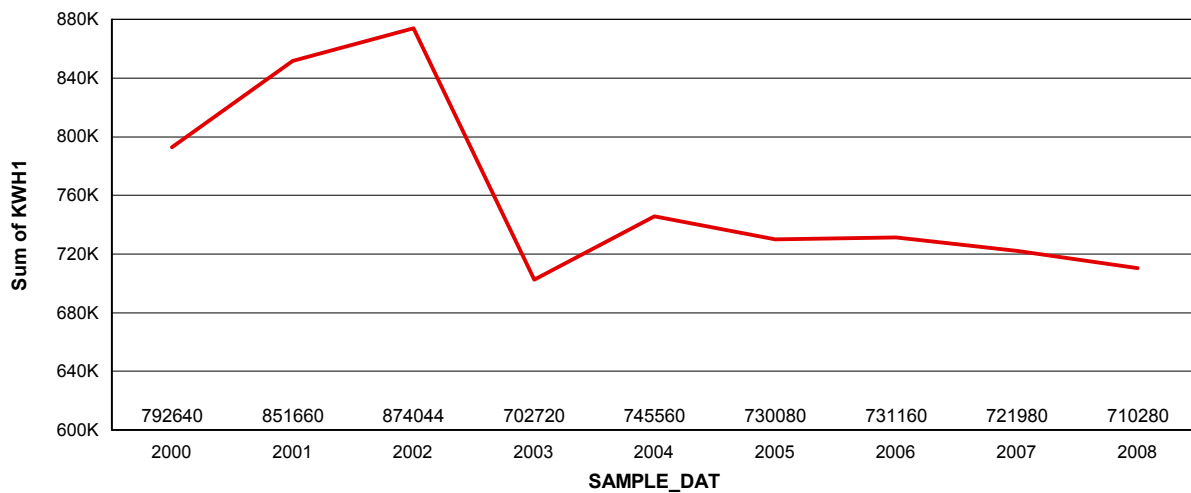
City of Sturgis

WWTP

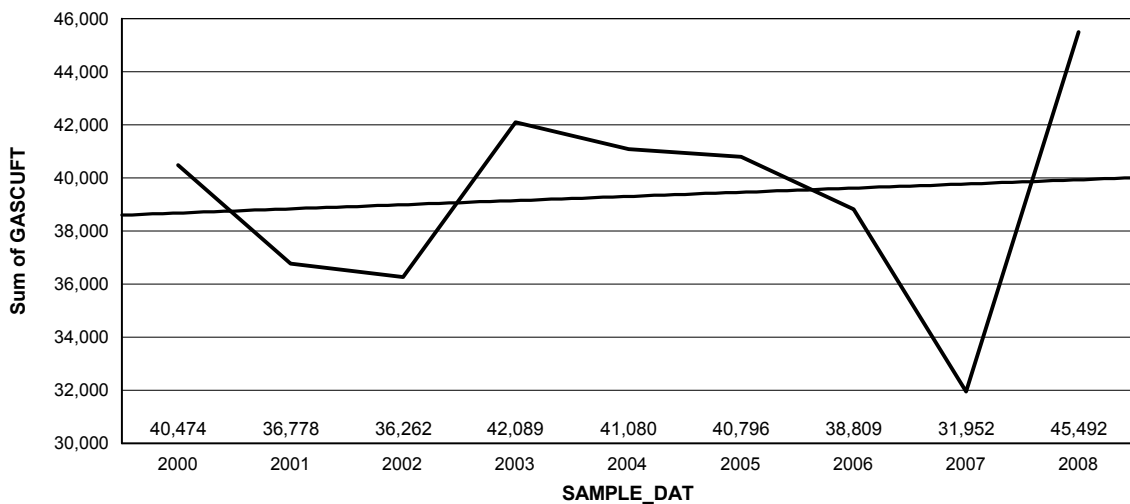
Sum of KWH COST



Sum of KWH1



Sum of GAS Produced CUFT

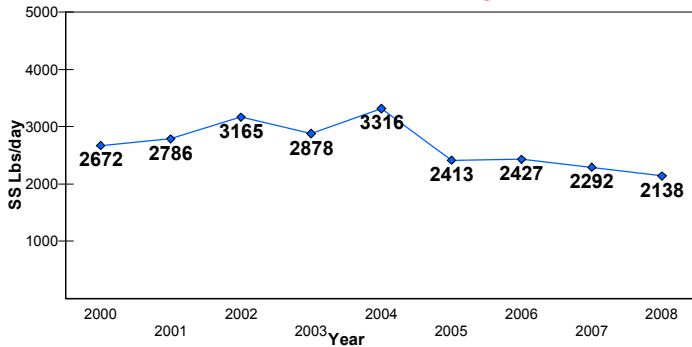




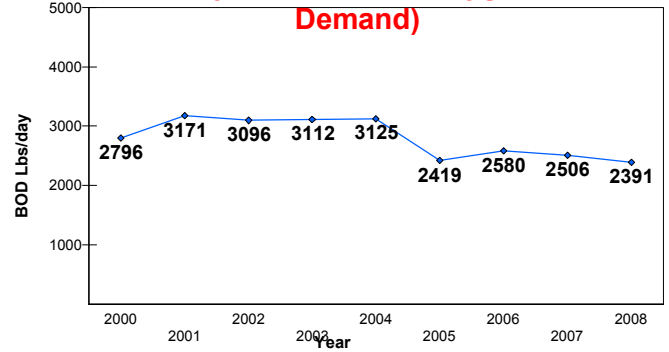
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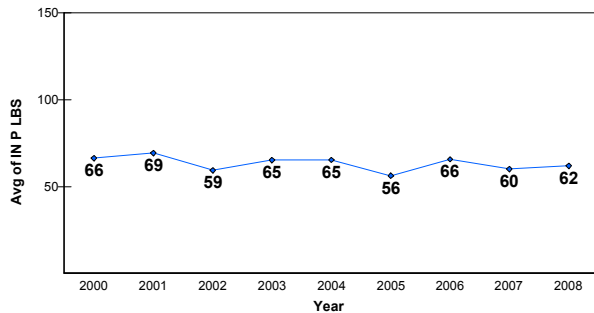
Avg of Influent Suspended Solids LBS per day



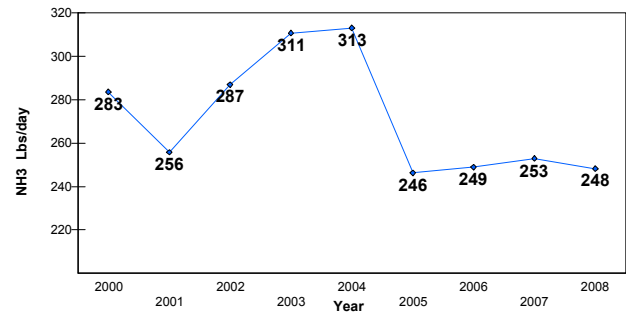
Avg of Influent BOD LBS per day (Biochemical Oxygen Demand)



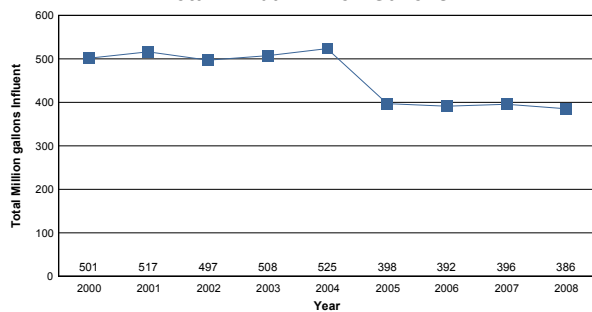
Avg of Influent Phosphorus LBS



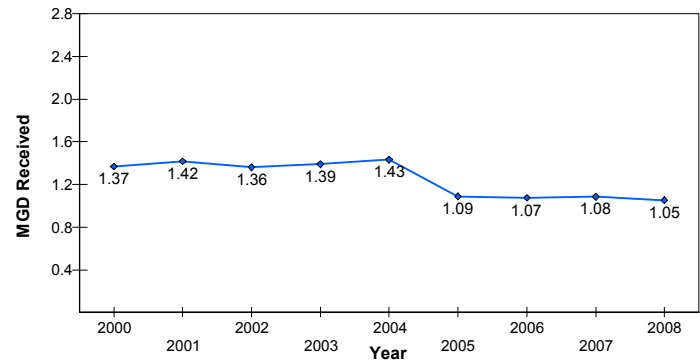
Avg of Influent Ammonia N LBS



Total Annual Million Gallons



Average Million Gallons per day Influent



Respectfully Submitted,

Jeannette Fenner