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A. Flows

Point Loma Wastewater Treatment Plant Annual Monitoring Report

Flow Report - 2001

WASTEWATER FLOWS

Daily Average Flows - Millions of Gallons

	Pt. L	Pt. L	PS#2	PS#2	PS#1
Mon	Gould	ADS	Flow	Pumps	Flows
01	180.3	178.5	185.4	185.4	65.8
02	184.3	182.6	190.8	190.8	66.6
03	184.9	183.2	189.6	189.5	65.7
04	174.9	173.2	180.6	180.6	64.5
05	171.0	168.8	177.5	177.6	63.6
06	170.0	168.3	175.1	175.9	63.4
07	171.8	172.6	173.4	175.6	63.8
08	173.4	171.2	167.9	167.9	63.7
09	172.6	173.1	171.7	171.6	64.1
10	170.2	169.1	169.7	169.7	63.6
11	171.9	171.4	169.8	169.7	65.5
12	171.6	170.7	167.7	167.7	63.9
avg	174.7	173.6	176.6	176.8	64.5
sum	2,096.8	2,082.8	2,119.3	2,122.0	774.1

WASTEWATER FLOWS

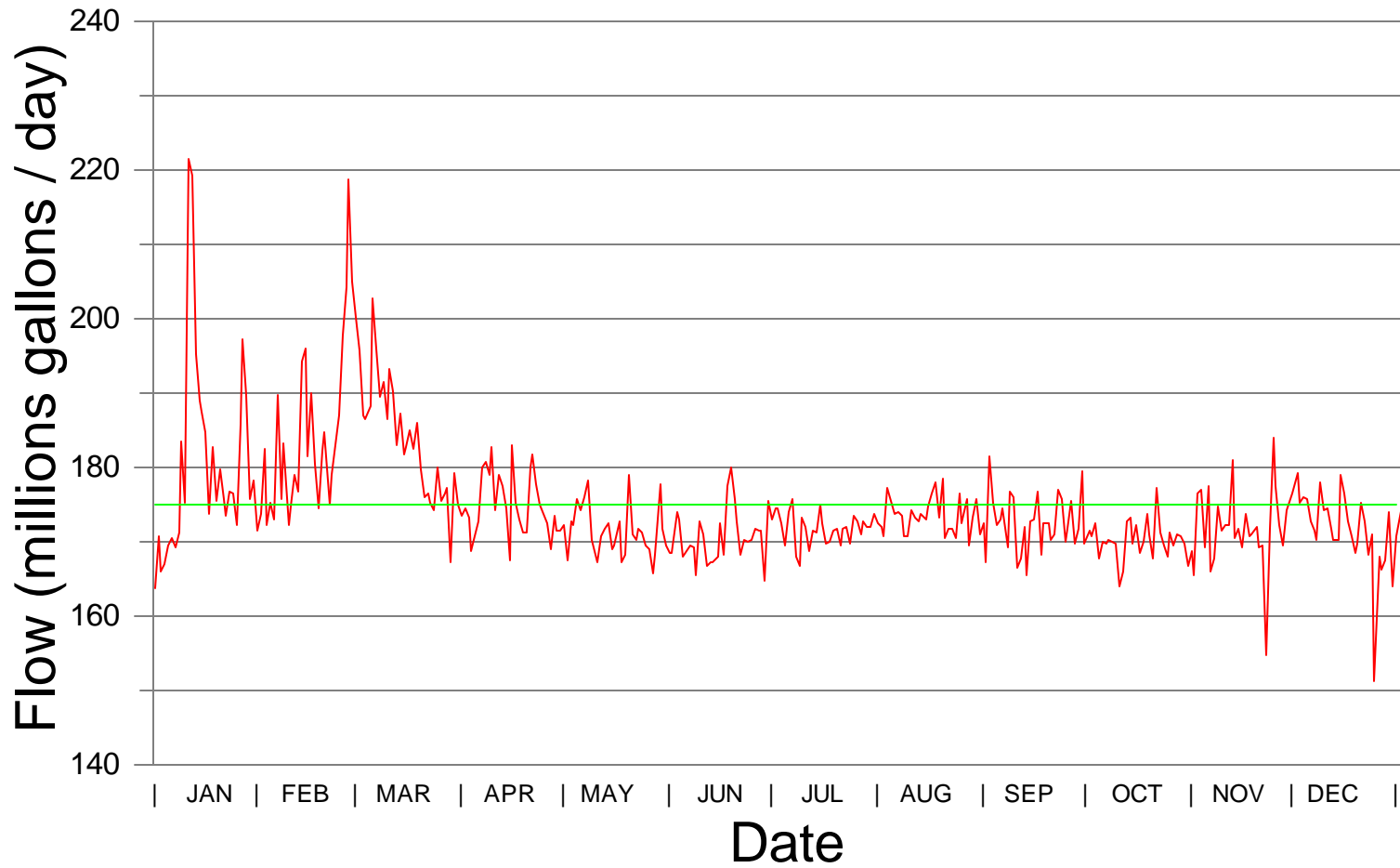
Monthly Total Flows - Millions of Gallons

	Pt. L	Pt. L	PS#2	PS#2	PS#1
Mon	Gould	ADS	Flow	Pumps	Flows
01	5,588	5,534	5,749	5,748	2,041
02	5,161	5,112	5,341	5,341	1,864
03	5,177	5,680	5,876	5,876	2,035
04	5,247	5,195	5,418	5,418	1,936
05	5,130	4,220	5,503	5,505	1,970
06	4,760	2,862	5,254	5,277	1,901
07	5,326	1,899	5,377	5,443	1,978
08	5,376	1,027	5,206	5,206	1,974
09	5,004	5,192	5,150	5,148	1,922
10	5,275	5,241	5,261	5,260	1,971
11	5,156	5,142	5,094	5,090	1,964
12	5,321	3,415	5,199	5,199	1,982
avg	5,210	4,210	5,369	5,376	1,962
sum	62,521	50,521	64,428	64,511	23,539

NOTES: The flows taken at the Pt. Loma WWTP are from the Parshall flumes at the headworks. Water depth in the flume is measured by 2 meters. The Gould meters measure water pressure. The ADS meters are sonar devices that measure the distance of the water level below the meter. The flows through Pump Station II(PS#2) are from venturi meters. PS#2 flow is the flow from the totalizer to which all of the venturi meters feed. PS#2 Pumps is the sum of the readings on the individual venturi meters which are connected to each of the pumps at the pump station. PS#1 is the flow from the venturi meters at Pump Station 1.

Daily Flows (mgd)

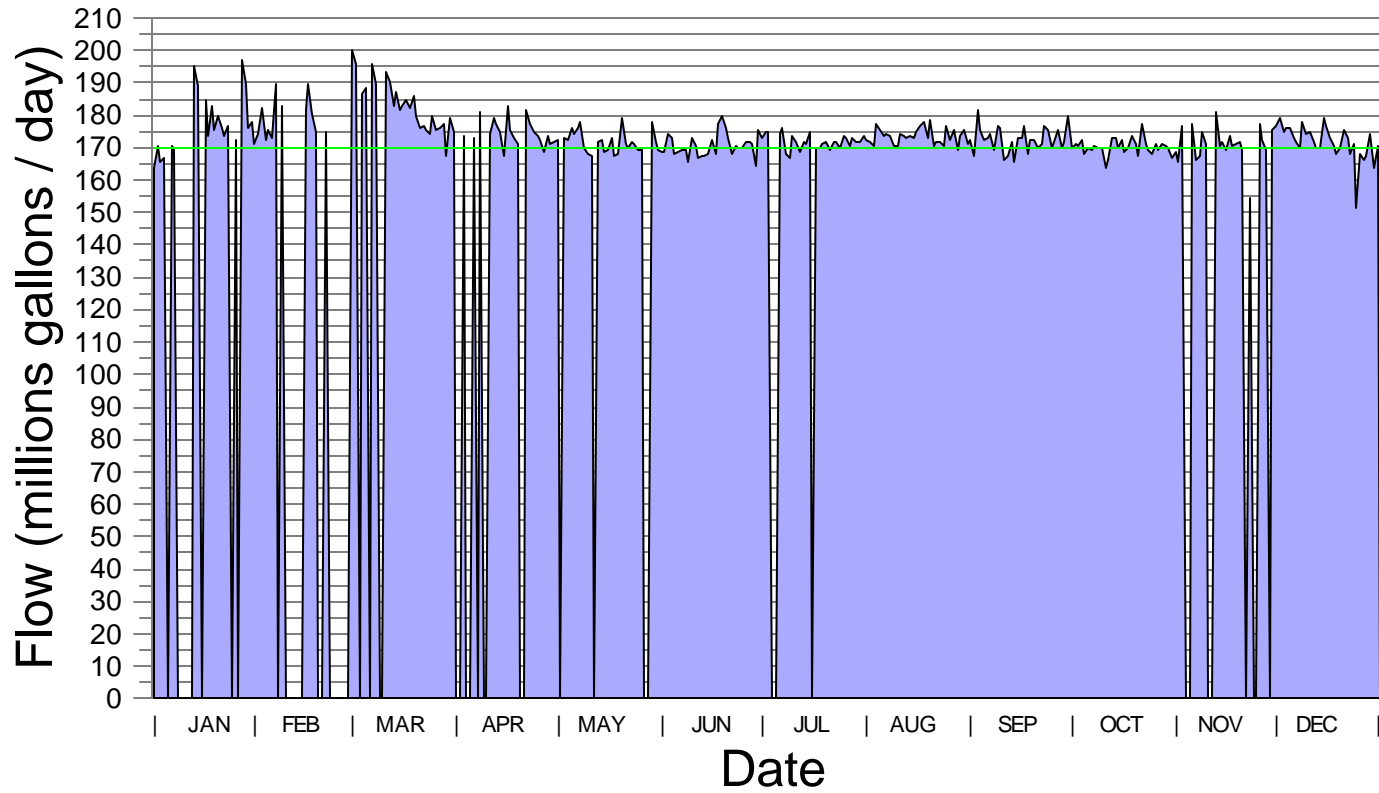
Point Loma Wastewater Treatment Plant 2001 Daily Flows (mgd)



Daily Flows (mgd) - 2001

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	163.7	173.9	200.2	173.4	172.2	168.6	172.9	172.6	172.5	169.8	168.6	176.4	
2	170.7	182.4	195.7	174.4	167.6	168.5	174.5	172.0	167.2	171.4	165.4	179.1	
3	165.9	172.3	187.0	173.3	172.7	173.9	174.6	170.7	181.5	170.8	176.4	175.1	
4	167.1	175.3	186.5	168.7	172.3	172.9	172.4	177.1	175.2	172.6	177.0	176.1	
5	169.6	172.9	188.1	170.8	175.8	168.0	169.6	175.4	172.3	167.8	169.2	175.8	
6	170.5	189.7	202.8	172.7	174.1	168.6	173.9	173.6	173.0	169.9	177.6	172.8	
7	169.3	175.9	195.9	179.9	176.0	169.4	175.8	174.1	174.4	169.6	166.0	171.5	
8	171.2	183.1	189.6	180.8	178.2	169.2	167.9	173.4	169.2	170.4	167.7	170.2	
9	183.6	172.3	191.5	179.1	170.1	165.5	166.7	170.7	176.8	170.0	174.7	177.8	
10	175.1	174.7	186.5	182.6	168.2	172.6	173.3	170.8	175.9	169.8	171.4	174.2	
11	221.6	179.1	193.3	174.2	167.2	170.8	172.0	174.1	166.4	163.9	172.3	174.6	
12	219.3	176.6	190.2	178.9	170.7	166.6	168.8	173.3	167.7	165.9	172.3	171.6	
13	195.3	194.3	183.0	177.5	171.6	167.2	171.5	172.7	172.0	172.6	180.9	170.1	
14	188.9	196.0	187.1	174.5	172.3	167.2	171.3	173.7	165.4	173.2	170.5	170.1	
15	187.4	181.5	181.8	167.5	168.8	168.0	174.9	173.1	172.6	169.7	171.8	178.9	
16	184.8	189.9	182.9	182.9	169.4	172.5	172.5	174.7	172.9	172.2	169.3	176.6	
17	173.7	180.5	185.1	175.3	172.7	168.1	169.7	176.4	176.8	168.4	173.8	172.6	
18	182.7	174.6	182.5	173.1	167.2	177.5	170.1	177.9	168.2	169.9	170.6	170.8	
19	175.5	182.1	186.0	171.2	168.2	180.0	171.5	173.2	172.3	173.6	171.0	168.4	
20	179.6	184.8	179.7	171.2	178.9	175.9	171.7	178.5	172.6	171.0	171.9	169.7	
21	175.8	175.1	175.9	179.8	171.0	172.8	169.4	170.5	170.1	167.7	169.2	175.3	
22	173.4	178.9	176.4	181.7	170.1	168.2	171.7	171.8	171.1	177.3	169.4	172.6	
23	176.7	182.9	175.2	177.6	171.8	170.3	172.0	171.8	176.9	171.2	154.7	168.2	
24	176.6	187.0	174.3	174.9	171.3	170.0	169.7	170.5	175.7	169.5	171.7	171.0	
25	172.1	197.8	179.8	173.7	169.6	170.2	173.4	176.5	169.9	167.9	183.9	151.3	
26	185.6	204.3	175.6	172.4	169.1	171.7	172.7	172.4	171.7	171.2	177.5	167.9	
27	197.1	218.7	176.4	168.9	165.8	171.5	170.8	175.6	175.6	169.5	172.1	166.1	
28	189.8	205.0	177.2	173.5	168.1	171.5	172.6	169.5	169.7	170.9	169.4	167.6	
29	175.8		167.3	171.3	177.6	164.6	172.1	173.3	171.8	170.8	174.1	173.9	
30	178.2		179.2	171.5	171.7	175.4	172.1	175.6	179.6	169.7	175.7	163.9	Annual
31	171.4		175.1		169.4		173.7	170.9		166.9		170.7	Summary
Average	180.3	184.3	184.1	174.9	171.3	170.6	171.8	173.4	172.6	170.2	171.9	171.6	174.7
Minimum	163.7	172.3	167.3	167.5	165.8	164.6	166.7	169.5	165.4	163.9	154.7	151.3	151.3
Maximum	221.6	218.7	202.8	182.9	178.9	180.0	175.8	178.5	181.5	177.3	183.9	179.1	221.6
Total	5,588	5,161	5,707	5,247	5,310	5,117	5,326	5,376	5,177	5,275	5,156	5,321	63,761

Point Loma Wastewater Treatment Plant 2001 Daily Flows (mgd)



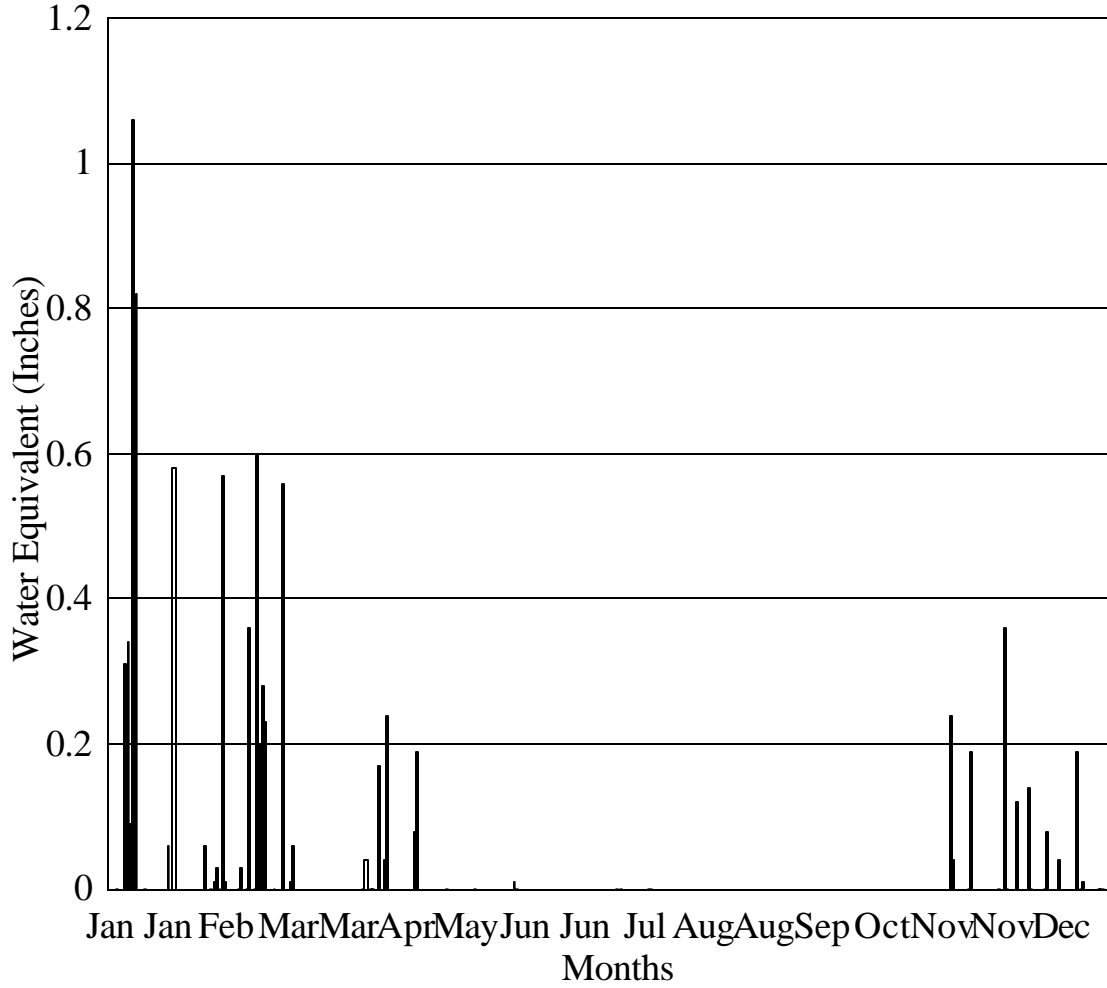
Dry Weather Flows - 2001

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	163.7	173.9	200.2		172.2	168.6	172.9	172.6	172.5	169.8	168.6	176.4	
2	170.7	182.4	195.7			168.5	174.5	172.0	167.2	171.4	165.4	179.1	
3	165.9	172.3		173.3	172.7	173.9	174.6	170.7	181.5	170.8	176.4		
4	167.1	175.3	186.5		172.3	172.9		177.1	175.2	172.6			
5		172.9	188.1		175.8	168.0		175.4	172.3	167.8		175.8	
6	170.5	189.7		172.7	174.1	168.6	173.9	173.6	173.0	169.9	177.6	172.8	
7	169.3		195.9		176.0	169.4	175.8	174.1	174.4	169.6	166.0	171.5	
8		183.1	189.6	180.8	178.2	169.2	167.9	173.4	169.2	170.4	167.7	170.2	
9					170.1	165.5	166.7	170.7	176.8	170.0	174.7		
10					168.2	172.6	173.3	170.8	175.9	169.8	171.4		
11			193.3	174.2	167.2	170.8	172.0	174.1	166.4	163.9		174.6	
12			190.2	178.9		166.6	168.8	173.3	167.7	165.9		171.6	
13	195.3		183.0	177.5	171.6	167.2	171.5	172.7	172.0	172.6	180.9	170.1	
14	188.9		187.1	174.5	172.3	167.2	171.3	173.7	165.4	173.2	170.5		
15		181.5	181.8	167.5	168.8	168.0	174.9	173.1	172.6	169.7	171.8	178.9	
16	184.8	189.9	182.9	182.9	169.4	172.5		174.7	172.9	172.2	169.3	176.6	
17	173.7	180.5	185.1	175.3	172.7	168.1	169.7	176.4	176.8	168.4	173.8	172.6	
18	182.7	174.6	182.5	173.1	167.2	177.5	170.1	177.9	168.2	169.9	170.6	170.8	
19	175.5		186.0	171.2	168.2	180.0	171.5	173.2	172.3	173.6	171.0	168.4	
20	179.6		179.7		178.9	175.9	171.7	178.5	172.6	171.0	171.9	169.7	
21	175.8	175.1	175.9		171.0	172.8	169.4	170.5	170.1	167.7	169.2		
22	173.4		176.4	181.7	170.1	168.2	171.7	171.8	171.1	177.3			
23	176.7		175.2	177.6	171.8	170.3	172.0	171.8	176.9	171.2	154.7		
24			174.3	174.9	171.3	170.0	169.7	170.5	175.7	169.5		171.0	
25	172.1		179.8	173.7	169.6	170.2	173.4	176.5	169.9	167.9		151.3	
26			175.6	172.4	169.1	171.7	172.7	172.4	171.7	171.2	177.5	167.9	
27	197.1		176.4	168.9		171.5	170.8	175.6	175.6	169.5	172.1	166.1	
28	189.8		177.2	173.5		171.5	172.6	169.5	169.7	170.9	169.4	167.6	
29	175.8		167.3	171.3	177.6	164.6	172.1	173.3	171.8	170.8			
30	178.2		179.2	171.5	171.7	175.4	172.1	175.6	179.6	169.7	175.7		Annual
31	171.4		175.1		169.4		173.7	170.9		166.9		170.7	Summary
Average	177.2	179.3	182.9	174.6	171.8	170.6	171.8	173.4	172.6	170.2	171.2	171.6	173.5
Minimum	163.7	172.3	167.3	167.5	167.2	164.6	166.7	169.5	165.4	163.9	154.7	151.3	151.3
Maximum	197.1	189.9	200.2	182.9	178.9	180.0	175.8	178.5	181.5	177.3	180.9	179.1	200.2
Total	3,898	2,151	4,940	3,667	4,637	5,117	4,811	5,376	5,177	5,275	3,766	5,321	54,137

B. Rain Days

San Diego Precipitation - 2001

Daily Rainfall -Lindbergh Field



 Rainfall (inches)

Precipitation Days-2000

Total Precipitation = 8.45" Maximum = 1.06" Trace = T

First Quarter		Second Quarter		Third Quarter		Fourth Quarter	
Date	Rain	Date	Rain	Date	Rain	Date	Rain
01/05	T	04/01	T	07/04	T	11/04	0.24
01/08	0.31	04/02	0.04	07/05	T	11/05	0.04
01/09	0.34	04/04	T	07/16	T	11/11	T
01/10	0.09	04/05	T			11/12	0.19
01/11	1.06	04/07	0.17			11/22	T
01/12	0.82	04/09	0.04			11/24	0.36
01/15	T	04/10	0.24			11/25	T
01/24	0.06	04/20	0.08			11/29	0.12
01/26	0.58	04/21	0.19			12/03	0.14
02/07	0.06	05/02	T			12/04	T
02/09	T	05/12	T			12/09	T
02/10	0.01	05/27	0.01			12/10	0.08
02/11	0.03	05/28	T			12/14	0.04
02/12	T					12/21	0.19
02/13	0.57					12/22	T
02/14	0.01					12/23	0.01
02/19	T					12/29	T
02/20	0.03					12/30	T
02/22	T						
02/23	0.36						
02/24	T						
02/25	0.6						
02/26	0.2						
02/27	0.28						
02/28	0.23						
03/03	T						
03/06	0.56						
03/09	0.01						
03/10	0.06						

C. Solids Production

Point Loma Annual Monitoring Report
Solids Report - Monthly Totals

From 01-JAN-2001 To 31-DEC-2001

Date	Pt. Loma RAW SLUDGE		Pt. Loma DIGESTED SLUDGE		Metro Biosolids Center COMBINED CENTRATE		DEWATERED SLUDGE	
	Gallons	Tons	Gallons	Tons	Gallons	Tons	Wet Tons	Dry Tons
01	31,784,208	2,786	31,784,593	2,391	66,430,000	727	9,837	2,790
02	28,095,000	2,178	27,630,000	1,859	54,090,000	590	8,830	2,370
03	30,302,134	2,269	31,241,134	2,216	67,110,000	1,288	10,420	3,136
04	30,871,100	2,330	30,991,000	2,194	65,610,000	723	10,404	3,060
05	35,296,547	2,387	35,244,573	2,433	69,851,000	913	11,369	3,420
06	37,890,621	2,265	30,223,648	2,271	67,694,000	856	9,771	2,960
07	32,271,295	2,463	32,588,593	2,302	71,811,000	1,007	11,417	3,264
08	35,492,738	2,538	35,043,000	2,508	73,024,000	1,020	11,432	3,427
09	31,418,503	2,286	30,265,213	1,880	69,213,000	818	9,019	2,764
10	32,782,812	2,529	31,606,000	2,378	72,052,000	891	11,229	3,272
11	32,357,823	2,342	31,186,000	2,090	67,554,000	787	10,391	2,966
12	31,552,375	2,367	30,646,000	2,023	70,527,000	717	10,101	2,823
Avg:	32,509,596	2,395	31,537,480	2,212	67,913,833	861	10,352	3,021
Sum:	390,115,156	28,741	378,449,754	26,545	814,966,000	10,332	124,220	36,252

Solids Report - Monthly Daily Averages
From 01-JAN-2001 to 31-DEC-2001

Date	Pt. Loma RAW SLUDGE			Pt. Loma DIGESTED SLUDGE			Metro Biosolids Cnt. COMBINED CENTRATE			Metro Biosolids Cnt. DEWATERED SLUDGE		
	Gallons	%TS	Tons	Gallons	%TS	Tons	Gallons	%TS	Tons	Wet Tons	%TS	Dry Tons
01	1,025,297	4.7	199	1,025,309	2.4	104	2,142,903	0.27	23	410	30.6	121
02	1,003,393	4.8	198	986,786	2.4	98	1,931,786	0.26	21	420	30.7	125
03	977,488	4.7	189	1,007,779	2.5	106	2,164,839	0.46	42	453	30.0	136
04	1,029,037	4.2	179	1,033,033	2.4	104	2,187,000	0.26	24	416	29.4	122
05	1,138,598	3.9	184	1,136,922	2.3	111	2,253,258	0.32	29	421	31.5	132
06	1,263,021	4.6	189	1,007,455	2.6	108	2,256,467	0.33	31	444	30.3	135
07	1,041,010	4.4	189	1,051,245	2.5	110	2,316,484	0.34	32	519	30.1	155
08	1,144,927	4.1	195	1,130,419	2.3	109	2,355,613	0.33	33	476	30.1	143
09	1,047,283	4.4	191	1,008,840	2.4	99	2,307,100	0.28	27	451	30.6	138
00	1,057,510	4.5	195	1,019,548	2.4	103	2,324,258	0.30	29	468	29.0	136
11	1,078,594	4.4	195	1,039,533	2.4	104	2,251,800	0.28	26	433	28.7	124
12	1,017,819	4.2	182	988,581	2.5	101	2,275,065	0.24	23	421	29.4	123
Avg:	1,068,665	4.4	190	1,036,288	2.4	105	2,230,548	0.31	28	444	30.0	132
Sum:	12,823,976		2,285	12,435,451		1,256	26,766,572		341	5,333		1,590

Note: A ton is a "short ton" or 2000 lbs of dry solids.

* Values for Wet Tons of dewatered sludge are based on calculated volumes from eight positive displacement cake pumps and are subject to inaccuracies. The mechanical condition of the cake pumps and the variability of sludge concentrations can effect the overall accuracies of these reported values.

D. Chemical usage

Point Loma Annual Chemical Usage Report
Monthly Totals - 2001

Month	Polymer	Polymer	Ferric	Ferric	Sodium	Sodium	Sodium	Hydrogen	Sodium	Sodium	Sodium	Salt	Salt	Salt
	Pt.Loma Gallons	Pt.Loma Lbs.	Chloride PS #2 Gallons	Chloride Pt.Loma Gallons	hydroxide PS #1 Gallons	hydroxide PS #2 Gallons	hydroxide Pt.Loma Gallons	Peroxide Pt.Loma Gallons	Hypochlorite PS #1 Gallons	Hypochlorite PS #2 Gallons	Hypochlorite Pt.Loma Gallons	Lbs.	Lbs.	Lbs.
01	75,357	628,477	65,903	215,329	125	0	13,176	4,108	1,326	2,240		250	0	13,702
02	67,262	560,964	57,818	196,682	331	0	10,261	4,096	2,808	210		800	0	12,376
03	78,348	653,421	63,426	218,990	0	0	9,302	2,370	1,950	0	17,294	1,350	0	13,702
04	78,563	655,217	60,985	199,049	1,200		11,469	752	1,482		28,071	1,450	250	21,216
05	84,172	701,993	61,708	201,810	1,305		7,418	598	1,636		31,398	1,250	600	17,050
06	79,951	666,791	60,172	189,760	1,548		8,621	830	1,326		53,175	1,000		16,500
07	84,029	700,802	62,135	194,960	1,450		9,641	286	1,132		64,145	1,650		17,050
08	56,429	470,617	60,520	198,071	575		5,941		1,209		77,540	1,900		17,050
09	53,563	446,715	58,818	191,660	405		8,388		1,131		92,493	1,800		16,500
10	59,668	497,630	62,772	198,471	1,275		6,259		1,209		39,530	1,350		17,050
11	73,639	644,855	61,493	193,472	1,200		4,662		1,365		32,327	1,600		16,500
12	77,885	682,040	61,549	200,203	700		5,495				23,417	2,050		17,050
avg	72,406	609,127	61,442	199,871	843	0	8,386	1,863	1,507	817	45,939	1,371	170	16,312
sum	868,866	7,309,522	737,299	2,398,457	10,114	0	100,633	13,040	16,574	2,450	459,390	16,450	850	195,746

E. Gas Production

Point Loma Wastewater Treatment Plant

Gas Report - 2001

Daily Monthly Averages

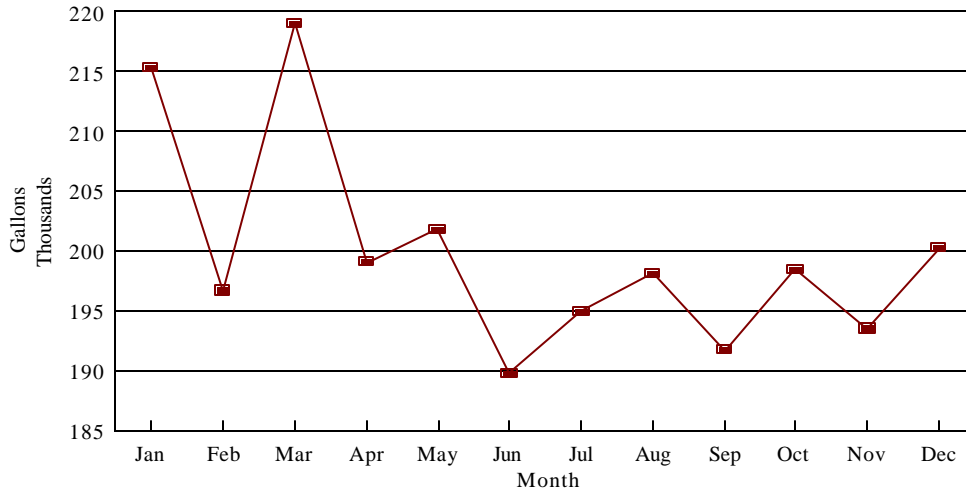
GAS PRODUCTION (x1000 Cu. Ft.)						GAS CONSUMPTION (x1000 Cu. Ft.)						
Month	N-1-P	N-2-P	C-1-P	C-2-P	S-1-P	S-2-P	Dig 7	Total	Boilers	Burners	GUF	Total
01	687.5	836.6			576.9	711.7	185.1	2,812.7	438	1,063	1,649	3,150
02	733.7	827.3			702.8	781.0	197.0	3,044.6	432	823	1,776	3,031
03	736.3	808.5			523.6	643.9	211.7	2,712.3	424	885	1,761	3,070
04	714.2	781.0			482.7	554.3	240.0	2,532.3	400	1,009	1,678	3,087
05	692.0	770.9			591.6	566.8	230.1	2,621.3	386	1,447	1,681	3,513
06	699.1	772.5			594.2	837.0	204.9	2,902.8	270	1,154	1,552	2,976
07	696.5	788.8			554.8	866.0	238.2	2,906.0	258	1,239	1,490	2,987
08	698.8	806.7			533.8	784.3	214.7	2,823.6	252	903	1,691	2,846
09	675.4	783.7			511.3	744.3	261.0	2,714.6	95	1,003	1,704	2,803
10	685.3	788.9			489.3	693.0	212.6	2,656.5	77	940	1,760	2,778
11	707.7	823.4			450.8	726.5	150.8	2,708.5	78	1,306	1,502	2,886
12	660.5	854.5			393.3	938.5	310.4	2,846.7	84	1,079	1,665	2,829
avg	698.9	803.6			533.8	737.3	221.4	2,773.5	266	1,071	1,659	2,996

Monthly Totals

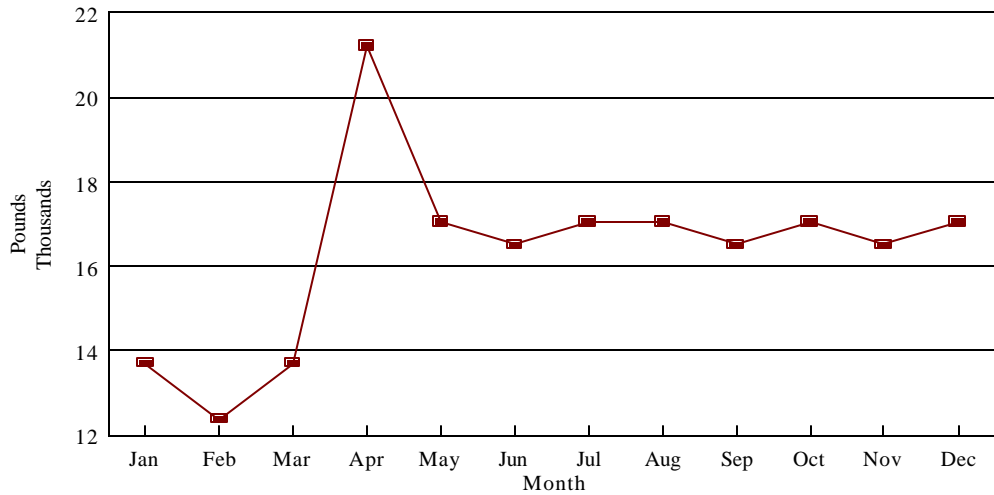
GAS PRODUCTION (x1000 Cu. Ft.)						GAS CONSUMPTION (x1000 Cu. Ft.)						
Month	N-1-P	N-2-P	C-1-P	C-2-P	S-1-P	S-2-P	Dig 7	Total	Boilers	Burners	GUF	Total
01	21,312.0	25,935.0			17,885.0	22,062.0	5,738.0	87,194.0	13,592	32,945	51,124	97,661
02	20,543.0	23,163.0			19,677.0	21,867.0	5,517.0	85,250.0	12,099	23,044	49,718	84,861
03	22,824.0	25,065.0			16,232.0	19,960.0	6,562.0	84,081.0	13,147	27,433	54,585	95,165
04	21,427.0	23,430.0			14,482.0	16,629.0	7,201.0	75,968.0	12,012	30,256	50,345	92,613
05	21,452.0	23,898.0			18,341.0	17,570.0	7,133.0	81,261.0	11,972	44,842	52,098	108,912
06	20,973.0	23,176.0			17,826.0	25,109.1	6,148.4	87,084.1	8,103	34,613	46,572	89,288
07	21,590.0	24,452.0			17,199.0	26,845.0	7,384.0	90,086.0	7,996	38,399	46,194	92,589
08	21,663.0	25,008.0			16,549.0	24,313.0	6,656.3	87,533.0	7,809	27,989	52,431	88,229
09	20,261.0	23,510.0			15,339.0	22,328.0	7,830.2	81,438.0	2,858	30,104	51,117	84,079
10	21,243.0	24,455.0			15,169.0	21,484.0	6,590.7	82,351.0	2,392	29,152	54,575	86,119
11	21,232.0	24,703.0			13,525.0	21,794.0	4,523.0	81,254.0	2,337	39,165	45,064	86,566
12	20,476.0	26,488.0			12,192.0	29,092.0	9,623.0	88,248.0	2,618	33,449	51,617	87,684
avg	21,249.7	24,440.3			16,201.3	22,421.1	6,742.2	84,312.3	8,078	32,616	50,453	91,147
sum	254,996.0	293,283.0			194,416.0	269,053.1	80,906.6	1,011,748.1	96,935	391,391	605,440	1,093,766

F. Graphs of chemical usage

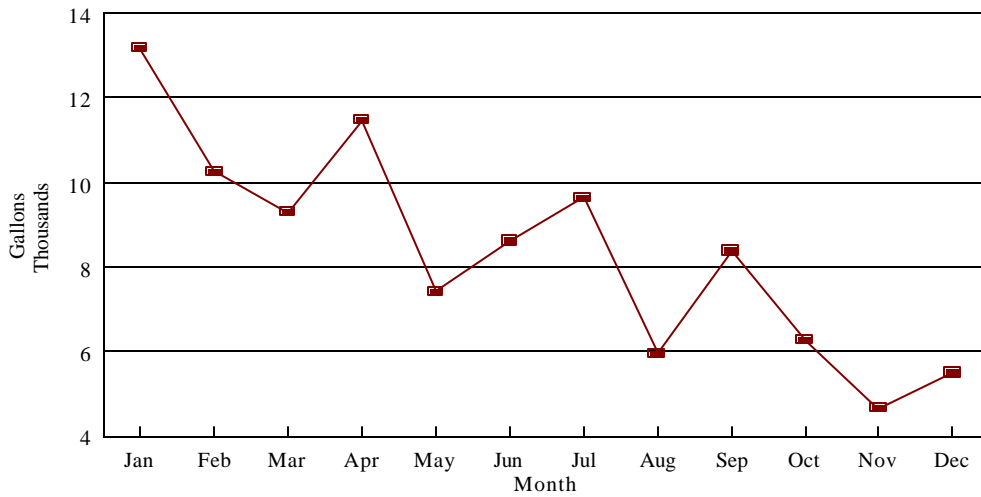
Point Loma - 2001
Ferric Chloride



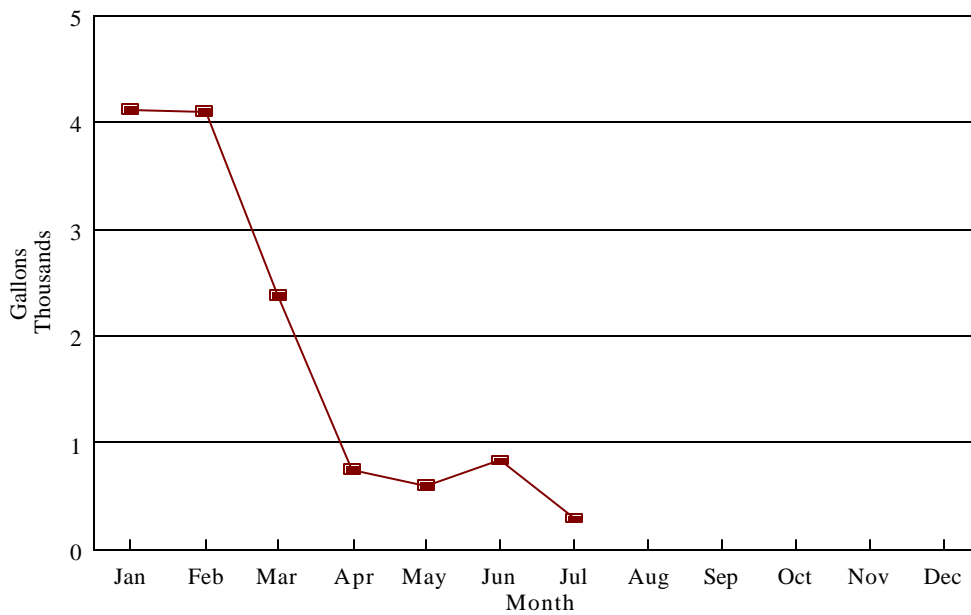
Point Loma - 2001
Salt



Point Loma - 2001
Sodium Hydroxide

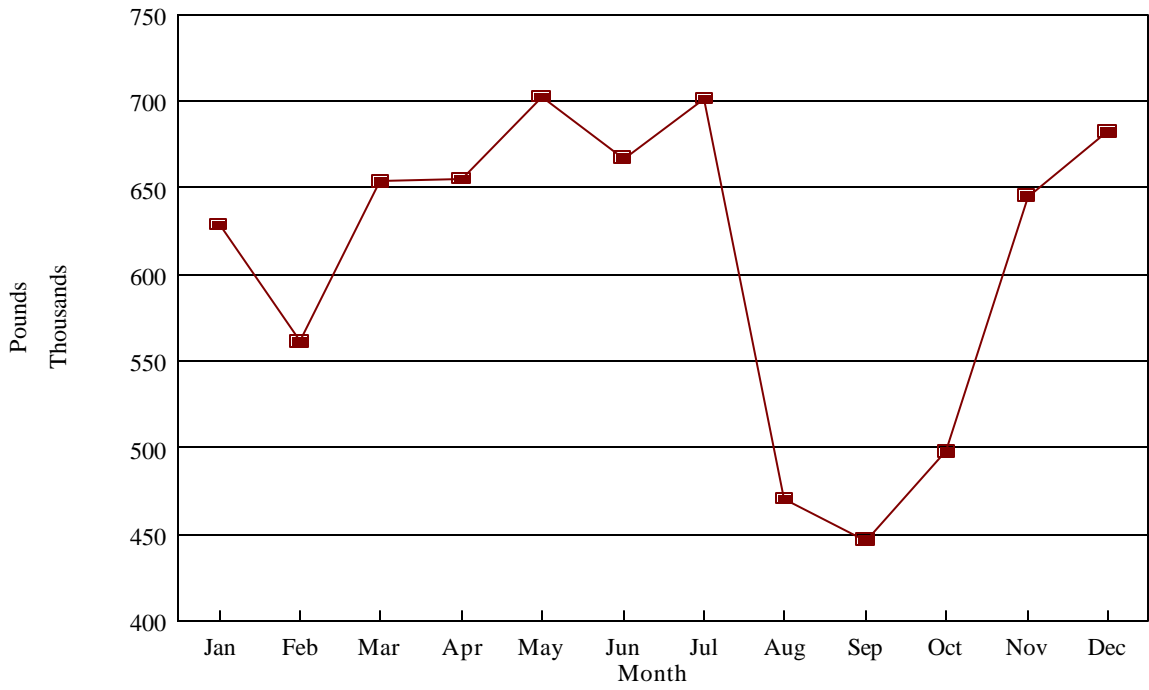


Point Loma - 2001
Hydrogen Peroxide



Point Loma - 2001

Polymer



G. Facilities Out-of-service Report (2000)

Facilities Out-of-service Report (2001) for Pt. Loma

FACILITIES THAT WERE OUT OF SERVICE IN 2001 BY DATE

FACILITY OOS	From	To	Reason
C1P Digester	01/01	12/31	Contractor rehabilitation
C2P Digester	01/01	12/31	Contractor rehabilitation
Sed Basin #5	01/01	02/09	Contractor rehabilitation
Sed Basin #6	01/01	02/19	Contractor rehabilitation
Sed Basin #7	01/01	02/23	Contractor rehabilitation
Inf Screen #3	01/01	01/29	Alignment
Inf Screen #5	01/01	01/09	Contractor rehabilitation
Inf Screen #1	01/09	01/10	Contractor Repair
Inf Screen #4	01/10	04/06	Rake Alignment
Inf Screen #5	01/30	02/05	Contractor repair
Inf Screen #1	02/05	02/09	Contractor repair
Sed Basin #1	02/09	03/10	Preventive Maintenance
Inf Screen #5	02/12	02/16	Contractor repair
Inf Screen #1	02/16	02/23	Contractor Work
Sed Basin #2	02/19	03/10	Contractor Work
Sed Basin #3	02/23	03/02	Contractor Work
Inf Screen #2	02/23	03/10	Contractor Work
Sed Basin #11	02/25	03/05	Contractor Work
Sed Basin #4	03/02	03/18	Contractor Work
Sed Basin #8	03/05	03/23	Contractor Work
Sed Basin #7	03/10	03/28	Contractor Work
Sed Basin #10	03/11	12/31	Contractor Work
Sed Basin #12	03/18	12/31	Contractor Work
Inf Screen #2	03/19	03/21	Contractor Work
Inf Screen #3	03/21	03/22	Contractor Work
C1 Grit Basin	03/22	03/23	Contractor Work
Inf Screen #5	03/22	03/24	Contractor Work
Sed Basin #9	03/25	04/09	Contractor Work
N1 Grit Basin	03/28	03/29	Contractor Work
Inf Screen #1	04/05	04/09	Contractor Work
Inf Screen #5	04/09	05/22	Contractor Work
Sed Basin #8	04/09	05/01	Contractor Work
Inf Screen #1	04/11	05/01	Contractor Work
Sed Basin #7	04/12	04/13	Repair suction valve
Sed Basin #11	04/30	08/30	Contractor Work
C2 Grit Basin	05/13	05/14	Flow meter failure
Sed Basin #7	05/16	05/31	Object Retrieval
Inf Screen #2	05/18	07/04	Electrical Problem
Sed Basin #2	05/24	05/25	Suction valve repair
N1 Grit Basin	06/18	06/21	Preventive Maintenance
Inf Screen #4	07/11	07/26	Contractor Work
Sed Basin #7	07/12	10/25	Shear pins breaking
N2 Grit Basin	07/22	07/26	Preventive Maintenance
Inf Screen #3	7/26	10/01	Rake Repair
N2 Grit Basin	08/12	08/17	Lines Plugged

FACILITY OOS	From	To	Reason
C1 Grit Basin	08/17	08/22	Line Repair
Sed Basin #9	08/30	12/31	Contractor Work
Sed Basin #11	10/23	12/31	Poor Removals
Inf Screen #5	10/02	12/31	Maintenance
Inf Screen #4	10/05	12/31	Out of Alignment
East Channel	10/11	10/25	Flush Grit
West Channel	10/25	11/29	Flush Grit
C2 Grit Basin	12/17	12/19	Grit Pump replacement

FACILITIES THAT WERE OUT OF SERVICE IN 2001

FACILITY: DATES OUT OF SERVICE

GRIT CHAMBERS

N1	03/28-03/29, 06/18-06/21
N2	07/22-07/26, 08/12-08/17
C1	03/22-03/23, 08/17-08/22
C2	05/13-05/14, 12/17
S1	01/01-12/31
S2	01/01-12-31

CHANNELS

EAST	10/11-10/25
WEST	10/25-11/29

BASINS

1	2/09-3/10
2	2/19-3/10, 5/24-5/25
3	2/23-3/02
4	3/02-3/18
5	1/01-2/09
6	1/01-2/19
7	1/01-2/23, 3/10-3/28, 4/12-4/13, 5/16-5/31, 7/12-10/25
8	3/05-3/23, 4/09-5/01
9	3/25-4/09, 8/30-12/31
10	3/11-12/31
11	2/25-3/05, 4/30-8/30, 10/23-12/31
12	3/18-12/31

NORTH EFFLUENT SCREENS	1/01-5/22
SOUTH EFFLUENT SCREENS	
INFLUENT SCREEN #1	1/9-1/10, 2/5-2/9, 4/5-4/9, 4/11-5/1
INFLUENT SCREEN #2	2/23-3/10, 3/19-3/21, 5/18-7/4
INFLUENT SCREEN #3	1/1-1/29, 3/21-3/22, 7/26-10/1
INFLUENT SCREEN #4	1/10-4/6, 7/11, 7/26, 10/5-12/31
INFLUENT SCREEN #5	1/1-1/9, 1/30-2/5, 2/12-2/16, 3/22-3/24, 4/9-5/22, 10/2-12/31

FACILITIES THAT WERE OUT OF SERVICE IN 2001
 FACILITY: DATES OUT OF SERVICE

DIGESTERS Dates

N1P	
N2P	
C1P	01/01-12/31
C2P	01/01-12/31
S1P	
S2P	
Dig 7	

SHUTDOWNS

Date	From	To	
02/09	0130	0345	Pump Station 2 work
02/17	0200	0325	Pump Station 2 work
05/26	0415	0515	Pump Station 2 work
05/27	0415	0445	Pump Station 2 work
06/16	0200	0530	Pump Station 2 work
06/23	0045	0230	Pump Station 2 work
07/31	0100	0530	Pump Station 2 work
08/01	0100	0530	Pump Station 2 work
08/02	0100	0400	Pump Station 2 work
08/09	0100	0400	Pump Station 2 work
08/28	0200	0515	Pump Station 2 work
09/04	0100	0245	Pump Station 2 work
09/08	0100	0430	Pump Station 2 work
12/01	0200	0445	Divers in Channel

H. Grit Analyses

Reports of the analyses of Grit samples taken from the Pt. Loma WWTP headworks (grit removal chambers) in 2001. Reports include Title 22 analyses and Total Solids. Although everywhere else in this report PLR refers to Point Loma WWTP raw Influent sewage, in this section, it refers to the grit removed from the grit chambers at the headworks building at the influent end of the plant. Samples from the grit bins are taken daily for 7-8 consecutive days and composited together to form the quarterly sample.

**Point Loma Wastewater Treatment Plant
Total Solids - Grit and Rags (%WT)**

Grit Monthly Averages %		Rags Monthly Averages %	
JAN	51.8	JAN	40.4
FEB	51.1	FEB	47.8
MAR	51.6	MAR	48.2
APR	52.3	APR	44.4
MAY	53.3	MAY	45.5
JUN	49.2	JUN	43.4
JUL	53.6	JUL	39.9
AUG	55.6	AUG	43.7
SEP	50.4	SEP	39.3
OCT	46.4	OCT	38.5
NOV	49.2	NOV	43.3
DEC	52.5	DEC	45.8
AVG	51.4	AVG	43.4

2001 POINT LOMA WASTEWATER TREATMENT PLANT ANNUAL REPORT
 CALIFORNIA HAZARDOUS WASTE IDENTIFICATION TEST (TITLE 22)
 GRIT REMOVAL SYSTEM

METALS

WET WEIGHT	TTLIC	GRIT COMP	GRIT COMP	GRIT COMP	GRIT COMP	DRY WEIGHT	TTLIC	GRIT COMP	GRIT COMP	GRIT COMP	GRIT COMP
	Wet wt	JAN 2001	APR 2001	JUL 2001	OCT 2001		Wet wt	JAN 2001	APR 2001	JUL 2001	OCT 2001
ANALYTE	mg/Kg	P96454	P103987	P113736	P121936	ANALYTE	mg/Kg	P96454	P103987	P113736	P121936
ANTIMONY	500	3.9	< 2.7	< 2.9	< 2.4	ANTIMONY	500	7.6	< 5.0	< 5.0	< 5.0
ARSENIC	500	0.9	0.8	0.9	0.8	ARSENIC	500	1.8	1.6	1.6	1.7
BARIUM	10000	45	87	49	54	BARIUM	10000	89	108	85	113
BERYLLIUM	75	< 0.1	< 0.1	< 0.1	< 0.1	BERYLLIUM	75	< 0.2	< 0.2	< 0.2	< 0.2
CADMIUM	100	0.5	< 0.3	< 0.3	0.4	CADMIUM	100	1.00	< 0.50	< 0.50	0.80
CHROMIUM(IV)	500	NA	NA	NA	NA	CHROMIUM(IV)	500	NA	NA	NA	NA
CHROMIUM(total)	2500	13	12	13	21	CHROMIUM(total)	2500	26	23	22	44
COBALT	8000	< 0.4	0.9	1.0	0.9	COBALT	8000	< 0.8	1.7	1.8	1.8
COPPER	2500	133	133	209	86	COPPER	2500	260	246	366	181
LEAD	1000	8	29	7	2	LEAD	1000	15	53	13	< 5
MERCURY	20	0.2	0.3	0.1	0.2	MERCURY	20	< 0.4	0.6	0.2	0.4
MOLYBDENUM	3500	1.5	1.9	1.7	2.3	MOLYBDENUM	3500	3.0	3.5	2.9	4.8
NICKEL	2000	13	3	18	14	NICKEL	2000	26	6	31	30
SELENIUM	100	< 0.2	< 0.2	< 0.3	0.3	SELENIUM	100	< 0.4	< 0.4	< 0.4	0.7
SILVER	500	< 1.5	< 1.6	15.0	< 2.3	SILVER	500	< 3.0	< 3.0	26.3	< 4.9
THALLIUM	700	< 5.1	< 5.4	< 5.7	< 4.8	THALLIUM	700	< 10	< 10	< 10	< 10
VANADIUM	2400	5.9	11.3	7.0	6.5	VANADIUM	2400	11.5	20.8	12.2	13.6
ZINC	5000	170	154	137	157	ZINC	5000	333	285	240	331
FLUORIDE	18000	NA	NA	NA	NA	FLUORIDE	18000	NA	NA	NA	NA
TOTAL SOLIDS (%)		51.1	54.2	57.1	47.5						
TOTAL VOLATILE SOLIDS (%)		60.9	63.1	65.9	52.0						
pH	>6-<9	6.42	6.05	6.43	6.24						

WASTE EXTRACTION TEST	STLC	GRIT COMP	GRIT COMP	GRIT COMP	GRIT COMP
	Wet wt	JAN 2001	APR 2001	JUL 2001	OCT 2001
ANALYTE	mg/L	P96454	P103987	P113736	P121936
ANTIMONY	15	*	*	*	*
ARSENIC	5.0	*	*	*	*
BARIUM	100	*	*	*	*
BERYLLIUM	0.75	*	*	*	*
CADMIUM	1.0	*	*	*	*
CHROMIUM(IV)	5.0	NA	NA	NA	NA
CHROMIUM(total)	560	*	*	*	*
COBALT	80	*	*	*	*
COPPER	25	*	*	*	*
LEAD	5.0	*	*	*	*
MERCURY	0.2	*	*	*	*
MOLYBDENUM	350	*	*	*	*
NICKEL	20	*	*	*	*
SELENIUM	1.0	*	*	*	*
SILVER	5.0	*	*	*	*
THALLIUM	7.0	*	*	*	*
VANADIUM	24	*	*	*	*
ZINC	250	*	*	*	*
FLUORIDE	180	NA	NA	NA	NA

TTLIC = Total Threshold Limit Concentration
 STLC = Soluble Threshold Limit Concentration
 NA = Not Analyzed
 NS = Not Sampled

* = The total concentration is less than 10 times the STLC, therefore by definition this substance is below hazardous concentrations.
 2001 POINT LOMA WASTEWATER TREATMENT PLANT ANNUAL REPORT
 CALIFORNIA HAZARDOUS WASTE IDENTIFICATION TEST (TITLE 22)
 GRIT REMOVAL SYSTEM

PESTICIDES

WET WEIGHT	TTLIC	GRIT COMP	GRIT COMP	GRIT COMP	GRIT COMP	DRY WEIGHT	TTLIC	GRIT COMP	GRIT COMP	GRIT COMP	GRIT COMP	MDL
ANALYTE	Wet wt	JAN 2001	APR 2001	JUL 2001	OCT 2001	ANALYTE	Wet wt	JAN 2001	APR 2001	JUL 2001	OCT 2001	mg/Kg
	mg/Kg	P96454	P103987	P113736	P121936		mg/Kg	P96454	P103987	P113736	P121936	
ALDRIN	1.4	nd	nd	nd	nd	ALDRIN	1.4	nd	nd	nd	nd	0.000020
CHLORDANE	2.5	nd	nd	nd	nd	CHLORDANE	2.5	nd	nd	nd	nd	0.000014
DDT,DDE,DDD	1.0	nd	nd	nd	nd	DDT,DDE,DDD	1.0	nd	nd	nd	nd	0.000040
2,4-D	100	nd	nd	nd	nd	2,4-D	100	nd	nd	nd	nd	3.400000
DIELDRIN	8.0	nd	nd	nd	nd	DIELDRIN	8.0	nd	nd	nd	nd	0.000040
ENDRIN	0.20	nd	nd	nd	nd	ENDRIN	0.20	nd	nd	nd	nd	0.000030
HEPTACHLOR	4.7	nd	nd	nd	nd	HEPTACHLOR	4.7	nd	nd	nd	nd	0.000003
KEPONE	21	NA	NA	NA	NA	KEPONE	21	NA	NA	NA	NA	NA
LINDANE	4	nd	nd	nd	nd	LINDANE	4	nd	nd	nd	nd	0.000010
METHOXYCHLOR	100	nd	nd	nd	nd	METHOXYCHLOR	100	nd	nd	nd	nd	NA
MIREX	21	nd	nd	nd	nd	MIREX	21	nd	nd	nd	nd	0.000020
PENTACHLOROPHENOL	17	NA	NA	NA	nd	PENTACHLOROPHENOL	17	NA	NA	NA	nd	0.800000
PCBs (TOTAL)	50	nd	nd	nd	nd	PCBs (TOTAL)	50	nd	nd	nd	nd	NA
TOXAPHENE	5	nd	nd	nd	nd	TOXAPHENE	5	nd	nd	nd	nd	0.000240
TRICHLOROETHENE	2040	NA	NA	NA	nd	TRICHLOROETHENE	2040	NA	NA	NA	nd	0.025300
2,4,5-TP	10	nd	nd	nd	nd	2,4,5-TP	10	nd	nd	nd	nd	4.400000

WASTE EXTRACTION TEST	STLC	GRIT COMP	GRIT COMP	GRIT COMP	GRIT COMP
ANALYTE	Wet wt	JAN 2001	APR 2001	JUL 2001	OCT 2001
	mg/L	P96454	P103987	P113736	P121936
ALDRIN	0.14	*	*	*	*
CHLORDANE	0.25	*	*	*	*
DDT,DDE,DDD	0.1	*	*	*	*
2,4-D	10	*	*	*	*
DIELDRIN	0.8	*	*	*	*
ENDRIN	0.02	*	*	*	*
HEPTACHLOR	0.47	*	*	*	*
KEPONE	2.1	NA	NA	NA	NA
LINDANE	0.4	*	*	*	*
METHOXYCHLOR	10	*	*	*	*
MIREX	2.1	*	*	*	*
PENTACHLOROPHENOL	1.7	NA	NA	NA	*
PCBs (TOTAL)	5	*	*	*	*
TOXAPHENE	0.5	*	*	*	*
TRICHLOROETHENE	204	NA	NA	NA	*
2,4,5-TP	1	*	*	*	*

TTLIC = Total Threshold Limit Concentration
 STLC = Soluble Threshold Limit Concentration
 nd = Not Detected (see MDL table)
 NA = Not Analyzed
 NS = Not Sampled

* = The total concentration is less than 10 times the STLC, therefore by definition this substance is below hazardous concentrations.

POINT LOMA WASTEWATER TREATMENT PLANT
GRIT- Chlorinated Pesticide Analysis

From 01-JAN-2001 To 31-DEC-2001

Sampling: LC,MC,JN,VB,MV,SKB,HHD,NC
Analysis: CW,TB,KD

Grit

Analyte	MDL	Units	PLR	PLR	PLR	PLR
			26-APR-2001 P103987	26-JUL-2001 P113736	25-OCT-2001 P121936	29-JAN-2001 P96454
Aldrin	71000	NG/KG	ND	ND	ND	ND
Dieldrin	50000	NG/KG	ND	ND	ND	ND
BHC, Alpha isomer	22000	NG/KG	ND	ND	ND	ND
BHC, Beta isomer	37000	NG/KG	ND	ND	ND	ND
BHC, Gamma isomer	2000	NG/KG	6600	ND	2500	4500
BHC, Delta isomer	14000	NG/KG	ND	ND	ND	ND
o,p-DDD	10000	NG/KG	ND	ND	ND	ND
o,p-DDE	21000	NG/KG	ND	ND	ND	ND
o,p-DDT	71000	NG/KG	ND	ND	ND	ND
p,p-DDD	18000	NG/KG	ND	ND	ND	ND
p,p-DDE	41000	NG/KG	ND	4100	ND	ND
p,p-DDT	50000	NG/KG	ND	ND	ND	ND
Heptachlor	22000	NG/KG	ND	ND	ND	ND
Heptachlor epoxide	46000	NG/KG	ND	ND	ND	ND
Alpha (cis) Chlordane	25000	NG/KG	ND	ND	ND	ND
Gamma (trans) Chlordane	68000	NG/KG	ND	ND	ND	ND
Alpha Chlordene	1400	NG/KG	NA	NA	NA	NA
Gamma Chlordene	120	NG/KG	NA	NA	NA	NA
Oxychlordane	46000	NG/KG	ND	ND	ND	ND
Trans Nonachlor	23000	NG/KG	ND	ND	ND	ND
Cis Nonachlor	69000	NG/KG	ND	ND	ND	ND
Alpha Endosulfan	13000	NG/KG	ND	ND	ND	ND
Beta Endosulfan	19000	NG/KG	ND	ND	ND	ND
Endosulfan Sulfate	51000	NG/KG	ND	ND	ND	ND
Endrin	32000	NG/KG	ND	ND	ND	ND
Endrin aldehyde	20000	NG/KG	ND	ND	ND	ND
Toxaphene	240	NG/KG	ND	ND	ND	ND
Mirex	18000	NG/KG	ND	ND	ND	ND
Methoxychlor	71000	NG/KG	ND	ND	ND	ND
PCB 1016	600	NG/KG	ND	ND	ND	ND
PCB 1221		NG/KG	ND	ND	ND	ND
PCB 1232		NG/KG	ND	ND	ND	ND
PCB 1242	70	NG/KG	ND	ND	ND	ND
PCB 1248		NG/KG	ND	ND	ND	ND
PCB 1254		NG/KG	ND	ND	ND	ND
PCB 1260	300	NG/KG	ND	ND	ND	ND
PCB 1262		NG/KG	ND	ND	ND	ND
Aldrin + Dieldrin	71000	NG/KG	0	0	0	0
Hexachlorocyclohexanes	37000	NG/KG	6600	0	2500	4500
DDT and derivatives	71000	NG/KG	0	4100	0	0
Chlordane + related cmpds.	69000	NG/KG	0	0	0	0
Polychlorinated biphenyls	600	NG/KG	0	0	0	0
Chlorinated Hydrocarbons	71000	NG/KG	6600	4100	2500	4500

nd=not detected; NS=not sampled; NA=not analyzed

"Standards for alpha and gama chlordene are no longer available in the U.S. for the analysis of these compounds."

POINT LOMA WASTEWATER TREATMENT PLANT
ANNUAL GRIT - ANALYSIS-ACID EXTRACTABLE COMPOUNDS

From 01-JAN-2001 To 31-DEC-2001

Analyte	MDL	Units	PLR 25-OCT-2001 P121936*
=====	=====	=====	=====
2-chlorophenol	1310	UG/KG	ND*
2,4-dichlorophenol	914	UG/KG	ND*
4-chloro-3-methylphenol	1900	UG/KG	ND*
2,4,6-trichlorophenol	1600	UG/KG	ND*
Pentachlorophenol	1170	UG/KG	ND*
Phenol	1440	UG/KG	ND*
2-nitrophenol	1600	UG/KG	ND*
2,4-dimethylphenol		UG/KG	ND*
2,4-dinitrophenol		UG/KG	ND*
4-nitrophenol		UG/KG	ND*
2-methyl-4,6-dinitrophenol		UG/KG	ND*
=====	=====	=====	=====
Total Chlorinated Phenols	1900	UG/KG	
Total Non-Chlorinated Phenols	1600	UG/KG	
=====	=====	=====	=====
Phenols	1900	UG/KG	

* = Failed holding time extraction criteria, not reportable

nd= not detected,
NA= not analyzed
NS= not sampled,

POINT LOMA WASTEWATER TREATMENT PLANT
 ANNUAL GRIT - Priority Pollutants Base/Neutral Compounds
 From 01-JAN-2001 To 31-DEC-2001

Analyte	MDL	Units	PLR 25-OCT-2000 P121936*
Polynuc. Aromatic Hydrocarbons	2520	UG/KG	*
Total Dichlorobenzenes	733	UG/KG	*
Base/Neutral Compounds	3960	UG/KG	*

* = Failed holding time extraction criteria, not reportable

nd= not detected, NA= not analyzed, NS= not sampled

POINT LOMA WASTEWATER TREATMENT PLANT
SEWAGE ANNUAL Priority Pollutants Purgeables

From 01-JAN-2001 To 31-DEC-2001

Analyte	MDL	Units	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
			Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Average	
Chloromethane	3.23	UG/L	ND	ND	ND	ND	ND	1.2	ND	ND	ND	ND	ND	0.1	
Bromomethane	1.39	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<1.0	<1.0	0.0
Vinyl chloride	1.04	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	3	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-dichloroethene	1.09	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	3.92	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	1.29	UG/L	2.3	3.5	1.5	5.5	2.9	2.7	1.6	3.0	2.9	4.0	3.6	2.2	3.0
1,1-dichloroethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-dichloroethene	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	1	UG/L	5.8	7.0	8.3	7.8	9.3	8.1	6.3	5.6	9.2	9.1	7.0	5.6	7.4
1,2-dichloroethane	2.24	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-trichloroethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	1.92	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	1.79	UG/L	1.5	3.4	3.3	ND	1.2	1.7	1.3	ND	1.9	1.8	ND	2.1	1.5
1,2-dichloropropane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-dichloropropene	1.27	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	1.32	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	1.99	UG/L	1.2	2.8	2.5	ND	ND	1.3	18.4	ND	1.4	1.3	ND	1.9	2.6
1,1,2-trichloroethane	3.02	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	1.01	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-chloroethylvinyl ether	5	UG/L	ND	*	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND
Bromoform	6.1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-tetrachloroethane	3.13	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1.04	UG/L	ND	2.0	ND	1.5	ND	2.2	ND	ND	5.0	3.6	ND	ND	1.2
Toluene	1.01	UG/L	1.5	2.4	1.5	1.3	2.6	1.5	ND	1.5	1.5	7.5	2.2	1.4	2.1
Chlorobenzene	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	1.46	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	13.8	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND*	ND	ND	ND	ND
Acrolein	11.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND*	ND	ND	ND	ND
Halomethane Purgeable Cmpnds	6.1	UG/L	2.7	6.2	5.8	0.0	1.2	4.2	19.7	0.0	3.3	3.1	0.0	4.0	4.2
Purgeable Compounds	13.8	UG/L	12.3	21.1	17.1	16.1	16.0	18.7	27.6	10.1	21.9	27.3	12.8	13.2	17.9

Additional analytes determined;

Allyl chloride	1.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND*	ND	ND	ND	ND
4-methyl-2-pentanone	6.1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND*	ND	ND	ND	ND
meta,para xylenes	3.1	UG/L	ND	ND	ND	ND	ND	1.1	ND	ND	ND*	ND	ND	ND	0.1
Styrene	4.7	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND*	ND	ND	ND	ND
1,2,4-trichlorobenzene	1.44	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND*	ND	ND	ND	ND
Methyl Iodide	1.3	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND*	ND	ND	ND	ND
Chloroprene	1.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND*	ND	ND	ND	ND
Methyl methacrylate	4.6	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND*	ND	ND	ND	ND
2-nitropropane	10	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND*	ND	ND	ND	ND
1,2-dibromoethane	3.3	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND*	ND	ND	ND	ND
Isopropylbenzene	4.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND*	ND	ND	ND	ND
Benzyl chloride	7.2	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND*	ND	ND	ND	ND
ortho-xylene	3.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND*	ND	ND	ND	ND
Acetone	20	UG/L	613	1070	1410	2940	795	871	1150	1380	ND*	689	1465**	635	1155
Carbon disulfide	1	UG/L	1.2	5.7	2.1	21.6	1.9	1.7	1.5	2.0	ND*	2.5	2.0	1.5	4.0
2-butanone	4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND*	ND	ND	ND	ND
Methyl tert-butyl ether	1	UG/L	2.2	5.3	2.7	5.4	17.6	8.8	ND	2.8	ND*	3.1	ND	3.1	4.6

nd=not detected; NS=not sampled; NA=not analyzed

* = Not reportable(Did not satisfy quality control criteria)

** = Not reportable(value exceeded calibration range)

POINT LOMA WASTEWATER TREATMENT PLANT
SEWAGE ANNUAL Priority Pollutants Purgeables

From 01-JAN-2001 To 31-DEC-2001

Analyte	MDL	Units	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Average	
			Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Average
Chloromethane	3.23	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	1.39	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	<1.0	ND	1.1	ND	ND	0.1
Vinyl chloride	1.04	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	3	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-dichloroethene	1.09	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	3.92	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	1.29	UG/L	1.9	1.6	1.6	2.1	2.9	2.0	ND	ND	3.3	3.7	3.2	1.8	2.0	2.0
1,1-dichloroethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-dichloroethene	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	1	UG/L	5.7	8.2	7.4	8.4	10.6	7.6	8.0	6.8	11.1	9.7	7.4	6.5	8.1	8.1
1,2-dichloroethane	2.24	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-trichloroethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	1.92	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	1.79	UG/L	1.6	4.5	3.0	1.3	ND	2.6	1.9	ND	1.9	3.8	ND	2.8	2.0	2.0
1,2-dichloropropane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-dichloropropene	1.27	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	1.32	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	1.99	UG/L	1.2	3.4	2.4	1.2	ND	1.6	1.6	ND	1.3	2.7	ND	2.1	1.5	1.5
1,1,2-trichloroethane	3.02	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	1.01	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-chloroethylvinyl ether	5	UG/L	ND	*	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	6.1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-tetrachloroethane	3.13	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1.04	UG/L	ND	1.3	1.2	ND	ND	1.3	ND	ND	3.5	3.9	ND	ND	0.9	0.9
Toluene	1.01	UG/L	ND	1.5	1.8	1.5	2.4	1.4	ND	1.1	1.3	1.1	1.5	ND	1.1	1.1
Chlorobenzene	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	1.46	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	13.8	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND*	ND	ND	ND	ND	ND
Acrolein	11.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND*	ND	ND	ND	ND	ND
Halomethane Purgeable Cmpnds	6.1	UG/L	2.8	7.9	5.4	2.5	0.0	4.2	3.5	0.0	3.2	6.5	1.1	4.9	3.5	3.5
Purgeable Compounds	13.8	UG/L	10.4	20.5	17.4	14.5	15.9	16.5	11.5	7.9	22.4	24.9	13.2	13.2	15.7	15.7

Additional analytes determined;

Allyl chloride	1.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND*	ND	ND	ND	ND	ND
4-methyl-2-pentanone	6.1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND*	ND	ND	ND	ND	ND
meta,para xylenes	3.1	UG/L	ND	ND	4.1	ND	ND	ND	ND	ND	ND*	ND	ND	ND	0.4	0.4
Styrene	4.7	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND*	ND	ND	ND	ND	ND
1,2,4-trichlorobenzene	1.44	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND*	ND	ND	ND	ND	ND
Methyl Iodide	1.3	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND*	ND	29.5	<1.3	2.7	2.7
Chloroprene	1.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND*	ND	ND	ND	ND	ND
Methyl methacrylate	4.6	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND*	ND	ND	ND	ND	ND
2-nitropropane	10	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND*	ND	ND	ND	ND	ND
1,2-dibromoethane	3.3	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND*	ND	ND	ND	ND	ND
Isopropylbenzene	4.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND*	ND	ND	ND	ND	ND
Benzyl chloride	7.2	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND*	ND	ND	ND	ND	ND
ortho-xylene	3.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND*	ND	ND	ND	ND	ND
Acetone	20	UG/L	364	1800	916	2760	397	212	1040	1310	ND*	132	1425**	517	945	945
Carbon disulfide	1	UG/L	ND	1.0	1.4	21.3	1.3	ND	ND	2.0	ND*	1.3	2.8	1.6	3.0	3.0
2-butanone	4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND*	ND	ND	ND	ND	ND
Methyl tert-butyl ether	1	UG/L	2.2	3.2	1.8	11.2	4.8	21.6	ND	2.0	ND*	1.9	ND	3.6	4.8	4.8

nd = not detected; NS = not sampled; NA = not analyzed

* = Not reportable(Did not satisfy quality control criteria)

** = Not reportable(value exceeded calibration range)

POINT LOMA WASTEWATER TREATMENT PLANT
GRIT - Herbicides

From 01-JAN-2001 To 31-DEC-2001

Sampling: LC,MC,BGB,RJ,SKB,HHD,NC
Analysis: CW,TB,KD

Analyte	MDL	Units	PLR	PLR	PLR	PLR
			26-APR-2001	26-JUL-2001	25-OCT-2001	29-JAN-2001
			P103987	P113736	P121936	P96454
2,4-dichlorophenoxyacetic acid	3.4	UG/KG	ND	ND	ND	ND
2,4,5-TP (Silvex)	4.4	UG/KG	ND	ND	ND	ND

nd = not detected; NS = not sampled; NA = not analyzed

I. Raw Sludge Data Summary

POINT LOMA WASTEWATER TREATMENT PLANT ANNUAL REPORT
YEAR: 2001

Raw Sludge
Average of 3 Shifts

Month	pH	% Total Solids	% Total Volatile Solids
January	6.42	4.7	74.7
February	6.38	4.8	75.8
March	6.40	4.7	75.6
April	6.35	4.2	76.1
May	6.43	3.9	76.7
June	6.26	4.6	75.9
July	6.25	4.4	75.6
August	6.35	4.1	75.8
September	6.21	4.4	76.3
October	6.34	4.5	73.4
November	6.35	4.3	75.6
December	6.36	4.2	76.4
Averages	6.34	4.4	75.7

J. Digester and Digested Sludge Data Summary

Point Loma Wastewater Treatment Plant Annual Report
2001 Digesters

NLP

	pH	Total Solids (%)	Volatile Solids (%)	Alkalinity (mg/L)	Volatile Acids (mg/L)	Methane (%)	Carbon Dioxide (%)
JANUARY -2001	7.26	2.4	55.8	2920	64	63.6	35.9
FEBRUARY -2001	7.22	2.3	57.4	3080	54	63.1	36.5
MARCH -2001	7.24	2.5	56.4	3140	61	63.3	36.4
APRIL -2001	7.22	2.4	57.3	2820	57	63.0	36.7
MAY -2001	7.17	2.3	58.2	2630	56	62.2	37.4
JUNE -2001	7.21	2.5	58.0	2890	54	62.9	36.8
JULY -2001	7.20	2.5	57.5	2970	57	62.4	37.3
AUGUST -2001	7.22	2.3	57.9	2710	54	62.3	37.3
SEPTEMBER-2001	7.22	2.4	57.6	2630	56	62.3	37.3
OCTOBER -2001	7.20	2.4	57.2	2730	57	62.1	37.6
NOVEMBER -2001	7.24	2.4	57.5	2760	59	62.4	37.4
DECEMBER -2001	7.27	2.5	57.9	2960	61	62.8	36.8
Average:	7.22	2.4	57.4	2853	58	62.7	37.0

N2P

	pH	Total Solids (%)	Volatile Solids (%)	Alkalinity (mg/L)	Volatile Acids (mg/L)	Methane (%)	Carbon Dioxide (%)
JANUARY -2001	7.27	2.4	56.0	3040	63	63.6	36.0
FEBRUARY -2001	7.26	2.4	57.1	3150	52	63.2	36.4
MARCH -2001	7.23	2.5	56.9	3240	56	63.2	36.4
APRIL -2001	7.17	2.4	57.6	2970	58	63.1	36.5
MAY -2001	7.14	2.4	58.9	2690	60	62.4	37.1
JUNE -2001	7.19	2.9	55.8	2990	54	62.7	36.9
JULY -2001	7.22	2.4	57.1	3110	56	62.7	37.0
AUGUST -2001	7.21	2.4	57.6	2750	54	62.7	36.9
SEPTEMBER-2001	7.22	2.4	57.4	2680	56	62.5	37.1
OCTOBER -2001	7.23	2.5	56.9	2770	58	62.4	37.3
NOVEMBER -2001	7.26	2.4	57.5	2770	59	62.4	37.2
DECEMBER -2001	7.28	2.5	57.0	3010	60	62.9	36.8
Average:	7.22	2.5	57.2	2931	57	62.8	36.8

C1P

	pH	Total Solids (%)	Volatile Solids (%)	Alkalinity (mg/L)	Volatile Acids (mg/L)	Methane (%)	Carbon Dioxide (%)
JANUARY -2001							
FEBRUARY -2001							
MARCH -2001							
APRIL -2001							
MAY -2001							
JUNE -2001							
JULY -2001							
AUGUST -2001							
SEPTEMBER-2001							
OCTOBER -2001							
NOVEMBER -2001							
DECEMBER -2001							
Average:	*	*	*	*	*	*	*

OUT OF SERVICE

*Out of service

Point Loma Wastewater Treatment Plant Annual Report
2001 Digesters

C2P

	pH	Total Solids (%)	Volatile Solids (%)	Alkalinity (mg/L)	Volatile Acids (mg/L)	Methane (%)	Carbon Dioxide (%)
JANUARY -2001							
FEBRUARY -2001							
MARCH -2001							
APRIL -2001							
MAY -2001							
JUNE -2001							
JULY -2001							
AUGUST -2001							
SEPTEMBER-2001							
OCTOBER -2001							
NOVEMBER -2001							
DECEMBER -2001							

OUT OF SERVICE

S1P

	pH	Total Solids (%)	Volatile Solids (%)	Alkalinity (mg/L)	Volatile Acids (mg/L)	Methane (%)	Carbon Dioxide (%)	H2S ppm
JANUARY -2001	7.22	2.6	54.9	3190	62	63.5	36.1	*
FEBRUARY -2001	7.20	2.5	56.4	3310	49	63.1	36.6	*
MARCH -2001	7.20	2.6	56.1	3310	53	63.2	36.5	*
APRIL -2001	7.17	2.6	57.1	3130	57	63.2	36.6	*
MAY -2001	7.14	2.3	58.7	2730	57	62.3	37.4	*
JUNE -2001	7.16	2.4	57.9	2910	55	63.0	36.8	*
JULY -2001	7.20	2.5	57.2	3050	52	62.8	37.0	*
AUGUST -2001	7.22	2.3	57.2	2750	55	62.5	37.2	*
SEPTEMBER-2001	7.23	2.4	57.3	2670	57	62.4	37.2	*
OCTOBER -2001	7.23	2.4	55.8	2800	56	62.3	37.4	*
NOVEMBER -2001	7.24	2.4	56.6	2800	58	62.5	37.3	*
DECEMBER -2001	7.27	2.5	56.8	3040	60	62.8	37.0	*
	7.21	2.5	56.8	2974	56	62.8	36.9	*

*Out of Service

S2P

	pH	Total Solids (%)	Volatile Solids (%)	Alkalinity (mg/L)	Volatile Acids (mg/L)	Methane (%)	Carbon Dioxide (%)	H2S ppm
JANUARY -2001	7.30	2.5	55.4	3000	58	63.6	36.1	28
FEBRUARY -2001	7.30	2.4	56.1	3100	51	63.1	36.6	26
MARCH -2001	7.29	2.5	56.3	3120	58	63.3	36.4	28
APRIL -2001	7.26	2.4	57.7	2930	57	63.2	36.5	31
MAY -2001	7.16	2.3	58.5	2650	57	62.6	37.1	29
JUNE -2001	7.16	2.5	57.5	2840	53	63.1	36.7	26
JULY -2001	7.17	2.5	57.2	2900	53	62.7	37.1	25
AUGUST -2001	7.16	2.3	57.5	2630	55	62.6	37.1	25
SEPTEMBER-2001	7.20	2.3	57.6	2570	55	62.6	37.1	27
OCTOBER -2001	7.18	2.3	56.3	2670	57	62.6	37.2	31
NOVEMBER -2001	7.22	2.4	57.2	2680	60	62.9	36.9	35
DECEMBER -2001	7.29	2.4	57.1	2900	62	62.9	36.9	31
	7.22	2.4	57.0	2833	56	62.9	36.8	29

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	pH	Total Solids (%)	Volatile Solids (%)	Alkalinity (mg/L)	Volatile Acids (mg/L)	Methane (%)	Carbon Dioxide (%)	H2S ppm
JANUARY -2001	7.31	2.2	55.8	3250	58	63.9	35.7	*
FEBRUARY -2001	7.30	2.2	56.2	3370	46	63.5	36.1	*
MARCH -2001	7.33	2.3	56.1	3480	52	63.7	35.8	*
APRIL -2001	7.29	2.3	56.5	3230	54	63.7	35.8	*
MAY -2001	7.24	2.2	57.3	2930	56	62.9	36.5	*
JUNE -2001	7.27	2.2	56.3	3110	57	63.9	35.4	*
JULY -2001	7.27	2.3	56.8	3220	55	63.1	36.3	*
AUGUST -2001	7.25	2.1	56.5	2950	55	62.9	36.5	*
SEPTEMBER-2001	7.28	2.2	56.2	2860	55	63.3	36.1	*
OCTOBER -2001	7.27	2.2	56.0	2990	55	63.4	36.1	*
NOVEMBER -2001	7.30	2.2	56.3	3000	61	63.3	36.2	*
DECEMBER -2001	7.31	2.2	56.3	3220	60	63.6	36.0	*
	7.29	2.2	56.4	3134	55	63.4	36.0	*

*Out of service