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A. Flows

Point Loma Wastewater Treatment Plant Annual Monitoring Report

Flow Report - 2002

WASTEWATER FLOWS

Daily Average Flows - Millions of Gallons

Mon	Pt. L Gould	Pt. L ADS	PS#2 Flow	PS#2 Pumps	PS#1 Flows
01	168.5	172.4	168.5	190.0	59.5
02	181.4	187.9	181.4	213.2	63.1
03	178.1	185.0	178.1	213.8	63.0
04	169.6	176.7	169.6	183.5	62.2
05	168.5	175.6	168.5	174.2	61.4
06	165.5	173.6	165.5	175.6	66.8
07	167.9	175.7	167.9	175.1	63.2
08	167.7	175.6	167.7	171.4	60.9
09	167.9	175.0	167.9	185.5	59.3
10	166.0	171.8	166.0	172.4	63.1
11	168.0	170.0	168.0	174.2	61.4
12	168.4	170.7	168.4	174.3	61.2
avg	169.8	175.8	169.8	183.6	62.1
sum	2,037.4	2,110.0	2,037.4	2,203.2	745.0

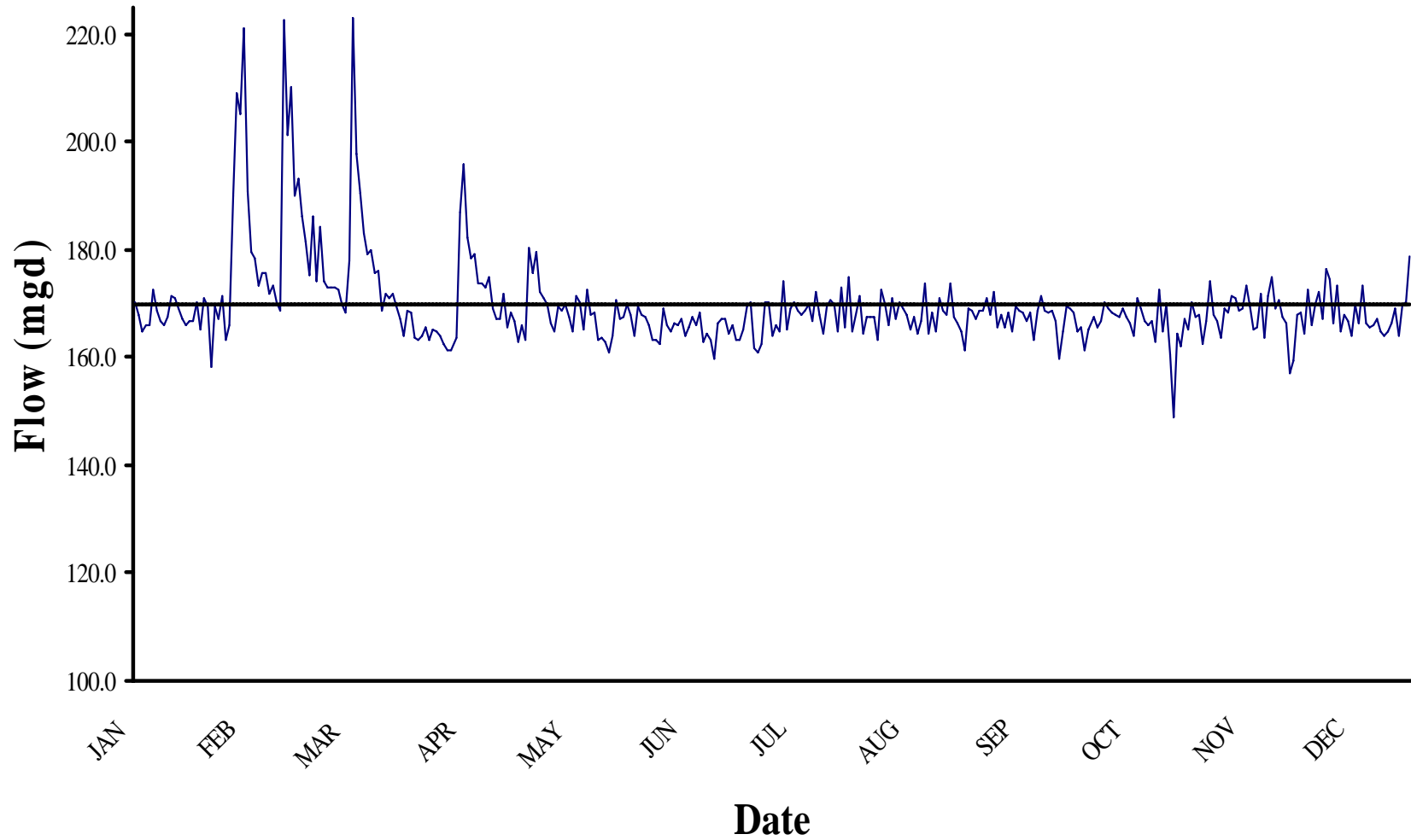
WASTEWATER FLOWS

Monthly Total Flows - Millions of Gallons

Mon	Pt. L Gould	Pt. L ADS	PS#2 Flow	PS#2 Pumps	PS#1 Flows
01	5,222	5,344	5,222	5,891	1,844
02	5,080	5,261	5,080	5,970	1,766
03	5,521	5,735	5,521	6,627	1,952
04	5,088	5,301	5,088	5,506	1,865
05	5,223	5,445	5,223	5,401	1,904
06	4,964	5,207	4,964	5,269	2,003
07	5,204	5,446	5,204	5,427	1,958
08	5,200	5,443	5,200	5,313	1,888
09	5,036	5,250	5,036	5,564	1,779
10	5,146	5,326	5,146	5,344	1,957
11	5,040	5,101	5,040	5,227	1,842
12	5,221	5,291	5,221	5,403	1,898
avg	5,162	5,346	5,162	5,578	1,888
sum	61,945	64,150	61,945	66,942	22,655

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

Point Loma Wastewater Treatment Plant 2003 Daily Flows (mgd)

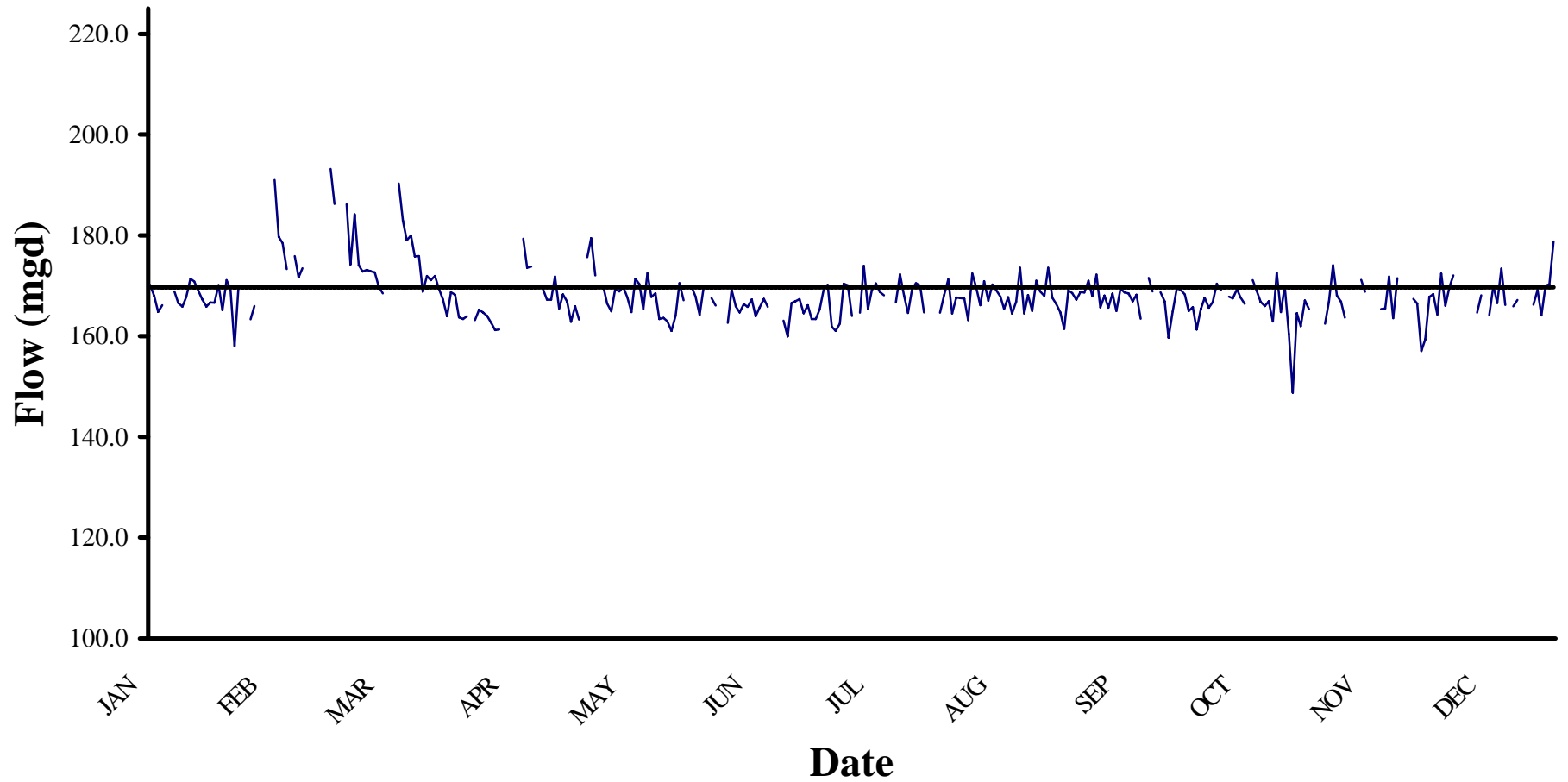


Point Loma Wastewater Treatment Plant

2003 Flows (mgd)

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	163.2	170.1	193.2	168.2	165.9	164.2	165.3	168.1	169.1	165.0	170.3	168.3	
2	166.2	165.1	186.3	163.7	163.3	169.4	169.4	171.3	168.5	165.8	167.7	164.3	
3	166.5	171.2	181.4	163.4	180.4	168.0	170.1	164.5	167.2	161.3	168.1	172.5	
4	175.0	169.4	175.5	163.9	175.7	167.6	161.9	167.6	168.8	165.4	162.5	166.0	
5	175.1	158.1	186.2	165.4	179.5	166.1	161.0	167.6	168.6	167.6	166.8	169.8	
6	166.9	169.5	174.3	163.2	172.1	163.2	162.5	167.4	171.1	165.7	174.1	172.1	
7	166.1	167.3	184.1	165.3	171.2	163.2	170.4	163.2	167.9	166.7	168.1	167.3	
8	165.8	171.4	174.1	164.7	169.8	162.6	170.1	172.4	172.2	170.4	166.9	176.4	
9	169.0	163.4	172.8	164.0	166.5	169.2	164.0	169.7	165.7	169.1	163.7	174.4	
10	168.9	165.9	173.2	162.6	164.9	165.9	166.1	166.1	168.1	168.2	169.1	166.5	
11	176.0	190.0	172.9	161.2	169.3	164.7	164.6	170.9	165.6	167.8	168.2	173.4	
12	171.0	209.2	172.7	161.4	168.8	166.4	174.0	167.0	168.4	167.5	171.5	164.6	
13	168.0	205.4	169.9	163.7	169.8	165.8	165.4	170.2	165.0	169.3	171.2	168.1	
14	170.3	221.0	168.5	187.1	167.7	167.3	169.1	169.1	169.4	167.7	168.8	166.7	
15	170.2	191.0	178.1	196.0	164.8	164.0	170.4	167.8	168.6	166.4	169.3	164.2	
16	167.9	179.7	223.2	182.4	171.4	165.8	168.8	165.4	168.5	164.0	173.6	169.9	
17	164.8	178.5	197.8	178.3	170.3	167.4	168.1	167.7	166.9	171.2	169.5	166.6	
18	166.1	173.3	190.3	179.4	165.4	165.8	168.8	164.5	168.2	169.0	165.4	173.5	
19	166.1	175.8	182.9	173.6	172.5	168.2	169.7	166.8	163.4	166.8	165.5	166.2	
20	172.4	175.9	179.0	173.8	167.8	163.1	166.7	173.6	168.6	166.0	171.8	165.4	
21	168.8	171.7	180.0	173.2	168.5	164.4	172.3	164.5	171.6	166.9	163.6	165.9	
22	166.6	173.5	175.8	174.9	163.4	163.1	168.0	168.1	168.9	162.9	171.6	167.2	
23	165.9	170.2	175.9	169.3	163.6	160.0	164.6	165.0	168.5	172.6	175.0	164.6	
24	167.7	168.9	168.8	167.2	163.0	166.6	169.3	171.0	168.7	164.8	169.2	163.9	
25	171.4	222.6	172.0	167.2	161.1	167.0	170.5	168.9	166.9	169.9	170.7	164.7	
26	170.9	201.3	171.1	171.9	164.0	167.4	170.0	168.0	159.7	160.4	167.4	166.3	
27	169.0	210.2	172.0	165.5	170.5	164.6	164.7	173.6	164.9	148.8	166.5	169.1	
28	167.3	190.1	169.5	168.3	167.1	166.1	173.1	167.6	169.5	164.6	157.1	164.1	
29	165.9		167.3	166.9	167.7	163.4	165.5	166.4	169.2	162.0	159.4	170.0	
30	166.7		164.0	162.9	169.8	163.4	175.1	164.7	168.2	167.1	167.8	170.3	Annual
31	166.6		168.7		167.9		164.7	161.4		165.4		178.8	Summary
Average	168.5	181.4	178.1	169.6	168.5	165.5	167.9	167.7	167.9	166.0	168.0	168.4	169.8
Minimum	163.2	158.1	164.0	161.2	161.1	160.0	161.0	161.4	159.7	148.8	157.1	163.9	148.8
Maximum	176.0	222.6	223.2	196.0	180.4	169.4	175.1	173.6	172.2	172.6	175.0	178.8	223.2
Total	5222.2	5079.7	5521.2	5088.3	5223.4	4963.5	5204.1	5200.2	5035.7	5146.0	5039.7	5221.0	61944.9

Point Loma Wastewater Treatment Plant 2003 Daily Dry Weather Flows (mgd)

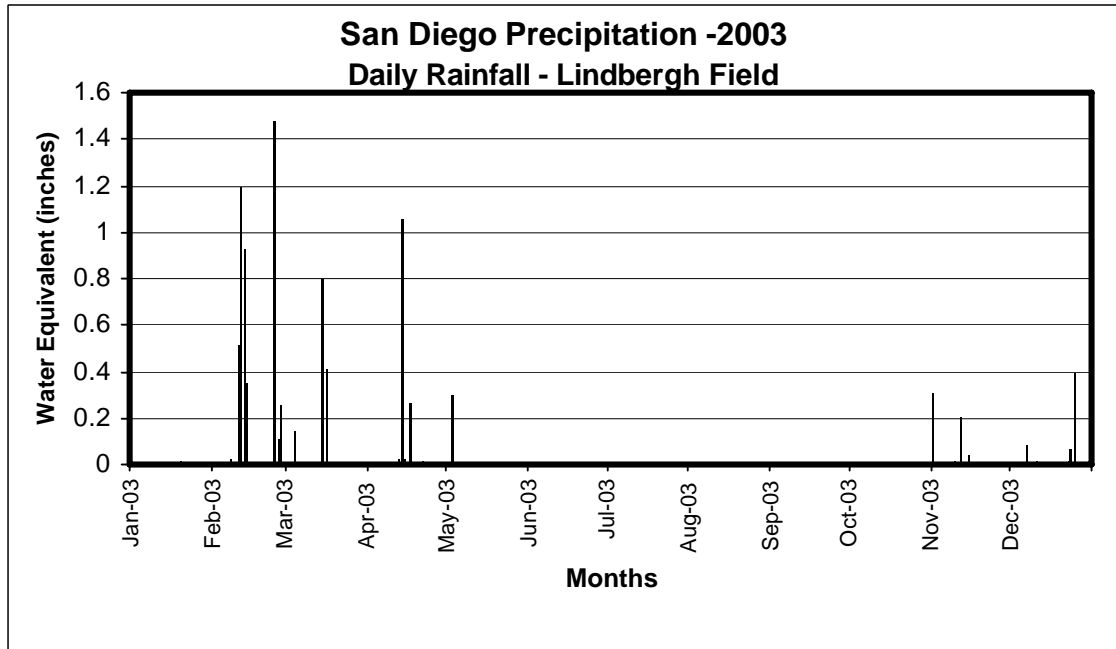


Point Loma Wastewater Treatment Plant

2003 Dry Flows (mgd)

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	163.2	170.1	193.2	168.2	165.9	164.2	165.3	168.1	169.1	165.0		168.3	
2	166.2	165.1	186.3	163.7	163.3	169.4	169.4	171.3	168.5	165.8		164.3	
3	166.5	171.2		163.4			170.1	164.5	167.2	161.3		172.5	
4	175.0	169.4		163.9	175.7	167.6	161.9	167.6	168.8	165.4	162.5	166.0	
5	175.1	158.1	186.2		179.5	166.1	161.0	167.6	168.6	167.6	166.8	169.8	
6		169.5	174.3	163.2	172.1		162.5	167.4	171.1	165.7	174.1	172.1	
7	166.1		184.1	165.3			170.4	163.2	167.9	166.7	168.1		
8			174.1	164.7	169.8	162.6	170.1	172.4	172.2	170.4	166.9		
9	169.0	163.4	172.8	164.0	166.5	169.2	164.0	169.7	165.7	169.1	163.7	174.4	
10	168.9	165.9	173.2	162.6	164.9	165.9		166.1	168.1				
11	176.0		172.9	161.2	169.3	164.7	164.6	170.9	165.6	167.8			
12	171.0		172.7	161.4	168.8	166.4	174.0	167.0	168.4	167.5		164.6	
13	168.0		169.9		169.8	165.8	165.4	170.2	165.0	169.3	171.2	168.1	
14	170.3		168.5		167.7	167.3	169.1	169.1	169.4	167.7	168.8		
15	170.2	191.0			164.8	164.0	170.4	167.8	168.6	166.4		164.2	
16	167.9	179.7		182.4	171.4	165.8	168.8	165.4	168.5			169.9	
17	164.8	178.5			170.3	167.4	168.1	167.7	166.9	171.2		166.6	
18	166.1	173.3	190.3	179.4	165.4	165.8		164.5	168.2	169.0	165.4	173.5	
19			182.9	173.6	172.5			166.8	163.4	166.8	165.5	166.2	
20		175.9	179.0	173.8	167.8		166.7	173.6		166.0	171.8		
21	168.8	171.7	180.0		168.5		172.3	164.5	171.6	166.9	163.6	165.9	
22	166.6	173.5	175.8		163.4	163.1	168.0	168.1	168.9	162.9	171.6	167.2	
23	165.9		175.9	169.3	163.6	160.0	164.6	165.0		172.6	175.0		
24	167.7		168.8	167.2	163.0	166.6	169.3	171.0	168.7	164.8	169.2		
25	171.4		172.0	167.2	161.1	167.0	170.5	168.9	166.9	169.9			
26	170.9		171.1	171.9	164.0	167.4	170.0	168.0	159.7	160.4	167.4	166.3	
27	169.0		172.0	165.5	170.5	164.6	164.7	173.6	164.9	148.8	166.5	169.1	
28	167.3		169.5	168.3	167.1	166.1		167.6	169.5	164.6	157.1	164.1	
29	165.9		167.3	166.9		163.4	165.5	166.4	169.2	162.0	159.4	170.0	
30	166.7		164.0	162.9	169.8	163.4		164.7	168.2	167.1	167.8	170.3	Annual
31	166.6		168.7		167.9		164.7	161.4		165.4		178.8	Summary
Average	168.6	171.8	175.6	167.4	168.0	165.6	167.4	167.7	167.8	166.0	167.1	168.7	168.5
Minimum	163.2	158.1	164.0	161.2	161.1	160.0	161.0	161.4	159.7	148.8	157.1	164.1	148.8
Maximum	176.0	191.0	193.2	182.4	179.5	169.4	174.0	173.6	172.2	172.6	175.0	178.8	193.2
Total	4551.0	2576.3	4565.2	3849.7	4704.1	3973.5	4351.3	5200.2	4698.6	4813.8	3342.0	3712.0	50337.7

B. Rain Days



Total Precipitation = 9.18 A

Maximum = 1.48A

Trace = T

First Quarter		Second Quarter		Third Quarter		Fourth Quarter		
Date	Rain	Date	Rain	Date	Rain	Date	Rain	
6-Jan-03	T	5-Apr-03	T	10-Jul-03	T	10-Oct-03	T	
8-Jan-03	T	13-Apr-03	0.03	18-Jul-03	T	16-Oct-03	T	
19-Jan-03	T	14-Apr-03	1.06	19-Jul-03	T	1-Nov-03	0.31	
20-Jan-03	0.02	15-Apr-03	0.03	28-Jul-03	T	2-Nov-03	T	
7-Feb-03	T	17-Apr-03	0.27	30-Jul-03	T	3-Nov-03	0.01	
8-Feb-03	0.03	21-Apr-03	T	20-Sep-03	T	10-Nov-03	0.02	
11-Feb-03	0.52	22-Apr-03	0.02	23-Sep-03	T	11-Nov-03	T	
12-Feb-03	1.2	3-May-03	0.3	10-Oct-03	T	12-Nov-03	0.21	
13-Feb-03	0.93	7-May-03	T	16-Oct-03	T	15-Nov-03	0.04	
14-Feb-03	0.35	29-May-03	T			16-Nov-03	0.01	
19-Feb-03	T	3-Jun-03	T			17-Nov-03	T	
23-Feb-03	T	6-Jun-03	T			25-Nov-03	T	
24-Feb-03	T	7-Jun-03	T			7-Dec-03	0.09	
25-Feb-03	1.48	19-Jun-03	T			8-Dec-03	0.01	
26-Feb-03	0.11	20-Jun-03	T			10-Dec-03	T	
27-Feb-03	0.26	21-Jun-03	T			11-Dec-03	0.02	
28-Feb-03	T					14-Dec-03	T	
3-Mar-03	T					20-Dec-03	T	
4-Mar-03	0.15					23-Dec-03	0.02	
15-Mar-03	0.8					24-Dec-03	0.07	
16-Mar-03	0.41					25-Dec-03	0.4	
17-Mar-03	T							
TOTALS	6.26		1.71		0		1.21	
							ANNUAL TOTAL	9.18

C. Solids Production

Point Loma Annual Monitoring Report
Solids Report - TOTALS

From 01-JAN-2003 To 31-DEC-2003

Month	Pt. Loma Raw sludge		Pt.Loma Digested Sludge		MBC Combined Centrate		MBC Dewatered Sludge	
	Gallons	Tons	Gallons	Tons	Gallons	Tons	Wet Tons	Dry Tons
01	34,694,163	5,980	29,465,120	2,721	70,961,398	749	9,467	2,803
02	31,593,495	5,845	31,359,930	2,870	63,718,718	659	8,554	2,472
03	35,692,317	6,127	36,028,450	3,455	62,339,802	768	10,459	3,130
04	36,824,944	5,930	37,048,580	3,251	71,608,132	802	10,171	3,006
05	38,959,058	6,092	38,650,030	3,280	78,382,925	801	11,234	3,376
06	35,354,186	5,693	35,083,290	3,114	70,569,722	769	10,000	2,870
07	36,281,597	6,203	37,679,320	3,564	78,681,790	776	12,043	3,279
08	35,527,663	6,272	36,545,460	3,628	76,145,995	775	11,468	3,223
09	33,520,437	5,892	33,010,290	3,435	73,215,071	782	12,055	3,225
10	33,926,448	5,930	35,016,830	3,651	72,730,834	756	11,672	3,387
11	32,432,975	5,847	29,077,460	3,013	70,696,951	732	9,927	2,887
12	34,146,952	6,090	34,883,890	3,551	77,997,814	870	11,496	3,314
avg	34,912,853	5,992	34,487,388	3,294	72,254,096	770	10,712	3,081
sum	418,954,235	71,901	413,848,650	39,533	867,049,152	9,239	128,545	36,972

Solids Report - Daily Averages by Month
From 01-JAN-2003 To 31-DEC-2003

Month	Pt. Loma Raw sludge			Pt.Loma Digested Sludge			MBC Combined Centrate			MBC Dewatered Sludge		
	Gallons	%TS	Tons	Gallons	%TS	Tons	Gallons	%TS	Tons	Wet Tons	%TS	Dry Tons
01	1,119,167	4.1	191	950,488	2.2	93	2,289,077	0.25	24.4	379	29.6	112.1
02	1,128,339	4.4	206	1,119,998	2.2	97	2,275,669	0.25	23.6	305	28.9	88.3
03	1,151,365	4.1	199	1,162,208	2.3	111	2,010,961	0.30	24.3	337	29.9	101.0
04	1,227,498	3.9	196	1,234,953	2.1	106	2,386,938	0.27	26.3	339	29.6	100.2
05	1,256,744	3.8	196	1,246,775	2.0	105	2,528,482	0.25	25.9	362	30.1	108.9
06	1,178,473	3.9	190	1,169,443	2.1	105	2,352,324	0.26	25.5	333	28.7	95.7
07	1,170,374	4.1	199	1,215,462	2.3	114	2,538,122	0.24	25.0	388	27.2	105.8
08	1,146,054	4.2	202	1,178,886	2.4	117	2,456,322	0.24	25.1	370	28.1	104.0
09	1,117,348	4.2	197	1,100,343	2.5	115	2,440,502	0.26	26.2	402	26.8	107.5
10	1,094,402	4.2	191	1,129,575	2.5	119	2,346,156	0.25	24.2	377	29.0	109.3
11	1,081,099	4.3	196	969,249	2.5	96	2,356,565	0.25	24.6	331	29.1	96.2
12	1,101,515	4.3	196	1,125,287	2.4	115	2,516,059	0.27	28.0	371	28.8	106.9
avg	1,147,698	4.1	197	1,133,555	2.3	108	2,374,765	0.26	25.2	358	28.8	103.0

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 - 2003

Month	Polymer Pt. Loma Gallons	ACTIVE Polymer Pt. Loma Lbs.	Ferri c Chlori de PS #2 Gallons	Ferri c Chlori de Pt. Loma Gallons	Sodi um hydroxi de PS #1 Gallons	Sodi um hydroxi de PS #2 Gallons	Sodi um hydroxi de Pt. Loma Gallons	Sodi um Hypochl orite PS #1 Gallons	Sodi um Hypochl orite PS #2 Gallons	Sodi um Hypochl orite Pt. Loma Gallons	Salt PS #1 Lbs.	Salt PS #2 Lbs.	Salt Pt. Loma Lbs.
01	155,101	6,533	71,319	223,775	400		4,790	900	1,439	24,399	550	2,050	15,500
02	153,740	6,477	66,173	210,754	150		4,728	1,250	3,991	45,397	1,150	1,050	14,000
03	164,108	6,910	73,699	228,709	50		4,555	175	2,258	28,703		800	15,500
04	151,172	6,363	70,383	207,363	125		4,663	850	201	31,595	1,250		15,000
05	188,085	7,924	71,911	211,053	200		5,972	750	1,716	42,805	950		15,500
06	191,244	8,053	75,210	208,713	250		3,838	825	797	30,053	850	250	15,000
07	207,397	8,736	82,408	239,741	25	0	4,594	350	98	36,609	1,800	400	15,500
08	205,239	8,643	82,271	263,554		223	4,194	325	931	34,572	1,500	2,000	15,500
09	205,546	8,657	78,207	272,312	500	1,087	3,867	1,225	2,360	28,935	1,350	1,600	15,000
10	207,989	8,760	84,960	271,758	150		5,092	937	13	26,944	2,600	1,500	15,500
11	206,249	8,688	81,366	264,609	50	1	4,850	1,175		26,453	1,451	700	15,000
12	205,427	8,651	88,769	262,375	439		3,942	1,338		20,524	2,150	450	15,500
avg	186,775	7,866	77,223	238,726	213	328	4,590	842	1,380	31,416	1,418	1,080	15,208
sum	2,241,296	94,395	926,676	2,864,716	2,339	1,311	55,085	10,100	13,804	376,989	15,601	10,800	182,500

E. Gas Production

Point Loma Wastewater Treatment Plant Gas Report - 2003

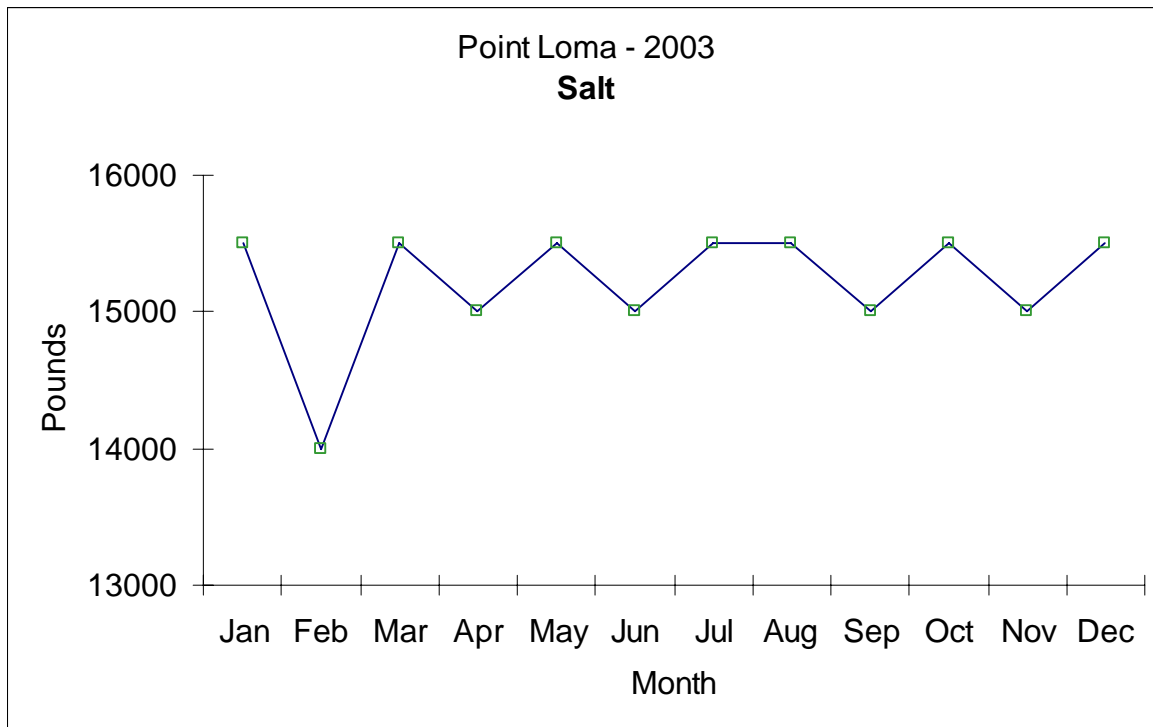
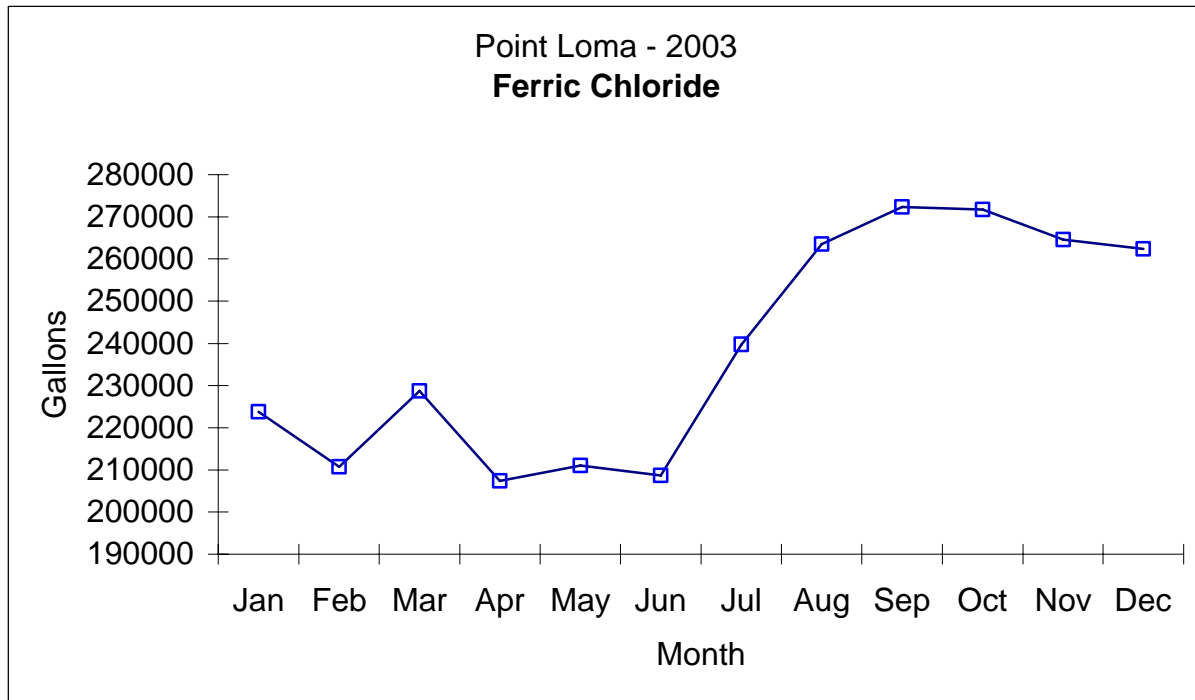
Daily Monthly Averages

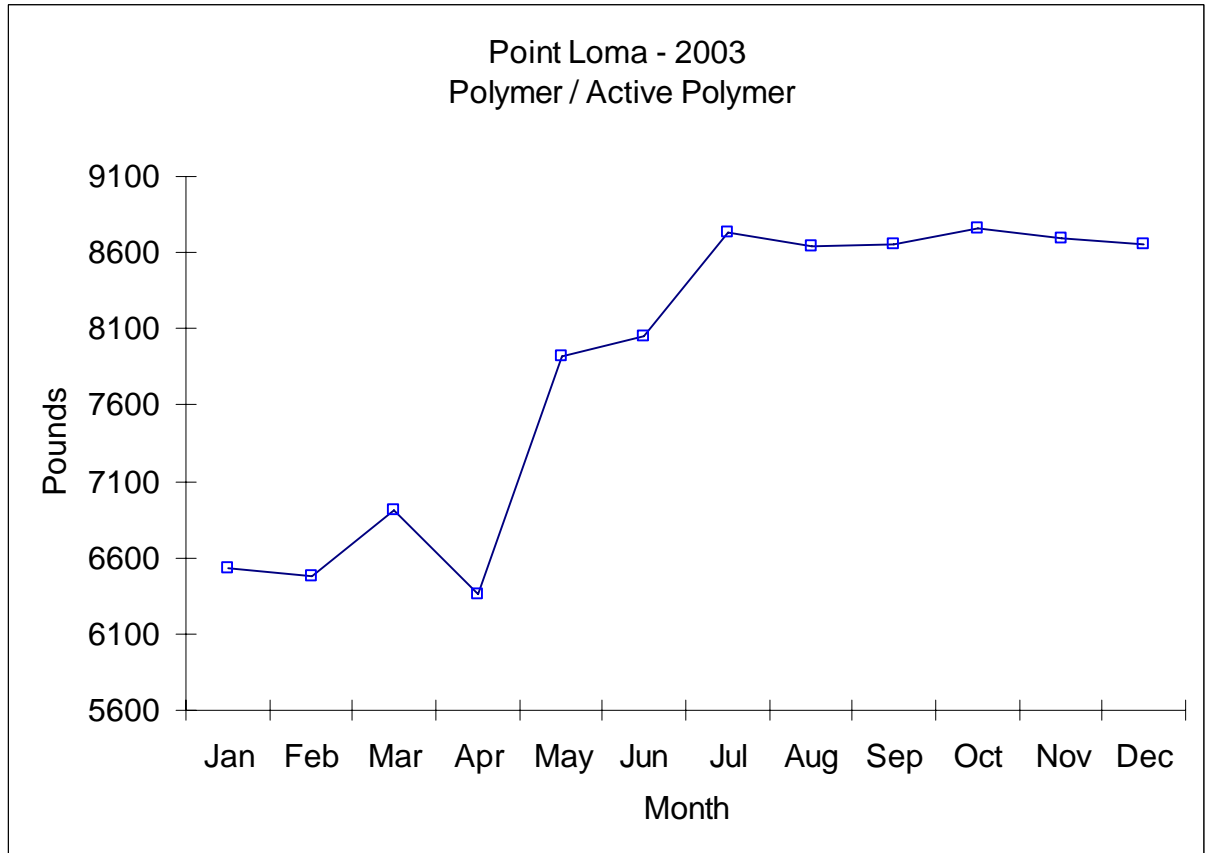
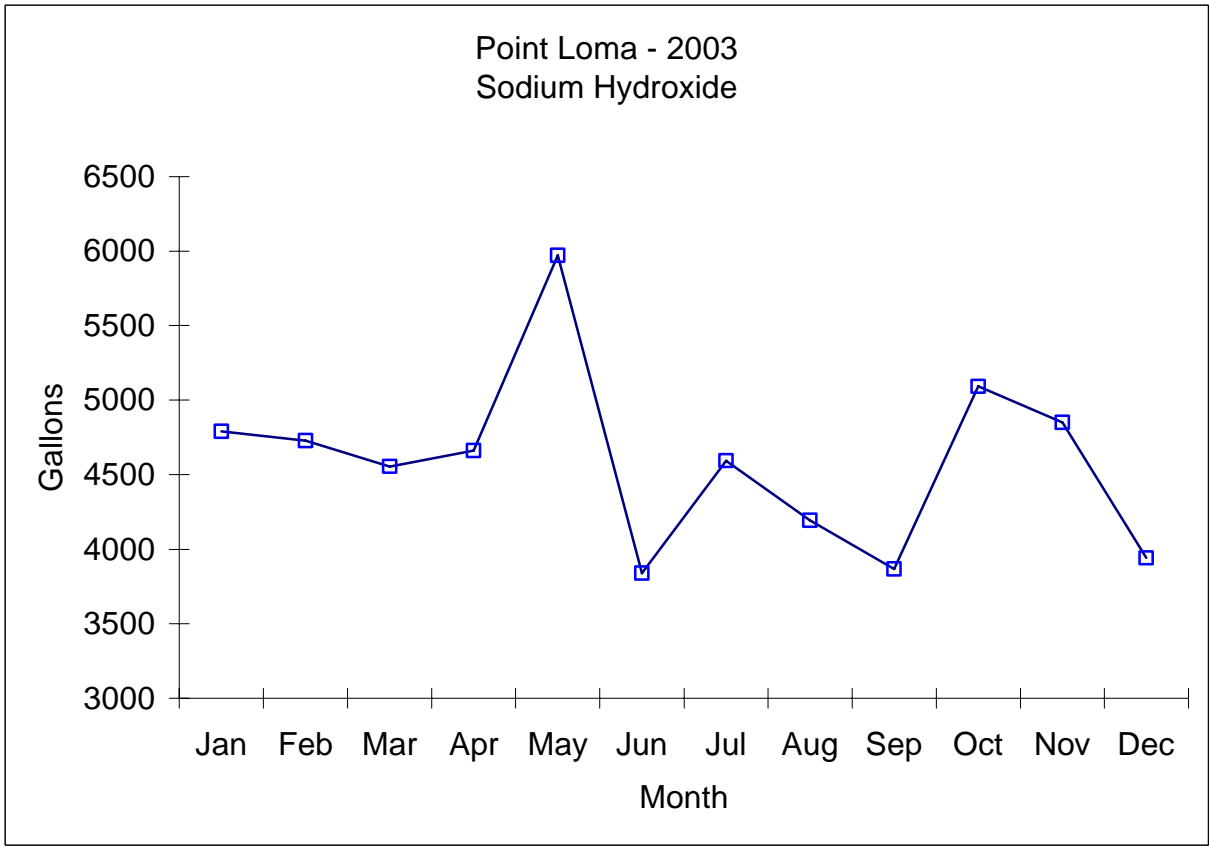
GAS PRODUCTION (x1000 Cu. Ft.)						GAS CONSUMPTION (x1000 Cu. Ft.)						
Month	N-1-P	N-2-P	C-1-P	C-2-P	S-1-P	S-2-P	Dig 7	Total	Boilers	Burners	GUF	Total
01	488.7	610.2	37.9	23.1	404.7	598.1	66.7	2,162.7	70	1,110	1,738	2,918
02	378.3	446.7	359.2	347.5	288.9	463.7	33.2	2,284.4	104	1,490	1,508	3,101
03	368.6	459.1	364.4	318.5	223.5	524.9	39.1	2,259.0	227	1,998	899	3,124
04	365.4	450.0	365.2	334.2	219.8	503.2	40.3	2,237.7	148	1,552	1,303	3,004
05	374.5	454.4	366.7	328.9	257.4	474.9	31.5	2,256.7	52	1,153	1,800	3,005
06	232.5	553.8	459.4	403.3	55.0	621.6	34.1	2,325.6	49	1,144	1,797	2,990
07	.0	637.3	539.9	461.5	.0	672.2	48.5	2,310.9	20	1,415	1,787	3,223
08	.0	623.0	528.0	452.5	.0	650.7	42.8	2,254.2	9	1,372	1,755	3,136
09	.0	606.1	522.4	445.0	.0	629.6	39.8	2,203.2	13	1,237	1,798	3,048
10	.0	688.6	592.9	491.8	.0	187.4	48.6	1,960.8	11	1,222	1,772	3,005
11	141.8	540.8	639.0	526.8	.0	.0	59.9	1,848.3	30	1,376	1,602	3,008
12	736.3	.0	639.5	524.2	.0	.0	65.3	1,900.1	28	1,373	1,716	3,117
avg	257.2	505.8	451.2	388.1	120.8	443.9	45.8	2,167.0	63	1,370	1,623	3,056

Monthly Totals

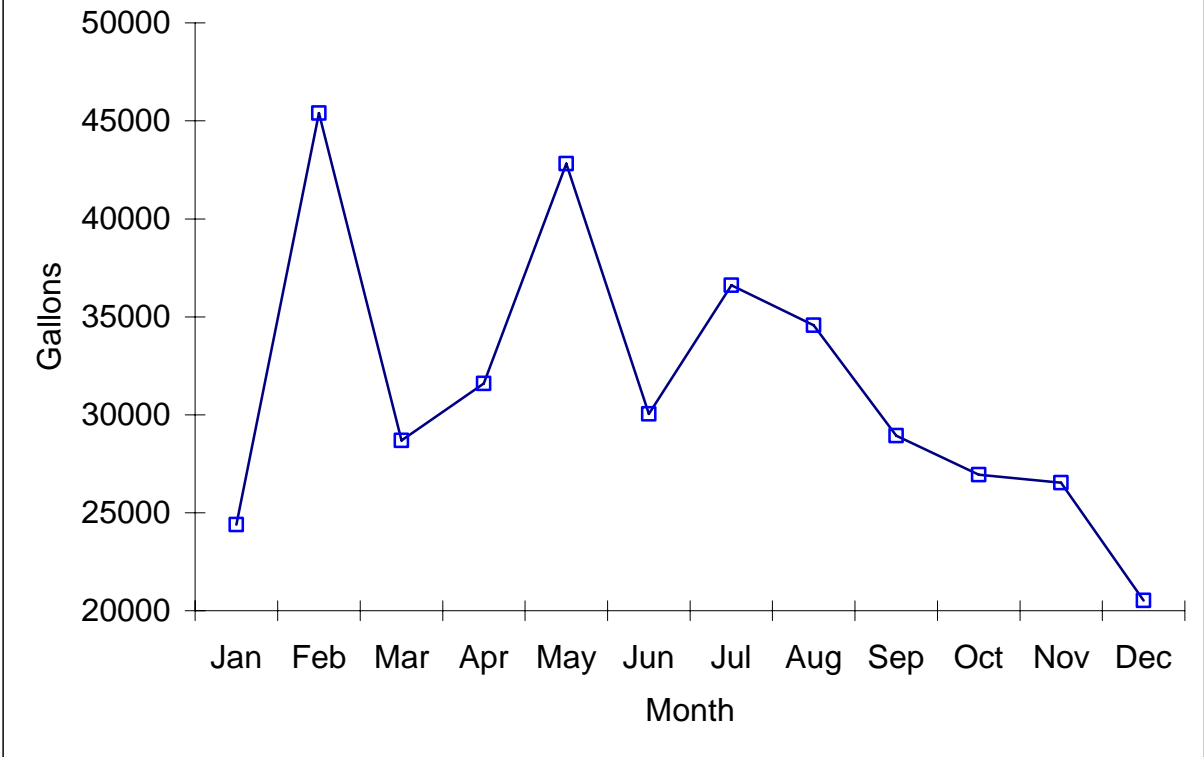
GAS PRODUCTION (x1000 Cu. Ft.)						GAS CONSUMPTION (x1000 Cu. Ft.)						
Month	N-1-P	N-2-P	C-1-P	C-2-P	S-1-P	S-2-P	Dig 7	Total	Boilers	Burners	GUF	Total
01	15,150.0	18,916.0	1,174.0	715.0	12,547.0	18,541.0	2,067.0	67,043.0	2,175	34,405	53,882	90,462
02	10,591.0	12,508.0	10,058.0	9,731.0	8,090.0	12,984.0	930.0	63,962.0	2,900	41,708	42,222	86,830
03	11,428.0	14,231.0	11,297.0	9,874.0	6,927.0	16,272.0	1,211.0	70,029.0	7,031	61,929	27,876	96,836
04	10,962.0	13,499.0	10,955.0	10,026.0	6,593.0	15,097.0	1,208.0	67,132.0	4,449	46,568	39,094	90,111
05	11,609.0	14,085.0	11,367.0	10,195.0	7,980.0	14,722.0	978.0	69,958.0	1,610	35,734	55,802	93,146
06	6,975.0	16,613.0	13,782.0	12,098.0	1,651.0	18,648.0	1,023.0	69,767.0	1,474	34,317	53,895	89,686
07	.0	19,756.0	16,736.0	14,307.0	.0	20,839.0	1,504.0	71,638.0	620	43,870	55,411	99,901
08	.0	19,313.0	16,368.0	14,027.0	.0	20,171.0	1,327.0	69,879.0	284	42,543	54,393	97,220
09	.0	18,184.0	15,672.0	13,351.0	.0	18,889.0	1,194.0	66,096.0	375	37,122	53,953	91,450
10	.0	21,348.0	18,381.0	15,246.0	.0	5,809.0	1,507.0	60,784.0	328	37,881	54,935	93,144
11	4,253.0	16,224.0	19,169.0	15,803.0	.0	.0	1,797.0	55,449.0	897	41,275	48,068	90,240
12	22,826.0	.0	19,826.0	16,251.0	.0	.0	2,023.0	58,903.0	858	42,570	53,196	96,624
avg	7,816.2	15,389.8	13,732.1	11,802.0	3,649.0	13,497.7	1,397.4	65,886.7	1,917	41,660	49,394	92,971
sum	93,794.0	184,677.0	164,785.0	141,624.0	43,788.0	161,972.0	16,769.0	790,640.0	23,001	499,922	592,727	1,115,650

F. Graphs of Chemical Usage





Point Loma - 2003
Sodium Hypochlorite



G. Facilities Out-of-service report (2003)

Facilities that were out of service In 2003 by date

C1P Digester	01/01	01/23	Contractor rehabilitation
C2P Digester	01/01	01/24	Contractor rehabilitation
Sed Basin #11	01/01	12/31	Poor removals
Sed Basin #12	01/01	12/31	Poor removals
Sed Basin # 5	01/01	01/30	Preventive maintenance
Sed Basin # 8	01/01	02/13	Preventive maintenance
West Influent Channel	01/01	01/17	Channel Rotation/Grit Scouring
East Influent Channel	01/17	02/12	Channel Rotation/Grit Scouring
Sed Basin # 5	02/06	04/01	Scum system and flight repair
Sed Basin # 9	02/12	02/19	Cross collector repair
Sed Basin # 1	02/19	03/23	Preventive maintenance
Sed Basin # 3	02/20	02/21	Preventive maintenance
Sed Basin # 3	03/11	03/12	Preventive maintenance
Sed Basin # 4	03/23	04/25	Broken flight and scum system repair
Sed Basin # 1	03/25	05/09	Flight chain adjustment
East Influent Channel	04/02	04/16	Channel Rotation/Grit Scouring
Sed Basin # 10	04/26	12/31	South channel cleaning
Sed Basin # 5	04/28	05/01	Object retrieval
N2 Grit Basin	05/05	05/08	Line repair
Sed Basin # 4	05/06	06/11	Broken flight repair
West Influent Channel	05/28	07/02	Channel Rotation/Grit Scouring
Sed Basin # 8	06/12	07/22	Scum system repair
S1P Digester	06/19	12/31	Digester cleaning and rehabilitation
N1P Digester	06/24	11/21	Digester cleaning
Influent screen # 4	06/25	07/09	Rake replacement
East Influent Channel	07/02	07/30	Channel Rotation/Grit Scouring
Influent screen # 5	07/23	07/23	Rake adjustment
Sed Basin # 1	07/26	08/15	Water line repair
Sed Basin # 8	07/26	08/15	Scum system repair
West Influent Channel	07/30	08/27	Channel Rotation/Grit Scouring
Sed Basin # 9	08/15	09/15	Scum system repair and PM
East Influent Channel	08/27	09/03	Channel Rotation/Grit Scouring
C1 Grit Basin	09/15	09/16	Line break repair
Sed Basin # 8	09/17	09/19	Water line repair
S2P Digester	10/13	12/31	Water line break repair
Influent Screen # 5	11/05	11/10	Replace proximity switch
NEOC	11/15	12/19	Valve work
Influent Screen # 3	11/19	12/31	Rake repair
Influent Screen # 1	11/27	12/16	Shock absorber replacement
N2P Digester	12/17	12/31	Digester cleaning
East Influent Channel	12/17	12/31	Channel Rotation/Grit Scouring
N2 Grit Basin	12/23	12/23	Line break repair

GRIT CHAMBERS

N1	
N2	05/05-05/08, 12/09-12/11
C1	09/15-09/16
C2	
S1	01/01-12/31
S2	01/01-12/31

FACILITIES THAT WERE OUT OF SERVICE IN 2003
FACILITY: DATES OUT OF SERVICE

CHANNELS

EAST	01/17-02/12; 04/02-04/16; 07/02-07/30; 08/27-09/03; 12/17-12/31
WEST	01/01-01/17; 05/28-07/02; 07/30-08/27

BASINS

1	02/19-03/23; 03/25-05/09; 07/26-08/15
2	
3	
4	03/23-04/25; 05/06-06/11
5	01/01-01/30; 02/06-04/01; 04/28-05/01
6	
7	
8	01/01-02/13; 06/12-07/22; 07/29-08/15; 09/17-09/19
9	02/12-02/19; 08/15-09/15
10	04/26-12/31
11	01/01-12/31
12	01/01-12/31

NORTH EFFLUENT SCREENS	11/15-12/19
SOUTH EFFLUENT SCREENS	
INFLUENT SCREEN #1	11/27-12/16
INFLUENT SCREEN #2	
INFLUENT SCREEN #3	02/20-02/21; 03/11-03/12; 11/19-12/31
INFLUENT SCREEN #4	06/25-07/09
INFLUENT SCREEN #5	01/01-07/23; 11/05-11/10

DIGESTERS

N1P	06/24-11/21
N2P	11/30-12/31
C1P	01/01-01/23
C2P	01/01-01/24
S1P	06/19-12/31
S2P	10/13-12/31
Dig 7	
Dig 8	

SHUTDOWNS

DATE	FROM	TO	REASON
01/14	0115	0600	Pump Station 2 work
01/15	0130	0600	Pump Station 2 work
01/16	0130	0600	Pump Station 2 work
01/17	0200	0615	Divers in channel
07/09	0200	0600	Pump Station 2 work
09/15	0200	0600	Loma Portal Interceptor work
09/16	0200	0600	Loma Portal Interceptor work
09/17	0145	0530	Loma Portal Interceptor work
09/18	0100	0545	Loma Portal Interceptor work
09/19	0100	0515	Loma Portal Interceptor work
09/22	0100	0500	Loma Portal Interceptor work
09/23	0055	0515	Loma Portal Interceptor work
09/24	0145	0600	Loma Portal Interceptor work
09/25	0115	0515	Loma Portal Interceptor work
10/06	0115	0530	Loma Portal Interceptor work
10/07	0130	0550	Loma Portal Interceptor work
10/08	0130	0550	Loma Portal Interceptor work
10/09	0130	0600	Loma Portal Interceptor work

H. Grit Analyses

The following are reports of the analyses of grit samples taken from the Pt. Loma WWTP headworks (grit removal chambers) in 2003. 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 annual sample.

**Point Loma Wastewater Treatment Plant
Total Solids - Grit and Screenings 2003 (%WT)**

Grit Monthly Averages %		Headworks Screenings Monthly Averages %		Sludge Screenings Monthly Averages %	
JAN	47.9	JAN	40.1	JAN	40.2
FEB	56.3	FEB	42.3	FEB	40.2
MAR	70.1	MAR	41.8	MAR	37.0
APR	63.2	APR	42.8	APR	41.7
MAY	65.3	MAY	46.0	MAY	41.2
JUN	66.7	JUN	45.0	JUN	41.7
JUL	67.6	JUL	47.4	JUL	41.8
AUG	67.1	AUG	41.4	AUG	40.9
SEP	71.6	SEP	42.7	SEP	42.3
OCT	62.6	OCT	39.9	OCT	42.4
NOV	55.5	NOV	43.1	NOV	43.0
DEC	53.4	DEC	38.7	DEC	41.3
AVG	62.3	AVG	42.6	AVG	41.1

Point Loma Wastewater Treatment Plant
2003 Grit Total Solids (%WT) at Point Loma

Day	Jan % WT	Feb % WT	Mar % WT	Apr % WT	May % WT	Jun % WT	Jul % WT	Aug % WT	Sep % WT	Oct % WT	Nov % WT	Dec % WT
1		51.1	76.2	60.3	57.6	72.3	75.3	80.2	70.4	85.4		43.1
2	67.6	52.1	62.6	72.2	48.1	72.5	72.8	51.5	76.0	70.0	50.1	45.4
3	51.2	48.6	82.6	66.7	58.3	73.9	68.9	59.7	76.0		51.7	50.4
4	40.8	43.8	77.4	74.1	57.7	64.4	67.3	67.4	70.9	76.4	50.2	48.7
5	47.7	48.8	74.9	74.0	70.8	53.5	72.6	67.1	59.4	59.0		50.6
6	54.5	47.7	77.8	48.6	62.7	61.0	72.1	75.6	57.5	74.2	49.7	52.7
7	61.8	49.7	64.8	71.9	71.4	63.7	62.1	69.8	63.5	64.2		54.4
8	45.4	46.6	74.3	63.6	65.3	59.9	65.5	75.1	56.8	78.9	57.8	59.7
9	52.0	53.0	70.0	70.1	67.3	64.4	74.0	72.9	61.7	60.1	65.3	60.8
10	50.2	48.4	69.0	71.6	52.4	65.2	65.0	61.1	65.9	51.5	53.5	45.1
11	40.5	39.8	64.5	67.0	59.7	72.0	63.4	80.9	73.1	79.8		57.6
12	55.0	43.8	67.5	76.2	63.7	60.9	65.4	78.2	77.0		71.0	53.2
13	46.4	53.9	64.8	62.8	59.7	65.1	49.0	51.6	76.9	74.7		57.1
14	50.0	46.5	66.6	66.1	58.2	72.2	68.0	66.1	74.0	77.9	49.7	49.7
15	44.3	60.6	66.5	58.8	62.8	66.6	71.2	66.4	81.5	47.5	50.6	59.4
16	47.0	48.5	65.8	63.5	49.8	70.4	59.2	60.1	85.4		50.8	52.7
17	50.0	57.4	72.1	50.2	64.8	58.0	77.6	64.2	72.7	66.7		49.0
18	41.5	50.5	80.3	60.1	57.6	66.1	63.2	72.4	72.3	48.1	67.4	62.9
19	43.8	59.6	69.8	58.6	82.1	69.4	77.4	68.6	71.9			52.0
20	49.1	46.0	77.5	69.7	70.5	59.1	72.0	60.1	74.4	59.5	61.5	53.4
21	40.4	64.3	63.9	57.1	67.6	62.4	72.9	73.3		65.9	64.0	66.5
22	43.4	62.5	70.7	57.4	68.3	52.0	61.7	70.5	72.1	45.8		51.6
23	46.4	75.3	72.8	57.6	72.6	75.6	70.6	68.9	78.5		58.6	53.2
24	45.6	64.6	62.9	58.6	73.3	75.8	61.5	57.7	79.3	54.1	53.5	40.0
25	50.6	86.7	66.8	71.0	66.4		60.1	71.4	60.0	55.1	48.4	61.8
26	49.3	69.2	70.8	72.5	80.2	63.6	61.6	63.7	74.8	61.7	51.1	46.8
27	45.7	78.2	66.6	53.7	71.2	65.2	60.8	66.3		50.9	61.3	63.0
28	49.5	78.9	67.4	56.5	77.8	80.3	71.9	67.6	82.5	52.5	47.7	60.2
29	41.6		67.5	53.3	76.0	79.6	72.7	62.9		60.2	50.7	51.4
30	42.4		69.2	51.1	51.0	69.5	83.3	62.9	69.6	58.0		51.4
31	43.5		70.9		79.7		57.4			49.3		52.3
Avg	47.9	56.3	70.1	63.2	65.3	66.7	67.6	67.1	71.6	62.6	55.5	53.4
Min	40.4	39.8	62.6	48.6	48.1	52.0	49.0	51.5	56.8	45.8	47.7	40.0
Max	67.6	86.7	82.6	76.2	82.1	80.3	83.3	80.9	85.4	85.4	71.0	66.5

**Point Loma Wastewater Treatment Plant
2003 Headworks Screenings Total Solids (%WT) at Point Loma**

Day	Jan %WT	Feb %WT	Mar %WT	Apr %WT	May %WT	Jun %WT	Jul %WT	Aug %WT	Sep %WT	Oct %WT	Nov %WT	Dec %WT
1	42.4			35.2			46.5	35.3				
2		48.8	36.3			60.3					43.0	39.2
3									38.6			
4					36.6						46.7	
5	34.6		44.4			39.7		38.1				
6		39.7		36.7				62.9				
7					48.5				37.1			37.1
8	42.3			47.4						42.4		
9		41.4	47.1				41.5		34.1		41.5	
10						40.3		39.6		33.9		
11		41.1			50.5			37.4				
12	46.0		40.9					38.9	38.5	35.1		
13				39.7	43.2	44.1	58.4				43.8	31.1
14	42.5	43.0							51.3	43.5		43.7
15				47.5			48.1	38.7				
16		37.4	40.0						45.7		42.2	
17								41.7			45.3	
18			36.7		40.1	46.9	46.7					
19	38.3								45.1	45.0	44.9	
20	40.3	35.9		44.4			52.3					
21								42.5	56.2			42.2
22						44.4					42.3	
23	40.3	41.6	43.7		42.2						43.6	
24				44.2			44.7	45.8	47.7	41.3		
25											37.7	
26	41.7	51.7				39.2		37.3				
27			40.8	35.5	52.0		42.8					
28	32.9								42.4			
29				54.7				36.2		38.2		
30			45.9		54.5		45.2		33.3			
31								44.2				
Avg	40.1	42.3	41.8	42.8	46.0	45.0	47.4	41.4	42.7	39.9	43.1	38.7
Min	32.9	35.9	36.3	35.2	36.6	39.2	41.5	35.3	33.3	33.9	37.7	31.1
Max	46.0	51.7	47.1	54.7	54.5	60.3	58.4	62.9	56.2	45.0	46.7	43.7

Point Loma Wastewater Treatment Plant
2003 Sludge Screenings Total Solids (%WT) at Point Loma

Day	Jan % WT	Feb % WT	Mar % WT	Apr % WT	May % WT	Jun % WT	Jul % WT	Aug % WT	Sep % WT	Oct % WT	Nov % WT	Dec % WT
1	37.3					51.4		42.0	41.9	42.0	41.0	39.6
2				47.1	37.3		41.0	41.8	39.6	42.9	44.2	
3	37.4	39.7	36.9					41.7	44.3		41.9	44.2
4				44.8		41.2	40.0	42.5	40.5	41.8	42.1	42.1
5		40.5	39.5		45.1				38.2	32.4	43.1	41.4
6	41.7						41.8	43.8		40.3	42.5	38.9
7		40.9	33.7	44.5	40.4		41.8	42.4		44.3	45.8	39.6
8	41.1					40.2		52.5	41.2	45.9		37.9
9				40.5	42.6	39.0	41.1		45.6	38.8	42.5	42.3
10	40.3	42.1	31.3					40.9	42.6	41.7	38.2	40.6
11				39.8		43.9	43.5	37.3	44.6	42.0	40.9	40.1
12		38.4	38.7		43.9			37.9	40.5	42.8	43.2	37.2
13	38.7							39.2				43.7
14		42.1	40.0	45.5	39.5		48.1	39.5	42.8	42.1		
15	55.9					40.0		38.3	39.9	45.1	46.5	40.8
16				38.0	41.8	37.1	46.0	39.1	43.3	49.0	43.1	39.1
17	39.8	38.3	38.5						40.1			43.6
18				38.1		42.9	41.3	37.9	42.0		42.2	41.7
19		38.3	41.3		40.9			39.2	45.5	41.0		41.4
20						40.4		38.7	38.9	46.8	46.7	45.1
21		40.0	38.1	38.1	38.7		39.8	38.1	46.1	42.5	46.5	44.8
22	38.4							39.4	45.6			
23					35.4	37.8	42.3	41.8	42.7	42.8	42.5	39.6
24	39.9	33.9	33.0					39.6	42.8	45.2	44.5	39.6
25				45.1	45.8	37.8	41.3	40.4	41.2	36.5	40.5	37.4
26		44.4			40.0			44.7		48.4	41.6	38.4
27	38.6					42.3		40.2	41.9	41.9	39.6	38.5
28		43.2	35.9	40.2	43.6			42.4	41.7	39.8	39.8	50.3
29	36.3					44.8	40.5	41.9	42.2	41.0	51.4	41.0
30				38.4		45.3	40.5	41.4	44.2	41.3	41.8	44.2
31	37.1						38.4	41.6		43.8		42.3
Avg	40.2	40.2	37.0	41.7	41.2	41.7	41.8	40.9	42.3	42.4	43.0	41.3
Min	36.3	33.9	31.3	38.0	35.4	37.1	38.4	37.3	38.2	32.4	38.2	37.2
Max	55.9	44.4	41.3	47.1	45.8	51.4	48.1	52.5	46.1	49.0	51.4	50.3

Title 22 reports for Grit

POINT LOMA WASTEWATER TREATMENT PLANT
 CALIFORNIA HAZARDOUS WASTE IDENTIFICATION TESTS (Title 22)
 Point Loma Quarterly Grit Composite

From: 01-OCT-2003 to: 31-DEC-2003

Sampled by: Point Loma Operations
 Analyzed by: BOA,G8C,JRF,JZI, IEN,LXP,DXS,JRV,TSB,HHB,KOD,EVL
 Source: PLR
 Sample ID: P234761
 Sample Date: 03-NOV-2003

INORGANICS	Constituent	MDL	Units	Total Conc	Total Conc	TTLc Limit	W.E.T. Conc	STLC Limit	CA Health&	Safety Code
				Dry Wt.	Wet Wt.	Wet Wt.	Wet Wt.	Wet Wt.	40 CFR 503	Limits ***
				mg/Kg	mg/Kg	mg/Kg	mg/L	mg/L	mg/Kg	mg/K g
Antimony	5	mg/kg		0.92	0.46	500	*	15	*	*
Arsenic	.33	mg/kg		1.77	0.89	500	*	5.0	41	*
Barium	.042	mg/kg		65	32	10000	*	100	*	*
Beryllium	.2	mg/kg		0.035	0.018	75	*	0.75	*	*
Cadmium	.5	mg/kg		0.5	0.25	100	*	1.0	39	*
Chromium (VI)	NA	mg/kg		NA	NA	500	*	5.0	*	*
Chromium	3	mg/kg		10	5	2500	*	560	1200	*
Cobalt	.8	mg/kg		1.1	0.5	8000	*	80	*	*
Copper	2	mg/kg		149	75	2500	*	25	1500	2500
Lead	5	mg/kg		19	9.5	1000	*	5.0	300	350
Mercury	.003	mg/kg		0.38	0.19	20	*	0.2	17	*
Molybdenum	.6	mg/kg		3.1	1.6	3500	*	350.0	*	*
Nickel	3	mg/kg		15	7.5	2000	*	20	420	2000
Selenium	.24	mg/kg		<0.24	ND	100	*	1.0	36	*
Silver	3	mg/kg		3.1	1.6	500	*	5.0	*	*
Thallium	10	mg/kg		<0.5	ND	700	*	7.0	*	*
Vanadium	1.4	mg/kg		6	3	2400	*	24	*	*
Zinc	4	mg/kg		258	129	5000	*	250	2800	*
Fluoride	NA	mg/kg		NA	NA	18000	*	180		
Sulfides-Reactive		mg/kg		NA	NA	*	NA			
Sulfides-Total		mg/kg		NA	NA	*	NA			
Total Solids	NA	Wt%		50.0		*	NA			
Total Volatile Solids	NA	Wt%		45.9		*	*			
pH	NA	pH Units		5.84		>2 - < 12	*			

ORGANICS	Constituent	MDL	Units	Total Conc	Total Conc	TTLc Limit	W.E.T. Conc	STLC Limit
				Dry Wt.	Wet Wt.	Wet Wt.	Wet Wt.	Wet Wt.
				mg/Kg	mg/Kg	mg/Kg	mg/L	mg/L
Aldrin	0.00002	mg/Kg		ND	ND	1.4	*	0.14
Chlordanes	0.000014	mg/Kg		ND	ND	2.5	*	0.25
DDT, DDE, DDD	0.00004	mg/Kg		ND	ND	1.0	*	0.10
2,4-D	3.4	mg/Kg		ND	ND	100	*	10
Dieldrin	0.00002	mg/Kg		ND	ND	8.0	*	0.8
Endrin	0.00003	mg/Kg		ND	ND	0.2	*	0.02
Heptachlor	0.000003	mg/Kg		ND	ND	4.7	*	0.47
Kepone	NA	mg/Kg		NA	ND	21	*	2
Lindane	0.00001	mg/Kg		ND	ND	4.0	*	0.4
Methoxychlor	NA	mg/Kg		ND	ND	100	*	10
Mirex	0.00002	mg/Kg		ND	ND	21	*	2
Pentachlorophenol	0.8	mg/Kg		ND	ND	17	*	1.7
PCBs (Arochlors)	NA	mg/Kg		ND	ND	50	*	5.0
Toxaphene	0.00024	mg/Kg		ND	ND	5	*	0.5
Trichloroethene	0.0253	mg/Kg		ND	ND	2040	*	204
2,4,5-TP	4.4	mg/Kg		ND	ND	10	*	1

ND= not detected, NA = not analyzed

- TTLc = Total Threshold Limit Concentration.
- STLC = Soluble Threshold Limit Concentration.
- W.E.T. = Waste Extraction Technique.
- * = The total concentration is less than 10 times the STLC. Therefore by definition, this substance is present in concentrations that are less than the limits for hazardous wastes.
- ** = Limits are in mg/Kg (dry weight) based on 40 CFR part 503.13 Table 3 "Limits for Land Application".
- *** = The California State Health and Safety Code 25157.8 established lower a limit for Lead.
- NA = Not Analyzed, ND= Not Detected, NS= Not Sampled, NR= Not Required
- MDL = Method Detection Limit (are in mg/Kg per dry weight; except for pH and Total and Volatile Solids)
- MBCDEWCN = Metro Biosolids Center Dewatered Centrifuged Sludge.
- TTLc = Total Threshold Limit Concentration.

POINT LOMA WASTEWATER TREATMENT PLANT
 QUARTERLY GRIT COMPOSITES
 Inorganics and Organics

From: 01-JAN-2003 To: 31-DEC-2003

Analyte:	MDL	Units:	GRIT COMP 03-NOV-2003 P234761
=====	=====	=====	=====
Aluminum	2.3	MG/KG	1710
Antimony	.274	MG/KG	0.9
Arsenic	.33	MG/KG	1.77
Barium	.0037	MG/KG	64.6
Beryllium	.00213	MG/KG	0.03
Cadmium	.0201	MG/KG	0.5
Chromium	.0366	MG/KG	10
Cobalt	.023	MG/KG	1.1
Copper	.0566	MG/KG	149
Iron	1.5	MG/KG	11900
Lead	.161	MG/KG	19
Manganese	.00939	MG/KG	85
Mercury	.003	MG/KG	0.38
Molybdenum	.0478	MG/KG	3.1
Nickel	.0798	MG/KG	15
Selenium	.24	MG/KG	<0.24
Silver	.0345	MG/KG	3.1
Thallium	.478	MG/KG	<0
Vanadium	.118	MG/KG	6.0
Zinc	.0176	MG/KG	258
pH		PH	5.84
Total Solids	.24	WT%	50.0
Total Volatile Solids	.11	WT%	45.9
Aldrin	15000	MG/KG	ND
2,4-dichlorophenoxyacetic acid	6.84	MG/KG	ND
Dieldrin	15000	MG/KG	ND
Endrin	7600	MG/KG	ND
Heptachlor	5700	MG/KG	ND
BHC, Gamma isomer	1900	MG/KG	ND
Methoxychlor	15000	MG/KG	ND
Pentachlorophenol	1170	MG/KG	ND
Toxaphene		MG/KG	ND
Trichloroethene	25.3	MG/KG	ND
2,4,5-TP (Silvex)	6.33	MG/KG	ND

NA= Not Analyzed, ND= Not Detected, NS= Not Sampled, NR= Not Required

POINT LOMA WASTEWATER TREATMENT PLANT
GRIT- Chlorinated Pesticide Analysis

From 01-JAN-2003 To 31-DEC-2003

Sampling: AM, OPS Analysis: SV

Grit

Analyte	MDL	Units	PLR
			03-NOV-2003 P234761
Aldrin	15000	NG/KG	ND
Dieldrin	15000	NG/KG	ND
BHC, Alpha isomer	3800	NG/KG	ND
BHC, Beta isomer	5700	NG/KG	ND
BHC, Gamma isomer	1900	NG/KG	ND
BHC, Delta isomer	3800	NG/KG	ND
o,p-DDD	5700	NG/KG	ND
o,p-DDE	5700	NG/KG	ND
o,p-DDT	3800	NG/KG	ND
p,p-DDD	3800	NG/KG	ND
p,p-DDE	3800	NG/KG	ND
p,p-DDT	11000	NG/KG	ND
Heptachlor	5700	NG/KG	ND
Heptachlor epoxide	5700	NG/KG	ND
Alpha (cis) Chlordane	5700	NG/KG	ND
Gamma (trans) Chlordane	3800	NG/KG	ND
Alpha Chlordene		NG/KG	NA
Gamma Chlordene		NG/KG	NA
Oxychlordane	5700	NG/KG	ND
Trans Nonachlor	3800	NG/KG	ND
Cis Nonachlor	3800	NG/KG	ND
Alpha Endosulfan	5700	NG/KG	ND
Beta Endosulfan	5700	NG/KG	ND
Endosulfan Sulfate	5700	NG/KG	ND
Endrin	7600	NG/KG	ND
Endrin aldehyde	15000	NG/KG	ND
Toxaphene		NG/KG	ND
Mirex	5700	NG/KG	ND
Methoxychlor	15000	NG/KG	ND
PCB 1016		NG/KG	ND
PCB 1221		NG/KG	ND
PCB 1232		NG/KG	ND
PCB 1242		NG/KG	ND
PCB 1248		NG/KG	ND
PCB 1254		NG/KG	ND
PCB 1260		NG/KG	ND
PCB 1262		NG/KG	ND
Aldrin + Dieldrin	15000	NG/KG	0
Hexachlorocyclohexanes	5700	NG/KG	0
DDT and derivatives	11000	NG/KG	0
Chlordane + related cmpds.	5700	NG/KG	0
Polychlorinated biphenyls		NG/KG	0
Chlorinated Hydrocarbons	15000	NG/KG	0

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

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

From 01-JAN-2003 to 31-DEC-2003

Sampled by: VB,LC,MC,NC,HD,JN,MS

Analyte	MDL	Units	PLR
			03-NOV-2003 P234761
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	1070	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	0.0
Total Non-Chlorinated Phenols	1600	UG/KG	0.0
=====			
Phenols	1900	UG/KG	0.0

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

POINT LOMA WASTEWATER TREATMENT PLANT
GRIT - Priority Pollutants Base/Neutral Compounds

From 01-JAN-2003 to 31-DEC-2003

Sampled by: VB,LC,MC,NC,HD,JN,SKB
Source:

Date:	MDL	Units	PLR
03-NOV-2003			
Sample:			P234761
=====	====	====	=====
bis(2-chloroethyl) ether	1420	UG/KG	ND
1,3-dichlorobenzene	16.1	UG/KG	ND
1,2-dichlorobenzene	342	UG/KG	<342
1,4-dichlorobenzene	1270	UG/KG	38000
Bis-(2-chloroisopropyl) ether	1090	UG/KG	ND
N-nitrosodi-n-propylamine	1360	UG/KG	ND
Nitrobenzene	2800	UG/KG	ND
Hexachloroethane	382	UG/KG	ND
Isophorone	1820	UG/KG	ND
bis(2-chloroethoxy)methane	1630	UG/KG	ND
1,2,4-trichlorobenzene	17	UG/KG	ND
Naphthalene	2150	UG/KG	ND
Hexachlorobutadiene	940	UG/KG	ND
Hexachlorocyclopentadiene	1890	UG/KG	ND
2-chloronaphthalene		UG/KG	ND
Acenaphthylene	584	UG/KG	ND
Dimethyl phthalate	356	UG/KG	ND
2,6-dinitrotoluene	1890	UG/KG	ND
Acenaphthene	863	UG/KG	ND
2,4-dinitrotoluene	1030	UG/KG	ND
Fluorene	2520	UG/KG	ND
4-chlorophenyl phenyl ether	362	UG/KG	ND
Diethyl phthalate	1400	UG/KG	ND
N-nitrosodiphenylamine	1330	UG/KG	ND
4-bromophenyl phenyl ether	1030	UG/KG	ND
Hexachlorobenzene	813	UG/KG	ND
Phenanthrene	1040	UG/KG	ND
Anthracene	986	UG/KG	ND
Di-n-butyl phthalate	1450	UG/KG	ND
N-nitrosodimethylamine		UG/KG	ND
Fluoranthene	216	UG/KG	ND
Pyrene	1150	UG/KG	ND
Butyl benzyl phthalate	2210	UG/KG	<2210
Chrysene	352	UG/KG	ND
Benzo[A]anthracene	1100	UG/KG	ND
Bis-(2-ethylhexyl) phthalate	3960	UG/KG	4980
Di-n-octyl phthalate	3460	UG/KG	ND
Benzo[K]fluoranthene	1930	UG/KG	ND
3,4-benzo(B)fluoranthene	1127	UG/KG	ND
Benzo[A]pyrene	741	UG/KG	ND
Indeno(1,2,3-CD)pyrene	953	UG/KG	ND
Dibenzo(A,H)anthracene	616	UG/KG	ND
Benzo[G,H,I]perylene	301	UG/KG	ND
1,2-diphenylhydrazine	1590	UG/KG	ND
=====	====	====	=====
Polynuc. Aromatic Hydrocarbons	2520	UG/KG	0
Total Dichlorobenzenes	342	UG/KG	0
=====	====	====	=====
Base/Neutral Compounds	3960	UG/KG	42980

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

POINT LOMA WASTEWATER TREATMENT PLANT
GRIT - Priority Pollutants Purgeable Compounds

From 01-JAN-2003 to 31-DEC-2003

Sampled by: M. Slattery
Analyzed by: S.Evans, E.Lanez

Analyte	MDL	Units	PLR
			03-NOV-2003 P234761
Chloromethane	25.8	UG/KG	ND
Bromomethane	29.2	UG/KG	ND
Vinyl chloride	26.2	UG/KG	ND
Chloroethane	61	UG/KG	ND
1,1-dichloroethane	25.7	UG/KG	ND
Trichlorofluoromethane	28	UG/KG	ND
Methylene chloride	62.5	UG/KG	ND
1,1-dichloroethene	25.1	UG/KG	ND
trans-1,2-dichloroethene	24.9	UG/KG	ND
Chloroform	25.6	UG/KG	ND
1,2-dichloroethane	20.5	UG/KG	ND
1,1,1-trichloroethane	27.4	UG/KG	ND
Carbon tetrachloride	15.6	UG/KG	ND
Bromodichloromethane	17	UG/KG	ND
1,2-dichloropropane	25.5	UG/KG	ND
trans-1,3-dichloropropene	17	UG/KG	ND
Trichloroethene	25.3	UG/KG	ND
Benzene	26.5	UG/KG	ND
Dibromochloromethane	24.2	UG/KG	ND
1,1,2-trichloroethane	35.1	UG/KG	ND
cis-1,3-dichloropropene	21.5	UG/KG	ND
2-chloroethylvinyl ether	53.6	UG/KG	ND
Bromoform	26.1	UG/KG	ND
1,1,2,2-tetrachloroethane	64	UG/KG	ND
Tetrachloroethene	21.5	UG/KG	ND
Chlorobenzene	31.1	UG/KG	ND
Toluene	48	UG/KG	230.0
Ethylbenzene	90.5	UG/KG	ND
Acrylonitrile	275	UG/KG	ND
Acrolein	70.9	UG/KG	ND
Halomethane Purgeable Cmpnds	29.2	UG/KG	0.0
Purgeable Compounds	275	UG/KG	230.0

Additional analytes determined;

Allyl chloride	25	UG/KG	ND
4-methyl-2-pentanone	24	UG/KG	ND
meta,para xylenes	35	UG/KG	ND
Styrene	19	UG/KG	ND
1,2,4-trichlorobenzene	17	UG/KG	ND
Methyl Iodide	19	UG/KG	ND
Chloroprene	17	UG/KG	ND
Methyl methacrylate	36	UG/KG	ND
2-nitropropane		UG/KG	ND
1,2-dibromoethane	17	UG/KG	ND
Isopropylbenzene	17	UG/KG	ND
Benzyl chloride	38	UG/KG	ND
ortho-xylene	23	UG/KG	ND
Acetone	185	UG/KG	10800.0
Carbon disulfide	34	UG/KG	80.6
2-butanone		UG/KG	509.0

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

POINT LOMA WASTEWATER TREATMENT PLANT
GRIT - Herbicides

From 01-JAN-2003 To 31-DEC-2003

Sampling: AM, OPS
Analysis: KD

Analyte	MDL	Units	PLR
=====	=====	=====	03-NOV-2003
2,4-dichlorophenoxyacetic acid	6.84	MG/KG	P234761
2,4,5-TP (Silvex)	6.33	MG/KG	ND
			ND

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

I. Raw Sludge Data Summary

POINT LOMA WASTEWATER TREATMENT PLANT ANNUAL REPORT
YEAR: 2003

Raw Sludge Average of 3 Shifts

Month	pH	%Total Solids	%Total Volatile Solids
January	6.37	4.1	74.6
February	6.33	4.4	73.6
March	6.45	4.1	74.6
April	6.38	3.9	75.0
May	6.37	3.8	76.6
June	6.29	3.9	76.0
July	6.21	4.1	76.1
August	6.20	4.3	75.9
September	6.07	4.2	74.7
October	6.05	4.2	75.6
November	6.09	4.3	74.7
December	6.08	4.3	74.8
Averages	6.24	4.1	75.2

J. Digester and Digested Sludge Data Summary

Point Loma Wastewater Treatment Plant Annual Report 2003 Digesters

N1P

	pH	Total Solids (%)	Volatile Solids (%)	Alkalinity (mg/L)	Volatile Acids (mg/L)	Methane (%)	Carbon Dioxide (%)
JANUARY -2003	7.25	2.3	56.4	2960	51	63.3	36.3
FEBRUARY -2003	7.28	2.3	54.9	3220	51	63.0	36.6
MARCH -2003	7.29	2.3	54.4	3250	49	62.4	37.2
APRIL -2003	7.21	2.1	55.6	2960	53	62.8	37.0
MAY -2003	7.27	2.0	56.3	2710	56	62.1	37.6
JUNE -2003	7.24	2.0	56.5	2630	62	62.0	37.8
NOVEMBER -2003	7.25	2.0	53.9	2250	52	65.5	33.9
DECEMBER -2003	7.22	2.2	55.1	2640	54	62.8	36.8
Average:	7.25	2.2	55.4	2828	54	63.0	36.7

N2P

	pH	Total Solids (%)	Volatile Solids (%)	Alkalinity (mg/L)	Volatile Acids (mg/L)	Methane (%)	Carbon Dioxide (%)
JANUARY -2003	7.26	2.4	54.9	3010	52	63.4	36.1
FEBRUARY -2003	7.31	2.4	53.9	3260	53	63.4	36.3
MARCH -2003	7.28	2.4	53.1	3270	50	62.6	37.1
APRIL -2003	7.24	2.2	54.6	3010	54	63.0	36.7
MAY -2003	7.26	2.1	55.7	2810	55	62.2	37.5
JUNE -2003	7.22	2.2	55.5	2650	62	61.3	38.5
JULY -2003	7.25	2.3	56.8	2740	63	62.3	37.3
AUGUST -2003	7.15	2.4	56.7	2600	59	62.1	37.5
SEPTEMBER-2003	7.13	2.5	55.4	2520	50	62.4	37.0
OCTOBER -2003	7.23	2.5	56.5	2620	53	62.5	37.0
NOVEMBER -2003	7.22	2.6	56.3	2660	56	62.8	36.7
Average:	7.23	2.4	55.4	2832	55	62.5	37.1

C1P

	pH	Total Solids (%)	Volatile Solids (%)	Alkalinity (mg/L)	Volatile Acids (mg/L)	Methane (%)	Carbon Dioxide (%)
JANUARY -2003	7.26	1.3	51.9	2100	63	65.4	34.4
FEBRUARY -2003	7.29	1.9	52.3	2660	47	63.4	36.3
MARCH -2003	7.31	2.6	50.8	3190	53	62.9	36.9
APRIL -2003	7.26	2.0	54.7	3130	56	63.2	36.6
MAY -2003	7.27	1.9	55.4	2930	59	62.5	37.3
JUNE -2003	7.23	2.1	56.2	2750	67	61.4	38.4
JULY -2003	7.23	2.2	56.4	2800	63	62.5	37.2
AUGUST -2003	7.19	2.4	55.7	2720	59	62.3	37.5
SEPTEMBER-2003	7.15	2.6	53.4	2640	51	62.7	37.0
OCTOBER -2003	7.23	2.6	54.2	2720	54	62.8	36.9
NOVEMBER -2003	7.23	2.6	54.3	2780	61	62.9	36.9
DECEMBER -2003	7.24	2.6	53.5	2880	59	62.9	36.9
Average:	7.24	2.2	54.1	2775	58	62.9	36.9

**Point Loma Wastewater Treatment Plant Annual Report
2003 Digesters**

C2P

	pH	Total Solids (%)	Volatile Solids (%)	Alkalinity (mg/L)	Volatile Acids (mg/L)	Methane (%)	Carbon Dioxide (%)
JANUARY -2003	7.22	1.6	51.0	2000	44	66.4	33.3
FEBRUARY -2003	7.28	1.8	52.8	2620	46	63.4	36.3
MARCH -2003	7.33	2.2	52.0	3160	56	62.8	37.0
APRIL -2003	7.23	2.1	55.5	3060	73	63.2	36.7
MAY -2003	7.24	2.1	56.5	2890	71	62.6	37.2
JUNE -2003	7.23	2.1	56.5	2720	73	61.4	38.4
JULY -2003	7.23	2.2	56.3	2800	63	62.6	37.2
AUGUST -2003	7.18	2.4	55.7	2710	60	62.3	37.5
SEPTEMBER -2003	7.16	2.4	53.8	2620	52	62.8	36.9
OCTOBER -2003	7.20	2.4	55.0	2710	54	62.9	36.9
NOVEMBER -2003	7.23	2.5	55.1	2760	59	62.9	36.8
DECEMBER -2003	7.24	2.5	55.0	2850	58	63.0	36.7
	7.23	2.2	54.6	2742	59	63.0	36.7

S1P

	pH	Total Solids (%)	Volatile Solids (%)	Alkalinity (mg/L)	Volatile Acids (mg/L)	Methane (%)	Carbon Dioxide (%)	H2S ppm
JANUARY -2003	7.26	2.3	55.5	2960	54	63.5	36.2	*
FEBRUARY -2003	7.27	2.3	54.6	3210	55	63.3	36.4	*
MARCH -2003	7.31	2.2	54.1	3170	52	62.8	36.9	*
APRIL -2003	7.22	2.1	55.4	2910	57	63.1	36.7	*
MAY -2003	7.23	2.1	55.3	2790	58	62.3	37.3	32
JUNE -2003	*	*	*	*	*	63.4	36.4	*
	7.26	2.2	55.0	3008	55	63.1	36.7	32

S2P

	pH	Total Solids (%)	Volatile Solids (%)	Alkalinity (mg/L)	Volatile Acids (mg/L)	Methane (%)	Carbon Dioxide (%)	H2S ppm
JANUARY -2003	7.23	2.3	56.3	2890	53	63.5	36.2	25
FEBRUARY -2003	7.25	2.3	54.9	3120	53	63.1	36.6	23
MARCH -2003	7.25	2.2	54.4	3080	51	62.6	37.1	20
APRIL -2003	7.21	2.1	56.1	2890	55	62.9	36.9	23
MAY -2003	7.23	2.0	55.8	2670	56	62.2	37.6	29
JUNE -2003	7.21	2.2	55.9	2520	63	61.2	38.6	37
JULY -2003	7.19	2.3	57.6	2570	62	62.4	37.4	45
AUGUST -2003	7.13	2.4	57.2	2410	58	62.1	37.7	*
SEPTEMBER -2003	7.11	2.5	56.2	2410	51	62.6	37.1	*
OCTOBER -2003	7.31	2.4	55.5	2700	55	63.0	36.7	*
	7.21	2.3	56.0	2726	56	62.6	37.2	29

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DIG 7

	pH	Total Solids (%)	Volatile Solids (%)	Alkalinity (mg/L)	Volatile Acids (mg/L)	Methane (%)	Carbon Dioxide (%)	H2S ppm
JANUARY - 2003	7.32	2.1	53.7	3150	53	63.3	36.3	*
FEBRUARY - 2003	7.29	2.0	53.8	3230	52	62.7	36.8	*
MARCH - 2003	7.38	2.1	52.6	3410	52	62.1	37.3	*
APRIL - 2003	7.34	2.0	53.8	3190	54	62.4	37.1	*
MAY - 2003	7.31	1.9	54.2	3000	55	62.0	37.4	*
JUNE - 2003	7.30	1.9	54.9	2830	61	61.2	38.4	*
JULY - 2003	7.31	2.1	55.8	2940	63	62.6	36.9	27
AUGUST - 2003	7.28	2.2	55.8	2860	59	62.6	37.0	*
SEPTEMBER - 2003	7.24	2.3	55.0	2720	52	62.8	36.6	*
OCTOBER - 2003	7.32	2.3	55.1	2870	56	63.1	36.3	*
NOVEMBER - 2003	7.28	2.3	55.4	2910	60	63.1	36.5	*
DECEMBER - 2003	7.28	2.2	55.1	2990	59	63.2	36.3	*
	7.30	2.1	54.6	3008	56	62.6	36.9	27

DIG 8

	pH	Total Solids (%)	Volatile Solids (%)	Alkalinity (mg/L)	Volatile Acids (mg/L)	Methane (%)	Carbon Dioxide (%)	H2S ppm
JANUARY - 2003	7.24	2.1	55.9	3060	52	63.3	36.3	*
FEBRUARY - 2003	7.27	2.2	54.5	3300	53	63.3	36.4	*
MARCH - 2003	7.31	2.2	54.3	3370	51	62.7	36.9	*
APRIL - 2003	7.27	2.1	54.9	3100	55	63.0	36.7	*
MAY - 2003	7.25	2.0	56.0	2890	55	62.4	37.2	*
JUNE - 2003	7.25	2.0	56.2	2750	61	61.5	38.2	*
JULY - 2003	7.24	2.2	56.6	2810	64	62.4	37.2	50
AUGUST - 2003	7.17	2.3	56.3	2710	59	62.2	37.4	*
SEPTEMBER - 2003	7.16	2.4	55.8	2610	52	62.5	37.0	*
OCTOBER - 2003	7.24	2.4	56.1	2670	55	62.6	36.9	*
NOVEMBER - 2003	7.22	2.5	56.1	2710	58	62.7	36.9	*
DECEMBER - 2003	7.26	2.4	56.0	2800	58	62.7	36.8	*
	7.24	2.2	55.7	2898	56	62.6	37.0	50