

## II. Influent and Effluent Data Summary

The results of all analyses performed on the WWTP influent and effluent are summarized in tables with monthly and annual averages (and in some cases annual totals) calculated. Graphs of monthly averages are presented.

- A. Influent and Effluent Data Summaries
- B. Influent and Effluent Graphs
- C. Daily Values of Selected Parameters
- D. Toxicity Bioassays
- E. 6-Year Tables.

Mass Emissions of Effluent Using 2004 Monthly Averages

DISCHARGE SPECIFICATIONS from NPDES Permit No. CA0107409/RWQCB Order No. R-2002-0025 effective on September 13, 2002 with limits on pollutant discharges.				
Constituent/Property	Benchmarks (mt/yr)	2004 Mass Emissions [2] (mt/yr)	2004 Concentration	Units
Flow (MGD)			173.9	MGD
Total Suspended Solids	13,995 <sup>[1]</sup>	10,325	43	mg/L
BOD	-	24,252	101	mg/L
Arsenic	0.88	0.26	1.09	ug/L
Cadmium	1.4	0.02	0.1	ug/L
Chromium	14.2	0.48	2.0	ug/L
Copper	26	10	43	ug/L
Lead	14.2	0.00	0.00	ug/L
Mercury	0.19	0.00	0.00	ug/L
Nickel	11.3	1.20	5.00	ug/L
Selenium	0.44	0.26	1.1	ug/L
Silver	2.8	0.05	0.20	ug/L
Zinc	18.3	5.8	24	ug/L
Cyanide	1.57	0.41	0.0017	mg/L
Residual Chlorine	--	0	0	
Ammonia	8018	6,579	27.4	mg/L
Non-Chor. Phenols	2.57	2.71	11.3	ug/L
Chlorinated Phenols	1.73	0.00	0	ug/L
Endosulfan	0.006	0.00	0	ng/L
Endrin	0.008	0.00	0	ng/L
hexachlorocyclohexanes *(HCH)	0.025	0	2	ng/L
* (all as Lindane, the gamma isomer)				
Acrolein	17.6	0.00	0	ug/L
Antimony	56.6	1.0	4	ug/L
Bis(2-chloroethoxy) methane	1.5	0.00	0	ug/L
Bis(2-chloroisopropyl) ether	1.61	0.00	0	ug/L
Chlorobenzene	1.7	0.00	0	ug/L
Chromium (III)	--	--		
di-n-butyl phthalate	1.33	0.00	0	ug/L
dichlorobenzenes	2.8	0.0	0	ug/L
1,1-dichloroethylene	0.79	0.00	0	ug/L
Diethyl phthalate	6.23	0.14	0.6	ug/L
Dimethyl phthalate	1.59	0.00	0	ug/L
4,6-dinitro-2-methylphenol	6.8	0.00	0	ug/L
2,4-dinitrophenol	11.9	0.00	0	ug/L
Ethylbenzene	2.04	0.00	0	ug/L
Fluoranthene	0.62	0.00	0	ug/L
Hexachlorocyclopentadiene	-	0.00	0	ug/L
Nitrobenzene	2.07	0.00	0	ug/L
Thallium	36.8	0.00	0	ug/L
Toluene	3.31	0.46	1.9	ug/L
1,1,2,2-tetrachloroethane	1.95	0.00	0	ug/L
Tributyltin	0.001	0.00	0	ug/L
1,1,1-trichloroethane	2.51	0.00	0	ug/L
1,1,2-trichloroethane	1.42	0.00	0	ug/L
Acrylonitrile	5.95	0.00	0	ug/L

DISCHARGE SPECIFICATIONS from NPDES Permit No. CA0107409/RWQCB Order No. R-2002-0025 effective on September 13, 2002 with limits on pollutant discharges.

Constituent/Property	Benchmarks (mt/yr)	2004 Mass Emissions <sup>[2]</sup> (mt/yr)	2004 Concentration	Units
Aldrin	0.006	0.00	0	ng/L
Benzene	1.25	0.00	0	ug/L
Benzidine	12.5	0.00	0	ug/L
Beryllium	1.42	0.00	0	ug/L
Bis(2-chloroethyl) ether	1.61	0.00	0	ug/L
Bis(2-ethylhexyl) phthalate	2.89	0.29	1.2	ug/L
Carbon Tetrachloride	0.79	0.00	0	ug/L
Chlordane	0.014	0.0007	3	ng/L
Chloroform	2.19	1.54	6.4	ug/L
DDT	0.043	0.00	0	ng/L
1,4-dichlorobenzene	1.25	0.31	1.3	ug/L
3,3-dichlorobenzidine	4.67	0.00	0	ug/L
1,2-dichloroethane	0.79	0.00	0	ug/L
Dichloromethane (methylene chloride)	13.7	0.62	2.6	ug/L
1,3-dichloropropene	1.42	0.00	0	ug/L
Dieldrin	0.011	0.00	0	ng/L
2,4-dinitrotoluene	1.61	0.00	0	ug/L
1,2-diphenylhydrazine	1.52	0.00	0	ug/L
Halomethanes	5.86	0.34	1.4	ug/L
Heptachlor	0.001	0.00	0	ng/L
Heptachlor epoxide	0.024	0.00	0	ng/L
Hexachlorobenzene	0.54	0.00	0	ug/L
Hexachlorobutadiene	0.054	0.00	0	ug/L
Hexachloroethane	1.13	0.00	0	ug/L
Isophorone	0.71	0.00	0	ug/L
N-nitrosodimethylamine	0.76	0.00	0	ug/L
N-nitrosodiphenylamine	1.47	0.00	0	ug/L
PAHs	15.45	0.00	0	ug/L
PCBs	0.275	0.00	0	ng/L
TCDD equivalents	--	0.000000000	0.000	pg/L
Tetrachloroethylene	4	0.10	0.4	ug/L
Toxaphene	0.068	0.00	0	ng/L
Trichloroethylene	1.56	0.00	0	ug/L
2,4,6-trichlorophenol	0.96	0.00	0	ug/L
Vinyl Chloride	0.4	0.00	0	ug/L

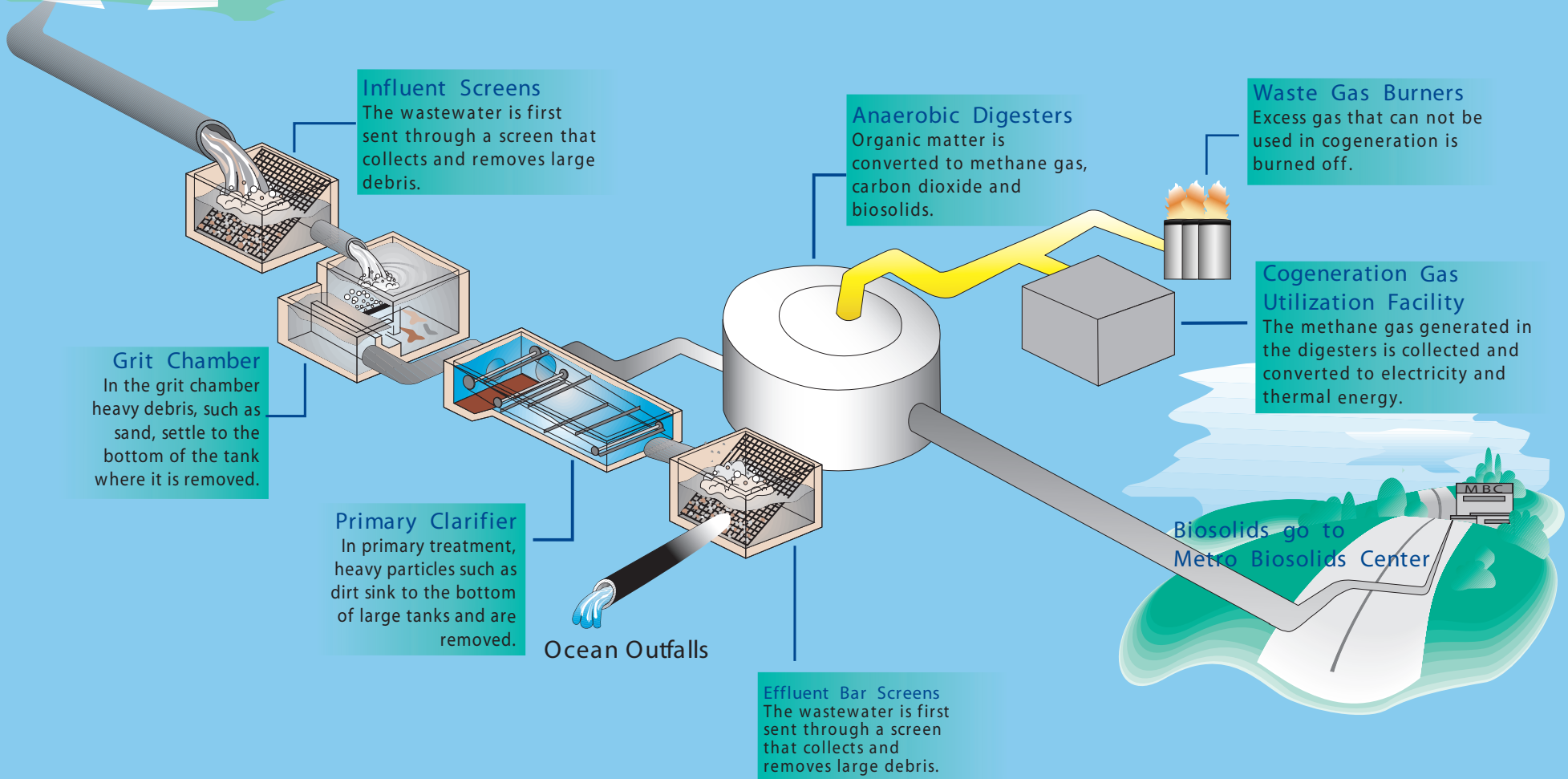
[1] Total Suspended Solids (TSS)- The discharger shall achieve a mass emission of TSS of no Greater than 15,000 mt/yr; this requirement shall be effective through December 31, 2005. Effective January 1, 2006, the discharger shall achieve a mass emission of TSS of no greater than 13,599 mt/yr.

[2] Metric tons of mass emissions is calculated assuming the density of effluent is 1. These annual mass emissions are calculated by multiplying the average mass emission for each month by the total days in the year. Conversion factor for short tons to metric tons updated in 2003 from 0.9078 (Hoke, Inc. 11/73) to 0.9072 (NIST Special Publication 811, 1995 Edition, Guide for the Use of the International System of Units (SI). Difference is less than 0.07%.

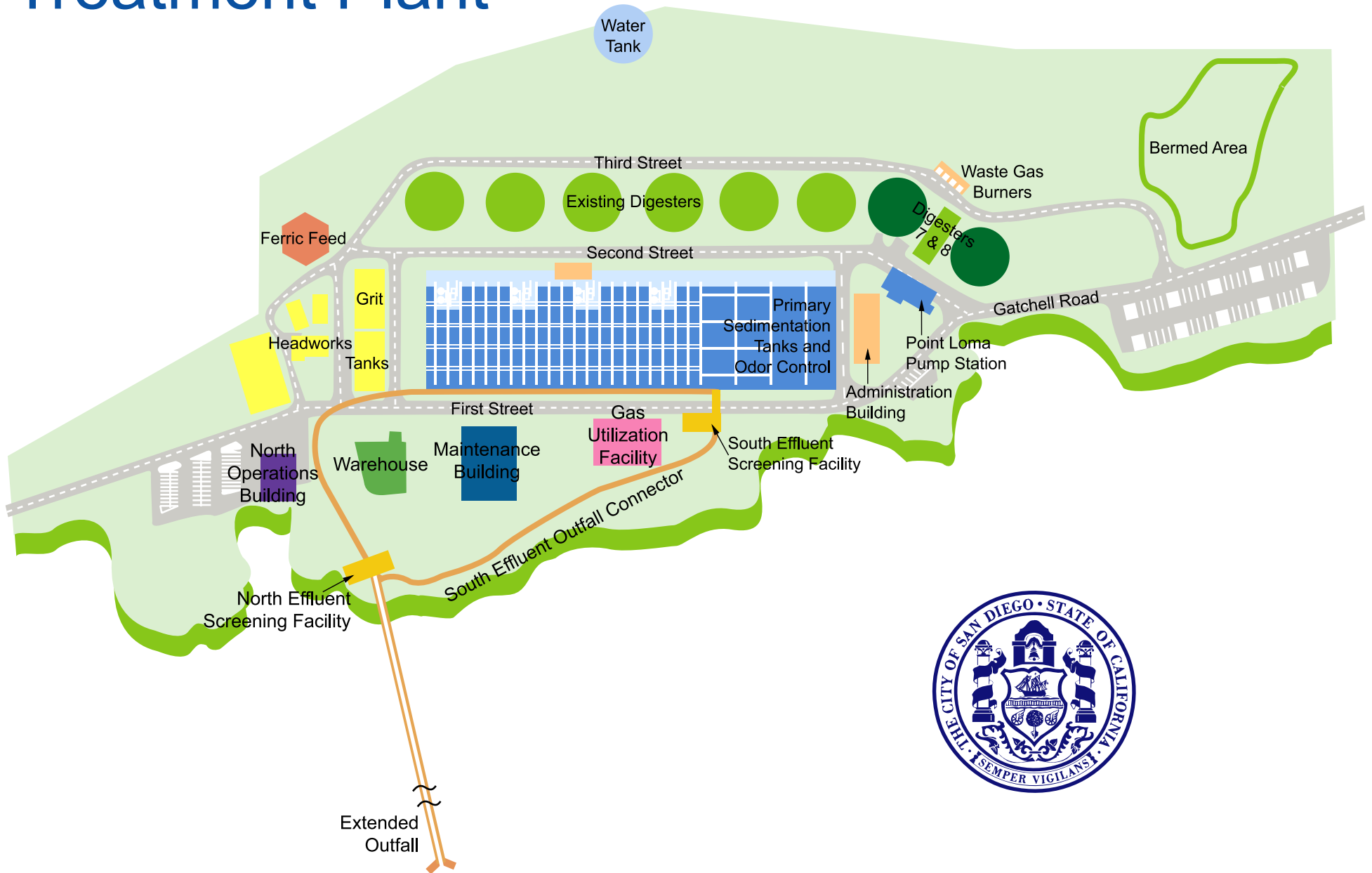
A. Influent and Effluent Data Summaries

The results of all analyses performed on the WWTP influent and effluent are summarized in tables with monthly and annual averages (and in some cases annual totals) calculated.

# Point Loma Wastewater Treatment Plant Process



# Point Loma Wastewater Treatment Plant



POINT LOMA WASTEWATER TREATMENT PLANT

SEWAGE ANNUAL  
From 01-JAN-2004 To 31-DEC-2004

Biochemical Oxygen Demand Concentration  
(24-hour composite)

		Daily Influent Flow	Daily Influent Value (mg/L)	Daily Influent Value (lbs/Day)	Daily Effluent Value (mg/L)	Daily Effluent Value (lbs/Day)	Percent Removal BOD (%)
JANUARY -2004	169.0	272	383373	104	146584	61.8	
FEBRUARY -2004	179.6	249	372968	98	146791	60.6	
MARCH -2004	176.6	244	359374	100	147284	59.0	
APRIL -2004	171.3	258	368590	100	142864	61.2	
MAY -2004	167.5	264	368795	101	141092	61.7	
JUNE -2004	166.8	277	385338	108	150240	61.0	
JULY -2004	170.5	251	356914	102	145041	59.4	
AUGUST -2004	168.5	267	375212	115	161608	56.9	
SEPTEMBER-2004	168.9	257	362017	106	149314	58.8	
OCTOBER -2004	187.0	234	364942	86	134124	63.2	
NOVEMBER -2004	182.4	234	355965	94	142994	59.8	
DECEMBER -2004	178.7	256	381532	103	153507	59.8	
Average	173.9	255	369585	101	146787	60.3	

Total Suspended Solids Concentration  
(24-hour composite)

		Daily Influent Flow	Daily Influent Value (mg/L)	Daily Influent Volatile (mg/L)	Percent of TSS (%)	Daily Influent Value (lbs/Day)	Daily Effluent Value (mg/L)	Daily Effluent Volatile (mg/L)	Percent of TSS (%)	Daily Effluent Value (lbs/Day)
JANUARY -2004	169.0	311	261	83.9	438342	46	33	71.7	64835	
FEBRUARY -2004	179.6	290	239	82.4	434381	44	31	70.5	65906	
MARCH -2004	176.6	290	239	82.4	427125	44	31	70.5	64805	
APRIL -2004	171.3	289	238	82.4	412878	44	30	68.2	62860	
MAY -2004	167.5	285	238	83.5	398131	42	29	69.0	58672	
JUNE -2004	166.8	303	249	82.2	421507	44	32	72.7	61209	
JULY -2004	170.5	300	243	81.0	426591	44	31	70.5	62567	
AUGUST -2004	168.5	297	249	83.8	417371	43	31	72.1	60427	
SEPTEMBER-2004	168.9	295	244	82.7	415545	45	32	71.1	63388	
OCTOBER -2004	187.0	293	234	79.9	456957	38	26	68.4	59264	
NOVEMBER -2004	182.4	262	214	81.7	398559	38	26	68.4	57806	
DECEMBER -2004	178.7	274	223	81.4	408358	42	28	66.7	62595	
Average	173.9	291	239	82.3	421312	43	30	70.0	62028	

Annual Mass Emissions are calculated from monthly averages of flow and BOD (or TSS), whereas monthly report average mass emissions are calculated from average daily mass emissions.

POINT LOMA WASTEWATER TREATMENT PLANT

Annual Systemwide BOD Removals

From 01-JAN-2004 To 31-DEC-2004

Mass Emissions are in pounds per day.

	Pt. Loma Influent Mass Emission	PS64 Influent Mass Emission	Penasquitos Influent Mass Emission	Return Stream Mass Emission	Pt. Loma Effluent Mass Emission	Monthly Systemwide Percent Removal	Pt. Loma Daily Percent Removal
JANUARY	383373	25894	17274	38809	146584	62.3	61.8
FEBRUARY	372968	24161	17419	10219	146791	63.6	60.6
MARCH	359374	25666	16477	10982	147284	61.8	59.0
APRIL	368590	28703	16335	14631	142864	64.1	61.2
MAY	368795	31353	17345	12893	141092	64.9	61.7
JUNE	385338	27785	12489	9613	150240	64.0	61.0
JULY	356914	29500	13827	10057	145041	62.7	59.4
AUGUST	375212	28212	12421	11895	161608	59.7	56.9
SEPTEMBER	362017	29636	10029	12000	149314	61.4	58.8
OCTOBER	364942	39869	5099	14994	134124	65.8	63.2
NOVEMBER	355965	36019	11752	16788	142994	62.9	59.8
DECEMBER	381532	40552	6899	18692	153507	62.3	59.8
Average	369585	30613	13114	15131	146787	63.0	60.3

POINT LOMA WASTEWATER TREATMENT PLANT

Annual Systemwide TSS Removals

From 01-JAN-2004 To 31-DEC-2004

	Pt. Loma Influent Mass Emission	PS64 Influent Mass Emission	Penasquitos Influent Mass Emission	Return Stream Mass Emission	Pt. Loma Effluent Mass Emission	Monthly Systemwide Percent Removal	Pt. Loma Daily Percent Removal
JANUARY	438342	25533	18375	59472	64835	84.3	85.2
FEBRUARY	434381	24520	19746	18578	65906	85.6	84.8
MARCH	427125	24347	18892	12290	64805	85.9	84.8
APRIL	412878	26644	19126	14515	62860	85.9	84.8
MAY	398131	32096	21579	21864	58672	86.1	85.3
JUNE	421507	27523	17419	20149	61209	86.2	85.5
JULY	426591	28574	19666	21574	62567	86.2	85.3
AUGUST	417371	39598	16506	25683	60427	86.2	85.5
SEPTEMBER	415545	36269	15144	25530	63388	85.6	84.7
OCTOBER	456957	49749	7169	36099	59264	87.5	87.0
NOVEMBER	398559	31820	14270	23197	57806	86.3	85.5
DECEMBER	408358	54415	10133	29986	62595	85.6	84.7
Average	421312	33424	16502	25745	62028	86.0	85.3

The mass emission for the Return Stream is calculated using data from four NCWRP sources (plant drain, filter backwash, excess primary effluent, and disinfected final effluent that is not reclaimed) and one MBC source (centrate from the dewatering process) that are diverted to the Return Stream.

POINT LOMA WASTEWATER TREATMENT PLANT

From 01-JAN-2004 To 31-DEC-2004

Influent to Plant  
(PLR)

		pH	Settleable Solids (ml/L)	Biochemical Oxygen Demand (mg/L)	Hexane Extractable Material (mg/L)	Temperature ( C )
JANUARY	-2004	7.29	13.80	272	44.4	22.0
FEBRUARY	-2004	7.29	9.97	249	42.0	21.6
MARCH	-2004	7.26	9.67	244	44.8	22.7
APRIL	-2004	7.29	11.90	258	45.5	23.8
MAY	-2004	7.29	13.60	264	50.7	25.4
JUNE	-2004	7.30	12.80	277	42.2	26.1
JULY	-2004	7.34	12.20	251	44.5	27.2
AUGUST	-2004	7.34	13.50	267	47.3	27.8
SEPTEMBER	-2004	7.35	13.40	257	49.2	27.9
OCTOBER	-2004	7.34	12.60	234	44.3	26.7
NOVEMBER	-2004	7.35	10.10	234	38.2	24.3
DECEMBER	-2004	7.33	10.20	256	41.5	22.6
Average		7.31	12.0	255	44.6	24.8

Effluent to Ocean Outfall  
(PLE)

		pH	Settleable Solids (ml/L)	Biochemical Oxygen Demand (mg/L)	Hexane Extractable Material (mg/L)	Temperature ( C )	Floating Particulates (mg/L)	Turbidity (NTU)
JANUARY	-2004	7.18	0.2	104	12.0	21.9	0.14	50
FEBRUARY	-2004	7.19	0.2	98	15.6	21.4	0.33	45
MARCH	-2004	7.15	0.3	100	16.8	22.9	<0.10	47
APRIL	-2004	7.15	0.5	100	16.9	23.8	0.12	49
MAY	-2004	7.16	0.7	101	17.7	25.6	<0.10	53
JUNE	-2004	7.25	0.8	108	13.8	26.1	<0.10	50
JULY	-2004	7.33	0.5	102	13.7	27.3	0.12	50
AUGUST	-2004	7.29	0.5	115	14.0	27.9	0.11	54
SEPTEMBER	-2004	7.29	0.5	106	12.9	28.0	<0.10	53
OCTOBER	-2004	7.26	0.4	86	11.6	26.7	<0.10	44
NOVEMBER	-2004	7.24	0.3	94	12.2	24.5	0.16	49
DECEMBER	-2004	7.28	0.3	103	13.8	22.6	<0.10	54
Average		7.23	0.4	101	14.3	24.9	0.08	50

POINT LOMA WASTEWATER TREATMENT PLANT  
ANNUAL SEWAGE  
Trace Metals  
(Limits shown are the 6-Month Median Maximum)

From: 01-JAN-2004 to: 31-DEC-2004

Sampled by: NDL,A4A  
Analyzed by: BOA,G8C,JRF,IEN,LXP,JRV, GS

Analyte:	Antimony	Antimony	Arsenic	Arsenic	Beryllium	Beryllium	Cadmium	Cadmium
MDL Units:	23	23	.4	.4	.39	.39	1	1
Source:	PLR	PLE	PLR	PLE	PLR	PLE	PLR	PLE
=====								
JANUARY -2004	ND	<23	1.88	1.43	ND	ND	<1.0	<1.0
FEBRUARY -2004	31	<23	1.51	0.66	ND	ND	1.4	<1.0
MARCH -2004	<23	<23	1.68	1.16	ND	ND	ND	ND
APRIL -2004	ND	ND	1.46	1.03	ND	ND	ND	ND
MAY -2004	25	40	1.42	1.52	ND	ND	<1.0	<1.0
JUNE -2004	ND	ND	1.72	1.20	ND	ND	0.5	<0.2
JULY -2004	<1	ND	1.22	0.85	ND	ND	0.5	<0.2
AUGUST -2004	<1	<1	1.21	0.69	ND	ND	0.7	0.4
SEPTEMBER-2004	3	3	1.56	1.08	ND	ND	0.7	0.4
OCTOBER -2004	ND	<1	2.26	1.43	<0.04	ND	0.5	0.2
NOVEMBER -2004	<1	ND	1.24	0.82	ND	ND	0.3	ND
DECEMBER -2004	<1	ND	1.85	1.24	ND	ND	0.3	ND
=====								
AVERAGE	5	4	1.58	1.09	0.00	ND	0.4	0.1

Analyte:	Chromium	Chromium	Copper	Copper	Iron	Iron	Lead	Lead
MDL Units:	5	5	4	4	30	30	18	18
Source:	PLR	PLE	PLR	PLE	PLR	PLE	PLR	PLE
=====								
JANUARY -2004	<5.0	ND	130	50	8350	6570	<18.0	<18.0
FEBRUARY -2004	7.9	<5.0	158	64	8110	4910	ND	<18.0
MARCH -2004	<5.0	ND	157	70	7200	5070	ND	ND
APRIL -2004	9.0	ND	149	44	6540	5500	ND	<18.0
MAY -2004	<5.0	<5.0	121	53	7170	6090	ND	ND
JUNE -2004	8.3	1.7	110	49	9970	5890	3.6	<1.4
JULY -2004	10.1	3.6	95	37	9380	5400	4.5	ND
AUGUST -2004	13.4	11.1	127	37	9970	5550	5.0	ND
SEPTEMBER-2004	5.0	2.4	94	31	8890	6200	3.0	ND
OCTOBER -2004	8.7	2.5	94	25	9120	4940	5.5	<1.4
NOVEMBER -2004	5.9	1.5	106	31	7210	4700	3.1	<1.4
DECEMBER -2004	6.0	1.6	116	23	8240	6040	2.0	ND
=====								
AVERAGE	6.2	2.0	121	43	8346	5572	2.2	0.0

ND= not detected  
NA= not analyzed  
NS= not sampled

POINT LOMA WASTEWATER TREATMENT PLANT  
ANNUAL SEWAGE  
Trace Metals  
(Limits shown are the 6-Month Median Maximum)

From: 01-JAN-2004 to: 31-DEC-2004

Sampled by: NDL,A4A  
Analyzed by: BOA,G8C,JRF,IEN,LXP,JRV, GS

Analyte:	Mercury	Mercury	Nickel	Nickel	Selenium	Selenium	Silver	Silver
MDL Units:	.09	.09	14	14	.28	.28	6.6	6.6
Source:	PLR	PLE	PLR	PLE	PLR	PLE	PLR	PLE
=====								
JANUARY -2004	0.26	ND	<14	<14	2.00	1.48	ND	ND
FEBRUARY -2004	0.17	ND	ND	<14	1.94	1.28	ND	ND
MARCH -2004	0.38	ND	ND	ND	1.60	1.18	ND	ND
APRIL -2004	0.32	ND	<14	ND	1.72	1.18	ND	ND
MAY -2004	0.12	ND	ND	ND	1.78	1.24	ND	ND
JUNE -2004	0.16	ND	11	8	1.40	1.04	4.4	1.2
JULY -2004	0.22	ND	13	9	1.49	0.92	3.0	0.4
AUGUST -2004	0.16	ND	16	14	1.68	0.81	3.4	0.3
SEPTEMBER-2004	0.11	ND	12	8	1.32	0.78	2.2	0.4
OCTOBER -2004	0.19	ND	14	10	1.60	1.06	3.0	0.4
NOVEMBER -2004	0.24	ND	11	8	1.53	0.95	0.9	ND
DECEMBER -2004	0.10	ND	10	6	1.80	1.33	0.7	ND
=====								
AVERAGE	0.20	ND	7	5	1.66	1.10	1.5	0.2

Analyte:	Thallium	Thallium	Zinc	Zinc
MDL Units:	40	40	4	4
Source:	PLR	PLE	PLR	PLE
=====				
JANUARY -2004	ND	ND	159	46
FEBRUARY -2004	ND	ND	143	27
MARCH -2004	ND	ND	138	36
APRIL -2004	ND	ND	154	20
MAY -2004	ND	ND	138	21
JUNE -2004	ND	<1.8	120	21
JULY -2004	ND	<1.8	130	18
AUGUST -2004	ND	ND	155	19
SEPTEMBER-2004	ND	ND	114	17
OCTOBER -2004	ND	<1.8	129	18
NOVEMBER -2004	<1.8	ND	122	18
DECEMBER -2004	ND	ND	129	21
=====				
AVERAGE	0.0	0.0	136	24

ND= not detected  
NA= not analyzed  
NS= not sampled

POINT LOMA WASTEWATER TREATMENT PLANT  
 ANNUAL SEWAGE  
 Ammonia-Nitrogen and Total Cyanides  
 (Limits shown are the 6-Month Median Maximum)

From: 01-JAN-2004 to: 31-DEC-2004

Sampled by: NDL,A4A  
 Analyzed by: JJI,HHD,JRV

	Ammonia-N .2 MG/L PLR	Ammonia-N .2 MG/L PLE	Cyanides, Total .002 MG/L PLR	Cyanides, Total .002 MG/L PLE
Limit:		123		0.200
=====	=====	=====	=====	=====
JANUARY -2004	29.0	28.6	0.0030	0.0027
FEBRUARY -2004	26.7	25.7	0.0027	0.0028
MARCH -2004	27.4	27.5	0.0029	0.0028
APRIL -2004	26.3	26.8	<0.0020	<0.0020
MAY -2004	29.5	29.0	0.0027	0.0021
JUNE -2004	28.4	28.6	<0.0020	<0.0020
JULY -2004	27.9	27.8	<0.0020	<0.0020
AUGUST -2004	29.2	28.8	<0.0020	<0.0020
SEPTEMBER-2004	27.8	27.3	0.0030	0.0036
OCTOBER -2004	24.7	25.2	0.0024	<0.0020
NOVEMBER -2004	26.5	26.4	0.0031	0.0031
DECEMBER -2004	27.0	26.7	0.0023	0.0027
=====	=====	=====	=====	=====
Average:	27.5	27.4	0.0018	0.0017

ND= not detected  
 NA= not analyzed  
 NS= not sampled

POINT LOMA WASTEWATER TREATMENT PLANT  
ANNUAL SEWAGE  
Radioactivity

From: 01-JAN-2004 to: 31-DEC-2004

Analyzed by: Truesdail Labs Inc.

Source	Month	Gross Alpha Radiation	Gross Beta Radiation
PLE	JANUARY -2004	3.0±1.4	16.1±3.8
PLE	FEBRUARY -2004	1.9±1.1	16.4±3.7
PLE	MARCH -2004	2.2±1.1	14.8±3.9
PLE	APRIL -2004	0.3±1.0	21.5±4.5
PLE	MAY -2004	0.8±1.0	15.9±4.7
PLE	JUNE -2004	1.0±0.9	14.5±4.2
PLE	JULY -2004	0.9±1.1	26.3±5.2
PLE	AUGUST -2004	0.9±0.9	20.8±4.3
PLE	SEPTEMBER-2004	2.7±1.8	23.1±5.0
PLE	OCTOBER -2004	1.7±1.0	21.1±4.0
PLE	NOVEMBER -2004	0.9±0.9	17.0±4.5
PLE	DECEMBER -2004	1.7±1.1	25.7±4.7
AVERAGE		1.5±1.1	19.4±4.4

Source	Month	Gross Alpha Radiation	Gross Beta Radiation
PLR	JANUARY -2004	2.4±1.3	18.3±3.5
PLR	FEBRUARY -2004	3.3±1.6	17.6±4.2
PLR	MARCH -2004	7.2±1.7	19.7±4.2
PLR	APRIL -2004	1.7±1.6	14.6±4.0
PLR	MAY -2004	0.4±1.9	17.0±4.8
PLR	JUNE -2004	3.6±1.7	22.1±4.4
PLR	JULY -2004	0.0±1.9	25.8±4.5
PLR	AUGUST -2004	4.1±2.1	15.9±4.3
PLR	SEPTEMBER-2004	1.1±1.0	24.4±5.3
PLR	OCTOBER -2004	4.4±1.4	25.3±4.2
PLR	NOVEMBER -2004	2.5±1.5	17.7±4.2
PLR	DECEMBER -2004	0.7±1.4	23.6±4.6
AVERAGE		2.6±1.6	20.2±4.4

ND= not detected  
NA= not analyzed  
NS= not sampled

Units in picocuries/liter (pCi/L)

POINT LOMA WASTEWATER TREATMENT PLANT  
SEWAGE ANNUAL - Chlorinated Pesticide Analysis

From 01-JAN-2004 to 31-DEC-2004

Analyte	MDL	Units	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE
			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
Aldrin	60	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	50	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Alpha isomer	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Beta isomer	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Gamma isomer	10	NG/L	ND	ND	<10	<10	<10	ND	22	<10	<10	<10	<10	<10	2
BHC, Delta isomer	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p,p-DDD	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p,p-DDE	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p,p-DDT	50	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDD	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDE	100	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDT	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	20	NG/L	ND	ND	ND	ND	ND	ND	<20	ND	ND	ND	ND	ND	0
Heptachlor epoxide	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha (cis) Chlordane	30	NG/L	ND	ND	ND	ND	ND	ND	31	ND	ND	ND	ND	ND	3
Gamma (trans) Chlordane	80	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha Chlordene		NG/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gamma Chlordene		NG/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxychlordane	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans Nonachlor	20	NG/L	ND	ND	ND	ND	ND	ND	<20	ND	ND	ND	ND	ND	0
Cis Nonachlor	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha Endosulfan	30	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta Endosulfan	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	50	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mirex	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	60	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	4000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1016	4000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1221	4000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1232	4000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1242	4000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1248	2000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1254	2000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1260	2000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1262	2000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
=====															
Aldrin + Dieldrin	60	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Hexachlorocyclohexanes	20	NG/L	0	0	0	0	0	0	22	0	0	0	0	0	2
DDT and derivatives	100	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Chlordane + related cmpds.	80	NG/L	0	0	0	0	0	0	31	0	0	0	0	0	3
Polychlorinated biphenyls	4000	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Endosulfans	30	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
=====															
Heptachlors	20	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
=====															
Chlorinated Hydrocarbons	4000	NG/L	0	0	0	0	0	0	53	0	0	0	0	0	4

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

POINT LOMA WASTEWATER TREATMENT PLANT  
SEWAGE ANNUAL - Chlorinated Pesticide Analysis

From 01-JAN-2004 To 31-DEC-2004

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
Aldrin	60	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	50	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Alpha isomer	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Beta isomer	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Gamma isomer	10	NG/L	<10	<10	26	12	25	19	43	24	14	20	32	24	20
BHC, Delta isomer	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p,p-DDD	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p,p-DDE	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<20	0
p,p-DDT	50	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDD	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDE	100	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDT	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	20	NG/L	ND	ND	ND	ND	ND	ND	43	ND	<20	ND	ND	ND	4
Heptachlor epoxide	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha (cis) Chlordane	30	NG/L	ND	ND	ND	ND	ND	ND	<30	ND	<30	ND	ND	ND	0
Gamma (trans) Chlordane	80	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha Chlordene		NG/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gamma Chlordene		NG/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxychlordane	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans Nonachlor	20	NG/L	ND	ND	ND	ND	ND	ND	<20	ND	ND	ND	ND	ND	0
Cis Nonachlor	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha Endosulfan	30	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta Endosulfan	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	50	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mirex	20	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	60	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	4000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1016	4000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1221	4000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1232	4000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1242	4000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1248	2000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1254	2000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1260	2000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1262	2000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
=====															
Aldrin + Dieldrin	60	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Hexachlorocyclohexanes	20	NG/L	0	0	26	12	25	19	43	24	14	20	32	24	20
DDT and derivatives	100	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Chlordane + related cmpds.	80	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Polychlorinated biphenyls	4000	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Endosulfans	30	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
=====															
Heptachlors	20	NG/L	0	0	0	0	0	0	43	0	0	0	0	0	4
=====															
Chlorinated Hydrocarbons	4000	NG/L	0	0	26	12	25	19	86	24	14	20	32	24	24

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

POINT LOMA WASTEWATER TREATMENT PLANT  
SEMI-ANNUAL SLUDGE PROJECT- Organophosphorus Pesticides EPA Method 614/622 (with additions)

From 01-JAN-2004 To 31-DEC-2004

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

Analyte	MDL	Units	PLE	PLE	PLR	PLR	MBC_COMBCN
			11-MAY-2004 P253880	05-OCT-2004 P271532	11-MAY-2004 P253885	05-OCT-2004 P271537	11-MAY-2004 P253895
Demeton O	.2	UG/L	ND	ND	ND	ND	ND
Demeton S	.08	UG/L	ND	ND	ND	ND	ND
Diazinon	.07	UG/L	0.1	ND	0.1	0.1	ND
Guthion	.15	UG/L	ND	ND	ND	ND	ND
Malathion	.07	UG/L	0.1	0.4	0.1	0.4	ND
Parathion	.06	UG/L	ND	ND	ND	ND	ND
Thiophosphorus Pesticides	.15	UG/L	0.1	0.4	0.1	0.4	0.0
Demeton -O, -S	.2	UG/L	0.0	0.0	0.0	0.0	0.0
Total Organophosphorus Pesticides	.3	UG/L	0.2	0.4	0.2	0.6	0.0
Tetraethylpyrophosphate		UG/L	NA	NA	NA	NA	NA
Dichlorvos	.05	UG/L	ND	ND	ND	ND	ND
Dibrom	.2	UG/L	ND	ND	ND	ND	ND
Ethoprop	.04	UG/L	ND	ND	ND	ND	ND
Phorate	.04	UG/L	ND	ND	ND	ND	ND
Sulfotepp	.04	UG/L	ND	ND	ND	ND	ND
Disulfoton	.08	UG/L	ND	ND	ND	ND	ND
Monocrotophos		UG/L	NA	NA	NA	NA	NA
Dimethoate	.06	UG/L	ND	ND	ND	ND	ND
Ronnel	.06	UG/L	ND	ND	ND	ND	ND
Trichloronate	.07	UG/L	ND	ND	ND	ND	ND
Merphos	.09	UG/L	ND	ND	ND	ND	ND
Dichlofenthion	.08	UG/L	ND	ND	ND	ND	ND
Tokuthion	.07	UG/L	ND	ND	ND	ND	ND
Stirophos	.08	UG/L	ND	ND	ND	ND	ND
Bolstar	.1	UG/L	ND	ND	ND	ND	ND
Fensulfothion	.15	UG/L	ND	ND	ND	ND	ND
EPN	.09	UG/L	ND	ND	ND	ND	ND
Coumaphos	.15	UG/L	ND	ND	ND	ND	ND
Mevinphos, e isomer	.05	UG/L	ND	ND	ND	ND	ND
Mevinphos, z isomer	.3	UG/L	NA	ND	NA	ND	ND
Chlorpyrifos	.07	UG/L	ND	ND	ND	0.1	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT  
SEMI-ANNUAL SLUDGE PROJECT- Organophosphorus Pesticides EPA Method 614/622 (with additions)

From 01-JAN-2004 To 31-DEC-2004

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

Analyte	MDL	Units	MBC_COMBCN	MBC_NC_DSL	MBC_NC_DSL	MBC_NC_RSL	MBC_NC_RSL
			05-OCT-2004 P271547	11-MAY-2004 P253955	05-OCT-2004 P271607	11-MAY-2004 P253953	05-OCT-2004 P271605
Demeton O	.2	UG/L	ND	ND	ND	ND	ND
Demeton S	.08	UG/L	ND	ND	ND	ND	ND
Diazinon	.07	UG/L	ND	ND	ND	ND	ND
Guthion	.15	UG/L	ND	ND	ND	ND	ND
Malathion	.07	UG/L	ND	ND	ND	ND	ND
Parathion	.06	UG/L	ND	ND	ND	ND	ND
Thiophosphorus Pesticides	.15	UG/L	0.0	0.0	0.0	0.0	0.0
Demeton -O, -S	.2	UG/L	0.0	0.0	0.0	0.0	0.0
Total Organophosphorus Pesticides	.3	UG/L	0.0	0.0	0.0	0.0	0.0
Tetraethylpyrophosphate		UG/L	NA	NA	NA	NA	NA
Dichlorvos	.05	UG/L	ND	ND	ND	ND	ND
Dibrom	.2	UG/L	ND	ND	ND	ND	ND
Ethoprop	.04	UG/L	ND	ND	ND	ND	ND
Phorate	.04	UG/L	ND	ND	ND	ND	ND
Sulfotepp	.04	UG/L	ND	ND	ND	ND	ND
Disulfoton	.08	UG/L	ND	ND	ND	ND	ND
Monocrotophos		UG/L	NA	NA	NA	NA	NA
Dimethoate	.06	UG/L	ND	ND	ND	ND	ND
Ronnel	.06	UG/L	ND	ND	ND	ND	ND
Trichloronate	.07	UG/L	ND	ND	ND	ND	ND
Merphos	.09	UG/L	ND	ND	ND	ND	ND
Dichlofenthion	.08	UG/L	ND	ND	ND	ND	ND
Tokuthion	.07	UG/L	ND	ND	ND	ND	ND
Stirophos	.08	UG/L	ND	ND	ND	ND	ND
Bolstar	.1	UG/L	ND	ND	ND	ND	ND
Fensulfothion	.15	UG/L	ND	ND	ND	ND	ND
EPN	.09	UG/L	ND	ND	ND	ND	ND
Coumaphos	.15	UG/L	ND	ND	ND	ND	ND
Mevinphos, e isomer	.05	UG/L	ND	ND	ND	ND	ND
Mevinphos, z isomer	.3	UG/L	ND	ND	ND	ND	ND
Chlorpyrifos	.07	UG/L	ND	ND	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT  
SEMI-ANNUAL SLUDGE PROJECT- Organophosphorus Pesticides EPA Method 614/622 (with additions)

From 01-JAN-2004 To 31-DEC-2004

Sampling: LC,MC,BGB,RJ,SKB,HHD,NC

Analysis: CW,TB,KD

Analyte	MDL Units	RAW COMP	RAW COMP	DIG COMP	DIG COMP
		11-MAY-2004 P253925	05-OCT-2004 P271577	11-MAY-2004 P253939	05-OCT-2004 P271591
Demeton O	.2 UG/L	ND	ND	ND	ND
Demeton S	.08 UG/L	ND	ND	ND	ND
Diazinon	.07 UG/L	3.3	ND	ND	ND
Guthion	.15 UG/L	ND	ND	ND	ND
Malathion	.07 UG/L	ND	ND	ND	ND
Parathion	.06 UG/L	ND	ND	ND	ND
Thiophosphorus Pesticides	.15 UG/L	0.0	0.0	0.0	0.0
Demeton -O, -S	.2 UG/L	0.0	0.0	0.0	0.0
Total Organophosphorus Pesticides	.3 UG/L	13.3	8.9	10.9	7.4
Tetraethylpyrophosphate	UG/L	NA	NA	NA	NA
Dichlorvos	.05 UG/L	ND	ND	ND	ND
Dibrom	.2 UG/L	ND	ND	ND	ND
Ethoprop	.04 UG/L	ND	ND	ND	ND
Phorate	.04 UG/L	ND	ND	ND	ND
Sulfotepp	.04 UG/L	ND	ND	ND	ND
Disulfoton	.08 UG/L	ND	ND	ND	ND
Monocrotophos	UG/L	NA	NA	NA	NA
Dimethoate	.06 UG/L	ND	ND	ND	ND
Ronnel	.06 UG/L	ND	ND	ND	ND
Trichloronate	.07 UG/L	ND	ND	ND	ND
Merphos	.09 UG/L	ND	ND	ND	ND
Dichlofenthion	.08 UG/L	ND	ND	ND	ND
Tokuthion	.07 UG/L	ND	ND	ND	ND
Stirophos	.08 UG/L	ND	ND	ND	ND
Bolstar	.1 UG/L	ND	ND	ND	ND
Fensulfothion	.15 UG/L	ND	ND	ND	ND
EPN	.09 UG/L	ND	ND	ND	ND
Coumaphos	.15 UG/L	ND	ND	ND	ND
Mevinphos, e isomer	.05 UG/L	ND	ND	ND	ND
Mevinphos, z isomer	.3 UG/L	ND	ND	ND	ND
Chlorpyrifos	.07 UG/L	10.0	8.9	10.9	7.4

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

POINT LOMA WASTEWATER TREATMENT PLANT  
ANNUAL SEWAGE MONTHLY - Tributyl Tin analysis

From 01-JAN-2004 To 31-DEC-2004  
Sampling: LC,JF,JM,KW,PG,BGB Analysis: JCM

Analyte	MDL	Units	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	Average
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
Dibutyl tin	2	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monobutyl Tin	6	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tributyl tin	2	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Analyte	MDL	Units	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	Average
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
Dibutyl tin	2	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monobutyl Tin	6	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tributyl tin	2	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT  
SEWAGE ANNUAL - Acid Extractables

From 01-JAN-2004 to 31-DEC-2004

Analyte	MDL	Units	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	Average
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
			Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	
2-chlorophenol	1.76	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dichlorophenol	1.95	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-chloro-3-methylphenol	1.34	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-trichlorophenol	1.75	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	5.87	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	2.53	UG/L	17.4	10.6	12.4	12.8	14.0	11.5	10.6	9.8	9.2	6.8	10.4	10.5	11.3
2-nitrophenol	1.88	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dimethylphenol	1.32	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dinitrophenol	6.07	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-nitrophenol	3.17	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-methyl-4,6-dinitrophenol	4.29	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Chlorinated Phenols	5.87	UG/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Non-Chlorinated Phenols	6.07	UG/L	17.4	10.6	12.4	12.8	14.0	11.5	10.6	9.8	9.2	6.8	10.4	10.5	11.3
Phenols	6.07	UG/L	17.4	10.6	12.4	12.8	14.0	11.5	10.6	9.8	9.2	6.8	10.4	10.5	11.3

Additional analytes determined;

2-methylphenol	1.51	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-methylphenol(4-MP is unresolved)	4.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-methylphenol(3-MP is unresolved)	4.22	UG/L	48.5	33.3	34.0	40.6	35.9	27.7	24.2	22.2	19.6	16.1	30.4	31.0	30.3
2,4,5-trichlorophenol	1.66	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Analyte	MDL	Units	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	Average
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
			Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	
2-chlorophenol	1.76	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dichlorophenol	1.95	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-chloro-3-methylphenol	1.34	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-trichlorophenol	1.75	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	5.87	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	2.53	UG/L	18.0	12.9	14.1	14.7	17.1	21.4	19.6	15.0	15.6	11.1	15.0	15.0	15.8
2-nitrophenol	1.88	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dimethylphenol	1.32	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dinitrophenol	6.07	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-nitrophenol	3.17	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-methyl-4,6-dinitrophenol	4.29	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Chlorinated Phenols	5.87	UG/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Non-Chlorinated Phenols	6.07	UG/L	18.0	12.9	14.1	14.7	17.1	21.4	19.6	15.0	15.6	11.1	15.0	15.0	15.8
Phenols	6.07	UG/L	18.0	12.9	14.1	14.7	17.1	21.4	19.6	15.0	15.6	11.1	15.0	15.0	15.8

Additional analytes determined;

2-methylphenol	1.51	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-methylphenol(4-MP is unresolved)	4.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-methylphenol(3-MP is unresolved)	4.22	UG/L	51.6	47.2	42.3	49.3	44.5	40.9	43.5	33.1	32.7	26.7	41.0	41.9	41.2
2,4,5-trichlorophenol	1.66	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT  
SEWAGE ANNUAL Priority Pollutants Base/Neutrals

From 01-JAN-2004 to 31-DEC-2004

Analyte	MDL	Units	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE
			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
bis(2-chloroethyl) ether	2.62	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-dichlorobenzene	1.65	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-dichlorobenzene	1.63	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-dichlorobenzene	2.3	UG/L	<2.3	2.4	<2.3	3.0	<2.3	<2.3	<2.3	3.8	<2.3	3.0	3.2	<2.3	1.3
Bis-(2-chloroisopropyl) ether	8.95	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-nitrosodi-n-propylamine	1.63	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	1.52	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	3.55	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	1.93	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-chloroethoxy)methane	1.57	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
Naphthalene	1.52	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.9	ND	0.2
Hexachlorobutadiene	2.87	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene		UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	2.02	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	3.26	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-dinitrotoluene	1.93	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	2.2	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dinitrotoluene	1.49	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	2.43	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-chlorophenyl phenyl ether	3.62	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	6.97	UG/L	ND	ND	ND	ND	ND	ND	ND	7.7	<7.0	ND	ND	ND	0.6
N-nitrosodiphenylamine	2.96	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-bromophenyl phenyl ether	4.04	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	4.8	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	4.15	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	4.04	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	6.49	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-nitrosodimethylamine	2.01	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	6.9	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	5.19	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzidine	1.02	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	4.77	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	7.49	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[A]anthracene	7.68	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis-(2-ethylhexyl) phthalate	10.43	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	14.0	ND	ND	ND	1.2
Di-n-octyl phthalate	8.59	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3-dichlorobenzidine	2.43	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[K]fluoranthene	7.36	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,4-benzo(B)fluoranthene	6.63	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[A]pyrene	6.53	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-CD)pyrene	6.27	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(A,H)anthracene	6.19	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[G,H,I]perylene	6.5	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-diphenylhydrazine	2.49	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Dichlorobenzenes	1.65	UG/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Polynuc. Aromatic Hydrocarbons	7.68	UG/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Base/Neutral Compounds	10.43	UG/L	0.0	2.4	0.0	3.0	0.0	0.0	0.0	11.5	0.0	17.0	5.1	0.0	3.3

Additional analytes determined;

1-methylnaphthalene	2.18	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.8	ND	0.2
2-methylnaphthalene	2.25	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.9	ND	0.3
2,6-dimethylnaphthalene	3.31	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,5-trimethylnaphthalene	4.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-methylphenanthrene	6.29	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[e]pyrene	7.67	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perylene	6.61	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Biphenyl	2.43	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT  
SEWAGE ANNUAL Priority Pollutants Base/Neutrals

From 01-JAN-2004 to 31-DEC-2004

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
bis(2-chloroethyl) ether	2.62	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-dichlorobenzene	1.65	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-dichlorobenzene	1.63	UG/L	ND	ND	ND	ND	ND	ND	ND	<1.6	ND	ND	ND	ND	0.0
1,4-dichlorobenzene	2.3	UG/L	<2.3	3.2	3.3	3.9	<2.3	<2.3	<2.3	3.7	3.2	3.1	3.0	<2.3	2.0
Bis-(2-chloroisopropyl) ether	8.95	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-nitrosodi-n-propylamine	1.63	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	1.52	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	3.55	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	1.93	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-chloroethoxy)methane	1.57	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
Naphthalene	1.52	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.1	ND	0.2
Hexachlorobutadiene	2.87	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene		UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	2.02	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	3.26	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-dinitrotoluene	1.93	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	2.2	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dinitrotoluene	1.49	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	2.43	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-chlorophenyl phenyl ether	3.62	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	6.97	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-nitrosodiphenylamine	2.96	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-bromophenyl phenyl ether	4.04	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	4.8	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	4.15	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	4.04	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	6.49	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-nitrosodimethylamine	2.01	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	6.9	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	5.19	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzidine	1.02	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	4.77	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	7.49	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[A]anthracene	7.68	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis-(2-ethylhexyl) phthalate	10.43	UG/L	ND	19.3	53.1	23.7	45.2	13.4	18.0	23.3	19.4	35.1	10.7	12.0	22.8
Di-n-octyl phthalate	8.59	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3-dichlorobenzidine	2.43	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[K]fluoranthene	7.36	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,4-benzo(B)fluoranthene	6.63	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[A]pyrene	6.53	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-CD)pyrene	6.27	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(A,H)anthracene	6.19	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[G,H,I]perylene	6.5	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-diphenylhydrazine	2.49	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Dichlorobenzenes	1.65	UG/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Polynuc. Aromatic Hydrocarbons	7.68	UG/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Base/Neutral Compounds	10.43	UG/L	0.0	22.5	56.4	27.6	45.2	13.4	18.0	27.0	22.6	38.2	15.8	12.0	24.9

Additional analytes determined;

1-methylnaphthalene	2.18	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.9	ND	0.3
2-methylnaphthalene	2.25	UG/L	ND	ND	ND	ND	3.1	ND	ND	ND	ND	ND	5.7	ND	0.7
2,6-dimethylnaphthalene	3.31	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.7	ND	0.3
2,3,5-trimethylnaphthalene	4.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-methylphenanthrene	6.29	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[e]pyrene	7.67	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perylene	6.61	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Biphenyl	2.43	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT  
SEWAGE ANNUAL Priority Pollutants Purgeables

From 01-JAN-2004 to 31-DEC-2004

Analyte	MDL	Units	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE
			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
Chloromethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-dichloroethene	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	1	UG/L	2.8	ND	4.3	2.5	4.2	3.8	ND	3.1	2.2	4.4	2.3	1.6	2.6
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	6.1	7.5	5.7	5.9	5.9	6.8	6.8	5.9	5.6	7.7	7.5	6.4
1,2-dichloroethane	1	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	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	1	UG/L	ND	2.6	1.5	<1.0	ND	1.8	<1.0	1.4	ND	ND	ND	1.4	0.7
1,2-dichloropropane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-dichloropropene	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	1	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	UG/L	ND	2.8	1.2	ND	ND	1.5	ND	1.2	ND	ND	ND	1.3	0.7
1,1,2-trichloroethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-chloroethylvinyl ether	1	UG/L	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-tetrachloroethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1	UG/L	ND	ND	ND	ND	ND	ND	3.2	<1.0	ND	ND	1.1	ND	0.4
Toluene	1	UG/L	2.5	3.3	2.1	1.2	1.8	1.4	ND	2.1	2.3	2.3	1.6	1.8	1.9
Chlorobenzene	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	1	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	1	UG/L	0.0	5.4	2.7	0.0	0.0	3.3	0.0	2.6	0.0	0.0	0.0	2.7	1.4
Purgeable Compounds	13.8	UG/L	11.1	14.8	16.6	16.3	21.1	20.6	10.0	31.1	18.6	20.3	25.0	19.9	18.8

Additional analytes determined;

Allyl chloride	1	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	ND	ND	ND	ND	ND	ND	ND	ND
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	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	479	591	793	1070	1080	1620	1310	626	1220	381	1950	2140	1105
Carbon disulfide	1	UG/L	2.1	1.3	1.6	ND	2.2	1.7	2.5	5.6	4.5	1.9	1.4	1.7	2.2
2-butanone	4	UG/L	*	ND	ND	6.9	9.2	6.2	ND	16.5	8.2	8.0	12.3	6.3	6.7
Methyl tert-butyl ether	1	UG/L	ND	1.2	ND	ND	ND	1.1	ND	ND	ND	ND	1.3	ND	0.3

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

POINT LOMA WASTEWATER TREATMENT PLANT  
SEWAGE ANNUAL Priority Pollutants Purgeables

From 01-JAN-2004 to 31-DEC-2004

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
Chloromethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-dichloroethene	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	1	UG/L	2.3	ND	5.5	1.9	4.0	7.0	ND	3.0	2.1	2.6	1.9	1.5	2.7
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	8.5	7.9	8.6	6.3	4.0	8.2	7.4	8.8	5.4	5.8	7.9	8.1	7.2
1,2-dichloroethane	1	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	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	1	UG/L	ND	3.6	1.5	1.7	1.2	2.2	1.4	1.6	ND	ND	ND	1.2	1.2
1,2-dichloropropane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-dichloropropene	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	1	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	UG/L	ND	3.2	1.2	1.2	ND	1.6	ND	1.1	ND	ND	ND	1.1	0.8
1,1,2-trichloroethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-chloroethylvinyl ether	1	UG/L	ND	ND	ND	ND	*	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-tetrachloroethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1	UG/L	ND	ND	ND	ND	ND	ND	2.5	ND	ND	ND	1.2	ND	0.3
Toluene	1	UG/L	2.3	2.2	ND	2.0	1.2	1.7	ND	1.3	3.0	1.8	1.5	1.1	1.5
Chlorobenzene	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	1	UG/L	ND	ND	ND	ND	ND	ND	ND	2.7	ND	ND	ND	ND	0.2
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	1	UG/L	0.0	6.8	2.7	2.9	1.2	3.8	1.4	2.7	0.0	0.0	0.0	2.3	2.0
Purgeable Compounds	13.8	UG/L	13.1	16.9	16.8	13.1	16.9	25.7	11.3	24.6	20.0	16.1	16.9	13.0	17.0

Additional analytes determined:

Allyl chloride	1	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	ND	ND	10.9	ND	ND	ND	ND	0.9
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	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	1430	235	1860	2010	188	1680	3200	639	1460	417	1800	2240	1430
Carbon disulfide	1	UG/L	1.5	1.2	1.2	1.5	1.9	1.2	2.9	3.3	2.7	1.4	1.3	1.4	1.8
2-butanone	4	UG/L	*	ND	ND	ND	6.5	5.0	ND	8.8	6.8	5.9	4.4	ND	3.4
Methyl tert-butyl ether	1	UG/L	ND	ND	1.2	ND	ND	1.6	ND	ND	ND	ND	ND	ND	0.2

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

POINT LOMA WASTEWATER TREATMENT PLANT  
Annual Sewage Dioxin and Furan Analysis

From 01-JAN-2004 to 31-DEC-2004

Analyte	MDL	Units	Equiv	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE
				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
				P242693	P244337	P248859	P252082	P253880	P259479	P263151	P264290	P270442
2,3,7,8-tetra CDD	500	PG/L	1.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDD	500	PG/L	0.500	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa_CDD	500	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	500	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	500	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	500	PG/L	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND
octa CDD	1000	PG/L	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,7,8-tetra CDF	250	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDF	500	PG/L	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,7,8-penta CDF	500	PG/L	0.500	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	500	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	500	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	500	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	500	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	500	PG/L	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	500	PG/L	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND
octa CDF	1000	PG/L	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND

Analyte	MDL	Units	Equiv	PLE	PLE	PLE
				OCT	NOV	DEC
				P271532	P278226	P281963
2,3,7,8-tetra CDD	500	PG/L	1.000	ND	ND	ND
1,2,3,7,8-penta CDD	500	PG/L	0.500	ND	ND	ND
1,2,3,4,7,8-hexa_CDD	500	PG/L	0.100	ND	ND	ND
1,2,3,6,7,8-hexa CDD	500	PG/L	0.100	ND	ND	ND
1,2,3,7,8,9-hexa CDD	500	PG/L	0.100	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	500	PG/L	0.010	ND	ND	ND
octa CDD	1000	PG/L	0.001	ND	ND	ND
2,3,7,8-tetra CDF	250	PG/L	0.100	ND	ND	ND
1,2,3,7,8-penta CDF	500	PG/L	0.050	ND	ND	ND
2,3,4,7,8-penta CDF	500	PG/L	0.500	ND	ND	ND
1,2,3,4,7,8-hexa CDF	500	PG/L	0.100	ND	ND	ND
1,2,3,6,7,8-hexa CDF	500	PG/L	0.100	ND	ND	ND
1,2,3,7,8,9-hexa CDF	500	PG/L	0.100	ND	ND	ND
2,3,4,6,7,8-hexa CDF	500	PG/L	0.100	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	500	PG/L	0.010	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	500	PG/L	0.010	ND	ND	ND
octa CDF	1000	PG/L	0.001	ND	ND	ND

Above are permit required CDD/CDF isomers.  
nd= not detected  
NA= not analyzed NS= not sampled

POINT LOMA WASTEWATER TREATMENT PLANT  
Annual Sewage Dioxin and Furan Analysis

From 01-JAN-2004 To 31-DEC-2004

Analyte	MDL	Units	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	
			TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	TCDD
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
			P242693	P244337	P248859	P252082	P253880	P259479	P263151	P264290	P270442
2,3,7,8-tetra CDD	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDD	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa_CDD	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
octa CDD	1000	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,7,8-tetra CDF	250	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDF	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,7,8-penta CDF	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
octa CDF	1000	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND

Analyte	MDL	Units	PLE	PLE	PLE
			TCDD	TCDD	TCDD
			OCT	NOV	DEC
			P271532	P278226	P281963
2,3,7,8-tetra CDD	500	PG/L	ND	ND	ND
1,2,3,7,8-penta CDD	500	PG/L	ND	ND	ND
1,2,3,4,7,8-hexa_CDD	500	PG/L	ND	ND	ND
1,2,3,6,7,8-hexa CDD	500	PG/L	ND	ND	ND
1,2,3,7,8,9-hexa CDD	500	PG/L	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	500	PG/L	ND	ND	ND
octa CDD	1000	PG/L	ND	ND	ND
2,3,7,8-tetra CDF	250	PG/L	ND	ND	ND
1,2,3,7,8-penta CDF	500	PG/L	ND	ND	ND
2,3,4,7,8-penta CDF	500	PG/L	ND	ND	ND
1,2,3,4,7,8-hexa CDF	500	PG/L	ND	ND	ND
1,2,3,6,7,8-hexa CDF	500	PG/L	ND	ND	ND
1,2,3,7,8,9-hexa CDF	500	PG/L	ND	ND	ND
2,3,4,6,7,8-hexa CDF	500	PG/L	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	500	PG/L	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	500	PG/L	ND	ND	ND
octa CDF	1000	PG/L	ND	ND	ND

Above are permit required CDD/CDF isomers.  
nd= not detected  
NA= not analyzed NS= not sampled

POINT LOMA WASTEWATER TREATMENT PLANT  
Annual Sewage Dioxin and Furan Analysis

From 01-JAN-2004 to 31-DEC-2004

Analyte	MDL	Units	Equiv	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR
				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
				P242696	P244342	P248862	P252085	P253885	P259482	P263154	P264295	P270445
2,3,7,8-tetra CDD	500	PG/L	1.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDD	500	PG/L	0.500	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa_CDD	500	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	500	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	500	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	500	PG/L	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND
octa CDD	1000	PG/L	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,7,8-tetra CDF	250	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDF	500	PG/L	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,7,8-penta CDF	500	PG/L	0.500	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	500	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	500	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	500	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	500	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	500	PG/L	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	500	PG/L	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND
octa CDF	1000	PG/L	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND

Analyte	MDL	Units	Equiv	PLR	PLR	PLR
				OCT	NOV	DEC
				P271537	P278229	P281966
2,3,7,8-tetra CDD	500	PG/L	1.000	ND	ND	ND
1,2,3,7,8-penta CDD	500	PG/L	0.500	ND	ND	ND
1,2,3,4,7,8-hexa_CDD	500	PG/L	0.100	ND	ND	ND
1,2,3,6,7,8-hexa CDD	500	PG/L	0.100	ND	ND	ND
1,2,3,7,8,9-hexa CDD	500	PG/L	0.100	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	500	PG/L	0.010	ND	ND	ND
octa CDD	1000	PG/L	0.001	ND	ND	ND
2,3,7,8-tetra CDF	250	PG/L	0.100	ND	ND	ND
1,2,3,7,8-penta CDF	500	PG/L	0.050	ND	ND	ND
2,3,4,7,8-penta CDF	500	PG/L	0.500	ND	ND	ND
1,2,3,4,7,8-hexa CDF	500	PG/L	0.100	ND	ND	ND
1,2,3,6,7,8-hexa CDF	500	PG/L	0.100	ND	ND	ND
1,2,3,7,8,9-hexa CDF	500	PG/L	0.100	ND	ND	ND
2,3,4,6,7,8-hexa CDF	500	PG/L	0.100	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	500	PG/L	0.010	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	500	PG/L	0.010	ND	ND	ND
octa CDF	1000	PG/L	0.001	ND	ND	ND

Above are permit required CDD/CDF isomers.  
nd= not detected  
NA= not analyzed NS= not sampled

POINT LOMA WASTEWATER TREATMENT PLANT  
Annual Sewage Dioxin and Furan Analysis

From 01-JAN-2004 To 31-DEC-2004

Analyte	MDL	Units	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	
			TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	TCDD
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
			P242696	P244342	P248862	P252085	P253885	P259482	P263154	P264295	P270445
2,3,7,8-tetra CDD	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDD	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa_CDD	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
octa CDD	1000	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,7,8-tetra CDF	250	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDF	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,7,8-penta CDF	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	500	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
octa CDF	1000	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND

Analyte	MDL	Units	PLR	PLR	PLR
			TCDD	TCDD	TCDD
			OCT	NOV	DEC
			P271537	P278229	P281966
2,3,7,8-tetra CDD	500	PG/L	ND	ND	ND
1,2,3,7,8-penta CDD	500	PG/L	ND	ND	ND
1,2,3,4,7,8-hexa_CDD	500	PG/L	ND	ND	ND
1,2,3,6,7,8-hexa CDD	500	PG/L	ND	ND	ND
1,2,3,7,8,9-hexa CDD	500	PG/L	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	500	PG/L	ND	ND	ND
octa CDD	1000	PG/L	ND	ND	ND
2,3,7,8-tetra CDF	250	PG/L	ND	ND	ND
1,2,3,7,8-penta CDF	500	PG/L	ND	ND	ND
2,3,4,7,8-penta CDF	500	PG/L	ND	ND	ND
1,2,3,4,7,8-hexa CDF	500	PG/L	ND	ND	ND
1,2,3,6,7,8-hexa CDF	500	PG/L	ND	ND	ND
1,2,3,7,8,9-hexa CDF	500	PG/L	ND	ND	ND
2,3,4,6,7,8-hexa CDF	500	PG/L	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	500	PG/L	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	500	PG/L	ND	ND	ND
octa CDF	1000	PG/L	ND	ND	ND

Above are permit required CDD/CDF isomers.  
nd= not detected  
NA= not analyzed  
NS= not sampled

**2004  
Point Loma Treatment Plant  
Total Coliforms**

The following are the monthly Total Coliform results of the Point Loma Treatment Plant Effluent. The value is stated in terms of Most Probable Number (MPN) per 100 milliliters of sample.

SAMPLE SOURCE (Pt. Loma Treatment Plant Effluent)

DATE	TOTAL COLIFORM (MPN Index/100ml)
January 5, 2004	7,000,000
February 12, 2004	5,000,000
March 1, 2004	21,000,000
April 8, 2004	17,000,000
May 21, 2004	13,000,000
June 4, 2004	50,000,000
July 7, 2004	110,000,000
August 2, 2004	11,000,000
September 10, 2004	23,000,000
October 5, 2004	23,000,000
November 4, 2004	8,000,000
December 2, 2004	5,000,000
Average	24,416,667

POINT LOMA WASTEWATER TREATMENT PLANT

From 01-JAN-2004 to 31-DEC-2004

MDL:	Total Hardness		Calcium Hardness		Magnesium Hardness		Calcium		Magnesium	
	.22 Inf.	mg/L Eff.	.2 Inf.	mg/L Eff.	.08 Inf.	mg/L Eff.	.08 Inf.	mg/L Eff.	.02 Inf.	mg/L Eff.
JANUARY -2004	467	446	244	227	223	220	98	91	54	53
FEBRUARY -2004	430	414	223	208	207	205	90	84	50	50
MARCH -2004	409	401	213	202	197	200	85	81	48	49
APRIL -2004	395	378	181	169	214	209	92	84	52	51
MAY -2004	433	416	200	187	233	229	90	84	57	56
JUNE -2004	508	453	240	211	268	243	96	85	65	59
JULY -2004	429	418	215	203	215	215	86	81	52	52
AUGUST -2004	437	415	219	201	218	214	86	79	53	52
SEPTEMBER-2004	441	405	222	197	219	208	89	79	53	51
OCTOBER -2004	494	471	239	220	255	251	96	88	62	61
NOVEMBER -2004	455	429	234	214	221	215	94	86	54	52
DECEMBER -2004	465	446	238	223	226	223	96	89	55	54
Average:	447	424	222	205	225	219	92	84	55	53

MDL:	Alkalinity		Total Solids		Total Vol. Solids		Conductivity		Fluoride	
	1.5 Inf.	mg/L Eff.	100 Inf.	mg/L Eff.	100 Inf.	mg/L Eff.	10umhos/cm Inf.	Eff.	.05 Inf.	mg/L Eff.
JANUARY -2004	290	255	2070	1810	545	325	2930	2920	0.83	0.90
FEBRUARY -2004	268	236	1930	1600	494	278	2640	2520	0.65	0.67
MARCH -2004	281	254	1940	1700	540	353	2670	2660	0.72	0.80
APRIL -2004	275	249	1830	1610	484	285	2560	2600	0.64	0.61
MAY -2004	281	254	2230	1910	631	349	3050	3130	0.55	0.66
JUNE -2004	276	253	2150	1910	554	351	3070	3050	0.59	0.61
JULY -2004	278	258	2070	1750	591	341	2870	2830	0.61	0.63
AUGUST -2004	276	254	1990	1750	543	281	2790	2790	0.47	0.58
SEPTEMBER-2004	273	245	2060	1750	594	320	2880	2880	0.60	0.66
OCTOBER -2004	250	226	1960	1680	576	368	2570	2580	0.83	0.79
NOVEMBER -2004	271	247	1920	1700	479	297	2770	2810	0.70	0.72
DECEMBER -2004	268	242	1960	1760	493	311	2720	2810	0.78	0.82
Average:	274	248	2009	1744	544	322	2793	2798	0.66	0.70

MDL:	Chloride		Bromide		Sulfate		Nitrate		Ortho Phosphate	
	7 Inf.	mg/L Eff.	.1 Inf.	mg/L Eff.	9 Inf.	mg/L Eff.	.04 Inf.	mg/L Eff.	.2 Inf.	mg/L Eff.
JANUARY -2004	567	583	1.51	1.63	288	293	ND	ND	5.79	ND
FEBRUARY -2004	502	511	1.18	1.15	244	248	ND	ND	5.13	ND
MARCH -2004	516	532	1.30	1.32	234	237	ND	ND	4.56	ND
APRIL -2004	518	532	1.56	1.69	238	232	ND	ND	5.93	ND
MAY -2004	477	659	1.76	1.85	253	251	ND	ND	6.30	ND
JUNE -2004	703	670	1.84	1.81	265	261	ND	ND	2.53	ND
JULY -2004	555	577	1.42	1.49	245	246	ND	ND	3.92	ND
AUGUST -2004	562	565	1.39	1.39	242	240	ND	ND	5.83	1.23
SEPTEMBER-2004	569	586	1.34	1.24	229	227	ND	0.56	4.36	ND
OCTOBER -2004	511	523	1.40	1.40	234	226	ND	ND	6.86	ND
NOVEMBER -2004	554	563	1.48	1.48	251	243	ND	0.34	5.12	ND
DECEMBER -2004	572	593	1.40	1.39	263	263	ND	ND	4.70	ND
Average:	551	575	1.47	1.49	249	247	ND	0.08	5.09	0.10

ND=not detected; NS=not sampled; NA=not analyzed; NR=not required

POINT LOMA WASTEWATER TREATMENT PLANT

From 01-JAN-2004 to 31-DEC-2004

MDL:	Lithium		Sodium		Potassium		Chemical Oxygen Demand		Soluble BOD	
	.01 Inf.	mg/L Eff.	.3 Inf.	mg/L Eff.	2 Inf.	mg/L Eff.	22 Inf.	mg/L Eff.	2 Inf.	mg/L Eff.
JANUARY -2004	0.06	0.04	358	362	30.6	30.1	540	241	82	71
FEBRUARY -2004	0.03	0.05	328	334	22.2	22.2	499	199	80	69
MARCH -2004	0.01	0.03	325	338	27.0	28.3	527	234	85	73
APRIL -2004	0.02	0.02	342	349	28.6	28.2	550	246	87	69
MAY -2004	0.04	0.04	381	382	29.5	29.6	570	276	88	75
JUNE -2004	0.05	0.04	449	413	33.8	33.5	622	241	85	75
JULY -2004	0.04	0.03	377	387	27.7	27.5	532	239	75	66
AUGUST -2004	0.04	0.04	382	377	27.4	27.7	696	243	86	75
SEPTEMBER-2004	0.04	0.05	362	351	26.6	25.8	570	235	75	66
OCTOBER -2004	0.04	0.05	374	366	27.6	26.9	487	183	65	58
NOVEMBER -2004	0.05	0.05	373	363	26.0	25.1	507	209	74	68
DECEMBER -2004	0.05	0.05	363	362	25.3	24.9	446	227	81	74
Average:	0.04	0.04	368	365	27.7	27.5	546	231	80	70

MDL:	Total Dissolved Solids		Floatables		Turbidity		Aluminum		Barium	
	42 Inf.	mg/L Eff.	.1 Inf.	mg/L Eff.	Inf.	NTU Eff.	50 Inf.	ug/L Eff.	10 Inf.	ug/L Eff.
JANUARY -2004	1680	1660	4.7	0.1	134	50	1770	350	144	49
FEBRUARY -2004	1570	1550	3.2	0.3	129	45	2230	134	117	35
MARCH -2004	1570	1550	2.9	0.1	135	47	1740	167	106	33
APRIL -2004	1560	1540	3.8	0.1	136	49	1710	103	122	36
MAY -2004	1790	1770	2.2	0.1	134	53	1670	77	114	35
JUNE -2004	1800	1780	1.7	0.1	139	50	1300	104	96	32
JULY -2004	1610	1590	1.5	0.1	140	50	1460	112	100	34
AUGUST -2004	1590	1580	1.0	0.1	140	54	1530	77	110	31
SEPTEMBER-2004	1610	1590	1.3	0.1	140	53	1340	230	86	30
OCTOBER -2004	1590	1580	1.1	0.1	138	44	1910	154	104	30
NOVEMBER -2004	1530	1500	1.1	0.2	134	49	1390	31	94	30
DECEMBER -2004	1520	1510	1.4	0.1	140	54	1170	196	112	39
Average:	1618	1600	2.2	0.1	137	50	1602	145	109	35

MDL:	Boron		Cobalt		Molybdenum		Manganese		Vanadium	
	15 Inf.	ug/L Eff.	4 Inf.	ug/L Eff.	3 Inf.	ug/L Eff.	4 Inf.	ug/L Eff.	7 Inf.	ug/L Eff.
JANUARY -2004	478	460	ND	ND	NR	NR	142	156	NR	NR
FEBRUARY -2004	342	347	ND	<4	4	4	145	147	ND	ND
MARCH -2004	432	425	<4	<4	7	5	127	140	8	<7
APRIL -2004	438	451	ND	ND	NR	NR	126	146	ND	ND
MAY -2004	480	485	ND	ND	7	9	129	153	ND	ND
JUNE -2004	443	413	1	1	15	13	137	146	7	3
JULY -2004	422	420	1	1	15	15	127	138	8	3
AUGUST -2004	428	423	<0	<0	18	15	140	153	8	3
SEPTEMBER-2004	431	439	<0	<0	15	13	137	167	6	3
OCTOBER -2004	374	371	1	1	14	12	144	160	8	2
NOVEMBER -2004	417	447	1	<0	12	9	154	184	5	2
DECEMBER -2004	462	381	1	1	14	11	166	195	5	1
Average:	429	422	<0	<0	12	11	140	157	5	2

ND=not detected; NS=not sampled; NA=not analyzed; NR=not required

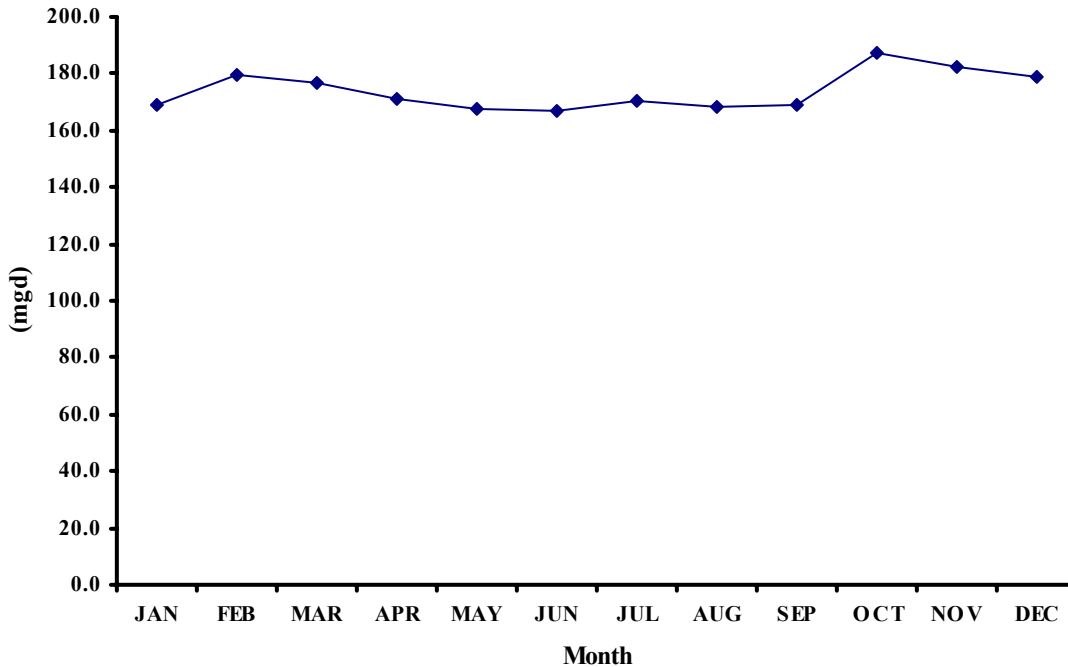
Samples are 24 hour composites

B. Influent and Effluent Graphs.

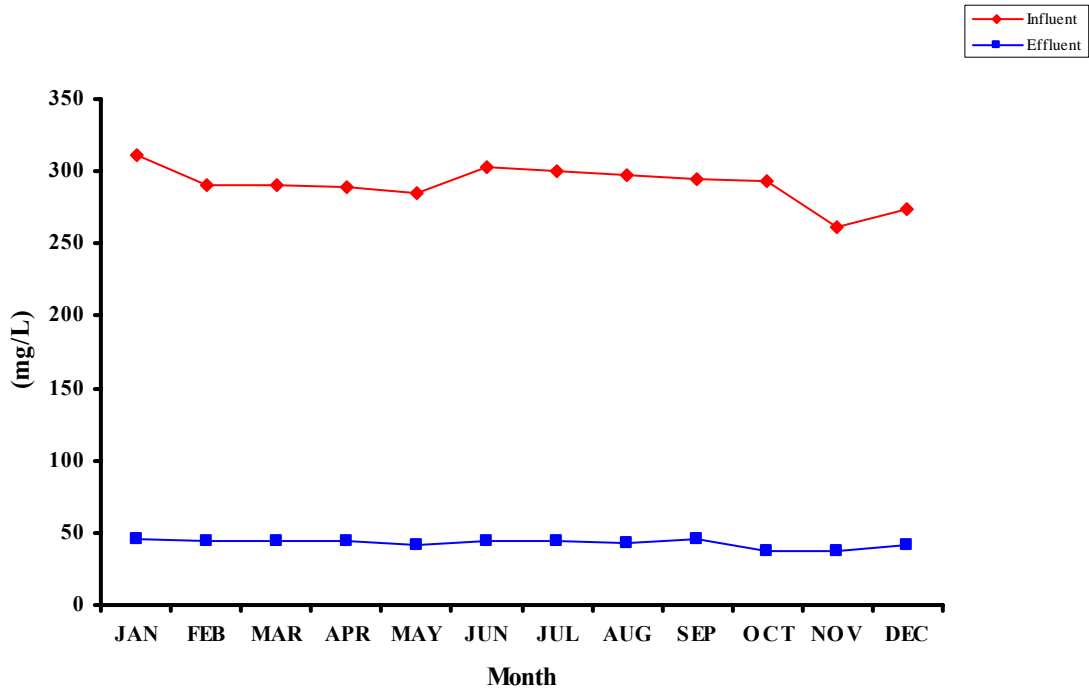
Graphs of monthly averages for permit parameters with measurable concentration averages.

Where possible, the influent and effluent values of a given parameter have been included on the same graph so that removals and other relationships are readily apparent. Please note that many of the graphs are on expanded scales. That is, they normally don't go to zero concentrations but show, in magnified scale, that range of concentrations where variation takes place. This makes differences and some trends obvious that might normally not be noticed. However, it also provides the temptation to interpret minor changes or trends as being of more significance than they are. Frequent reference to the scales and the actual differences in concentrations is therefore necessary.

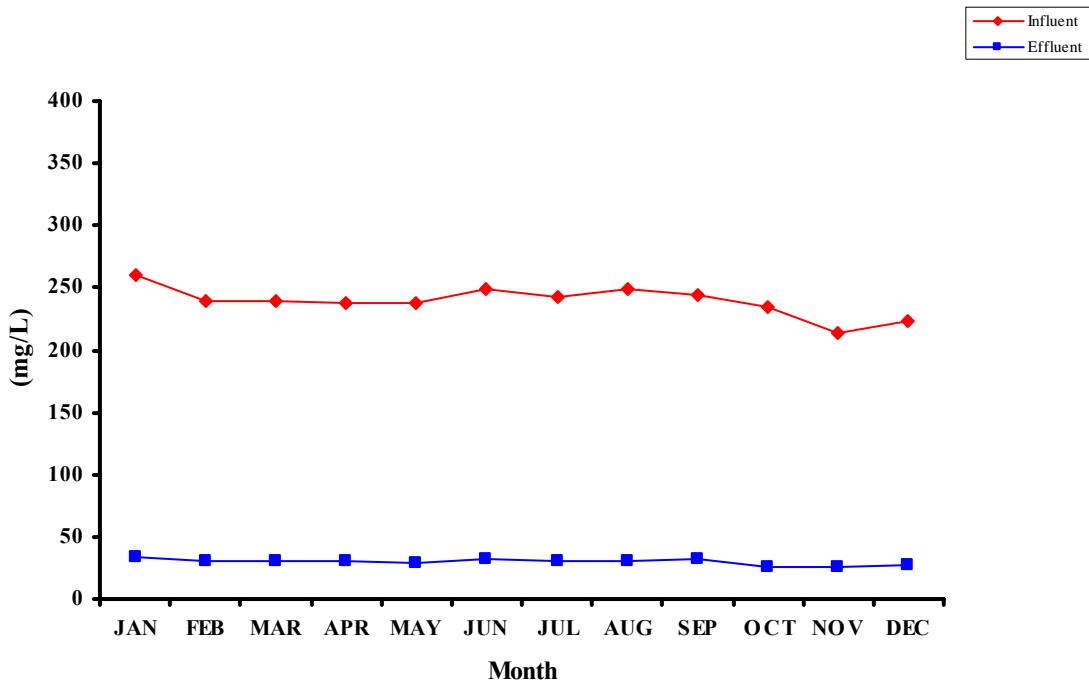
**PLWWTP Flows (mgd)  
2004 Monthly Averages**



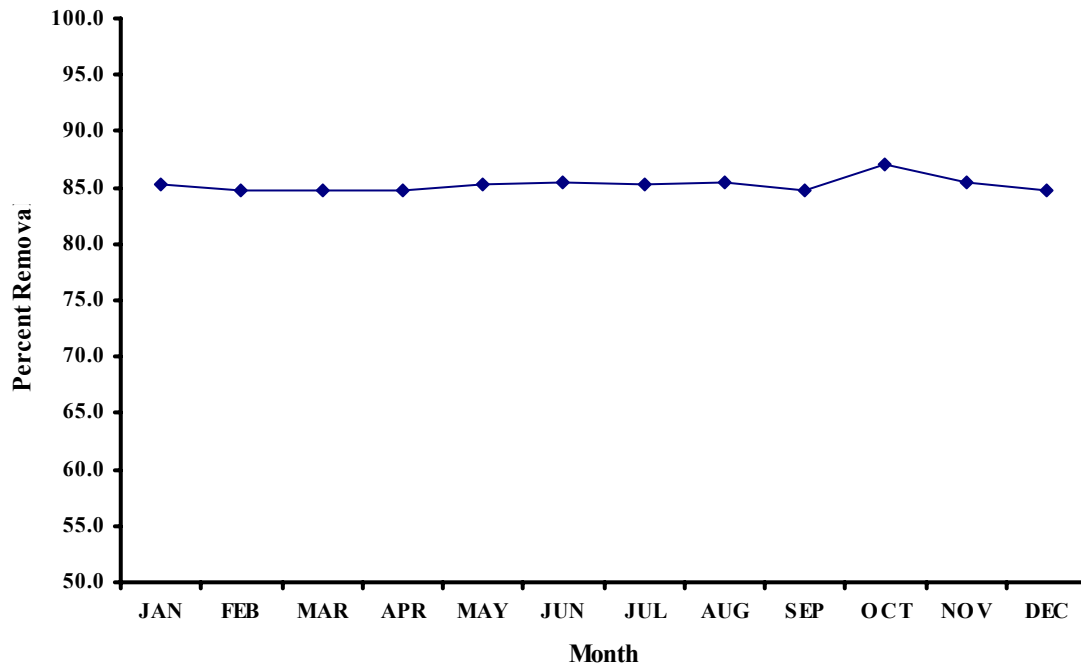
**Total Suspended Solids (mg/L)  
2004 Monthly Averages**



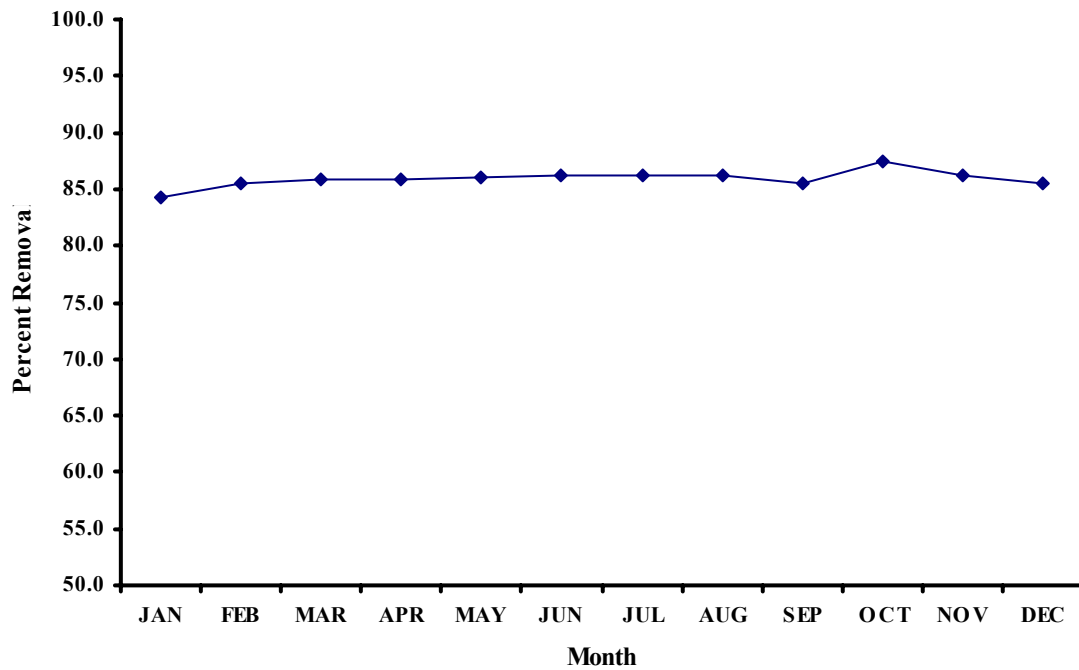
**Volatile Suspended Solids (mg/L)  
2004 Monthly Averages**



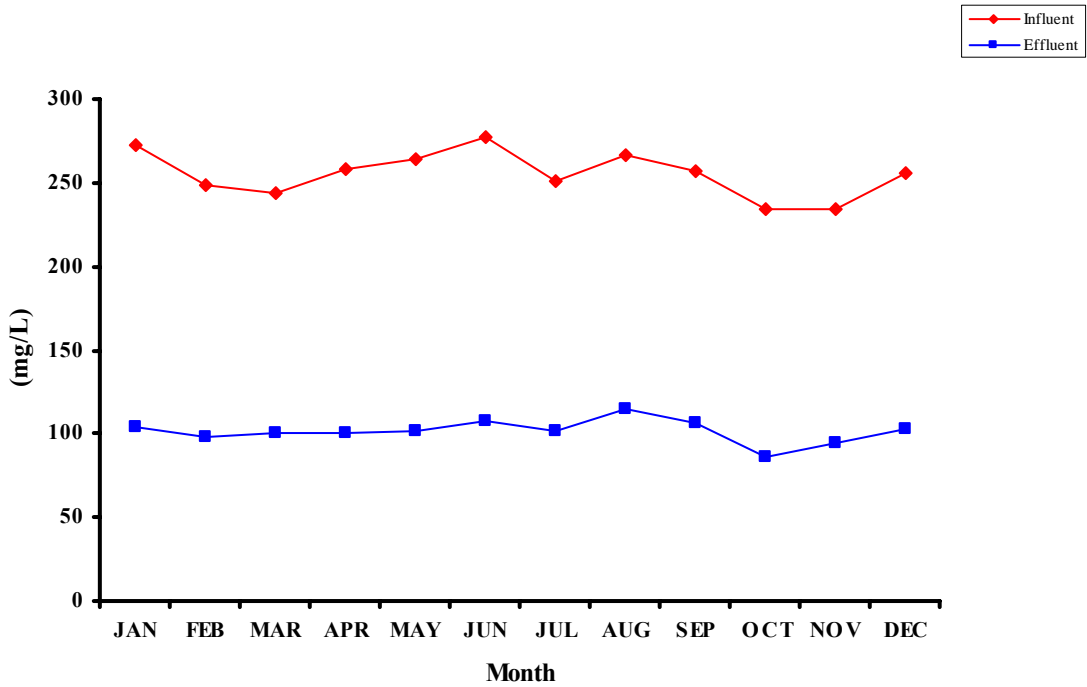
### Total Suspended Solids (%) Removal 2004 Monthly Averages at Point Loma



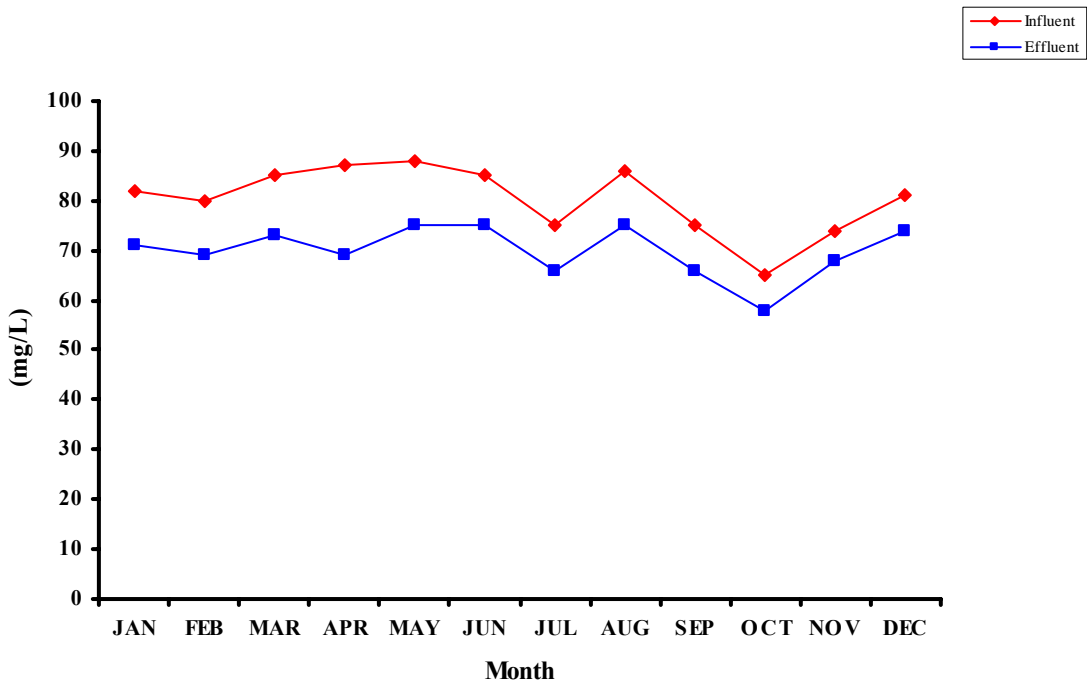
### Total Suspended Solids (%) Removal 2004 Monthly Averages Systemwide



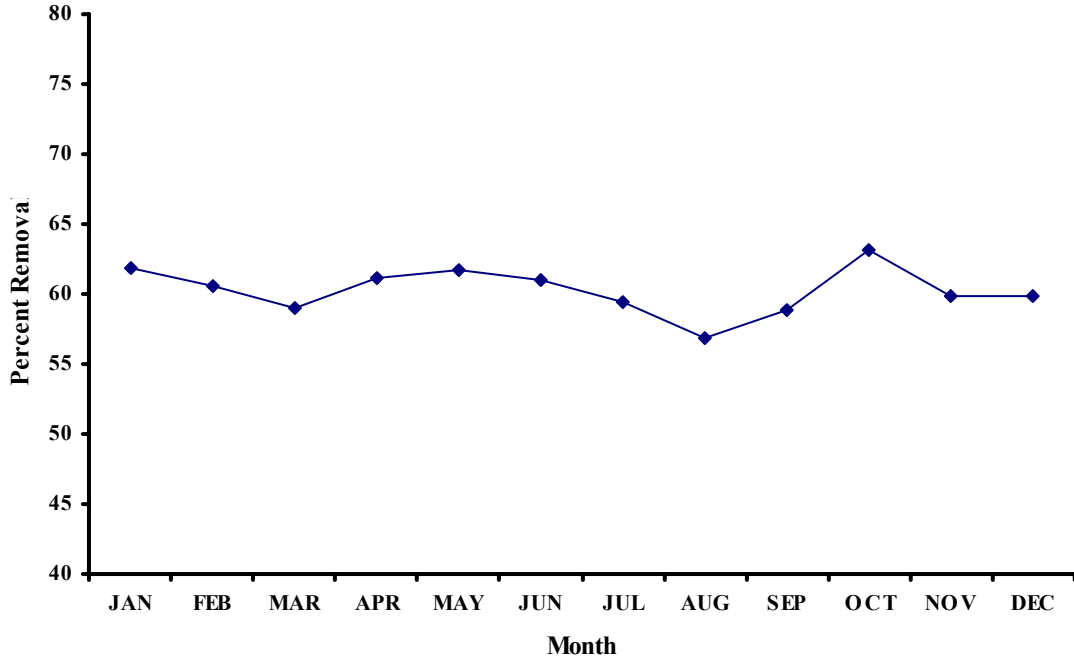
### Biochemical Oxygen Demand 2004 Monthly Averages



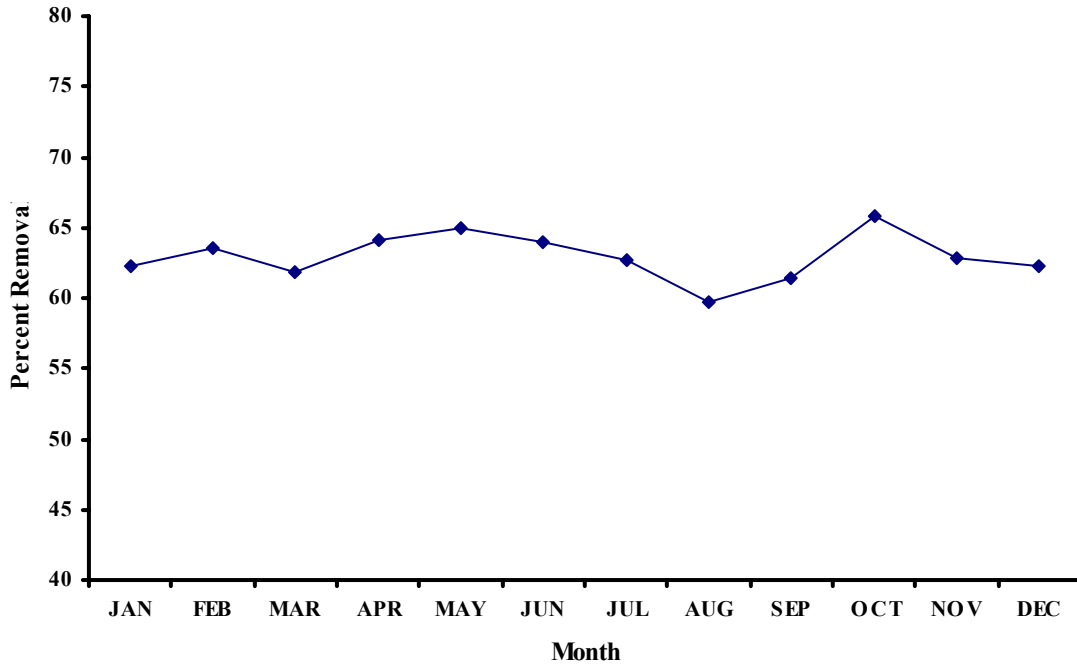
### Soluble Biochemical Oxygen Demand 2004 Monthly Averages



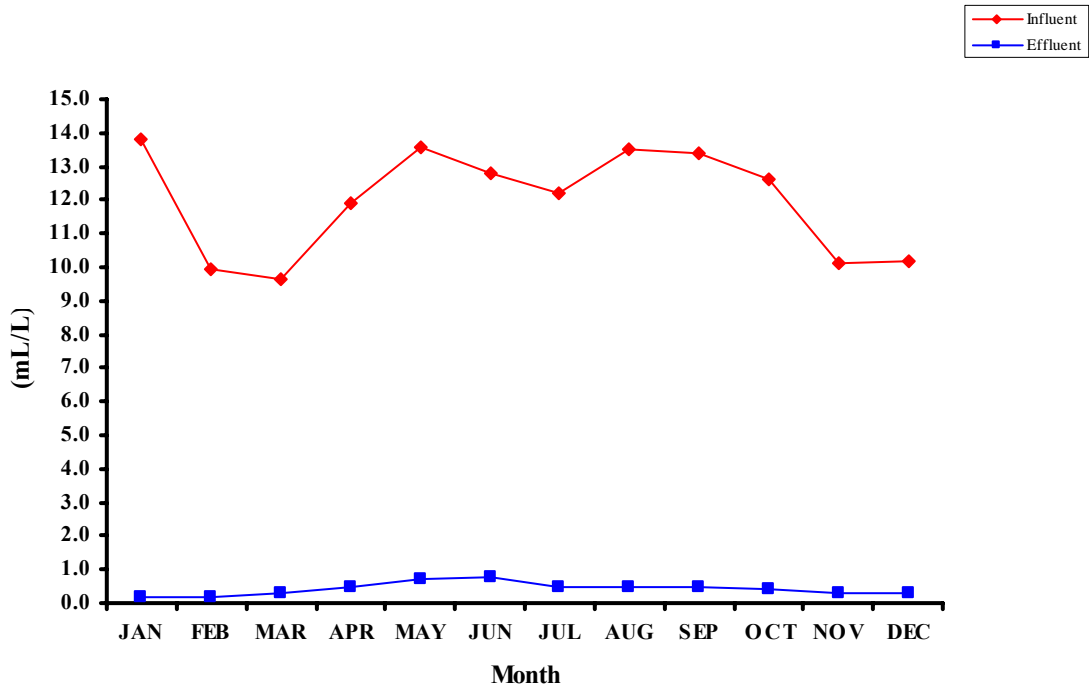
**Biochemical Oxygen Demand (%) Removal  
2004 Monthly Averages at Point Loma**



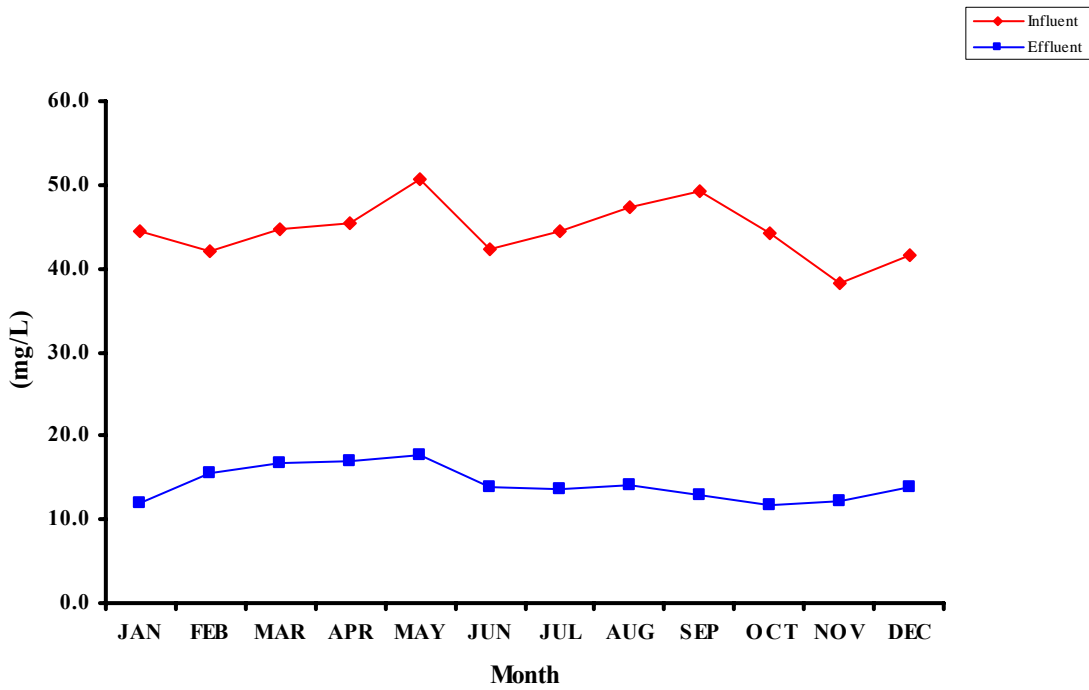
**Biochemical Oxygen Demand (%) Removal  
2004 Monthly Averages Systemwide**



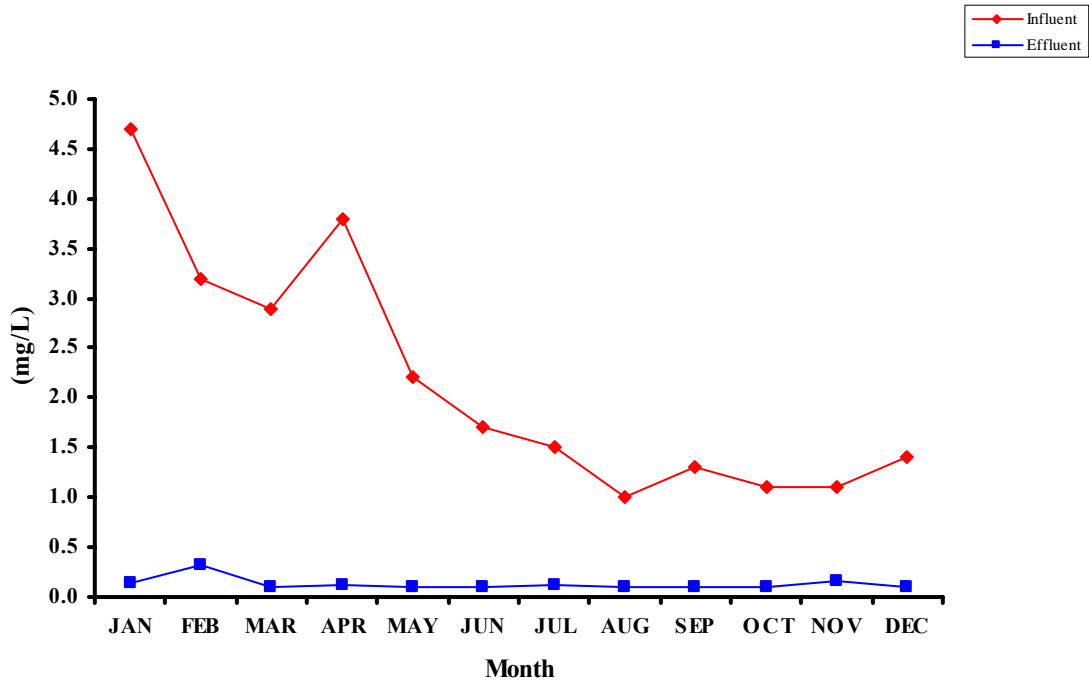
### Settleable Solids (mL/L) 2004 Monthly Averages



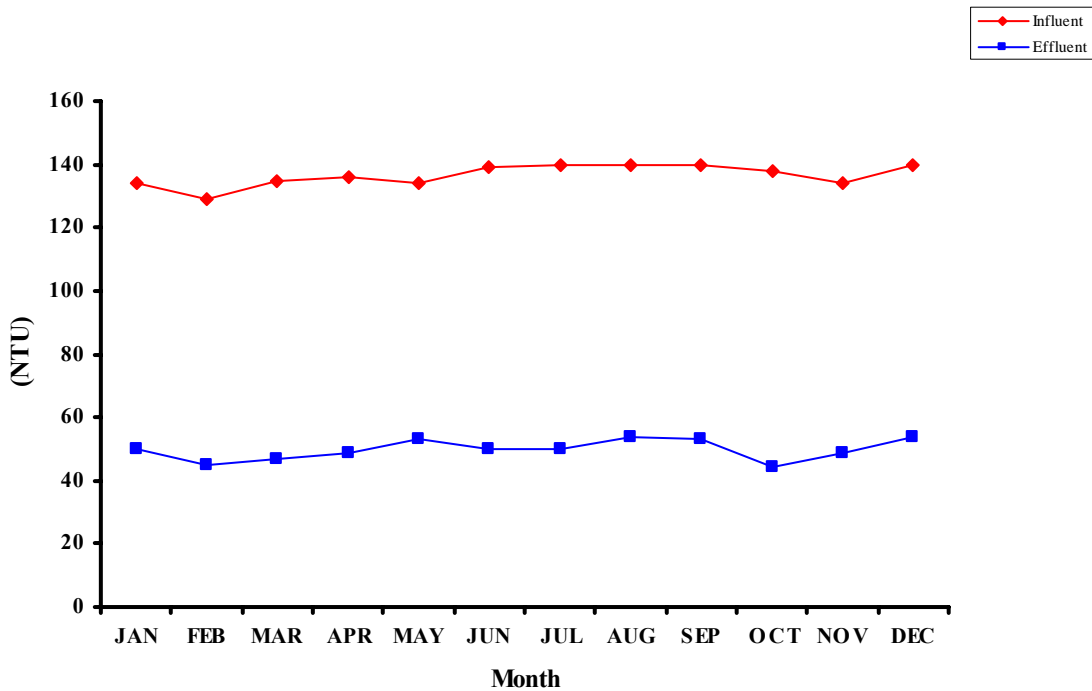
### Hexane Extractable Material (mg/L) 2004 Monthly Averages



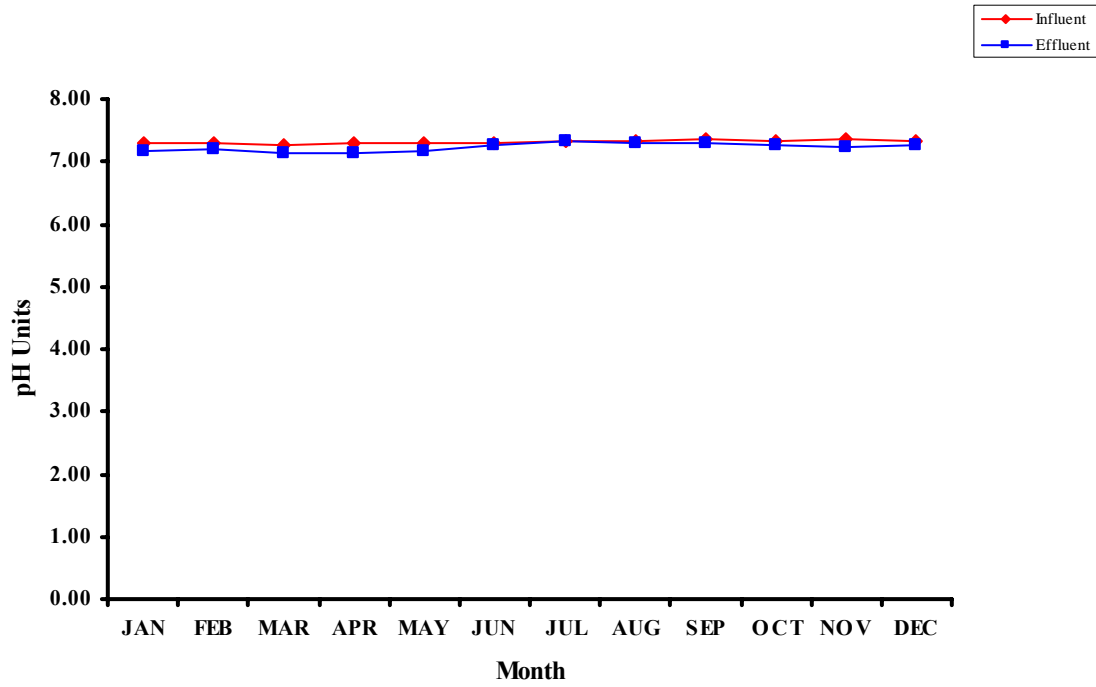
### Floatables (mg/L) 2004 Monthly Averages



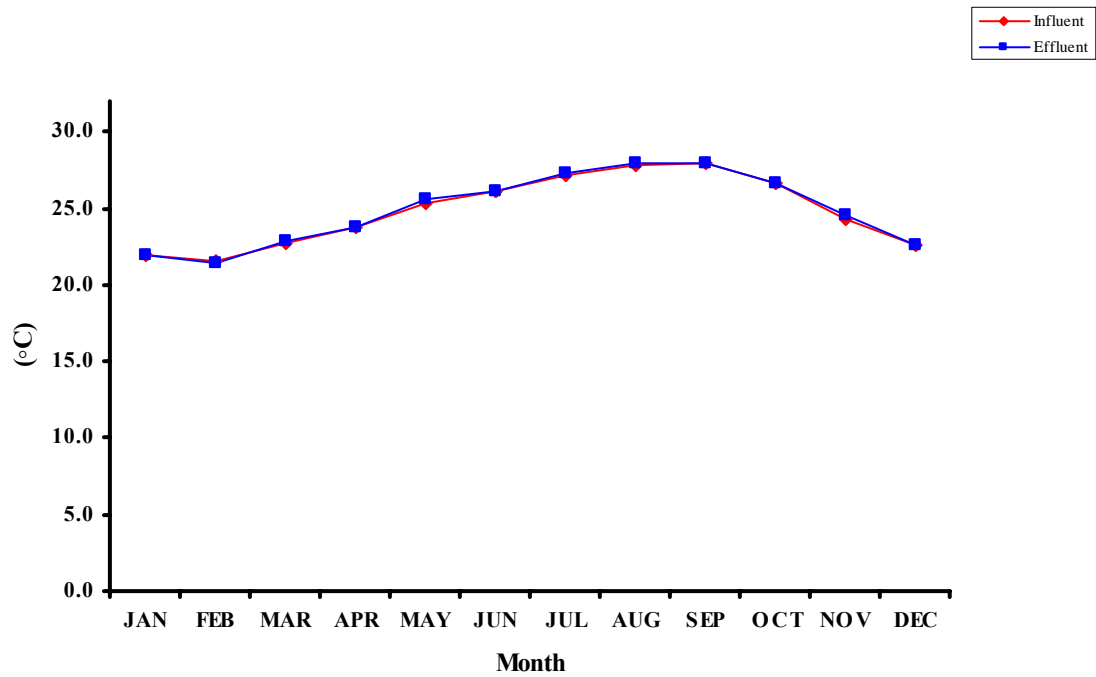
### Turbidity (NTU) 2004 Monthly Averages



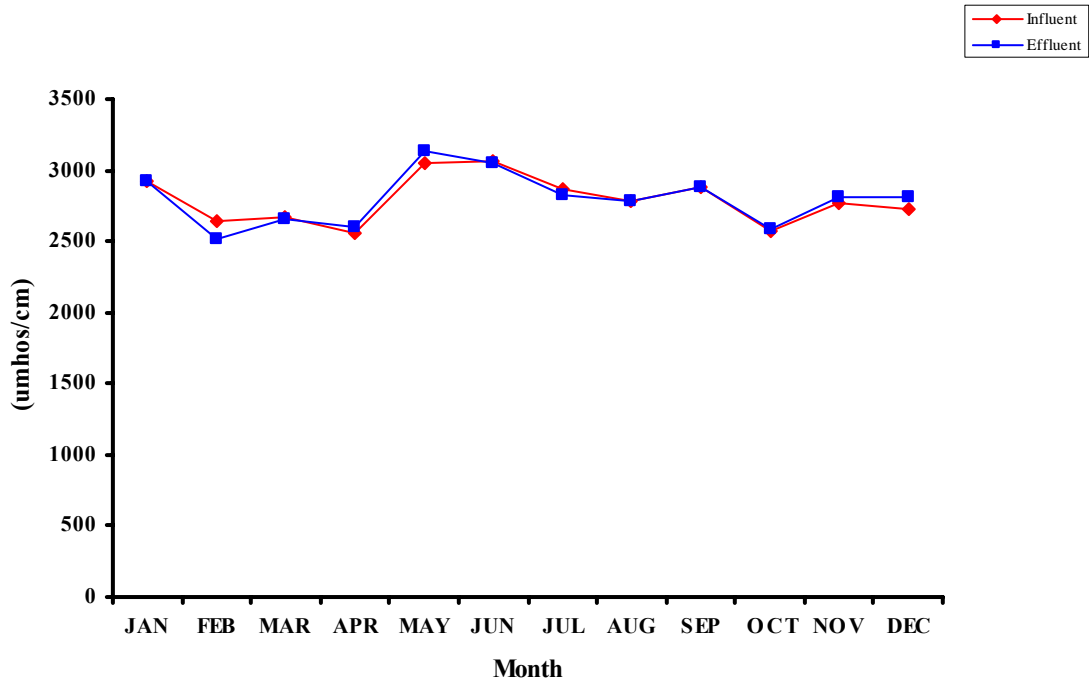
### pH 2004 Monthly Averages



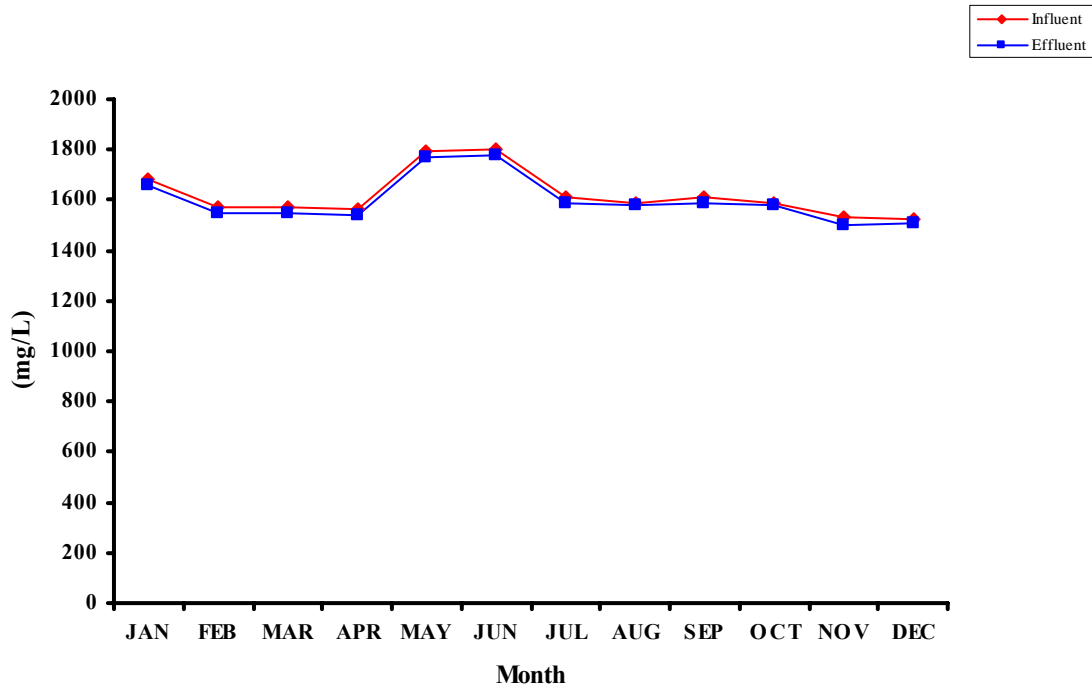
### Temperature (°C) 2004 Monthly Averages



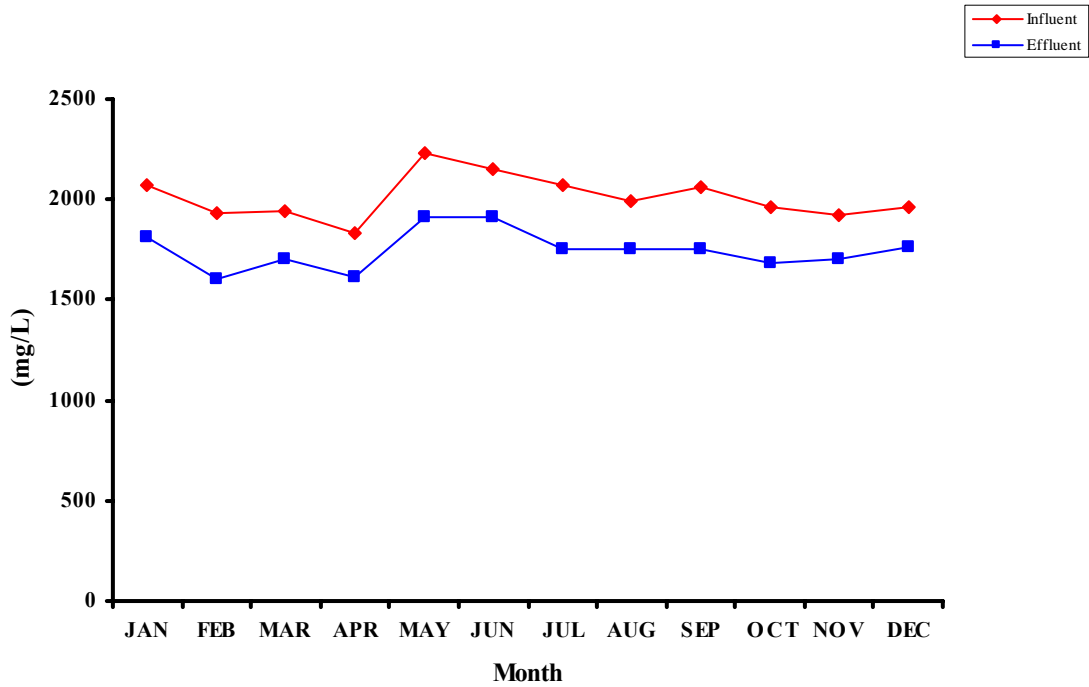
### Conductivity (umhos/cm) 2004 Monthly Averages



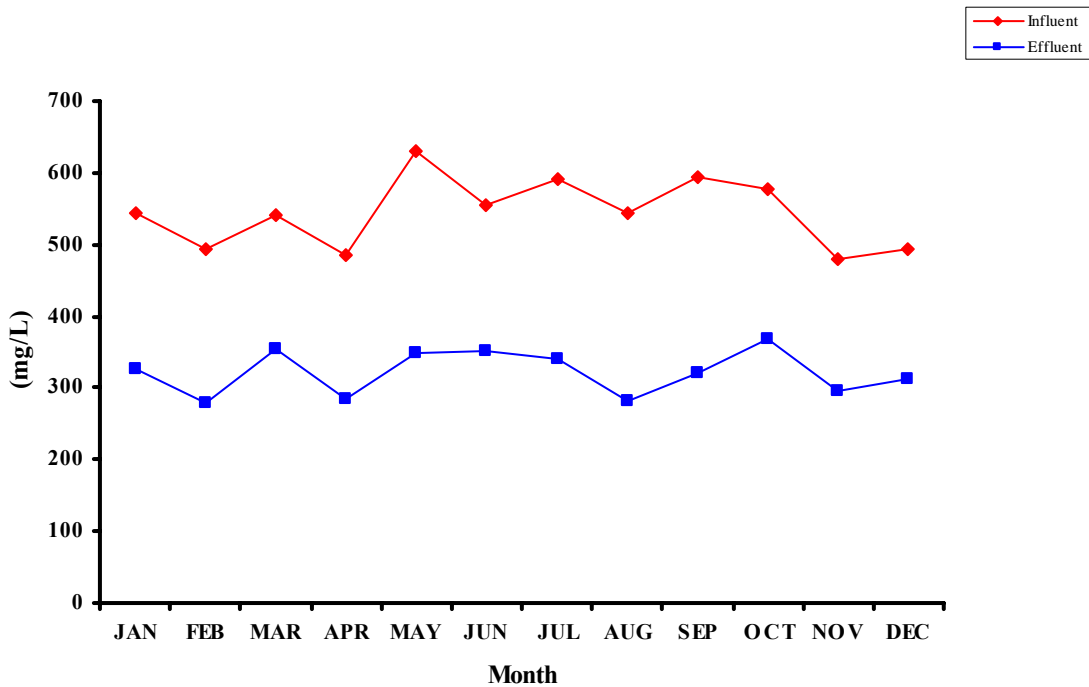
### Total Dissolved Solids (mg/L) 2004 Monthly Averages



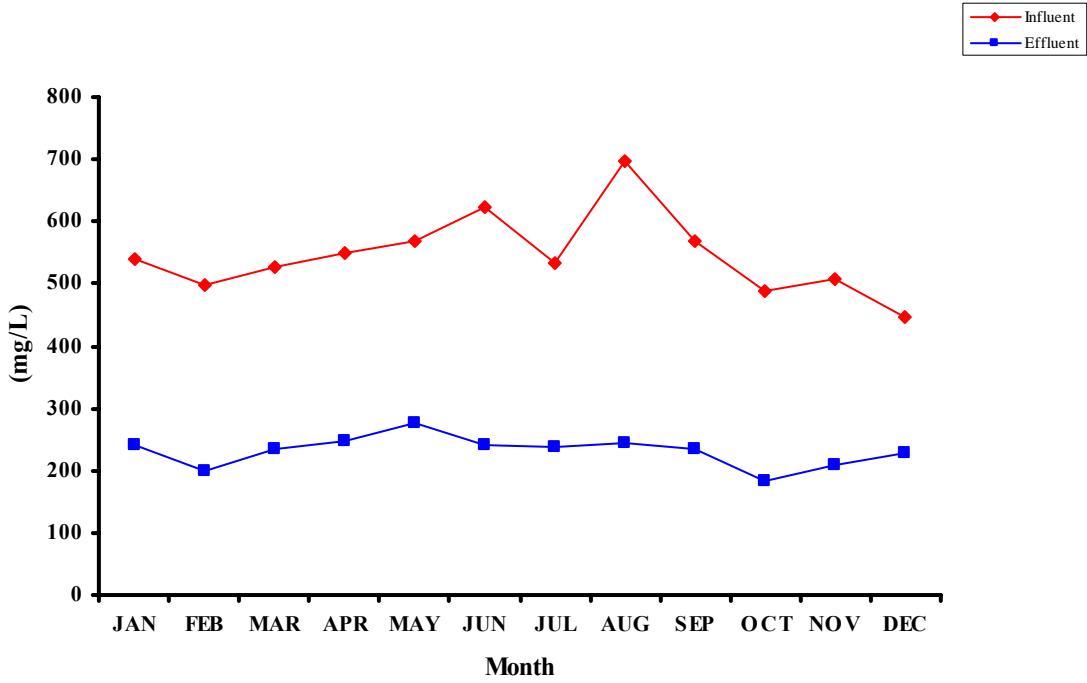
### Total Solids (mg/L) 2004 Monthly Averages



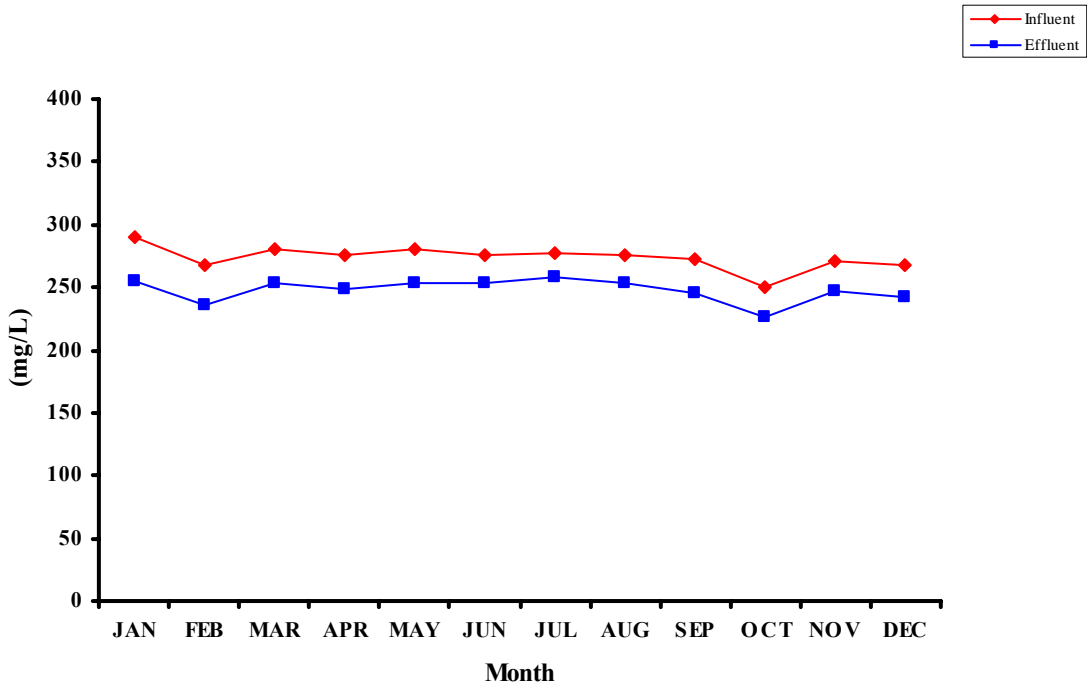
### Total Volatile Solids (mg/L) 2004 Monthly Averages



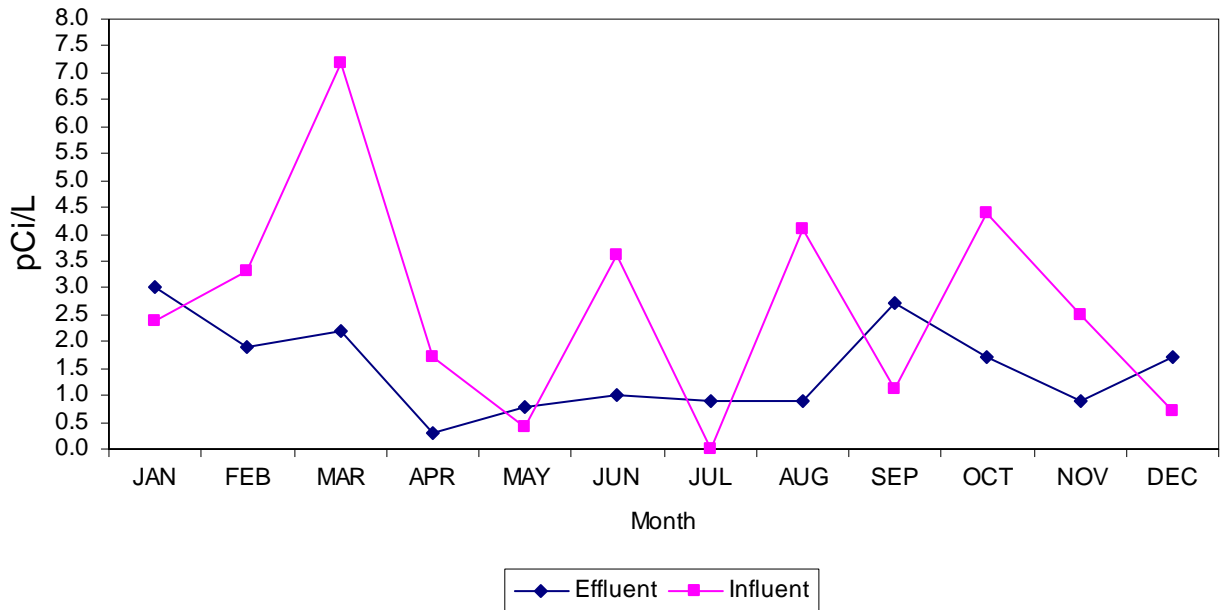
**Chemical Oxygen Demand (mg/L)  
2004 Monthly Averages**



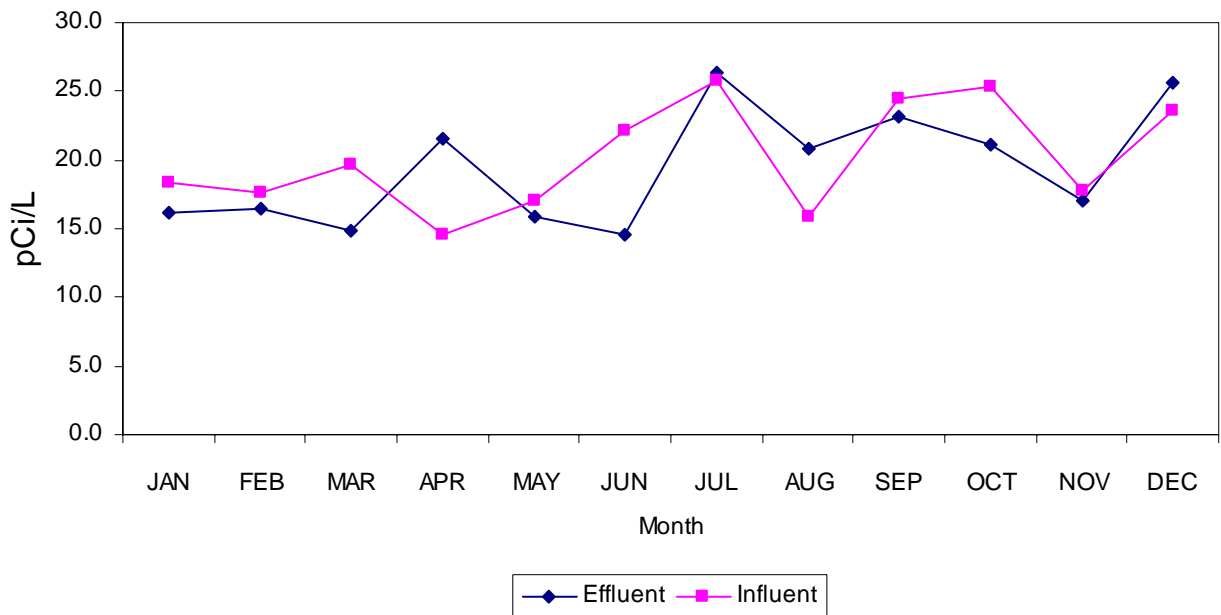
**Alkalinity (mg/L)  
2004 Monthly Averages**



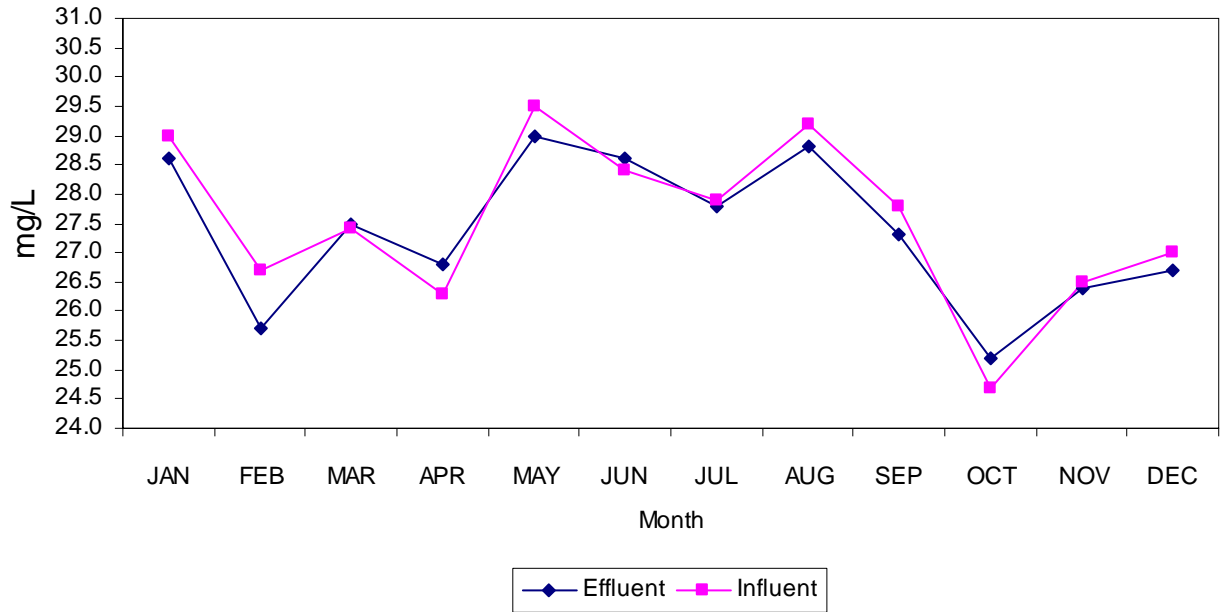
**Point Loma Wastewater Treatment Plant  
2004 Monthly Averages - Alpha Radiation**



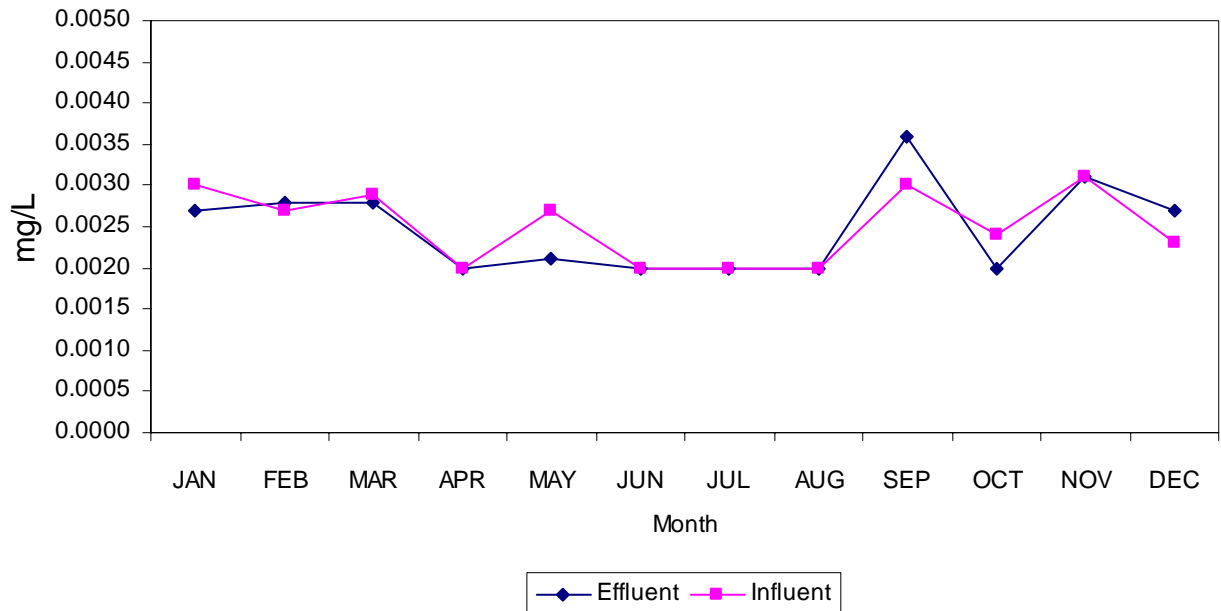
**Point Loma Wastewater Treatment Plant  
2004 Monthly Averages - Beta Radiation**



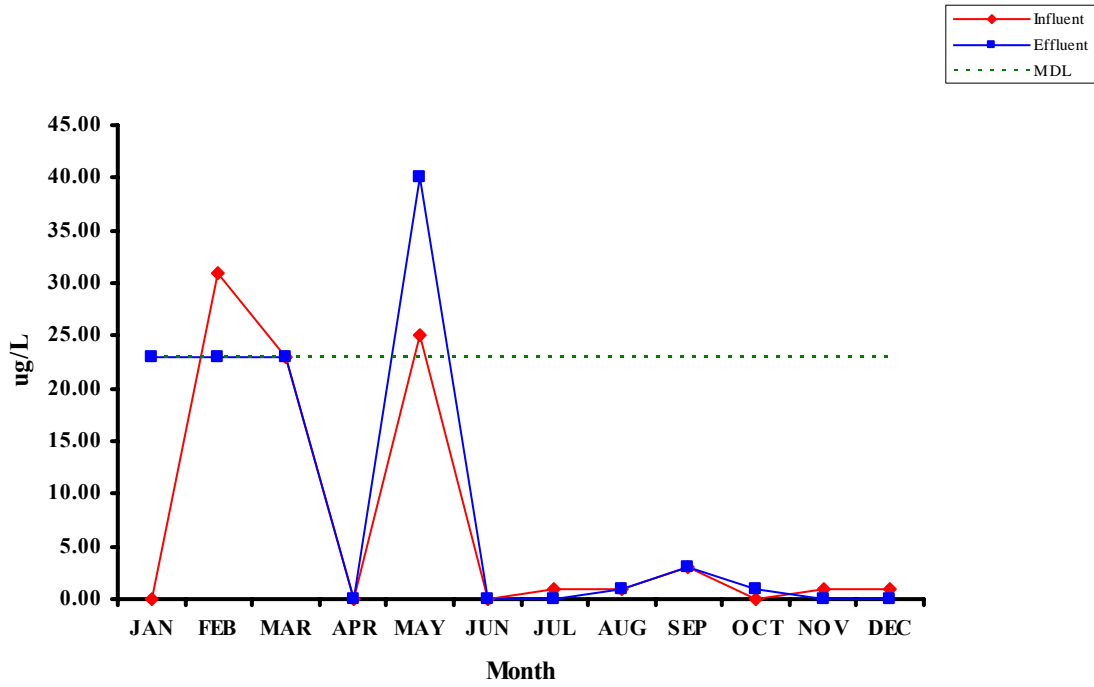
**Point Loma Wastewater Treatment Plant  
2004 Monthly Averages - Ammonia-N**



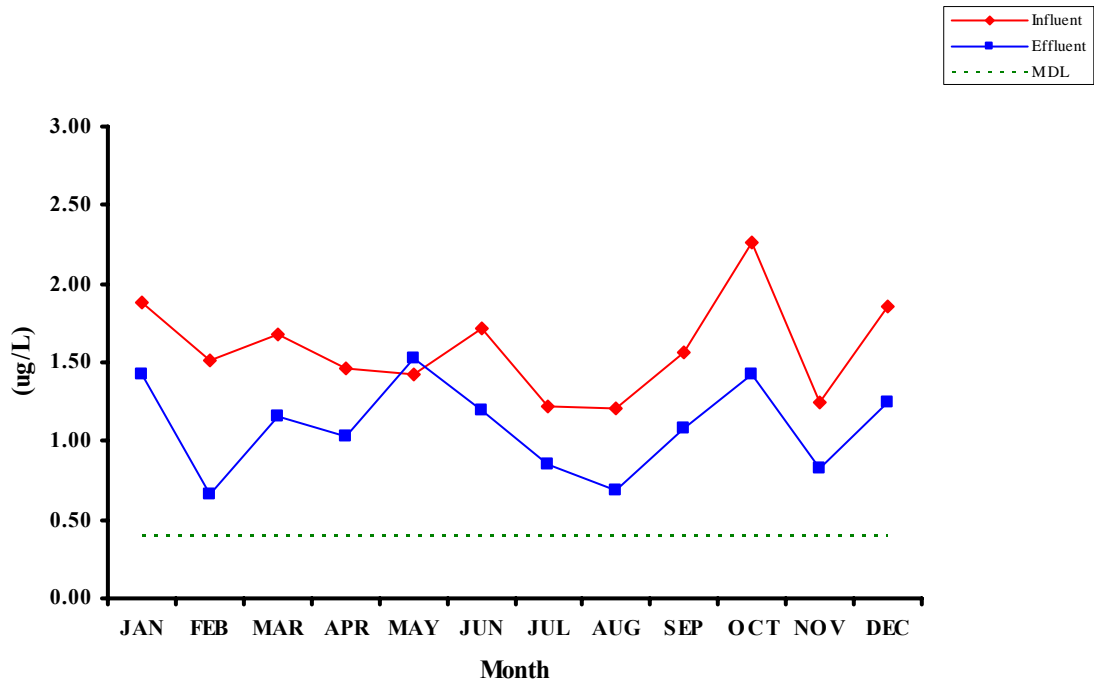
**Point Loma Wastewater Treatment Plant  
2004 Monthly Averages - Total Cyanides**



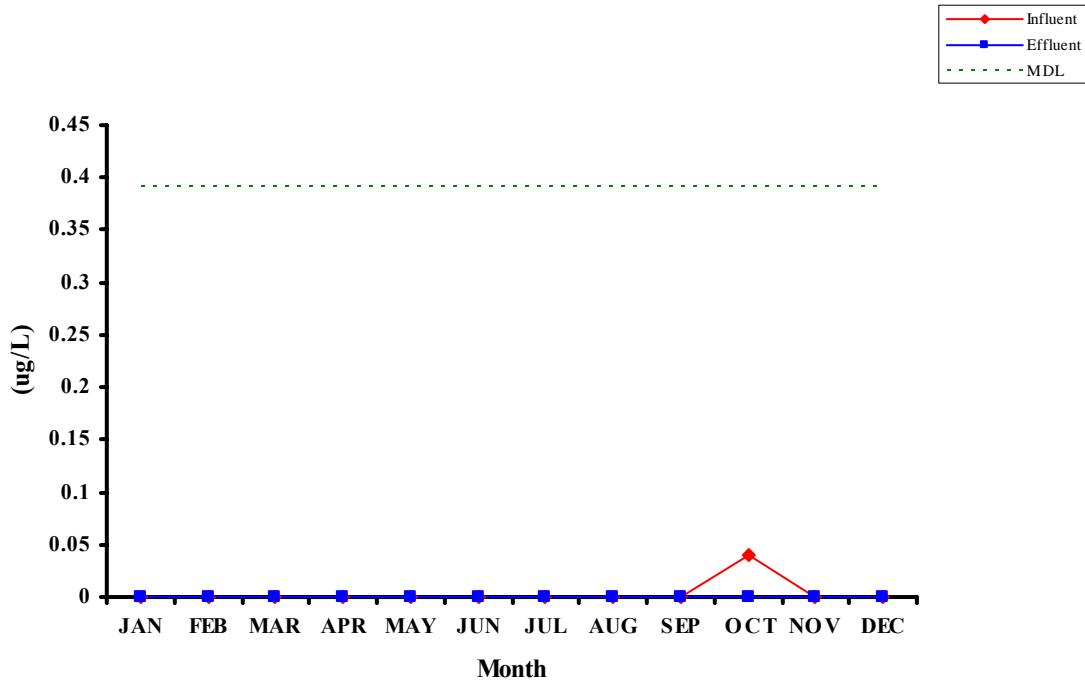
### Antimony 2004 Monthly Averages



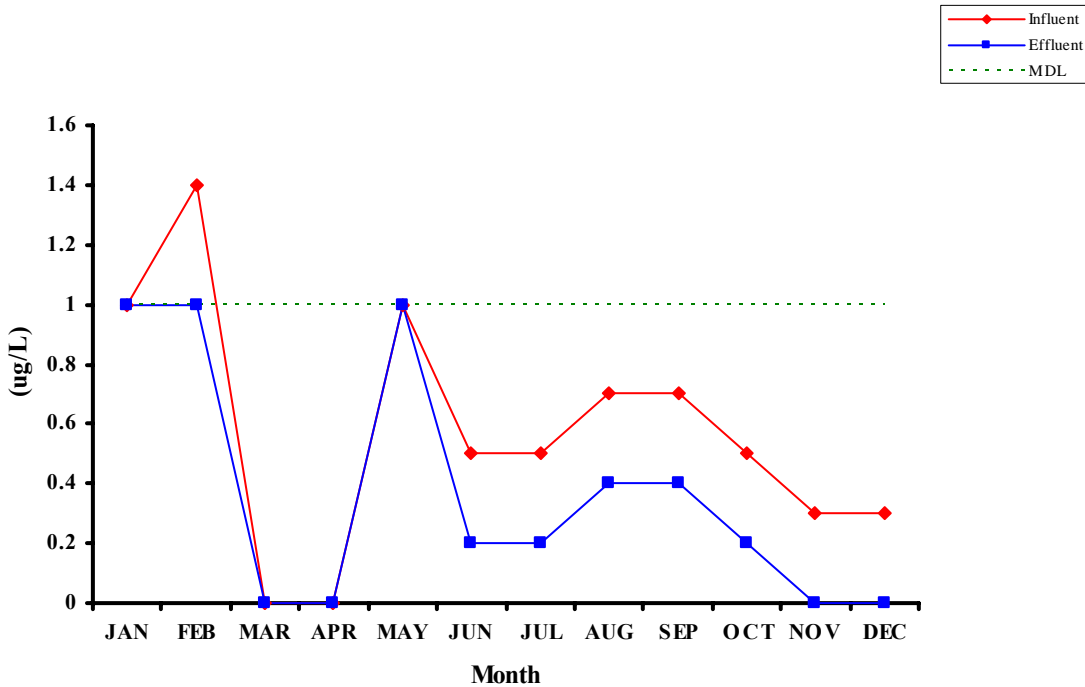
### Arsenic 2004 Monthly Averages



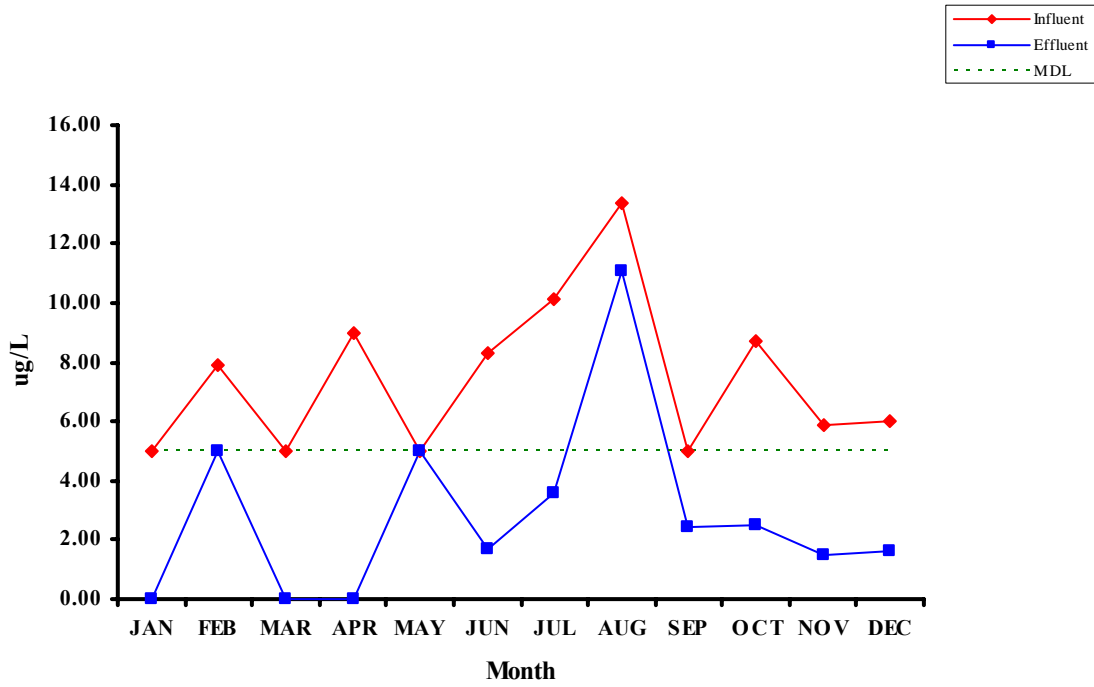
## Beryllium 2004 Monthly Averages



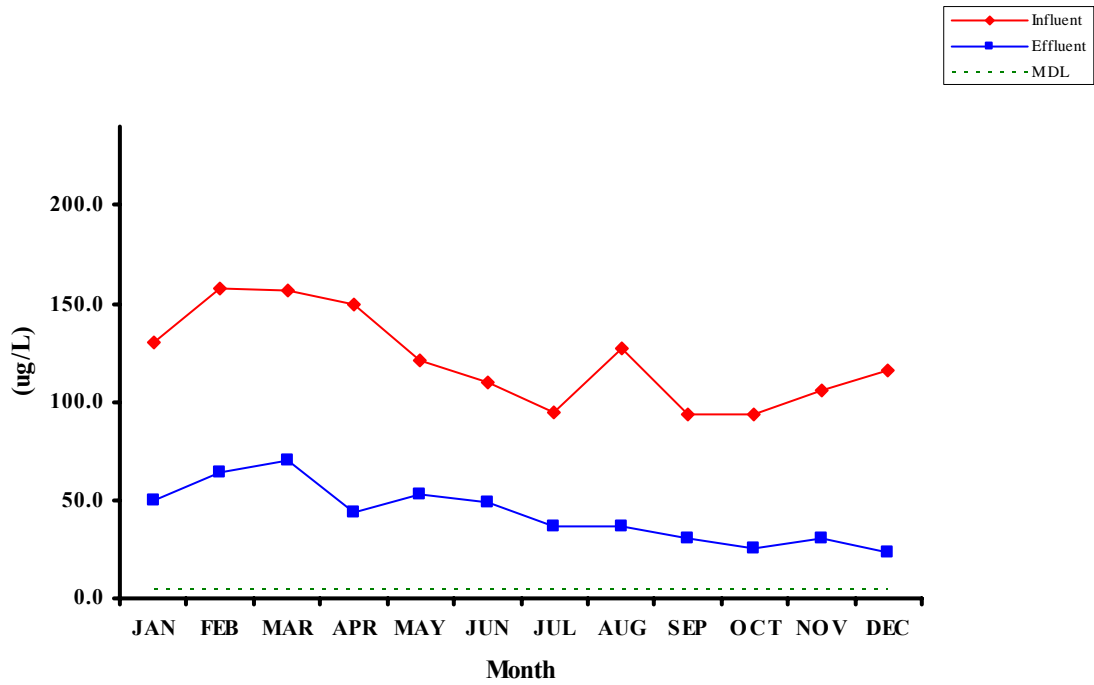
## Cadmium 2004 Monthly Averages



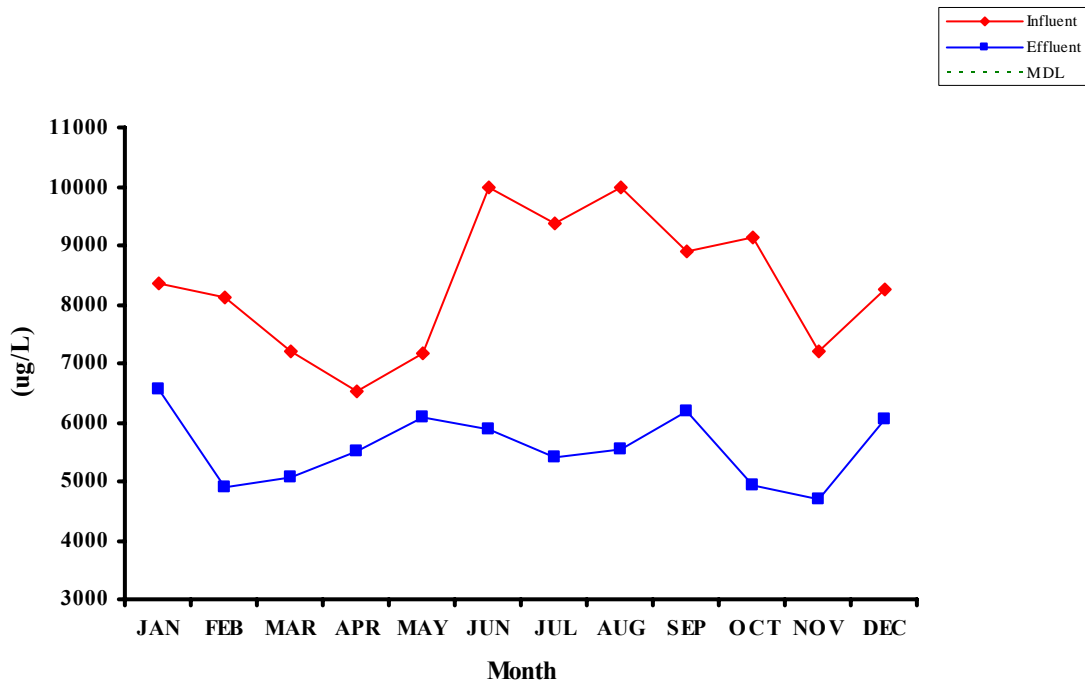
### Chromium 2004 Monthly Averages



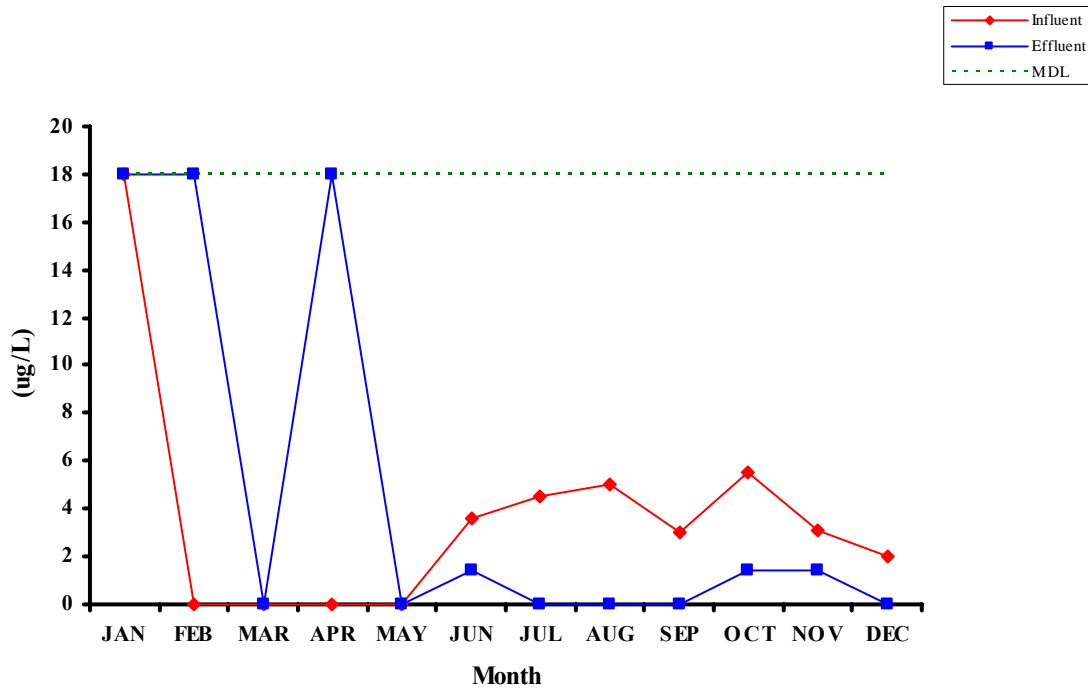
### Copper 2004 Monthly Averages



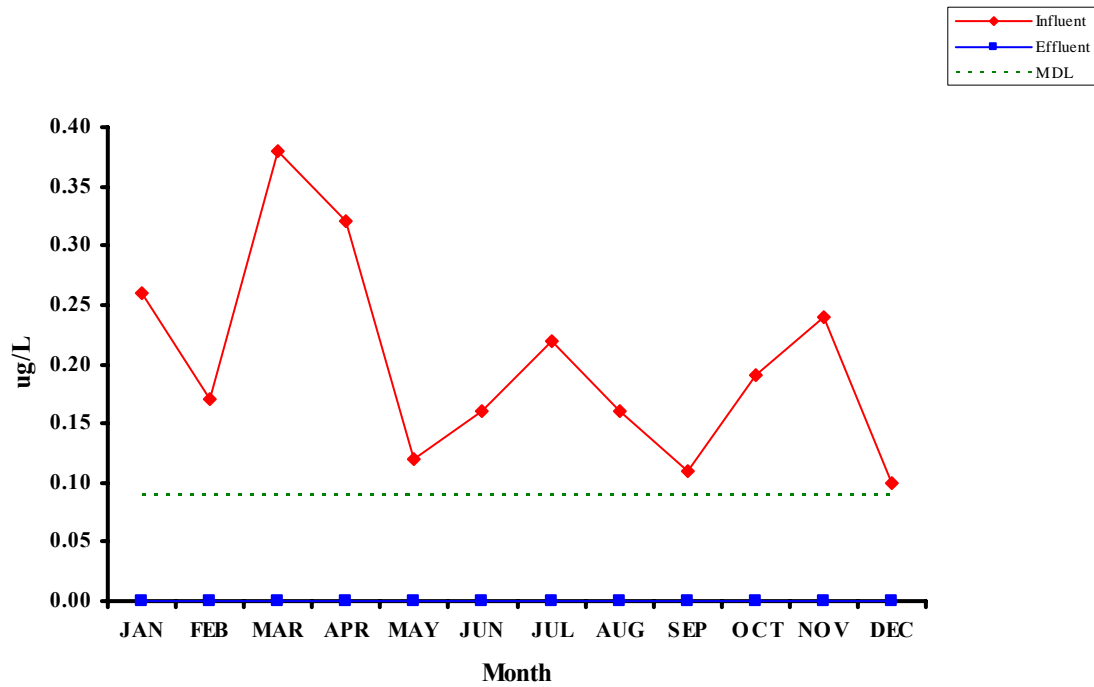
### Iron 2004 Monthly Averages



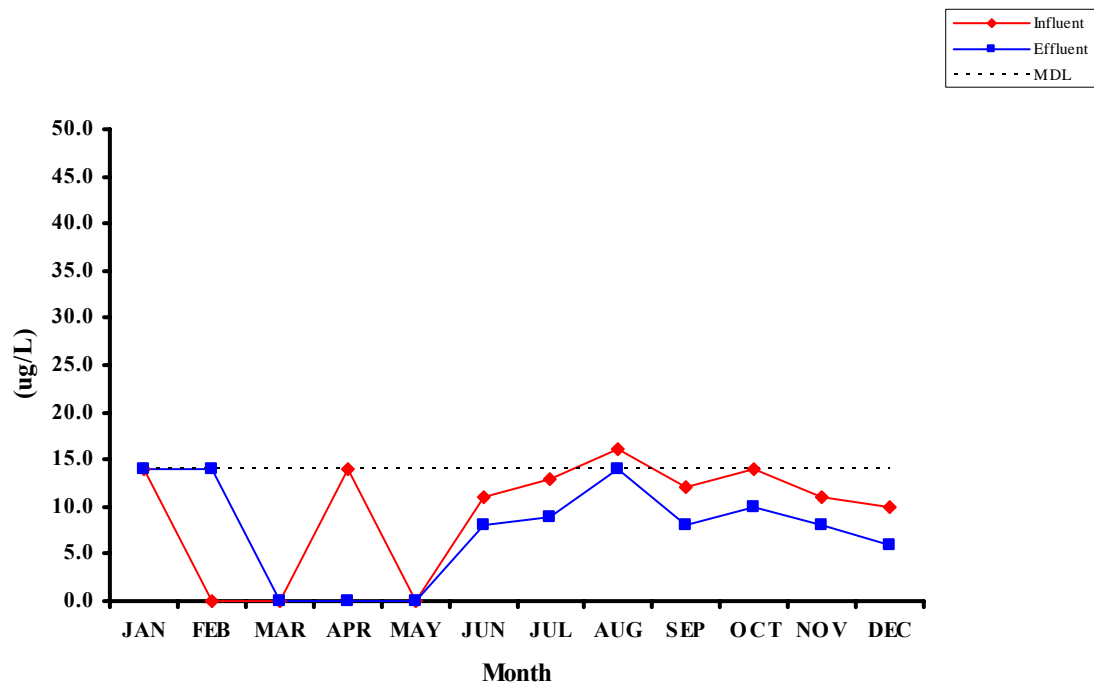
### Lead 2004 Monthly Averages



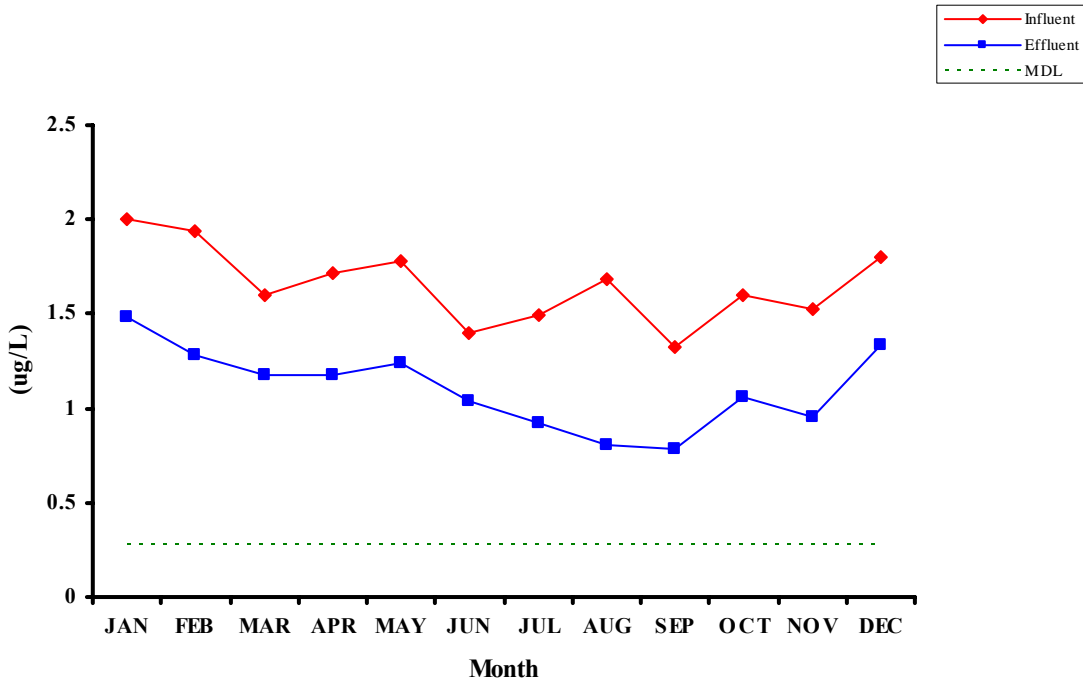
### Mercury 2004 Monthly Averages



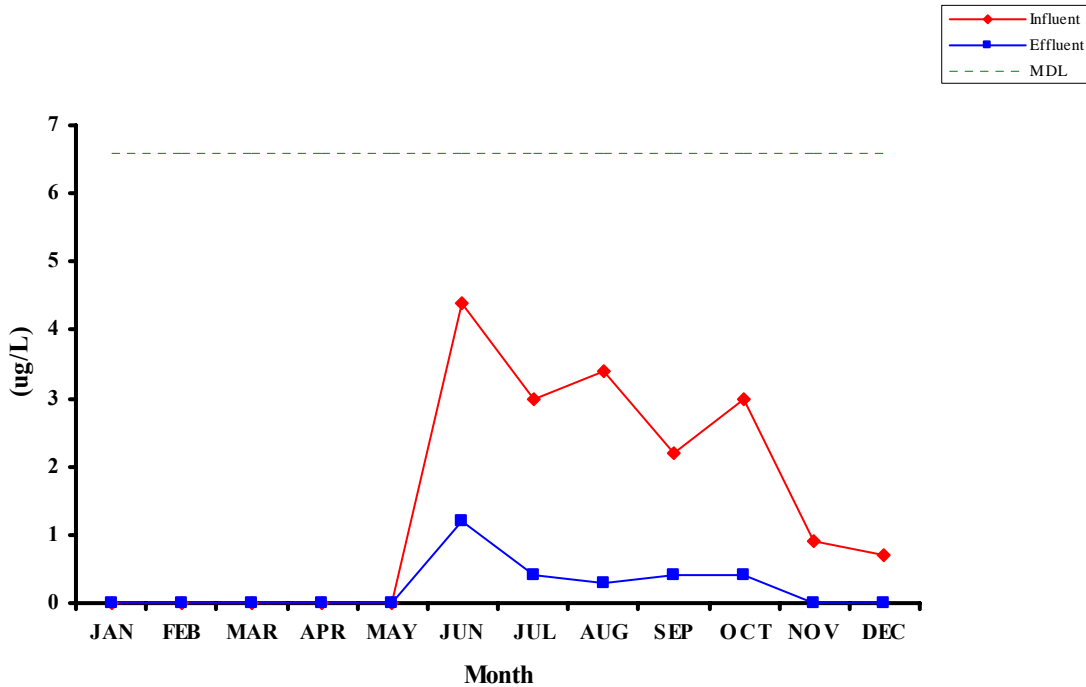
### Nickel 2004 Monthly Averages



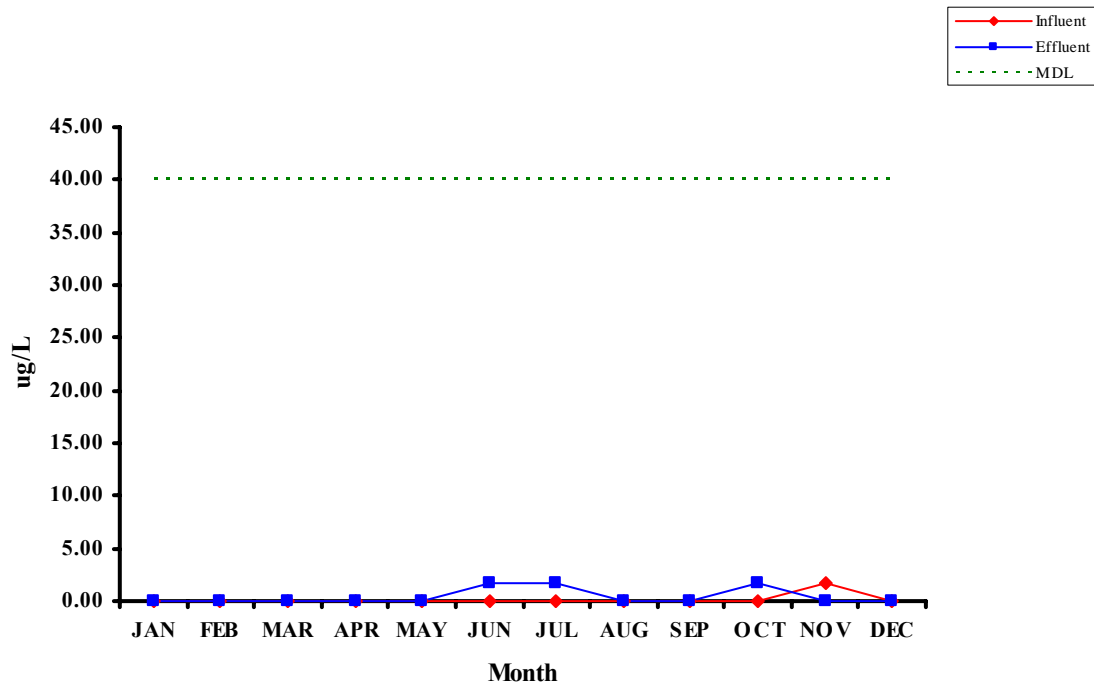
### Selenium 2004 Monthly Averages



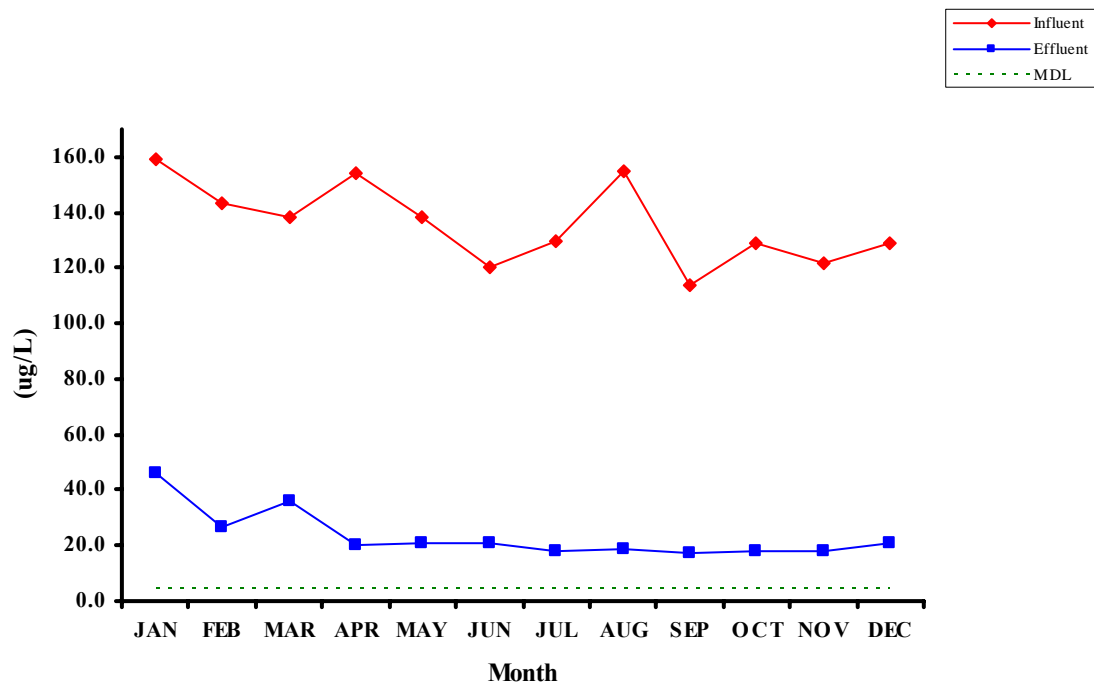
### Silver 2004 Monthly Averages



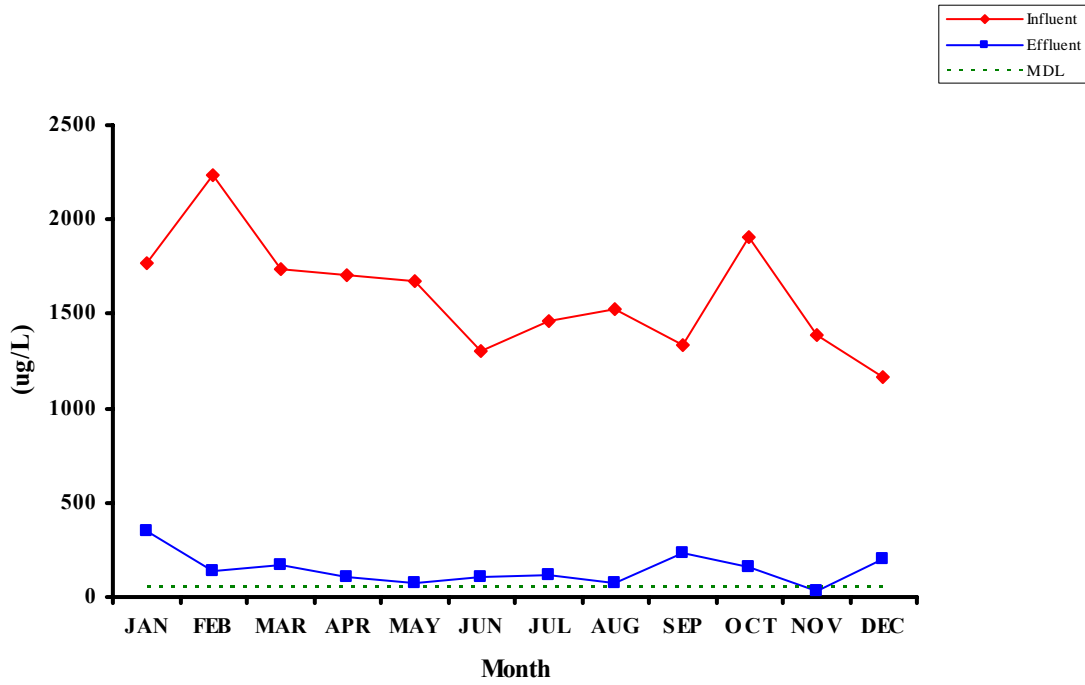
## Thallium 2004 Monthly Averages



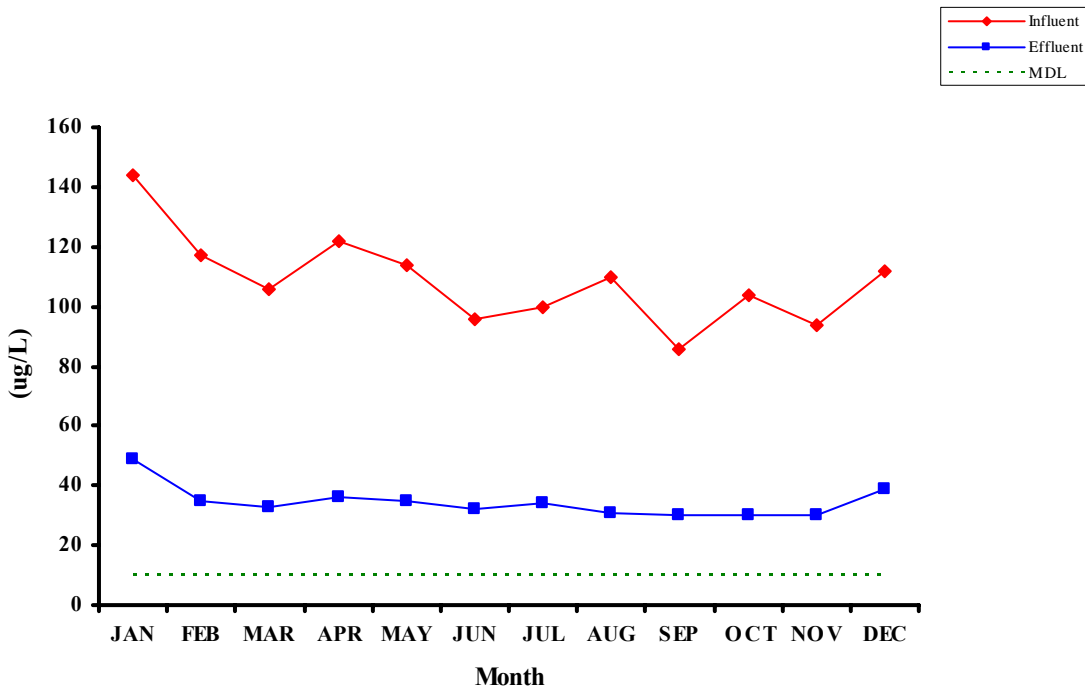
## Zinc 2004 Monthly Averages



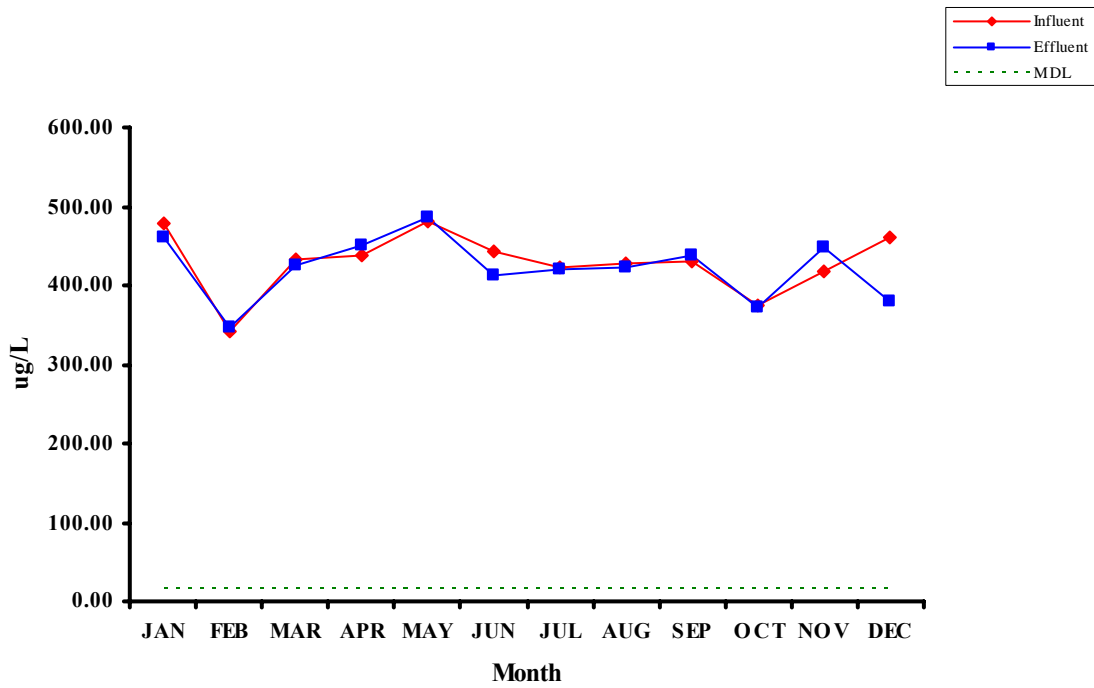
### Aluminum 2004 Monthly Averages



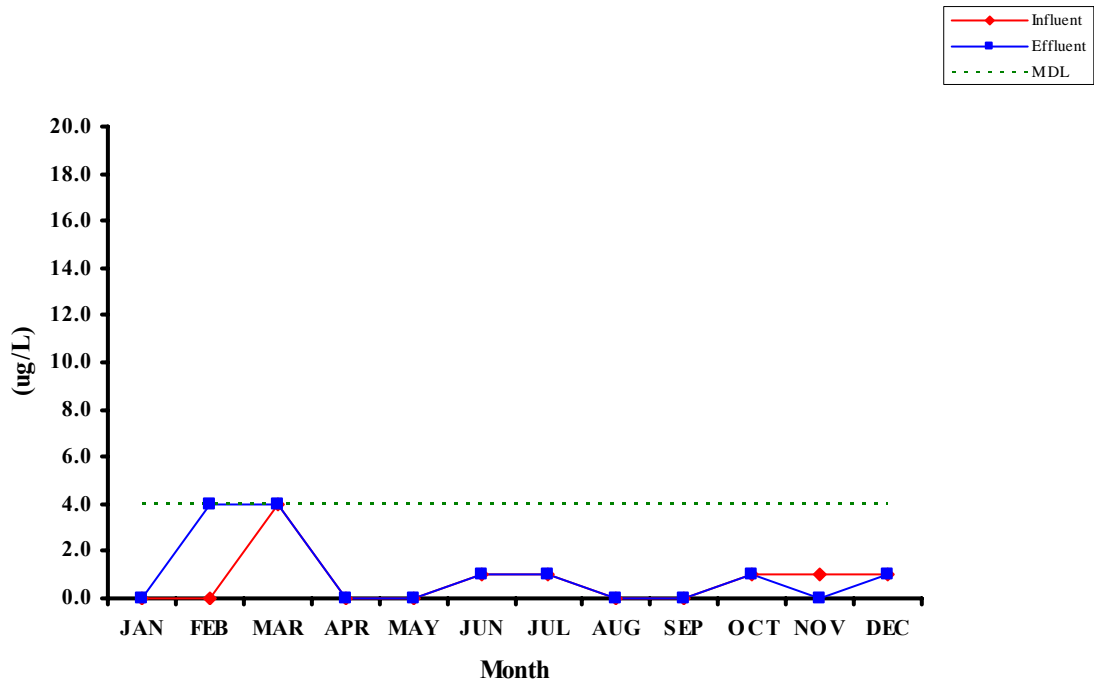
### Barium 2004 Monthly Averages



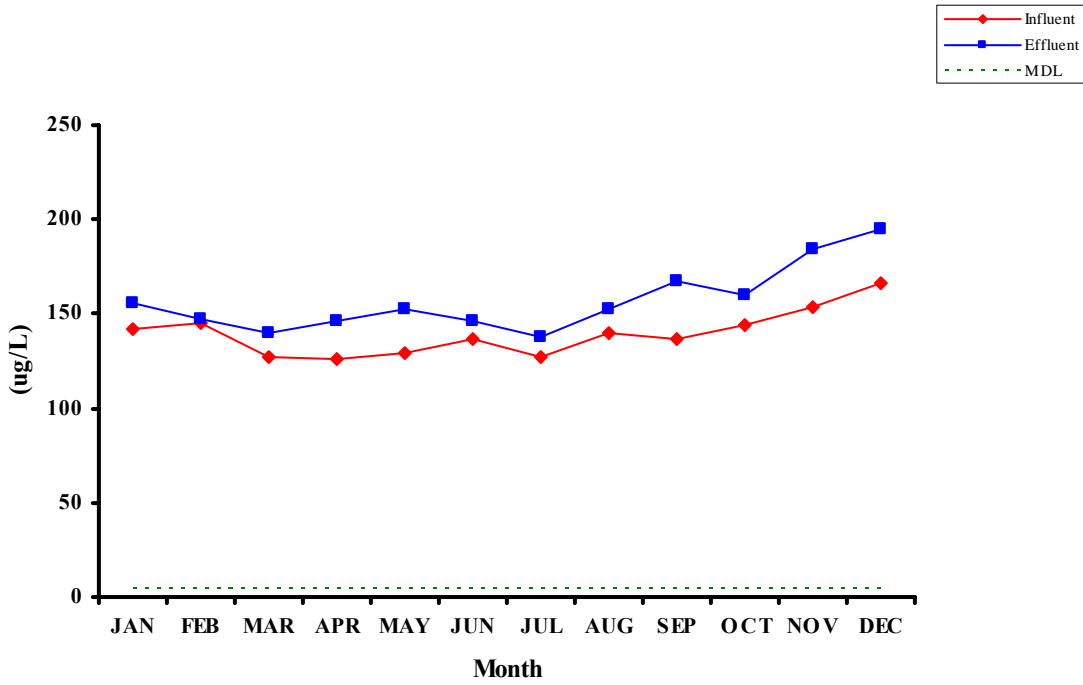
### Boron 2004 Monthly Averages



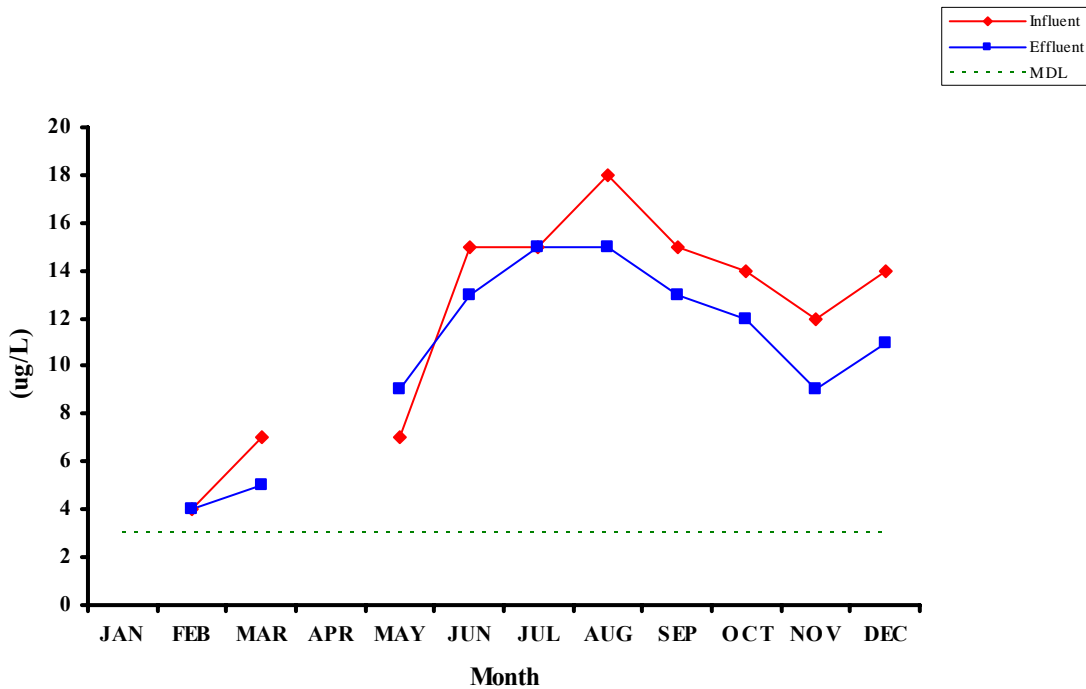
### Cobalt 2004 Monthly Averages



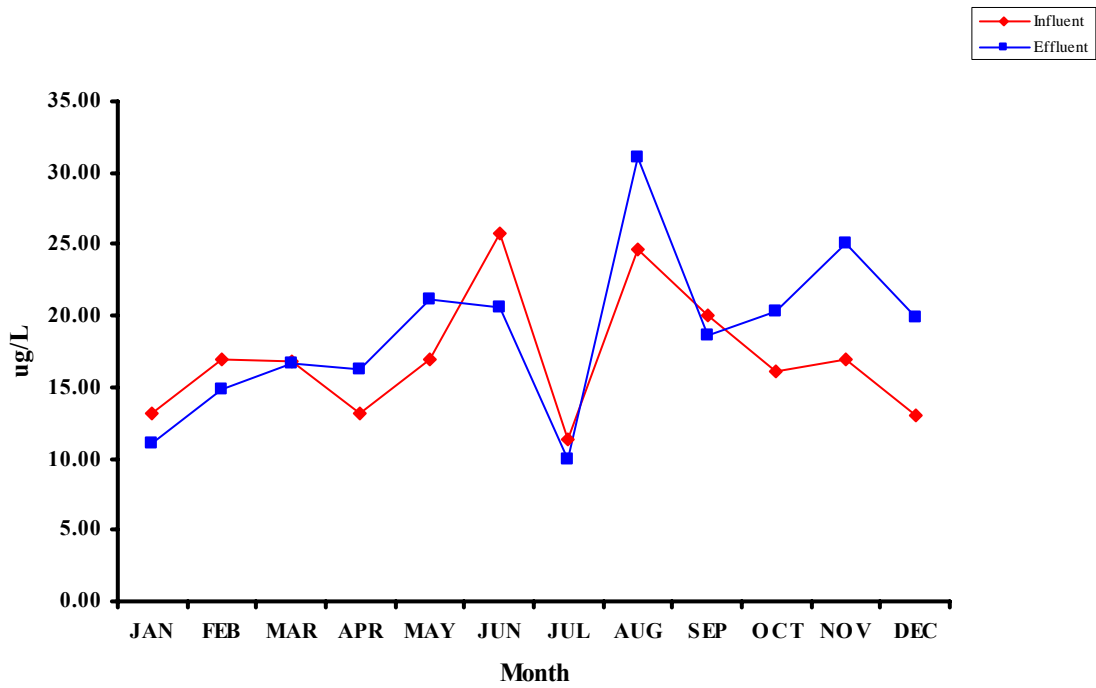
## Manganese 2004 Monthly Averages



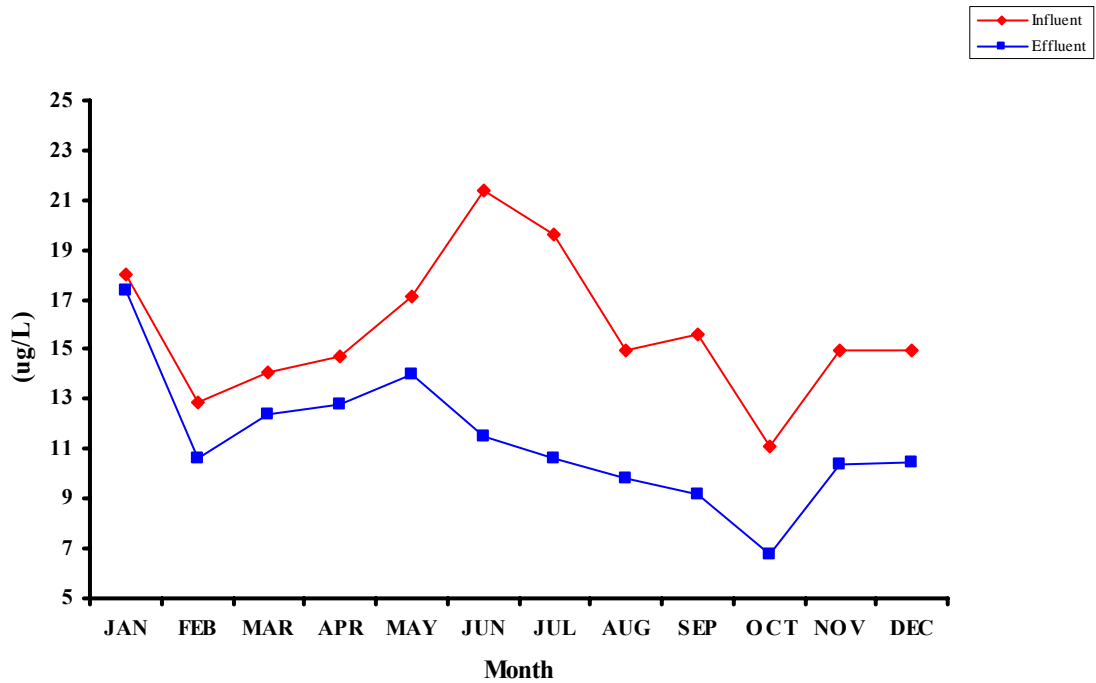
## Molybdeum 2004 Monthly Averages



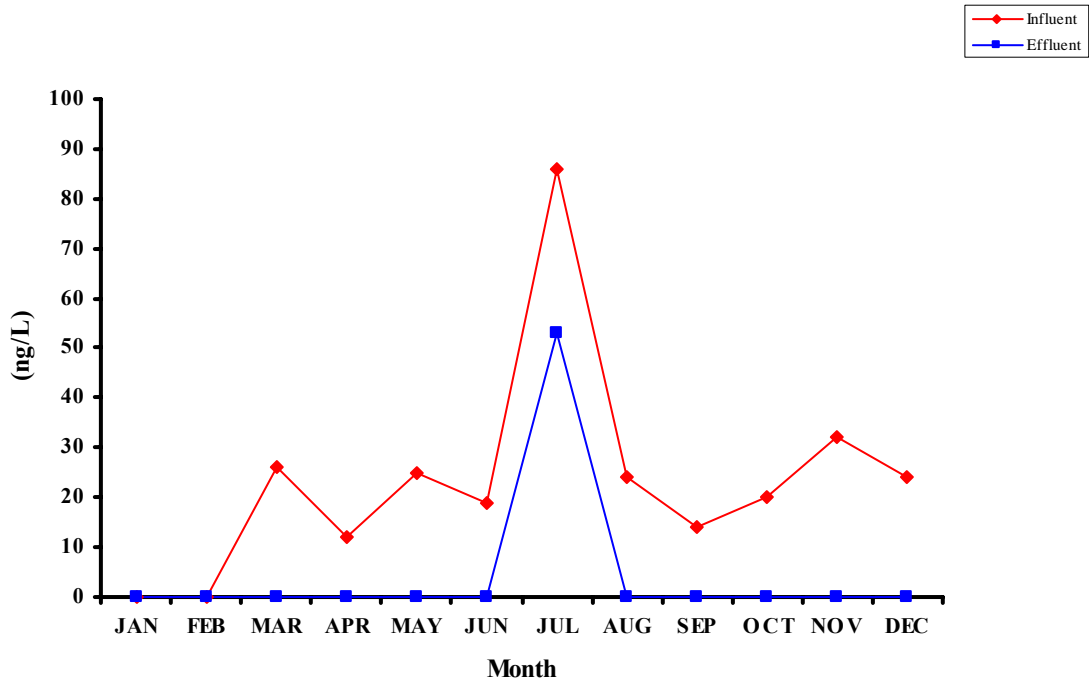
### Purgeables 2004 Monthly Averages



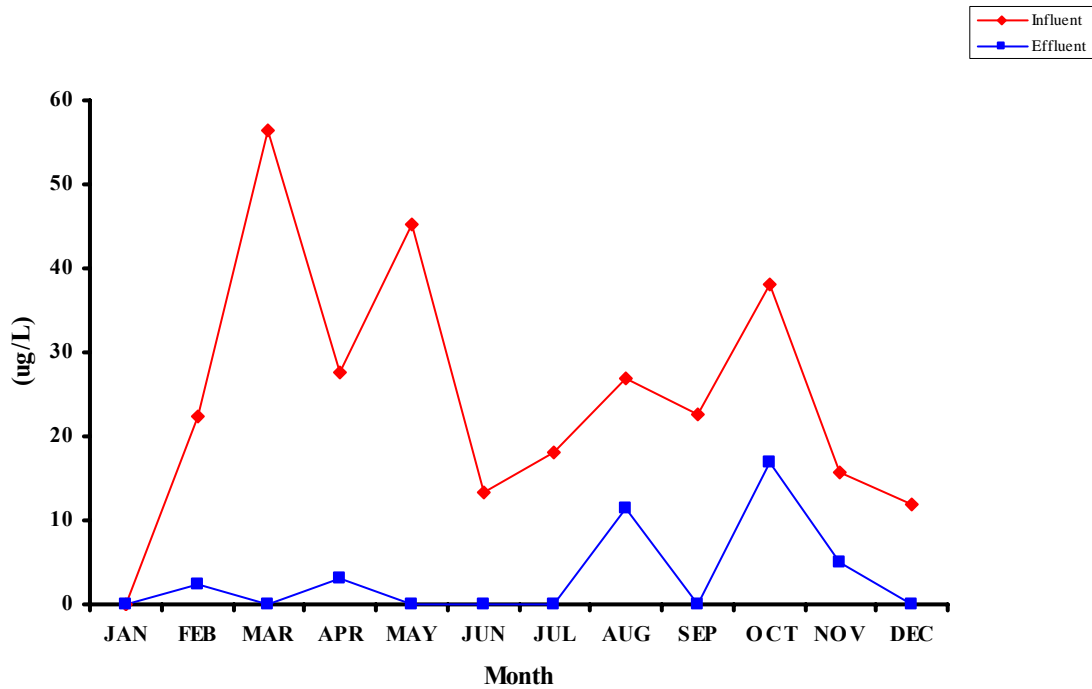
### Phenols 2004 Monthly Averages



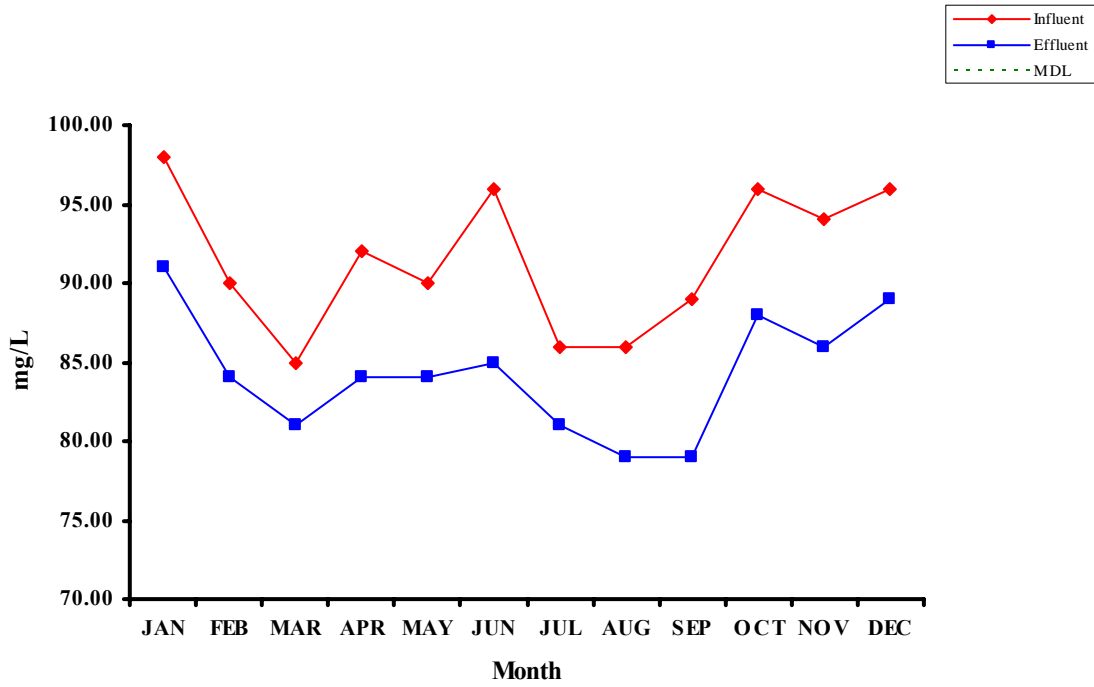
### Total Chlorinated Hydrocarbons 2004 Monthly Averages



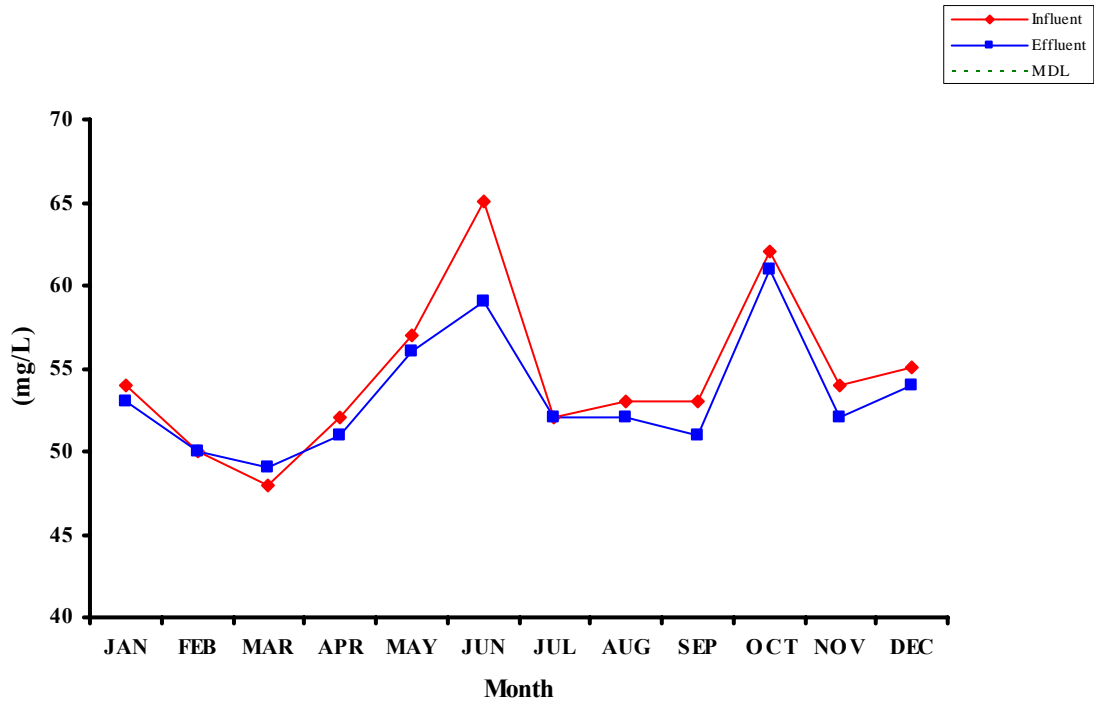
### Base Neutrals 2004 Monthly Averages



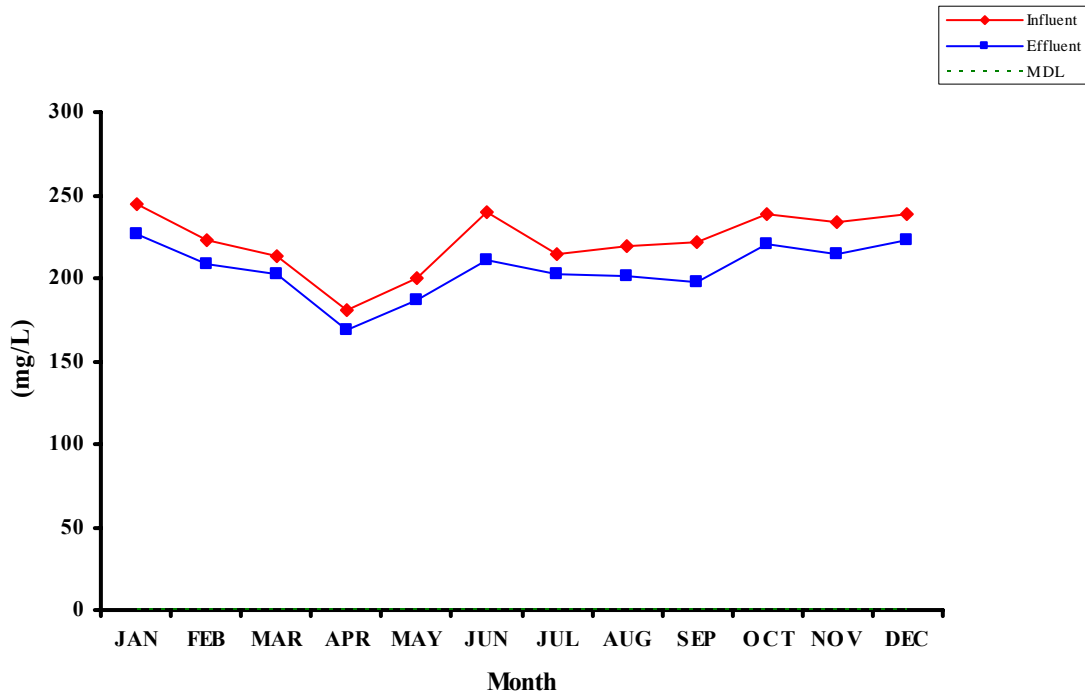
### Calcium 2004 Monthly Averages



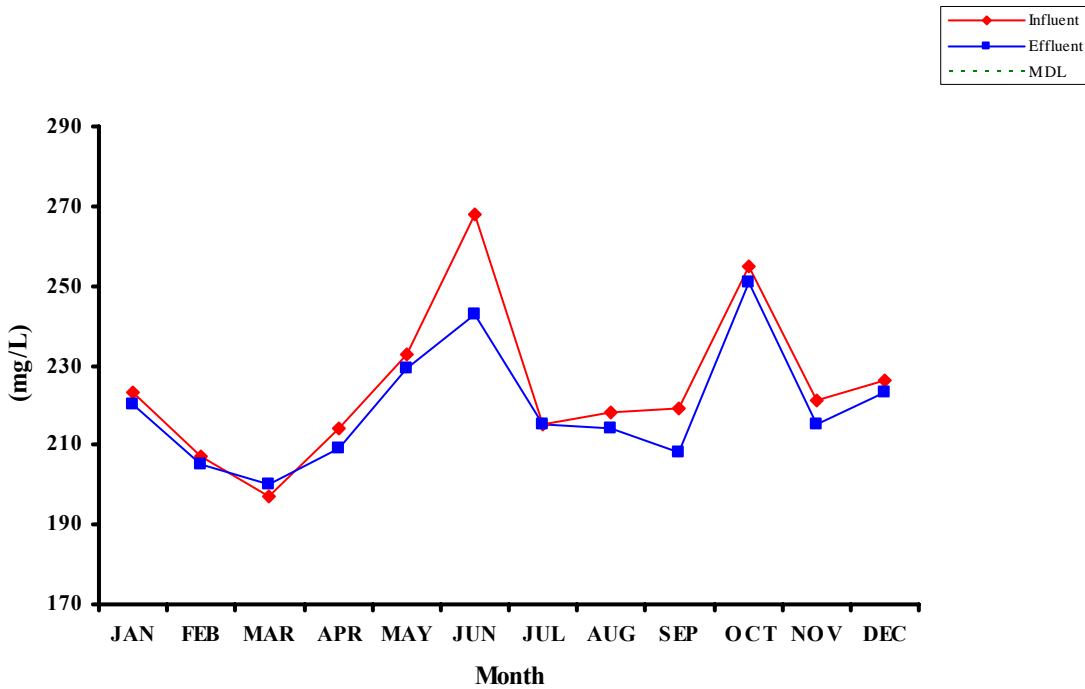
### Magnesium 2004 Monthly Averages



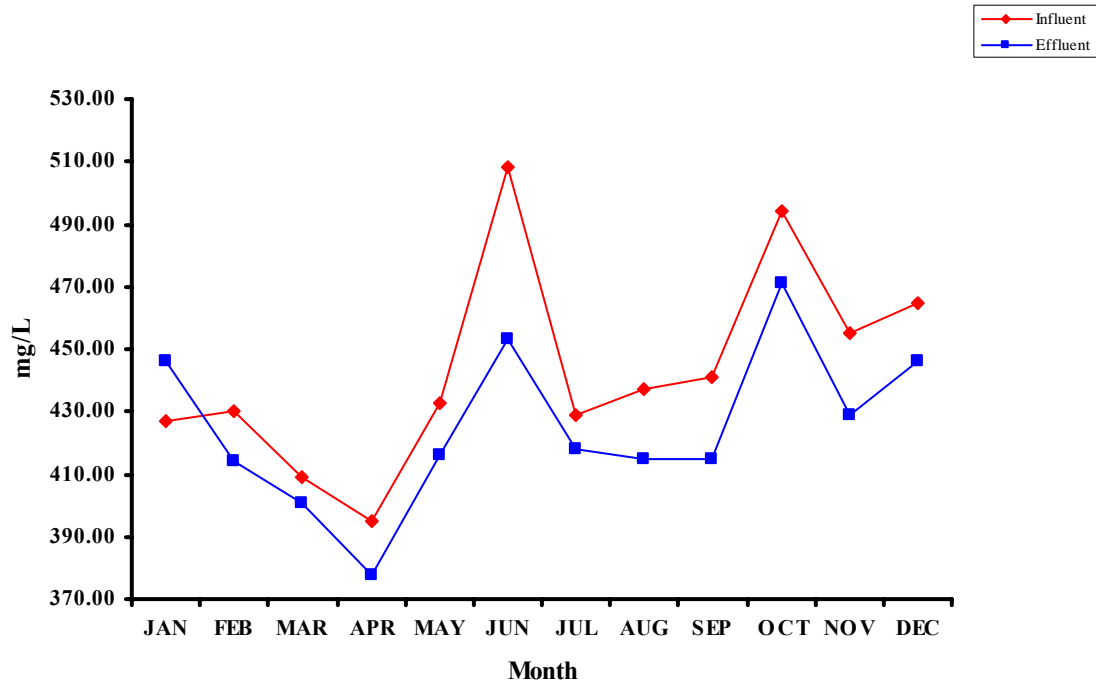
### Calcium Hardness 2004 Monthly Averages



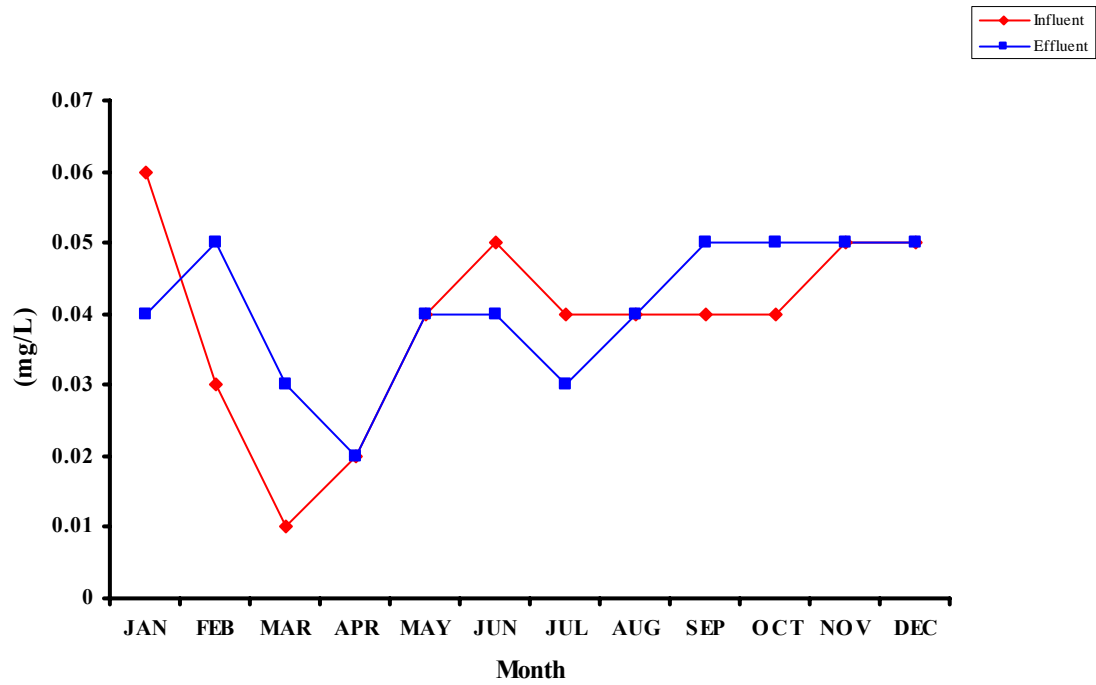
### Magnesium Hardness 2004 Monthly Averages



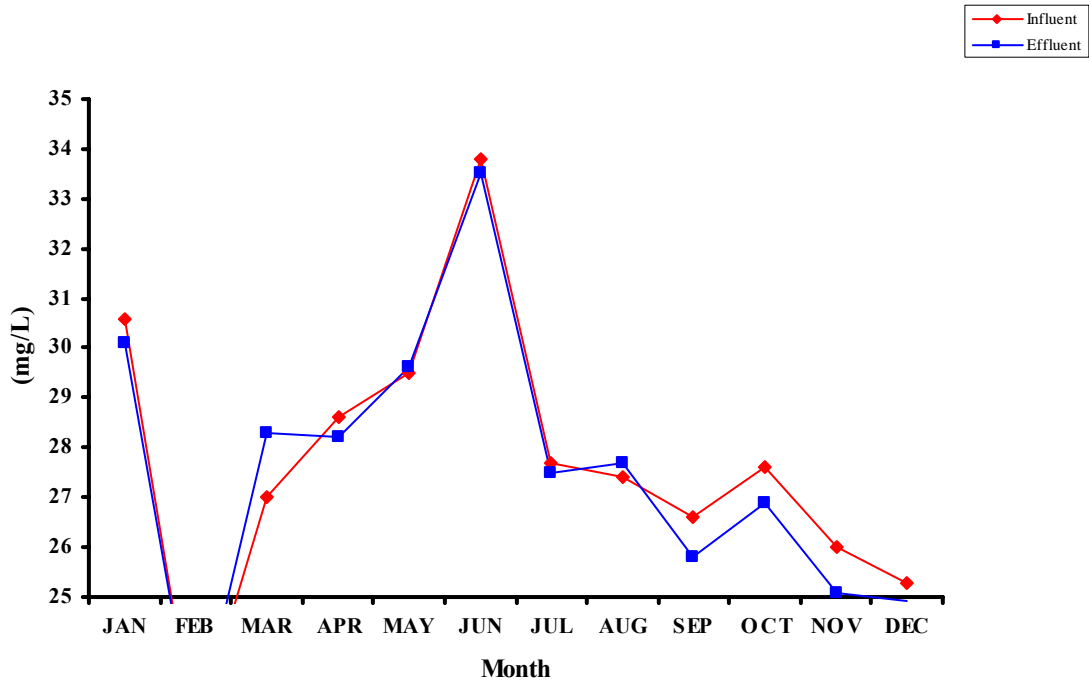
### Total Hardness 2004 Monthly Averages



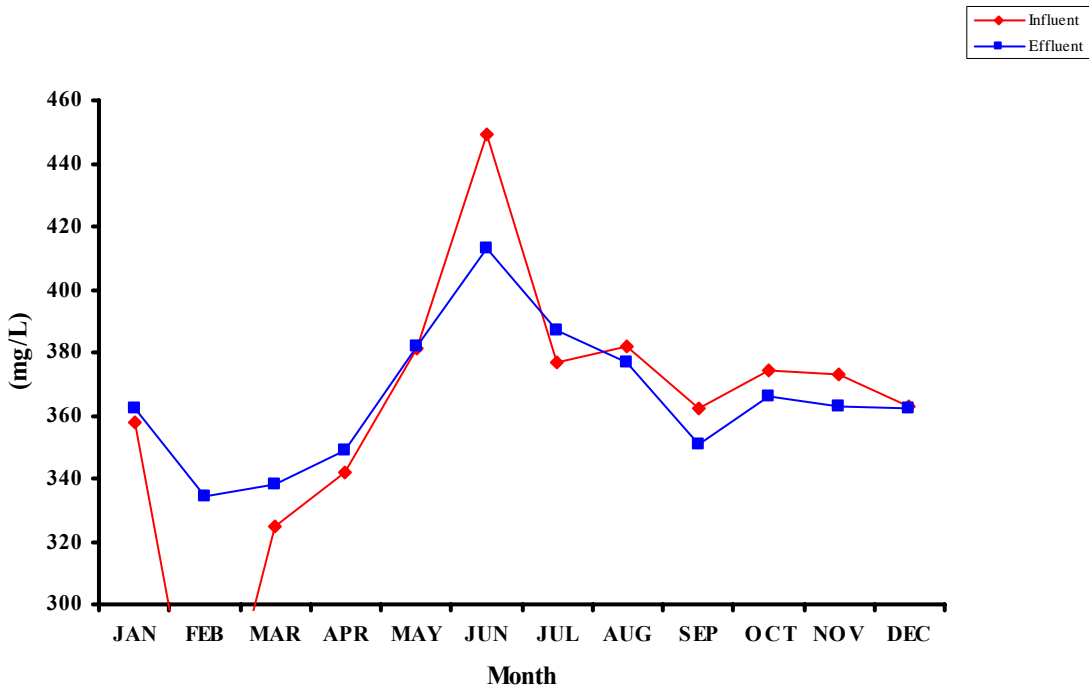
### Lithium 2004 Monthly Averages



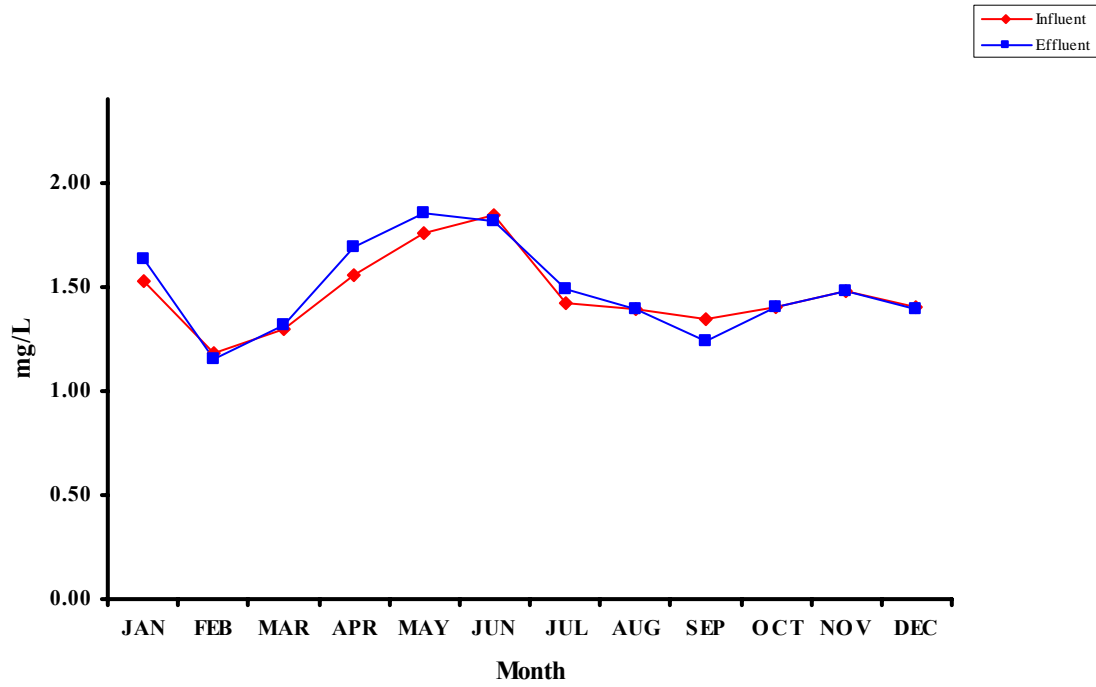
### Potassium 2004 Monthly Averages



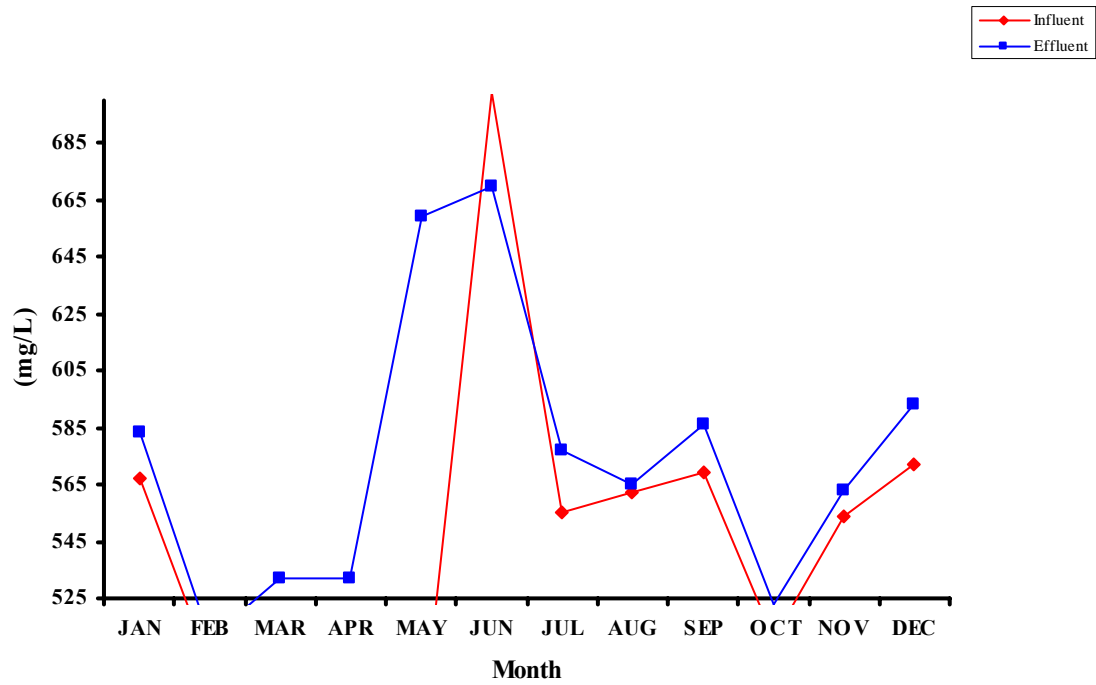
### Sodium 2004 Monthly Averages



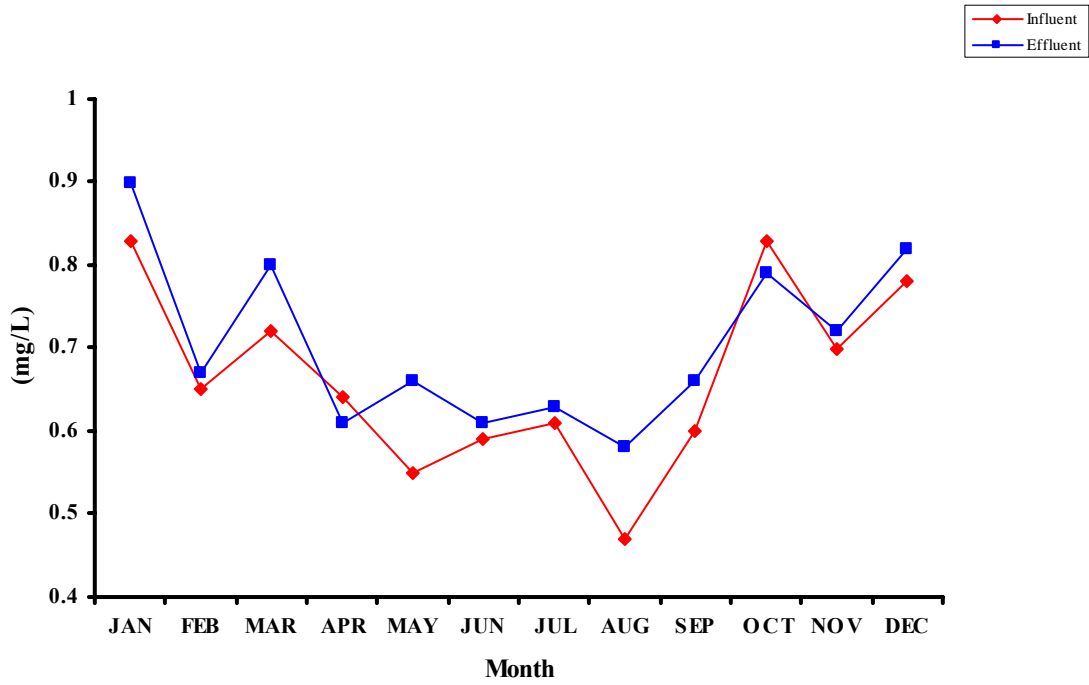
### Bromide 2004 Monthly Averages



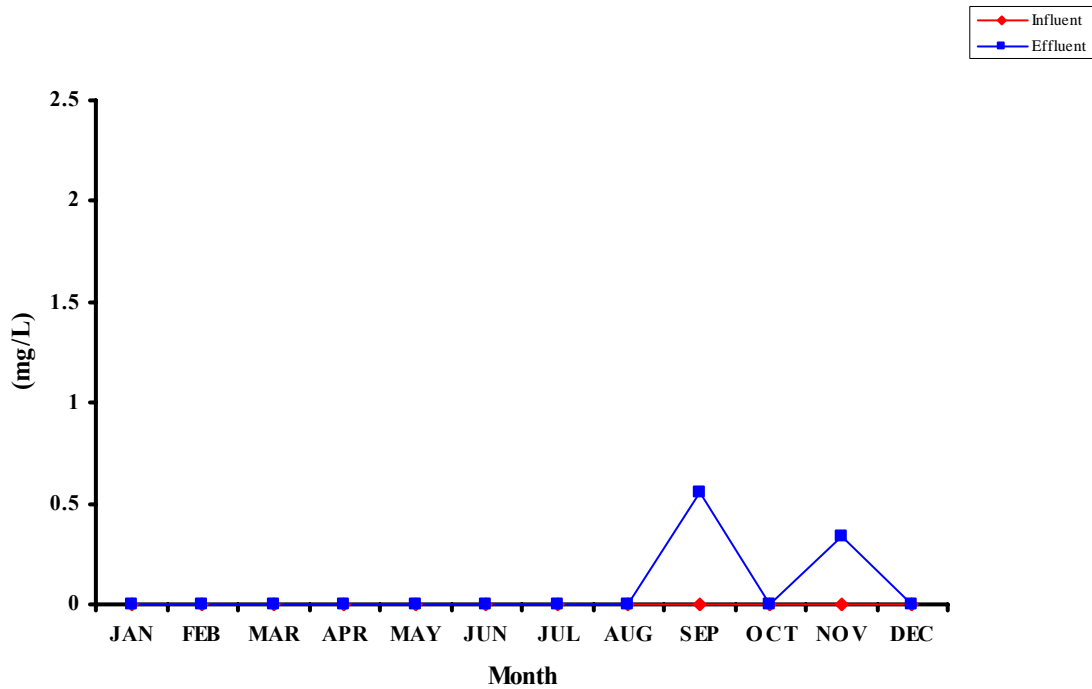
### Chloride 2004 Monthly Averages



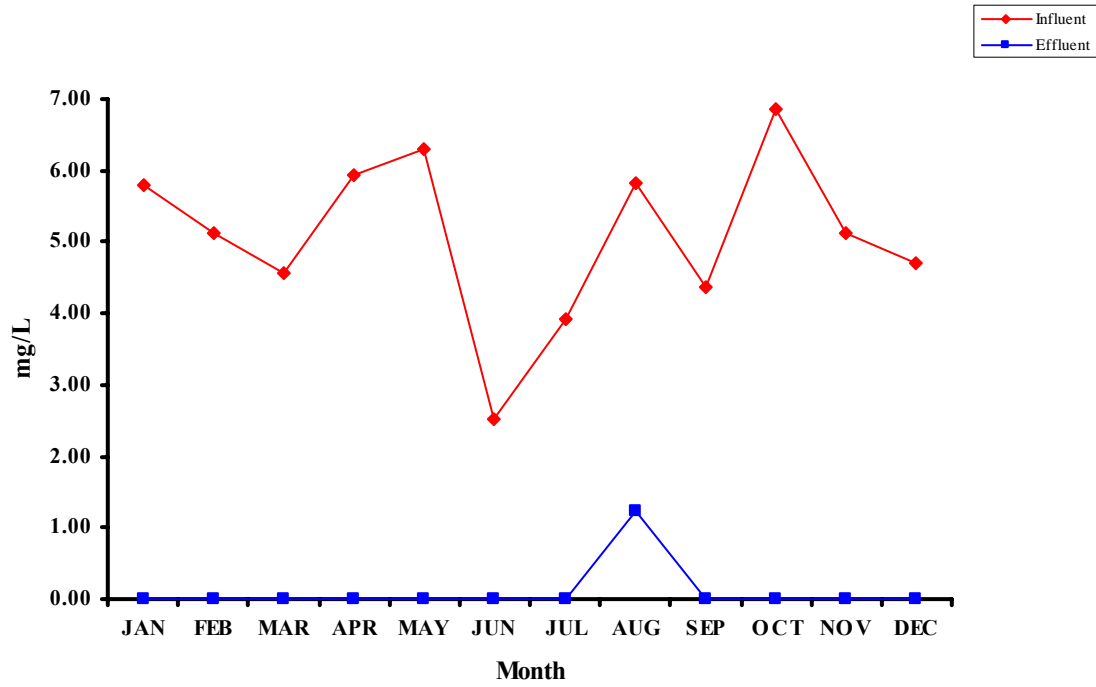
### Fluoride 2004 Monthly Averages



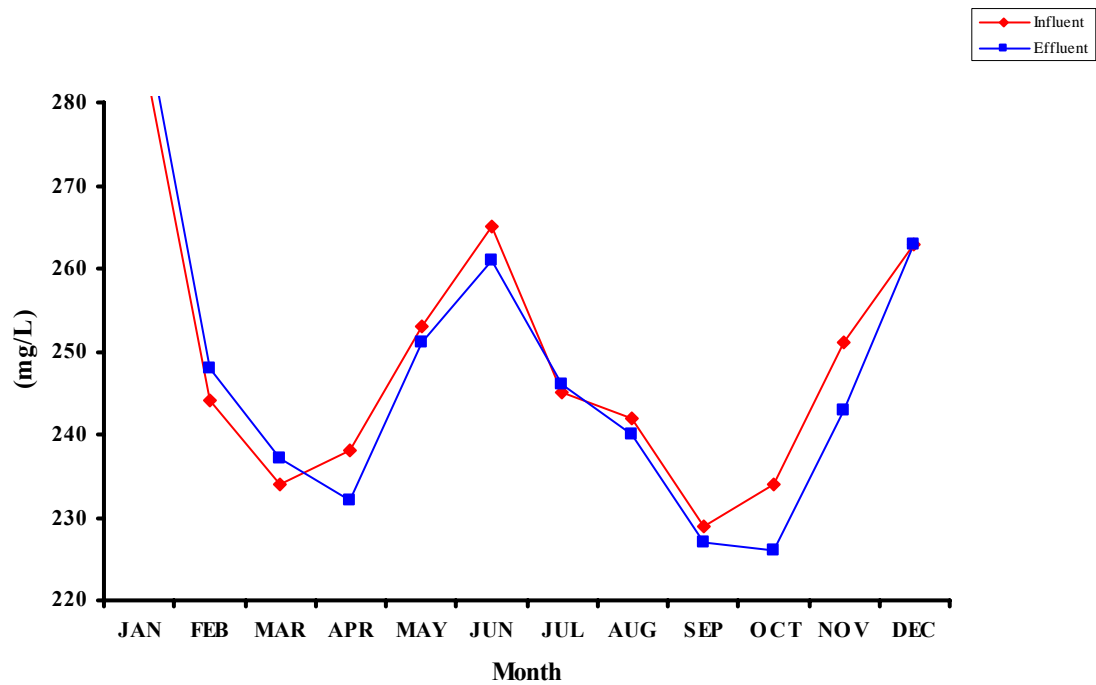
### Nitrate 2004 Monthly Averages



### O-Phosphate 2004 Monthly Averages



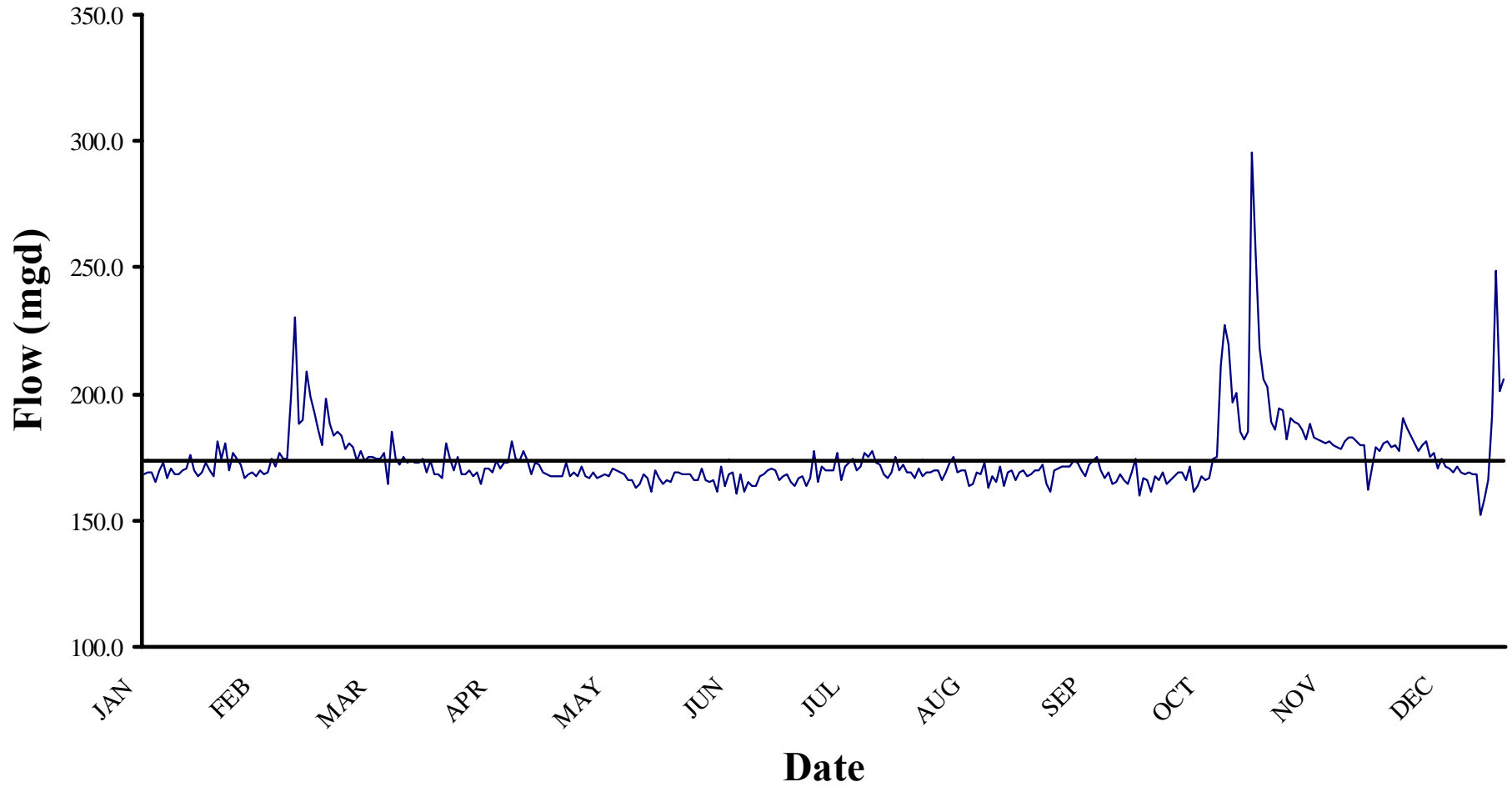
### Sulfate 2004 Monthly Averages



C. Daily Values of Selected Parameters.

Daily values of selected parameters (e.g. TSS, Flow, TSS Removals, etc.) are tabulated and presented graphically; statistical summary information is provided.

# Point Loma Wastewater Treatment Plant 2004 Daily Flows (mgd)

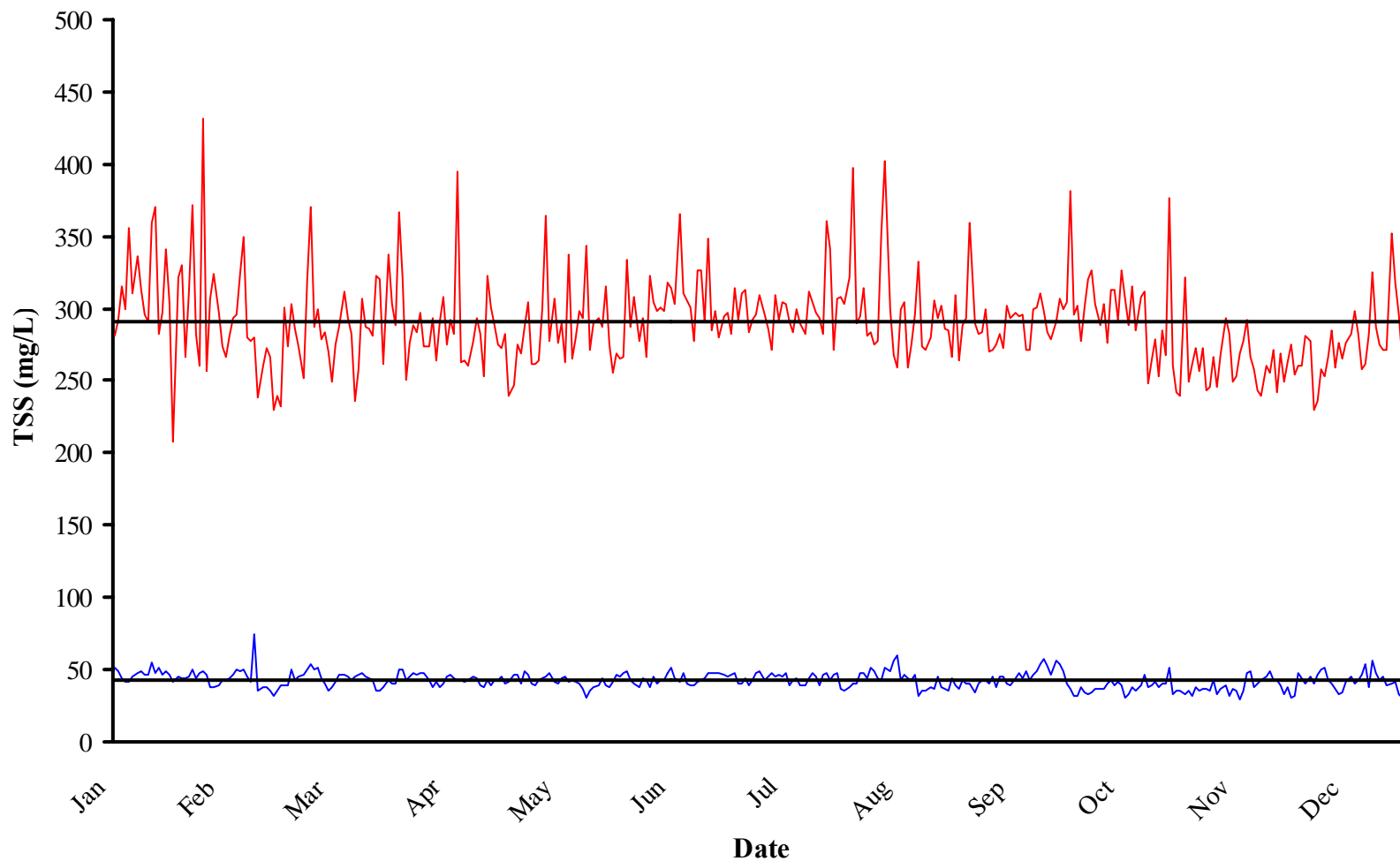


# Point Loma Wastewater Treatment Plant

## 2004 Flows (mgd)

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	153.0	169.5	180.0	166.7	167.6	169.2	164.0	167.1	169.7	161.6	189.3	181.0	
2	160.8	167.1	198.5	180.3	167.5	168.5	166.9	170.8	170.0	167.5	186.2	178.8	
3	173.4	181.3	188.2	174.5	173.1	168.2	167.7	167.8	171.8	166.1	194.3	180.0	
4	174.7	174.6	183.9	169.9	167.5	168.4	163.5	168.7	164.7	168.7	193.9	177.5	
5	169.1	180.3	185.0	175.0	168.8	166.0	166.5	169.1	161.0	164.4	182.3	190.4	
6	171.8	169.8	183.9	168.3	167.6	166.0	177.3	169.5	170.0	165.7	190.8	186.7	
7	168.0	177.0	178.2	168.6	171.4	170.6	165.1	170.1	170.8	167.4	188.7	183.6	
8	169.0	174.5	180.9	169.5	167.7	166.0	171.4	166.3	171.1	168.9	188.0	180.8	
9	169.6	172.3	178.9	167.5	167.1	165.3	170.1	169.0	171.0	168.7	186.2	177.6	
10	170.7	166.6	173.9	169.0	168.7	166.0	170.1	172.9	171.7	166.1	182.1	179.6	
11	171.8	168.3	177.3	164.7	166.7	161.0	169.6	174.9	173.7	171.3	188.1	181.0	
12	170.1	169.3	173.6	170.5	167.3	171.5	177.0	168.8	173.0	161.3	182.5	174.9	
13	164.8	167.8	175.0	170.8	168.5	163.9	166.1	170.1	170.0	163.5	181.7	176.5	
14	168.7	169.6	175.3	169.3	167.3	168.1	171.0	170.0	167.3	167.7	181.1	170.5	
15	168.3	168.1	174.4	173.9	170.3	169.1	172.8	164.0	172.4	166.3	180.8	174.2	
16	169.1	168.8	174.3	170.6	169.9	160.8	174.4	164.2	174.0	166.8	181.0	171.1	
17	169.3	174.0	176.6	173.0	168.9	168.6	169.6	169.4	175.2	174.4	179.6	170.6	
18	165.4	171.7	164.3	172.8	168.6	161.2	171.4	167.9	169.7	174.8	179.0	168.9	
19	169.9	176.8	184.8	181.0	165.9	165.4	176.5	172.5	166.5	211.6	178.4	171.2	
20	172.5	174.1	174.3	174.2	165.9	163.3	175.1	162.7	169.2	227.5	181.6	169.2	
21	166.5	174.1	172.0	173.3	163.1	164.0	177.3	167.7	164.7	219.7	182.8	168.3	
22	170.2	199.8	175.1	177.1	164.5	167.6	173.0	165.1	165.0	197.0	182.7	169.2	
23	168.6	230.2	173.2	173.9	168.4	168.1	171.8	171.2	168.4	200.4	181.2	168.6	
24	168.5	188.0	173.9	168.4	166.5	169.6	168.0	164.0	165.7	185.0	180.1	168.1	
25	170.2	189.5	173.2	172.9	161.4	170.7	166.8	168.8	164.7	182.2	179.5	152.3	
26	170.5	209.1	172.6	171.8	169.7	169.4	169.3	170.1	169.0	185.0	162.2	158.0	
27	175.7	198.8	174.1	168.7	166.4	166.2	175.0	166.2	174.2	295.2	170.8	165.6	
28	169.5	192.6	169.2	167.9	164.8	167.3	169.9	168.9	160.0	254.6	178.6	191.1	
29	167.8	185.8	173.4	167.4	165.7	167.9	172.1	169.8	166.5	218.3	177.6	248.8	
30	169.2		168.2	167.8	165.1	165.2	168.7	167.7	165.9	206.2	180.8	201.2	Annual
31	172.9		168.4		169.3		168.7	168.0		203.0		205.7	Summary
Average	169.0	179.4	176.6	171.3	167.5	166.8	170.5	168.5	168.9	187.0	182.4	178.7	173.9
Minimum	153.0	166.6	164.3	164.7	161.4	160.8	163.5	162.7	160.0	161.3	162.2	152.3	152.3
Maximum	175.7	230.2	198.5	181.0	173.1	171.5	177.3	174.9	175.2	295.2	194.3	248.8	295.2
Total	5239.4	5023.4	5474.5	5139.2	5191.1	5002.7	5286.6	5223.0	5066.7	5796.7	5471.7	5540.8	63455.7

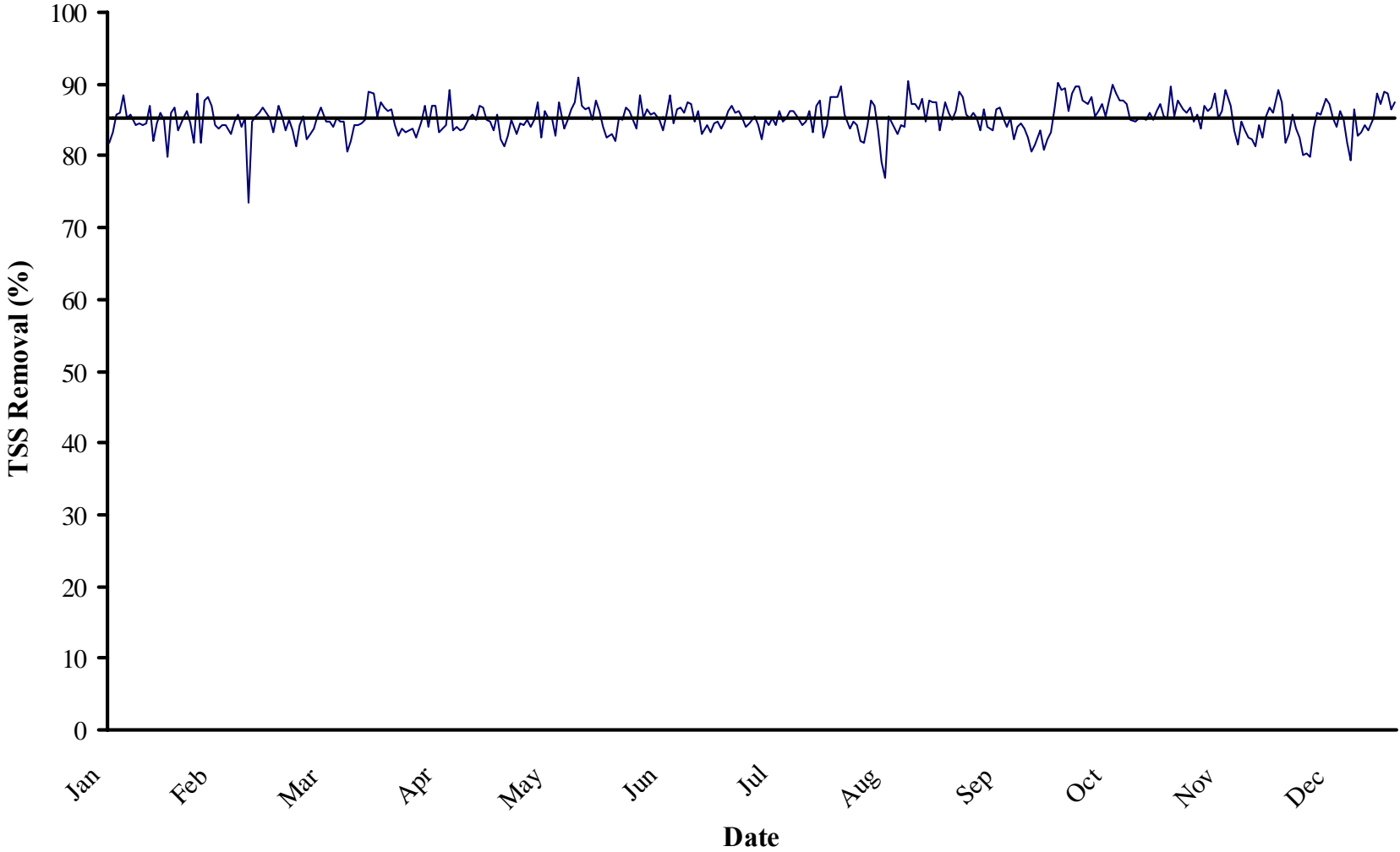
# Point Loma Wastewater Treatment Plant 2004 Total Suspended Solids



**Point Loma Wastewater Treatment Plant  
2004 Total Suspended Solids (mg/L)**

Day	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	291	42	321	45	301	39	367	50	239	42	266	48	314	48	321	38	289	43	296	32	249	36	260	47
2	304	42	330	44	274	40	320	50	247	46	334	49	292	40	397	41	293	40	302	32	262	32	260	44
3	243	41	267	44	303	50	251	43	275	47	287	43	310	40	290	41	360	40	277	38	273	37	281	40
4	291	43	312	46	286	43	276	45	269	40	308	41	313	44	295	48	290	34	301	34	257	36	278	45
5	307	38	372	51	274	45	289	48	287	49	278	38	284	39	314	48	283	40	320	33	273	36	230	40
6	343	46	283	44	252	47	284	47	304	47	294	44	292	43	281	44	284	42	326	34	243	37	236	47
7	329	46	260	47	320	50	297	48	262	41	266	43	296	47	284	51	299	42	303	37	246	35	258	51
8	346	45	432	49	371	54	274	48	262	39	323	37	309	48	275	50	270	40	289	37	267	43	253	51
9	321	51	257	47	287	51	274	42	264	42	305	45	296	43	278	44	272	45	303	36	246	32	267	43
10	345	51	307	38	300	51	294	38	300	45	298	40	286	45	352	43	275	37	276	40	268	37	285	40
11	328	50	324	38	279	45	264	42	364	46	301	43	271	48	402	52	283	45	313	43	294	39	259	37
12	306	48	297	39	284	41	291	38	277	48	298	42	309	46	299	49	273	45	313	40	282	32	276	33
13	324	46	274	43	270	36	308	40	307	42	318	48	292	46	268	56	302	41	292	42	249	37	265	34
14	308	50	266	43	250	38	275	46	276	41	314	52	305	45	259	60	294	39	327	40	253	35	276	41
15	281	51	281	44	275	42	292	47	290	43	303	43	303	48	299	43	297	44	307	31	269	29	283	45
16	292	49	293	46	287	46	282	44	263	45	366	42	291	40	304	47	295	47	289	33	278	36	298	41
17	316	45	296	50	312	46	395	43	337	42	310	48	284	43	259	44	296	44	316	39	292	48	282	42
18	299	42	324	49	294	45	263	43	265	43	306	41	299	44	275	43	272	48	285	35	266	49	258	47
19	356	41	350	50	283	43	264	42	280	42	301	40	290	40	296	47	271	43	308	39	258	39	262	54
20	311	46	280	45	236	46	260	43	298	40	278	39	283	39	332	32	299	46	312	47	243	40	283	38
21	336	48	278	41	258	46	277	45	293	37	326	41	312	45	274	35	301	49	248	38	240	42	325	56
22	313	49	280	74	307	48	294	43	343	31	326	42	305	48	272	35	311	54	264	39	260	46	287	48
23	296	46	238	36	287	45	282	40	271	35	291	44	297	45	280	38	298	58	279	41	256	48	275	43
24	291	46	260	38	286	44	253	38	290	39	348	48	293	40	306	37	284	52	253	38	272	43	272	45
25	359	56	273	38	281	42	323	42	293	39	285	48	283	47	294	45	279	46	285	40	242	42	272	40
26	371	48	266	35	323	36	301	40	287	43	298	47	361	47	302	37	291	56	268	40	269	39	352	40
27	283	51	230	32	320	36	289	43	315	39	280	47	341	42	286	36	307	54	377	52	250	33	318	41
28	297	46	239	35	262	38	275	42	275	38	295	46	271	47	285	36	300	50	260	33	263	37	296	33
29	341	48	232	39	338	42	273	45	255	41	297	45	307	48	266	44	304	41	242	35	275	30	263	30
30	305	46			303	40	282	40	269	47	282	46	308	36	309	39	381	37	239	35	254	32	236	32
31	208	42			289	40			265	45			303	36	264	37			321	33			245	31
Avg	311	46.4	290	43.7	290	43.6	289	43.5	285	42.0	303	44.0	300	43.7	297	43.1	295	44.8	293	37.5	262	37.9	274	41.9
Min	208	38.4	230	32.1	236	35.6	251	38.3	239	30.8	266	37.4	271	35.6	259	32.1	270	33.7	239	30.5	240	29.2	230	30.1
Max	371	55.5	432	74.0	371	54.0	395	50.4	364	48.5	366	51.6	361	48.4	402	59.9	381	57.8	377	51.5	294	48.9	352	55.9

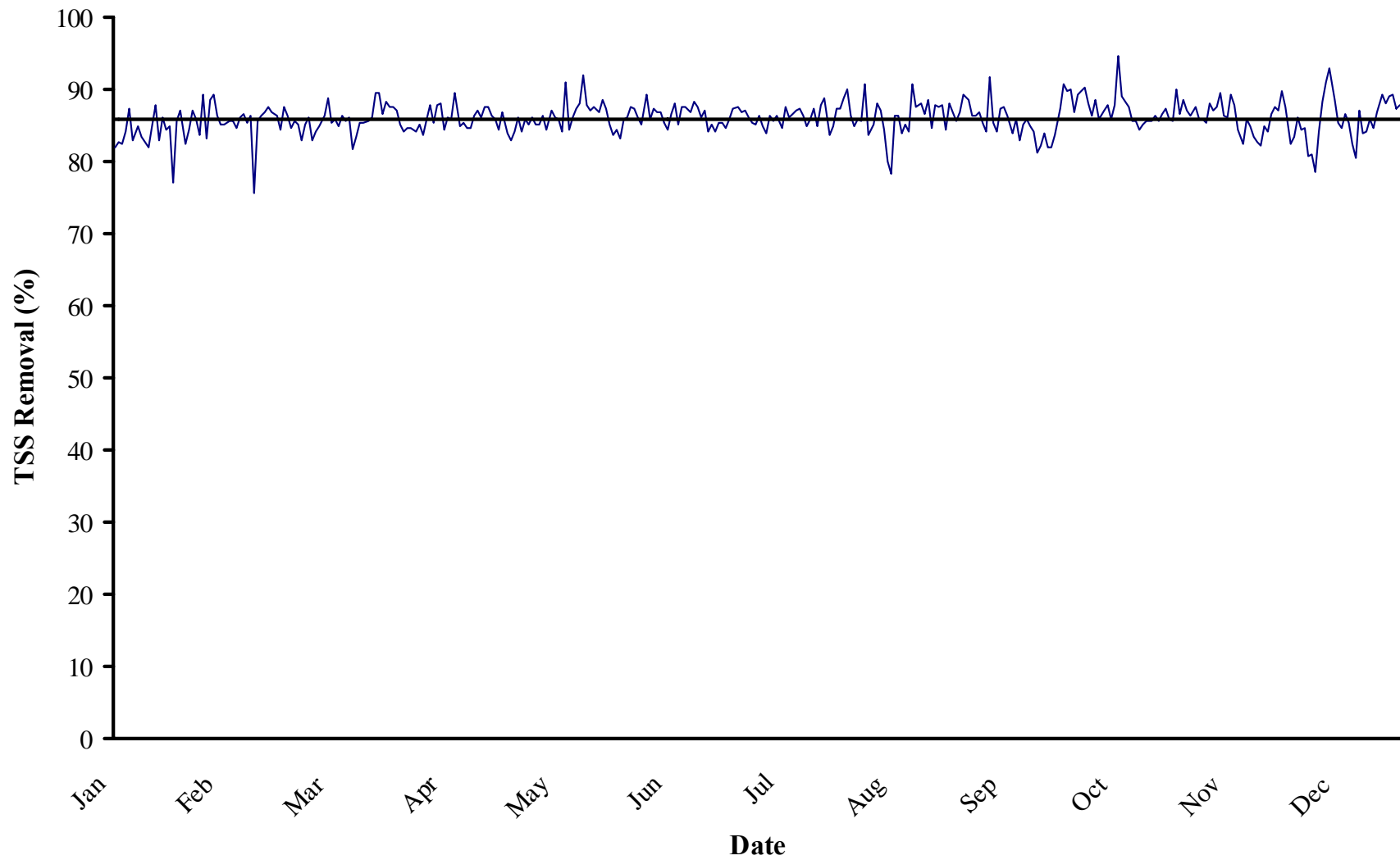
# Point Loma Wastewater Treatment Plant 2004 TSS Removal (%) at Point Loma



**Point Loma Wastewater Treatment Plant**  
**2004 Total Suspended Solids Removals (%) at Point Loma**

Day	Jan % Rem	Feb % Rem	Mar % Rem	Apr % Rem	May % Rem	Jun % Rem	Jul % Rem	Aug % Rem	Sep % Rem	Oct % Rem	Nov % Rem	Dec % Rem
1	85.6	86.0	87.0	86.4	82.4	82.0	84.7	88.2	85.1	89.2	85.5	81.9
2	86.2	86.7	85.4	84.4	81.4	85.3	86.3	89.7	86.3	89.4	87.8	83.1
3	83.1	83.5	83.5	82.9	82.9	85.0	87.1	85.9	88.9	86.3	86.4	85.8
4	85.2	85.3	85.0	83.7	85.1	86.7	85.9	83.7	88.3	88.7	86.0	83.8
5	87.6	86.3	83.6	83.4	82.9	86.3	86.3	84.7	85.9	89.7	86.8	82.6
6	86.6	84.5	81.3	83.5	84.5	85.0	85.3	84.3	85.2	89.6	84.8	80.1
7	86.0	81.9	84.4	83.8	84.4	83.8	84.1	82.0	86.0	87.8	85.8	80.2
8	87.0	88.7	85.4	82.5	85.1	88.5	84.5	81.8	85.2	87.2	83.9	79.8
9	84.1	81.7	82.2	84.7	84.1	85.2	85.5	84.2	83.5	88.1	87.0	83.9
10	85.2	87.6	83.0	87.1	85.0	86.6	84.3	87.8	86.5	85.5	86.2	86.0
11	84.8	88.3	83.9	84.1	87.4	85.7	82.3	87.1	84.1	86.3	86.7	85.7
12	84.3	86.9	85.6	86.9	82.7	85.9	85.1	83.6	83.5	87.2	88.7	88.0
13	85.8	84.3	86.7	87.0	86.3	84.9	84.2	79.1	86.4	85.6	85.1	87.2
14	83.8	83.8	84.8	83.3	85.1	83.4	85.2	76.8	86.7	87.8	86.2	85.1
15	81.9	84.3	84.7	83.9	85.2	85.8	84.2	85.6	85.2	89.9	89.2	84.1
16	83.2	84.3	84.0	84.4	82.9	88.5	86.3	84.5	84.1	88.6	87.1	86.2
17	85.8	83.1	85.3	89.1	87.5	84.5	84.9	83.0	85.1	87.7	83.6	85.1
18	86.0	84.9	84.7	83.7	83.8	86.6	85.3	84.4	82.4	87.7	81.6	81.8
19	88.5	85.7	84.8	84.1	85.0	86.7	86.2	84.1	84.1	87.3	84.9	79.4
20	85.2	83.9	80.5	83.5	86.6	86.0	86.2	90.4	84.6	84.9	83.5	86.6
21	85.7	85.3	82.2	83.8	87.4	87.4	85.6	87.2	83.7	84.7	82.5	82.8
22	84.3	73.6	84.4	85.4	91.0	87.1	84.3	87.1	82.6	85.2	82.3	83.3
23	84.5	84.9	84.3	85.8	87.1	84.9	84.8	86.4	80.5	85.3	81.2	84.4
24	84.2	85.4	84.6	85.0	86.6	86.2	86.3	87.9	81.7	85.0	84.2	83.5
25	84.4	86.1	85.1	87.0	86.7	83.2	83.4	84.7	83.5	86.0	82.6	85.3
26	87.1	86.8	88.9	86.7	85.0	84.2	87.0	87.7	80.8	85.1	85.5	88.6
27	82.0	86.1	88.7	85.1	87.6	83.2	87.7	87.4	82.4	86.2	86.8	87.1
28	84.5	85.4	85.5	84.7	86.2	84.4	82.7	87.4	83.3	87.3	85.9	88.9
29	85.9	83.2	87.6	83.5	83.9	84.8	84.4	83.5	86.5	85.5	89.1	88.6
30	84.9		86.8	85.8	82.5	83.7	88.3	87.4	90.3	85.4	87.4	86.4
31	79.8		86.2		83.0		88.1	86.0		89.7		87.3
Avg	84.9	84.8	84.8	84.8	85.1	85.4	85.4	85.3	84.8	87.1	85.5	84.6
Min	79.8	73.6	80.5	82.5	81.4	82.0	82.3	76.8	80.5	84.7	81.2	79.4
Max	88.5	88.7	88.9	89.1	91.0	88.5	88.3	90.4	90.3	89.9	89.2	88.9

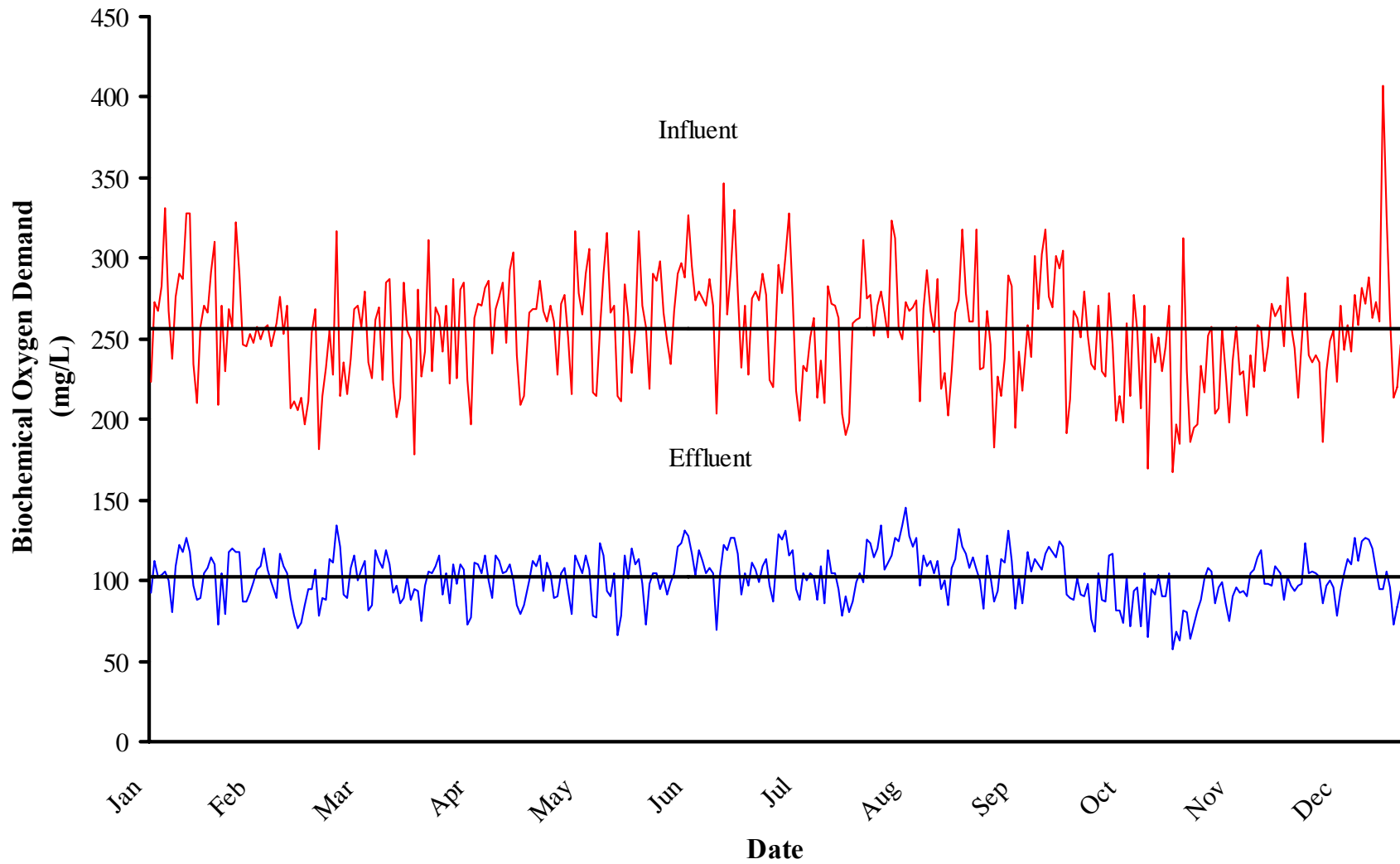
## Point Loma Wastewater Treatment Plant 2004 TSS Removal (%) Systemwide



**Point Loma Wastewater Treatment Plant**  
**2004 Total Suspended Solids Removals (%) Systemwide**

Day	Jan % Rem	Feb % Rem	Mar % Rem	Apr % Rem	May % Rem	Jun % Rem	Jul % Rem	Aug % Rem	Sep % Rem	Oct % Rem	Nov % Rem	Dec % Rem
1	86.6	85.6	87.6	87.1	84.0	83.3	85.8	88.7	85.7	89.7	86.6	82.4
2	86.9	87.0	86.4	85.2	82.8	85.8	87.3	90.1	86.9	89.9	88.6	83.3
3	84.6	82.4	84.7	84.1	84.2	86.0	87.6	86.4	89.3	86.9	87.0	86.1
4	85.7	84.5	85.7	84.7	86.0	87.5	86.7	84.8	88.5	89.3	86.3	84.4
5	87.0	87.2	85.0	84.6	84.1	87.3	87.1	85.8	86.3	89.8	87.6	84.7
6	85.4	85.8	83.0	84.3	85.7	86.0	86.1	85.5	86.4	90.2	85.8	80.7
7	85.7	83.6	85.2	85.0	85.2	85.0	85.3	90.9	86.8	88.0	85.9	81.1
8	86.8	89.2	86.1	83.6	86.2	89.3	85.2	83.8	85.5	86.4	85.3	78.4
9	81.3	83.1	83.0	85.8	85.0	85.9	86.3	85.0	84.2	88.6	88.1	84.3
10	84.0	88.6	84.2	87.8	85.2	87.4	85.0	87.9	91.6	85.7	87.1	88.4
11	83.7	89.3	84.9	85.3	86.2	86.8	84.0	87.2	85.3	87.0	87.5	91.0
12	84.6	86.4	86.4	87.8	84.4	86.8	86.3	84.4	84.2	87.9	89.5	93.0
13	84.2	85.2	88.7	88.1	87.0	85.5	85.6	80.0	87.3	85.9	86.3	88.6
14	84.8	85.2	85.3	84.5	86.2	84.5	86.4	78.3	87.7	87.8	86.0	85.4
15	81.9	85.6	85.9	86.1	85.9	86.5	84.6	86.2	86.3	94.6	89.4	84.6
16	82.8	85.7	85.0	85.7	84.2	88.0	87.5	86.3	84.0	89.0	87.9	86.5
17	82.5	84.8	86.2	89.6	91.0	85.2	86.1	84.0	85.9	88.2	84.4	85.3
18	84.2	86.1	85.6	84.8	84.5	87.6	86.6	85.1	83.0	87.7	82.3	82.5
19	87.4	86.6	86.0	85.3	86.1	87.6	87.1	84.2	85.2	85.6	85.9	80.5
20	83.0	85.4	81.8	84.7	87.4	86.9	87.4	90.8	85.7	85.6	84.8	87.2
21	84.8	86.3	83.3	84.7	88.1	88.3	86.4	87.5	85.0	84.4	83.5	83.8
22	83.4	75.5	85.4	86.4	91.8	87.6	84.9	87.9	84.1	85.1	82.7	84.1
23	82.7	85.6	85.4	87.0	87.9	86.1	85.8	86.5	81.2	85.5	82.3	85.8
24	82.0	86.4	85.6	86.2	87.2	87.0	87.4	88.6	82.3	85.6	84.9	84.6
25	84.8	86.9	86.1	87.7	87.6	84.1	84.8	84.6	83.9	86.3	84.2	86.8
26	87.8	87.6	89.6	87.6	86.8	85.0	87.9	87.8	81.9	85.6	86.5	89.2
27	83.0	86.9	89.4	86.5	88.4	84.1	88.7	87.7	81.9	86.5	87.7	88.0
28	86.0	86.3	86.6	85.8	87.2	85.3	83.7	87.7	83.7	87.2	87.2	89.0
29	84.4	84.5	88.2	84.3	85.2	85.5	84.9	84.3	87.3	85.9	89.7	89.3
30	85.0		87.7	86.9	83.7	84.7	87.2	88.0	90.7	85.6	87.5	87.4
31	77.2		87.6		84.4		87.4	86.9		89.9		87.8
Avg	84.3	85.6	85.9	85.9	86.1	86.2	86.2	86.2	85.6	87.5	86.3	85.6
Min	77.2	75.5	81.8	83.6	82.8	83.3	83.7	78.3	81.2	84.4	82.3	78.4
Max	87.8	89.3	89.6	89.6	91.8	89.3	88.7	90.9	91.6	94.6	89.7	93.0

# Point Loma Wastewater Treatment Plant 2004 Biochemical Oxygen Demand

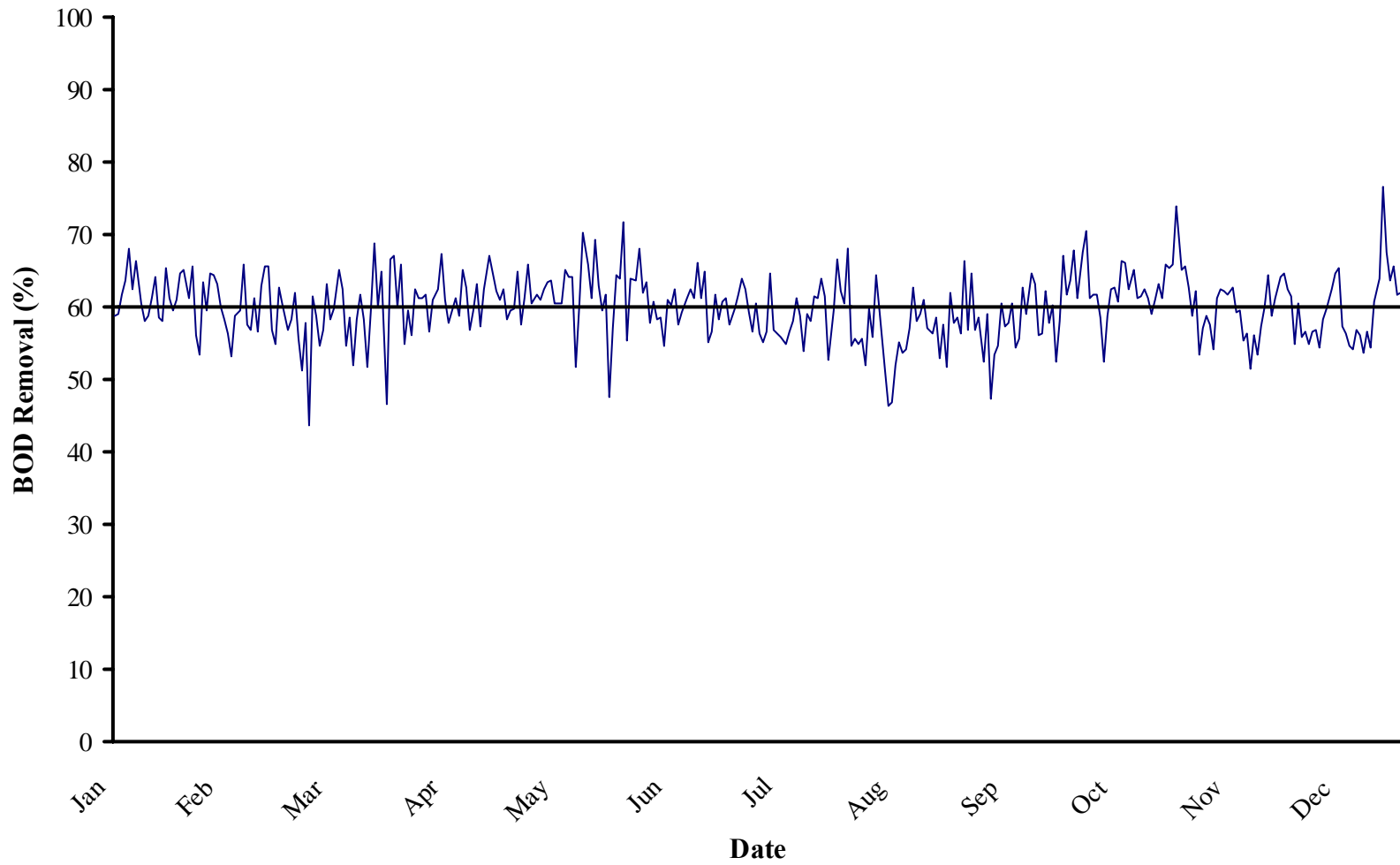


Point Loma Wastewater Treatment Plant  
**2004 Biochemical Oxygen Demand (mg/L)**

Day	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov	
	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf
1	81	240	114	292	107	269	97	242	112	269	98	<b>271</b>	97	228	104	263	108	261	101	263	80	230
2	107	273	110	310	78	181	106	311	109	269	73	258	111	275	99	311	114	261	91	251	64	186
3	108	260	73	209	89	214	104	230	115	286	98	219	107	280	125	275	107	318	90	279	73	195
4	128	318	<b>105</b>	<b>271</b>	88	232	109	270	94	267	105	290	99	274	123	277	100	231	98	252	81	197
5	100	278	79	230	113	255	116	264	111	261	104	286	109	291	114	252	82	232	76	234	88	233
6	104	305	118	269	111	228	91	242	<b>105</b>	<b>271</b>	95	298	113	277	120	271	115	267	68	231	101	217
7	118	297	120	258	134	317	<b>105</b>	<b>271</b>	89	261	101	266	97	224	134	279	102	246	<b>105</b>	<b>271</b>	108	252
8	96	275	118	322	121	215	86	222	90	228	91	249	87	220	107	266	87	183	88	230	106	257
9	98	291	118	291	91	236	110	287	104	272	99	234	129	296	111	251	93	227	87	227	86	203
10	102	245	87	246	89	216	98	226	108	277	105	267	125	278	115	324	113	214	115	278	95	207
11	132	312	87	245	108	238	110	281	94	251	121	290	131	302	127	312	111	238	117	246	99	256
12	89	235	93	253	116	268	107	285	79	216	123	297	116	328	124	256	131	289	82	199	86	229
13	86	256	99	248	100	<b>271</b>	73	224	115	317	131	288	119	276	134	250	112	283	81	215	75	198
14	90	221	107	257	107	257	77	197	110	278	128	327	95	218	145	273	83	195	74	198	91	237
15	92	223	109	250	112	279	111	263	105	265	117	295	88	199	128	267	102	242	102	260	96	258
16	112	273	120	256	82	235	110	272	115	291	103	274	105	233	121	270	86	218	72	214	93	228
17	102	267	107	259	85	226	<b>105</b>	<b>271</b>	107	306	119	280	100	230	127	274	118	259	94	277	93	230
18	103	283	99	245	119	262	116	282	78	217	112	275	105	251	97	211	106	239	96	255	90	202
19	106	331	89	260	112	270	100	286	77	215	<b>105</b>	<b>271</b>	102	263	115	268	113	302	72	207	105	240
20	100	267	117	276	108	225	90	241	123	255	108	287	88	213	109	293	110	268	<b>105</b>	<b>271</b>	107	220
21	80	238	109	253	119	285	116	268	115	290	<b>105</b>	<b>271</b>	109	237	112	267	107	303	65	169	114	259
22	109	276	<b>105</b>	<b>271</b>	110	287	112	276	94	316	69	203	86	210	104	254	117	318	95	253	119	256
23	122	291	90	207	93	223	105	285	91	266	<b>105</b>	<b>271</b>	119	283	112	287	121	276	91	235	98	230
24	118	287	78	211	97	201	106	248	<b>105</b>	<b>271</b>	122	347	105	272	94	219	118	270	103	251	98	245
25	127	328	71	206	86	213	110	293	66	214	119	265	<b>105</b>	<b>271</b>	100	229	114	301	90	230	97	272
26	118	328	73	213	89	285	100	304	78	211	127	292	95	263	84	202	124	294	90	245	109	264
27	97	234	85	197	102	255	85	240	115	284	126	330	78	203	108	230	121	305	<b>105</b>	<b>271</b>	<b>105</b>	<b>271</b>
28	88	210	95	211	88	250	79	209	101	264	117	280	90	190	113	266	91	191	57	167	88	245
29	89	257	95	254	95	178	84	215	120	229	91	232	80	198	132	274	89	212	68	197	102	288
30	105	271			94	281	100	266	110	256	<b>105</b>	<b>271</b>	87	260	121	318	88	267	63	185	97	259
31	108	266			75	227			113	317			99	262	117	278			82	313		
Avg	104	272.1	99	250.7	101	244.5	101	259.0	102	264.2	107	276.1	102	251.8	115	266.7	106	257.0	88	237.9	95	235.5
Min	80	210.0	71	197.0	75	178.0	73	197.0	66	211.0	69	203.0	78	190.0	84	202.0	82	183.0	57	167.0	64	186.0
Max	132	331.0	120	322.0	134	317.0	116	311.0	123	317.0	131	347.0	131	328.0	145	324.0	131	318.0	117	313.0	119	288.0

**BOLD=Batch or sample did not meet QC requirements on these dates. Used median BOD values from 2003, instead of result value.**

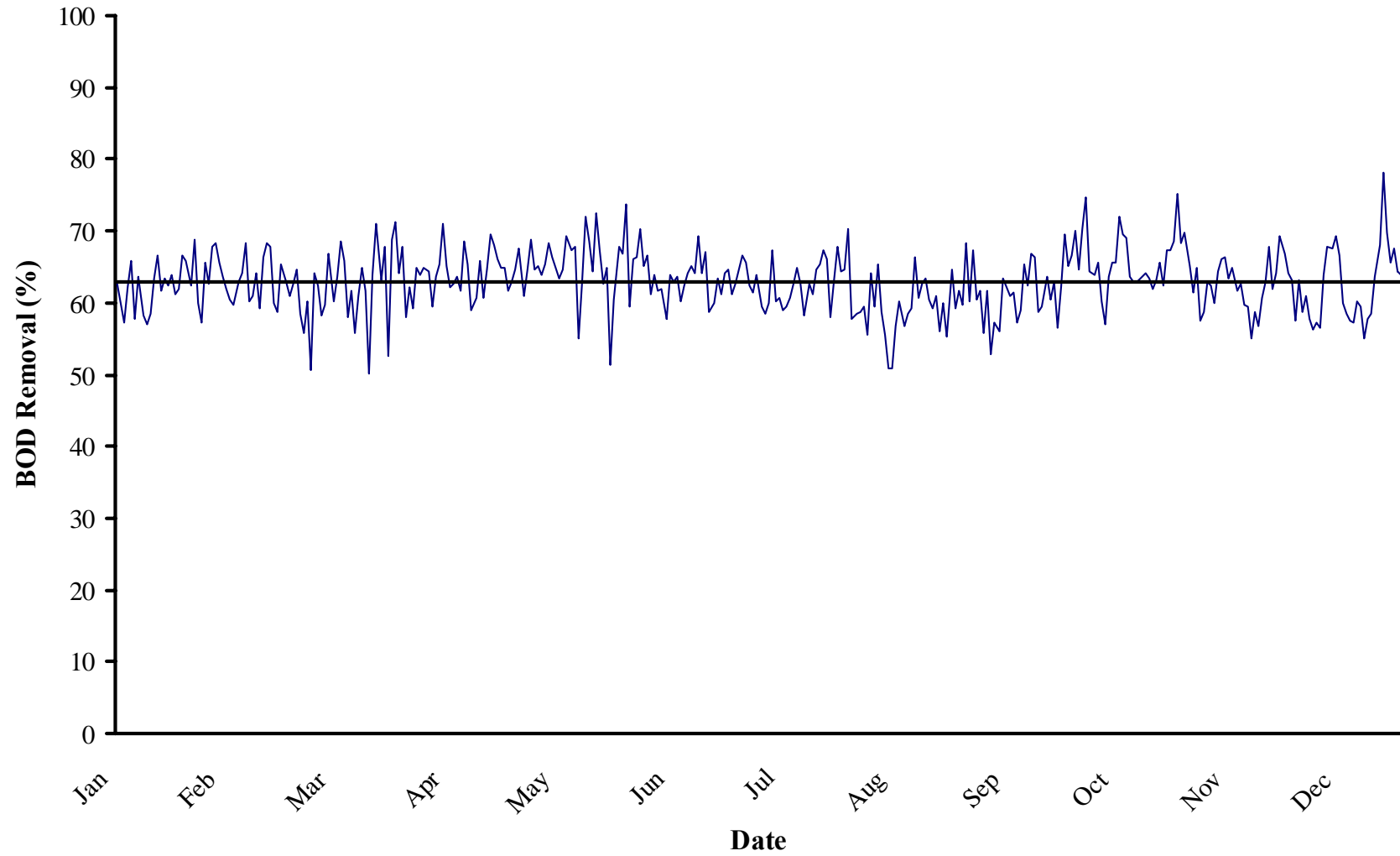
## Point Loma Wastewater Treatment 2004 BOD Removal (%) at Point Loma



**Point Loma Wastewater Treatment Plant**  
**2004 Biochemical Oxygen Demand Removals (%) at Point Loma**

Day	Jan % Rem	Feb % Rem	Mar % Rem	Apr % Rem	May % Rem	Jun % Rem	Jul % Rem	Aug % Rem	Sep % Rem	Oct % Rem	Nov % Rem	Dec % Rem
1	66.2	61.0	60.2	59.9	58.4	63.9	57.5	60.5	58.6	61.6	65.2	61.5
2	60.8	64.5	56.9	65.9	59.5	71.7	59.6	68.2	56.3	63.7	65.6	54.9
3	58.5	65.1	58.4	54.8	59.8	55.3	61.8	54.5	66.4	67.7	62.6	60.5
4	59.7	61.3	62.1	59.6	64.8	63.8	63.9	55.6	56.7	61.1	58.9	55.8
5	64.0	65.7	55.7	56.1	57.5	63.6	62.5	54.8	64.7	67.5	62.2	56.7
6	65.9	56.1	51.3	62.4	61.3	68.1	59.2	55.7	56.9	70.6	53.5	54.9
7	60.3	53.5	57.7	61.3	65.9	62.0	56.7	52.0	58.5	61.3	57.1	56.7
8	65.1	63.4	43.7	61.3	60.5	63.5	60.5	59.8	52.5	61.7	58.8	56.8
9	66.3	59.5	61.4	61.7	61.8	57.7	56.4	55.8	59.0	61.7	57.6	54.3
10	58.4	64.6	58.8	56.6	61.0	60.7	55.0	64.5	47.2	58.6	54.1	58.3
11	57.7	64.5	54.6	60.9	62.5	58.3	56.6	59.3	53.4	52.4	61.3	59.8
12	62.1	63.2	56.7	62.5	63.4	58.6	64.6	51.6	54.7	58.8	62.4	62.4
13	66.4	60.1	63.1	67.4	63.7	54.5	56.9	46.4	60.4	62.3	62.1	64.6
14	59.3	58.4	58.4	60.9	60.4	60.9	56.4	46.9	57.4	62.6	61.6	65.3
15	58.7	56.4	59.9	57.8	60.4	60.3	55.8	52.1	57.9	60.8	62.8	57.2
16	59.0	53.1	65.1	59.6	60.5	62.4	54.9	55.2	60.6	66.4	59.2	56.4
17	61.8	58.7	62.4	61.3	65.0	57.5	56.5	53.6	54.4	66.1	59.6	54.5
18	63.6	59.6	54.6	58.9	64.1	59.3	58.2	54.0	55.6	62.4	55.4	54.2
19	68.0	65.8	58.5	65.0	64.2	61.3	61.2	57.1	62.6	65.2	56.2	56.8
20	62.5	57.6	52.0	62.7	51.8	62.4	58.7	62.8	59.0	61.3	51.4	56.0
21	66.4	56.9	58.2	56.7	60.3	61.3	54.0	58.1	64.7	61.5	56.0	53.7
22	60.5	61.3	61.7	59.4	70.3	66.0	59.0	59.1	63.2	62.5	53.5	56.6
23	58.1	56.5	58.3	63.2	65.8	61.3	58.0	61.0	56.2	61.3	57.4	54.4
24	58.9	63.0	51.7	57.3	61.3	64.8	61.4	57.1	56.3	59.0	60.0	60.8
25	61.3	65.5	59.6	62.5	69.2	55.1	61.3	56.3	62.1	60.9	64.3	64.0
26	64.0	65.7	68.8	67.1	63.0	56.5	63.9	58.4	57.8	63.3	58.7	76.7
27	58.5	56.9	60.0	64.6	59.5	61.8	61.6	53.0	60.3	61.3	61.3	67.6
28	58.1	55.0	64.8	62.2	61.7	58.2	52.6	57.5	52.4	65.9	64.1	63.6
29	65.4	62.6	46.6	60.9	47.6	60.8	59.6	51.8	58.0	65.5	64.6	65.7
30	61.3		66.5	62.4	57.0	61.3	66.5	61.9	67.0	65.9	62.5	61.8
31	59.4		67.0		64.4		62.2	57.9		73.8		61.9
Avg	61.8	60.5	58.5	61.1	61.5	61.1	59.1	56.5	58.4	63.0	59.7	59.5
Min	57.7	53.1	43.7	54.8	47.6	54.5	52.6	46.4	47.2	52.4	51.4	53.7
Max	68.0	65.8	68.8	67.4	70.3	71.7	66.5	68.2	67.0	73.8	65.6	76.7

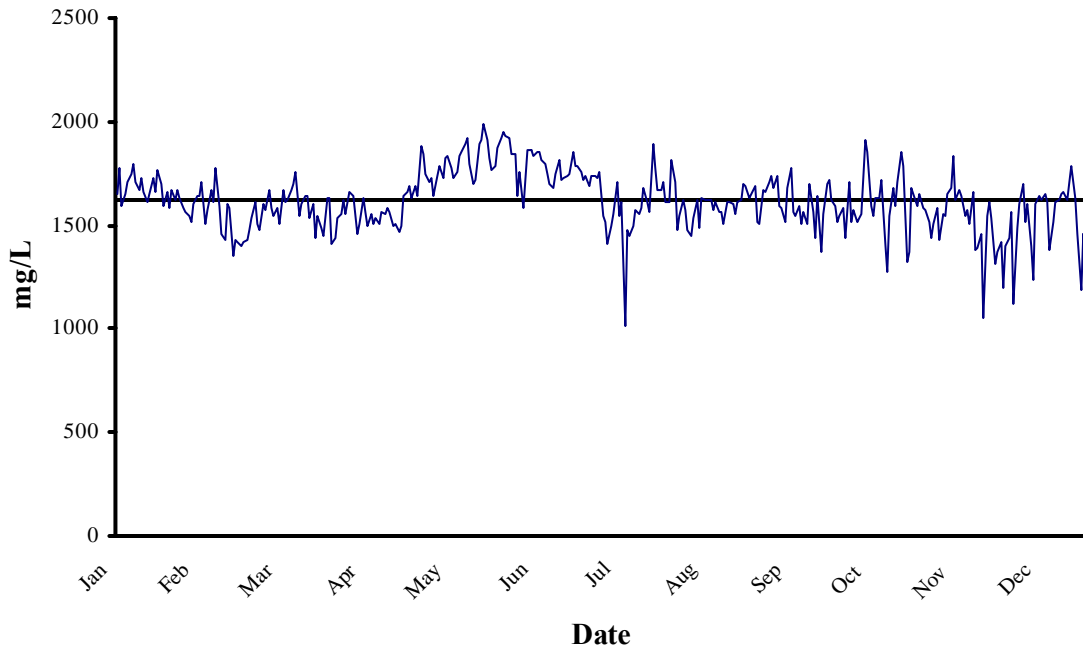
## Point Loma Wastewater Treatment Plant 2004 BOD Removal (%) Systemwide



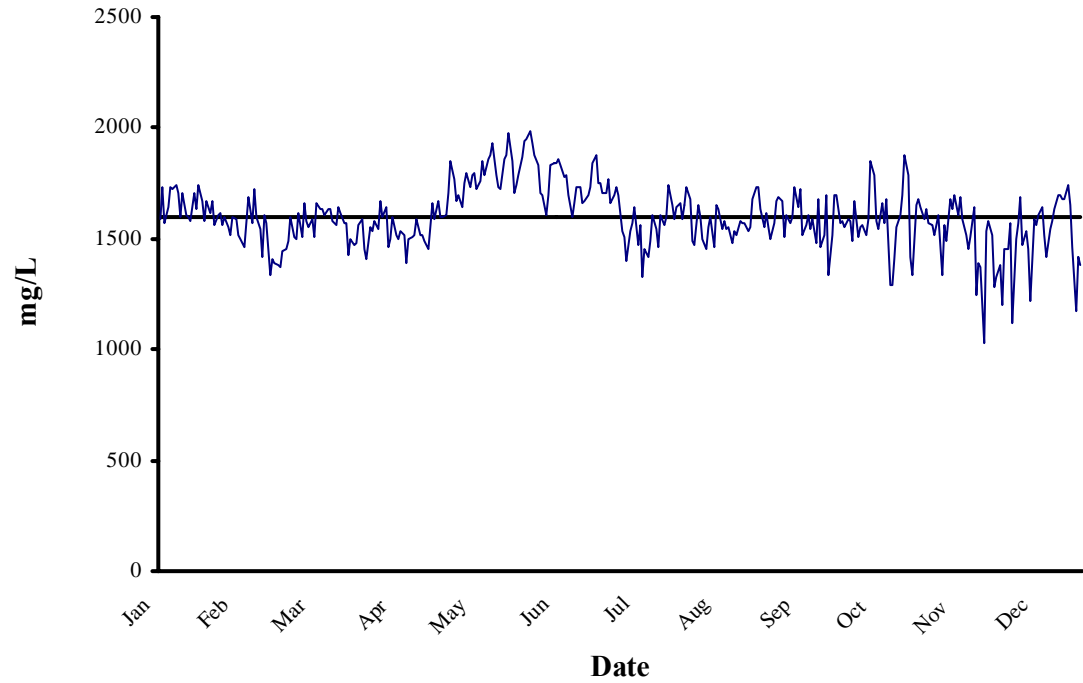
**Point Loma Wastewater Treatment Plant**  
**2004 Biochemical Oxygen Demand Removals (%) Systemwide**

Day	Jan % Rem	Feb % Rem	Mar % Rem	Apr % Rem	May % Rem	Jun % Rem	Jul % Rem	Aug % Rem	Sep % Rem	Oct % Rem	Nov % Rem	Dec % Rem
1	69.6	62.0	62.9	64.2	61.6	66.8	61.2	64.7	61.7	65.1	68.4	63.2
2	63.6	66.6	60.9	67.9	63.0	73.8	62.7	70.3	59.6	66.7	69.8	57.5
3	61.8	65.8	62.6	58.0	64.6	59.4	64.5	57.7	68.3	70.1	65.2	63.1
4	60.5	62.3	64.6	62.1	67.5	66.1	66.6	58.5	60.2	64.7	61.4	58.6
5	64.1	68.9	58.6	59.3	60.8	66.3	65.6	58.7	67.2	70.3	64.8	60.9
6	64.5	59.9	55.8	64.9	64.7	70.3	62.3	59.4	60.4	74.8	57.4	57.6
7	60.7	57.2	60.3	63.9	68.7	65.1	61.4	55.6	61.8	64.3	58.8	56.3
8	66.6	65.7	50.6	64.9	64.6	66.6	64.0	64.1	55.8	63.9	63.0	57.3
9	65.0	62.6	64.0	64.4	65.1	61.3	59.5	59.5	61.7	65.5	62.3	56.5
10	57.0	67.9	62.3	59.5	63.9	63.8	58.5	65.4	52.8	60.1	59.9	63.9
11	56.6	68.3	58.2	63.6	65.4	61.6	60.0	58.8	57.3	57.0	64.5	67.9
12	64.9	65.6	59.6	65.4	68.2	61.8	67.4	55.5	55.9	63.7	66.2	67.6
13	67.1	63.6	66.8	71.0	66.3	57.8	60.3	50.8	63.5	65.5	66.2	69.3
14	62.9	62.0	60.2	65.1	64.8	63.9	60.6	50.9	62.1	65.5	63.3	66.5
15	62.6	60.5	63.7	62.1	63.4	63.0	59.1	56.7	60.9	71.9	64.9	60.0
16	60.0	59.6	68.6	62.5	64.6	63.8	59.5	60.2	61.4	69.5	61.8	58.5
17	57.3	62.9	65.9	63.7	69.3	60.1	60.8	56.8	57.3	69.0	62.6	57.4
18	62.2	64.1	57.9	61.7	67.3	62.4	62.7	58.5	58.9	63.7	59.6	57.3
19	65.8	68.2	61.7	68.6	67.8	64.1	64.9	59.3	65.3	62.9	59.6	60.3
20	57.8	60.2	55.7	65.4	55.2	65.0	62.6	66.4	62.3	63.0	55.1	59.5
21	63.7	60.8	61.0	59.0	62.9	64.2	58.1	60.7	66.8	63.6	58.7	55.2
22	58.3	64.1	64.8	60.8	72.0	69.3	62.7	62.6	66.4	64.1	56.7	57.9
23	56.9	59.2	61.6	65.7	68.5	64.1	61.1	63.3	58.8	63.5	60.7	58.5
24	58.4	66.4	50.1	60.6	64.3	67.0	64.7	60.5	59.4	61.8	62.9	63.7
25	63.4	68.4	63.8	64.6	72.4	58.7	65.2	59.1	63.6	63.1	67.8	68.1
26	66.5	67.9	70.9	69.5	67.4	59.8	67.3	60.8	60.5	65.7	62.0	78.0
27	61.6	60.0	63.2	67.9	62.6	63.4	66.0	56.1	62.9	62.5	64.1	69.8
28	63.4	58.7	67.8	66.0	64.8	61.3	58.0	59.9	56.6	67.3	69.3	65.6
29	62.5	65.4	52.6	65.0	51.5	64.1	63.2	55.2	62.3	67.3	66.8	67.7
30	64.0		68.9	64.9	60.5	64.7	67.8	64.5	69.5	68.4	64.1	64.4
31	61.2		71.1		67.7		64.4	59.3		75.1		64.0
Avg	62.3	63.6	61.8	64.1	64.9	64.0	62.7	59.7	61.4	65.8	62.9	62.3
Min	56.6	57.2	50.1	58.0	51.5	57.8	58.0	50.8	52.8	57.0	55.1	55.2
Max	69.6	68.9	71.1	71.0	72.4	73.8	67.8	70.3	69.5	75.1	69.8	78.0

**Point Loma Influent  
2004 Total Dissolved Solids (mg/L)**



**Point Loma Effluent  
2004 Total Dissolved Solids (mg/L)**



**Point Loma Wastewater Treatment Plant  
2004 Total Dissolved Solids (mg/L)**

Day	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	1680	1650	1590	1580	1420	1370	1630	1590	1630	1600	1870	1870	1760	1750	1610	1590	1650	1550	1590	1580	1650	1590	1200	1200
2	1600	1610	1660	1670	1430	1440	1410	1450	1690	1600	1920	1940	1720	1710	1610	1650	1690	1620	1520	1550	1580	1630	1400	1450
3	1540	1590	1580	1620	1480	1450	1440	1410	1640	1610	1950	1950	1740	1710	1810	1730	1520	1550	1540	1590	1570	1570	1440	1450
4	1540	1530	1670	1670	1530	1490	1530	1550	1880	1710	1930	1990	1690	1770	1710	1680	1510	1500	1580	1580	1520	1560	1560	1570
5	1600	1580	1620	1560	1610	1600	1550	1530	1840	1850	1920	1930	1740	1660	1480	1490	1670	1570	1440	1490	1440	1520	1120	1120
6	1610	1600	1670	1610	1510	1510	1620	1580	1750	1770	1840	1880	1740	1700	1540	1470	1660	1670	1710	1670	1510	1560	1490	1500
7	1800	1800	1630	1620	1480	1500	1550	1540	1710	1670	1840	1830	1730	1730	1620	1650	1710	1690	1520	1510	1580	1610	1600	1570
8	1750	1720	1580	1560	1600	1620	1660	1670	1730	1700	1640	1710	1760	1700	1570	1600	1740	1670	1570	1550	1430	1340	1700	1690
9	1540	1570	1560	1600	1570	1510	1650	1600	1640	1640	1760	1700	1540	1530	1480	1500	1680	1510	1520	1560	1550	1560	1520	1470
10	1650	1670	1540	1550	1670	1660	1640	1640	1740	1750	1580	1610	1520	1510	1450	1450	1740	1610	1530	1520	1540	1490	1600	1530
11	1590	1600	1520	1520	1580	1580	1460	1460	1790	1800	1720	1700	1410	1400	1530	1550	1590	1570	1550	1590	1650	1680	1400	1450
12	1750	1730	1600	1600	1540	1550	1510	1500	1730	1730	1860	1830	1500	1530	1620	1600	1580	1600	1910	1850	1680	1630	1240	1220
13	1740	1760	1640	1590	1580	1590	1630	1600	1820	1790	1860	1840	1550	1570	1490	1460	1520	1730	1850	1790	1830	1700	1600	1590
14	1740	1730	1640	1520	1510	1510	1560	1520	1830	1800	1830	1840	1710	1640	1630	1650	1680	1640	1590	1580	1620	1610	1640	1560
15	1650	1590	1710	1500	1670	1660	1500	1500	1780	1720	1850	1860	1540	1470	1620	1630	1780	1720	1540	1540	1670	1690	1620	1610
16	1780	1730	1510	1460	1610	1630	1550	1530	1730	1760	1850	1830	1610	1560	1620	1540	1560	1520	1630	1660	1640	1590	1650	1640
17	1590	1570	1570	1570	1620	1630	1510	1520	1760	1850	1810	1780	1010	1330	1620	1580	1540	1560	1630	1570	1540	1520	1610	1520
18	1650	1640	1670	1690	1670	1610	1530	1390	1830	1790	1800	1790	1480	1450	1570	1540	1590	1610	1720	1680	1570	1450	1380	1420
19	1710	1730	1610	1570	1700	1630	1510	1500	1850	1860	1750	1700	1450	1420	1610	1550	1510	1540	1410	1290	1510	1510	1520	1540
20	1750	1720	1780	1720	1760	1630	1560	1510	1890	1880	1700	1600	1500	1490	1560	1480	1560	1590	1270	1290	1660	1640	1610	1580
21	1800	1740	1590	1600	1540	1580	1550	1520	1920	1930	1680	1660	1570	1610	1560	1530	1510	1480	1540	1410	1380	1250	1620	1630
22	1710	1710	1460	1540	1600	1560	1580	1590	1800	1790	1750	1730	1550	1540	1510	1520	1700	1680	1680	1550	1390	1390	1650	1700
23	1670	1600	1430	1420	1640	1640	1560	1520	1700	1730	1810	1730	1580	1460	1610	1580	1560	1460	1590	1610	1460	1370	1660	1700
24	1730	1710	1600	1610	1640	1620	1500	1520	1720	1720	1720	1660	1680	1610	1610	1570	1440	1520	1710	1700	1050	1030	1620	1680
25	1660	1610	1580	1570	1530	1570	1510	1490	1890	1860	1730	1670	1610	1560	1600	1570	1640	1700	1850	1880	1540	1530	1710	1680
26	1610	1600	1350	1340	1600	1570	1470	1450	1910	1880	1740	1700	1560	1600	1550	1530	1370	1340	1790	1790	1610	1580	1790	1740
27	1650	1580	1430	1410	1440	1430	1500	1550	1990	1980	1750	1730	1890	1740	1610	1550	1550	1520	1320	1420	1530	1520	1630	1650
28	1730	1710	1420	1390	1540	1500	1640	1660	1910	1850	1850	1840	1780	1650	1620	1680	1700	1700	1370	1340	1310	1280	1460	1460
29	1660	1630	1400	1380	1490	1470	1660	1590	1820	1710	1790	1880	1670	1590	1700	1730	1720	1700	1680	1650	1370	1330	1190	1170
30	1770	1740			1450	1480	1690	1670	1770	1740	1790	1750	1670	1640	1690	1730	1620	1570	1620	1680	1420	1380	1460	1420
31	1700	1670			1630	1560			1790	1790			1710	1660	1630	1630			1590	1640			1350	1380
Avg	1676	1659	1579	1559	1569	1553	1555	1538	1790	1770	1796	1784	1612	1590	1595	1581	1610	1590	1592	1584	1527	1504	1517	1513
Min	1540	1530	1350	1340	1420	1370	1410	1390	1630	1600	1580	1600	1010	1330	1450	1450	1370	1340	1270	1290	1050	1030	1120	1120
Max	1800	1800	1780	1720	1760	1660	1690	1670	1990	1980	1950	1990	1890	1770	1810	1730	1780	1730	1910	1880	1830	1700	1790	1740

## Toxicity Testing: Point Loma Ocean Outfall 2004

### INTRODUCTION

The City of San Diego conducts aquatic bioassays as required by the City's National Pollutant Discharge Elimination System permit (No. CA0107409 and Order No. R9-2002-0025). The permit was adopted by the California Regional Water Quality Control Board on April 10, 2002. This testing is designed to determine the acute and chronic toxicity of effluent samples collected from the Point Loma Wastewater Treatment Plant. This chapter presents summaries and discussion of toxicity testing conducted in 2004.

Toxicity testing of wastewater effluent measures the bioavailability of toxicants in a complex mixture, accounts for synergistic and antagonistic actions, and integrates any potentially adverse effects of the constituents. Acute and chronic toxicity tests are characterized by the duration of exposure to a toxicant as well as the adverse effect (measured response) produced as the result of exposure to a toxicant. Acute toxicity testing consists of a short-term exposure period, usually 96 hours or less, and the acute effect refers to mortality of the test organism.

Chronic toxicity testing, in the classic sense, refers to long-term exposure of the test organism to a potential toxicant. This may involve exposing the test organism for its entire reproductive life cycle, which may exceed 12 months for organisms such as fish. In general, chronic tests are inherently more sensitive to toxicants than acute tests in that adverse effects are detected at lower toxicant concentrations. The City of San Diego is required to conduct critical/early life stage chronic tests that are intermediate between the acute and chronic toxicity testing protocols discussed above. These test results serve as short-term estimates of chronic toxicity.

### MATERIALS & METHODS

#### Test Material

Twenty-four hour, flow-weighted, composite effluent samples were collected at the Point Loma Wastewater Treatment Plant and stored at 4° C until test initiation. All tests were initiated within 36 hours of sample collection. Dilution water for the acute topsmelt and mysid tests consisted of the same receiving water used in the chronic toxicity tests.

Acute toxicity testing was conducted semi-annually and chronic testing was conducted monthly in 2004. The protocols for both types of bioassays specify the use of unimpacted receiving water as dilution water. Receiving water was collected at water quality station B8 (see City of San Diego 2003) and used within 96 hours of collection. The receiving water samples were collected from a depth of 2 m and stored at 4° C until test initiation. Dilution water for reference toxicant testing was obtained from the Scripps Institution of Oceanography (SIO). Detailed methodology for all toxicity testing is described in the City Bioassay Lab Quality Assurance Manual. (City of San Diego 2000).

#### Acute Bioassays

##### *Topsmelt Survival Bioassay*

Topsmelt acute bioassays were conducted in accordance with USEPA protocol EPA/600/4-90/027F (USEPA 1993). Larval *Atherinops affinis* (9-14 days old) were purchased from Aquatic Bio Systems (Fort Collins, CO), and were exposed for 96 hours in a static-renewal system to 3.83, 7.75, 15.5, 31.0, and 62% effluent (nominal); test solutions were renewed at 48 hours.

Simultaneous reference toxicant testing was performed using reagent grade copper chloride. Test concentrations consisted of 56, 100, 180, 320, and 560 µg/L copper. Dilution water for reference toxicant testing was obtained from SIO, filtered, held at 4° C, and used within 96 hours of collection. Upon conclusion of the exposure period, percent survival was recorded. Tests were declared valid if control mortality did not exceed 10%. The data were analyzed using a multiple comparison procedure and point estimation method prescribed by USEPA (1993). ToxCalc software (Tidepool Scientific Software 2002) was used for all statistical analyses.

### ***Mysid Survival Bioassay***

Mysid acute bioassays were conducted in accordance with USEPA protocol EPA/600/4-90/027F (USEPA 1993). Larval *Mysidopsis bahia* (4-5 days old) were purchased from Aquatic Bio Systems (Fort Collins, CO), and were exposed for 96 hours in a static-renewal system to 3.83, 7.75, 15.5, 31.0, and 62% effluent (nominal); test solutions were renewed at 48 hours.

Simultaneous reference toxicant testing was performed using reagent grade copper chloride. Test concentrations consisted of 56, 100, 180, 320, and 560 µg/L copper. Dilution water for reference toxicant testing was obtained from SIO filtered, held at 4° C, and used within 96 hours of collection. Upon conclusion of the exposure period, percent survival was recorded. Tests were declared valid if control mortality did not exceed 10%. The data were analyzed using a multiple comparison procedure and point estimation method prescribed by USEPA (1993). ToxCalc software (Tidepool Scientific Software 2002) was used for all statistical analyses.

## **Chronic Bioassays**

### ***Kelp Germination and Growth Test***

Chronic bioassays using the giant kelp, *Macrocystis pyrifera*, were conducted in accordance with USEPA protocol EPA/600/R-95/136 (USEPA 1995). Kelp zoospores were kept in a static system and exposed for 48 hours to a series of effluent and reference toxicant concentrations. Zoospores were obtained one day prior to test initiation from the reproductive blades (sporophylls) of adult *Macrocystis* plants collected in the kelp beds near La Jolla, California.

Simultaneous reference toxicant testing was performed using reagent grade copper chloride. The concentrations of copper in the exposure series were 5.6, 10, 18, 32, 56, 100, and 180 µg/L. A reference toxicant control consisting of SIO dilution water was also tested. Upon conclusion of the exposure period, percent germination and germ-tube length were recorded.

The data were analyzed in accordance with “Flowchart for statistical analysis of giant kelp, *Macrocystis pyrifera*, germination data” and “Flowchart for statistical analysis of giant kelp, *Macrocystis pyrifera*, growth data” (see USEPA 1995). ToxCalc software (Tidepool Scientific Software 2002) was used for all statistical analyses.

### ***Red Abalone Development Bioassay***

Chronic bioassays using the red abalone, *Haliotis rufescens*, were conducted in accordance with USEPA protocol EPA/600/R-95/136 (USEPA 1995). Test organisms were purchased from Cultured Abalone (Goleta, California), and shipped via overnight delivery to the City’s bioassay laboratory. Mature male and female abalone were placed in natural seawater tanks at 15° C. Prior to test initiation, spawning was induced and abalone eggs and sperm were retained for the analysis. Subsequently, the eggs were fertilized, and a known quantity of fertilized embryos was added to each test replicate at the beginning of the 48-hour exposure period.

Simultaneous reference toxicant testing was performed using reagent grade zinc sulfate. The concentrations of zinc in the exposure series were 10, 18, 32, 56, and 100 µg/L. A reference toxicant control consisting of SIO dilution water was also tested. Upon conclusion of the exposure period, percent normal embryo development was recorded.

The percentage of normally developed embryos for each replicate was arcsine square root transformed. The data were analyzed in accordance with "Flowchart for statistical analysis of red abalone *Haliotis rufescens*, development data" (see USEPA 1995). ToxCalc software (Tidepool Scientific Software 2002) was used for all statistical analyses.

## RESULTS & DISCUSSION

### Acute Bioassays

The City conducted acute bioassays in January 2004 using both the topsmelt *Atherinops affinis* and the mysid *Mysidopsis bahia* as test organisms in accordance with Order No. R9-2002-0025. These results were used in conjunction with the results from the January and July 2003 acute screening events to select the most sensitive species. Based on the findings from all three events, the City elected to use the mysid for all subsequent acute toxicity testing. In July, the City conducted the second and final semi-annual acute bioassay using the mysid. All acute bioassays met the test acceptability criterion of >90% control survival and all tests demonstrated complete compliance with permit standards (Table T.1).

### Chronic Bioassays

Chronic bioassays on effluent samples were conducted monthly using both kelp and abalone, since the giant kelp has been the most sensitive species historically, and the red abalone remains ecologically important to the region.

The results from all 2004 giant kelp and red abalone bioassays are summarized in Table T.2. All tests met the acceptability criterion except for the red abalone bioassays conducted in December. Two attempts were made to complete the December 2004 red abalone bioassays. However, due to poor animal quality and lack of alternate animal source, both attempts failed to meet acceptability criterion and were thus declared invalid. All valid chronic bioassays were within compliance limits (Table T.2)

## LITERATURE CITED

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**TABLE T.1**

Results and compliance summary of acute bioassays conducted during 2004. Data are presented in toxic unit acute (TUa) values. The California Ocean Plan compliance limit is 6.5 TUa.

Sample Date	Topsmelt 96-Hour	Mysid 96-Hour
<b>96-hr Static-Renewal</b>		
06-Jan	4.2	5.3
18-Jul	-	3.7
N	1	2
No. in compliance	1	2
Mean TUa	4.2	4.5

**TABLE T.2**

Results of chronic toxicity testing of Point Loma Wastewater Treatment Plant effluent from January through December 2004. Data are presented in toxic unit chronic (TUc) values. NPDES permit limit is 205 TUc. N.V. = Not valid

Sample Date	Giant Kelp		Red Abalone
	Germination	Development	Development
06-Jan	64	114	64
17-Feb	64	64	64
15-Mar	64	64	64
04-Apr	64	64	64
05-May	64	64	64
06-Jun	64	114	64
06-Jul	-	-	64
15-Jul	64	64	-
02-Aug	64	64	64
07-Sep	64	64	64
05-Oct	64	64	64
04-Nov	64	64	64
07-Dec	64	64	N.V.
26-Dec	-	-	N.V.
N	12	12	11
No. in compliance	12	12	11
Mean TUc	64	72	64

E. 6-Year Tables.

Results of the determination of selected parameters on a weekly basis for the past 6-years.

ARSENIC (ug/L) 1999

Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	1.5	0.8	1.8	1	1.4	0.8	1.3	0.8	1.3	0.9	1.7	1	1.6	1.1	1.7	1.1	1.8	1.1	1.9	1.5	1.5	0.7	1.7	0.9
2	1.6	0.8	1.7	0.8	1.6	0.9	1.6	1	1.6	0.9	1.9	1.2	2	1.2	2	1.1	1.7	1.1	1.6	1.2	1.9	1	1.5	1
3	1.6	0.9	1.6	0.8	1.4	0.8	1.7	0.7	1.5	1.2	1.5	1	1.6	1.1	1.9	1.1	1.8	1.2	2.1	1.4	2	1.2	1.2	1
4			1.7	1.1	2.9	1.3	2	1.1			1.5	1	1.5	1.4	1.7	1.1	1.4	1	2.1	1			1.1	0.9
Avg	1.6	0.8	1.7	0.9	2	1.3	1.7	0.9	1.5	1	1.6	1.1	1.7	1.2	1.8	1.1	1.7	1.1	1.9	1.3	1.8	1	1.4	0.9

ARSENIC (ug/L) 2000

Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	1.4	0.6	1.6	0.9	1.1	1.2	1.5	0.8	2.1	<0.2	0.3	<0.2	1.2	0.7	1.2	0.9	1.2	1	1.3	1.1	1.6	0.9	1	0.4
2	1.5	0.7	1.4	1	1.2	0.8	1.5	0.9	1.5	<0.2	1.4	1.1	1.5	0.8	1.1	1	1.3	1	1.3	0.8	1.2	1.1	1.2	0.7
3	1.3	0.8	1.5	1.1	0.9	0.7	1.4	0.9	2.3	0.2	1.1	0.9	1.3	0.8	1	0.7	0.8	0.7	1.4	1	1.3	0.9	1	0.7
4	1.2	0.7	1.4	0.8	1.1	0.6			0.2	0.7	1.5	0.8	1.3	1.2	2.2	1.4			1.5	1.1	0.9	0.8	1.2	0.9
Avg	1.3	0.8	1.5	0.9	1.1	0.8	1.5	0.9	1.5	0.2	1.1	0.7	1.3	0.9	1.8	1.1	1.1	0.9	1.4	1	1.2	0.9	1.1	0.7

ARSENIC (ug/L) 2001

Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	1.1	0.7	1.3	0.8	1.3	1	0.9	<0.2	1.2	0.8	4.3	1	1.2	0.7	1.6	1.1	1.6	1.1	2	0.9	1	1.1	1.7	0.9
2	1.5	0.8	1.5	0.9	0.7	1	0.7	0.5	1.2	1	1.1	0.7	1.1	0.7	1.4	0.9	0.7	1.2	1	0.3	1.7	1.1	1.3	0.6
3	0.8	0.6	0.9	0.6	1.1	<0.2	1.1	0.6	1	1	1.4	1	1.3	0.9	1.6	1.1	1.4	0.8	1.1	1	1.8	1.1	1.1	0.8
4	1.4	1			0.6	0.4	0.8	0.4	1.2	0.8	1.4	1			1.5	1.1	0.6	0.2	1.5	1.1	1.5	0.9	1.4	0.8
Avg	1.2	0.8	1.2	0.8	0.9	0.6	0.9	0.4	1.1	0.9	2.1	0.9	1.2	0.8	1.5	1.1	1.1	0.8	1.4	0.8	1.5	1	1.3	0.8

ARSENIC (ug/L) 2002

Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	0.88	0.65	1.4	0.89	1.1	0.62	1.6	1.54	1.2	1.14	1.74	0.98	2.31	1.89	1.23	1.17	1.73	1.72	1.86	1.52	1.87	1.56	1.29	0.91
2	1.33	0.84	1.72	0.92	1.16	0.9	0.99	0.57	1.83	1.34	1.53	0.9	2.96	2.34	2.76	2.25	2.18	1.95	1.06	0.74	1.88	1.58	2.73	2.36
3	1.21	1.09	1.05	0.65	0.61	0.69	1.57	1.59	2.34	1.56	2.84	2.74	2.65	1.74	2.13	1.14	1.87	1.55	1.86	1.74	1.12	0.75	1.53	1.02
4			1.38	1.13	0.72	0.82	1.14	0.66			1.44	1.06	1.83	1.46	2.81	1.87	1.2	0.81	2.33	2.41			1.52	0.76
Avg	1.14	0.86	1.39	0.9	0.9	0.76	1.33	1.09	1.79	1.35	1.89	1.42	2.44	1.86	2.23	1.61	1.75	1.51	1.78	1.6	1.62	1.3	1.77	1.26

ARSENIC (ug/L) 2003

Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	1.00	0.75	1.30	0.69	1.37	0.86	1.04	0.55	2.49	2.44	2.03	1.32	0.72	<0.40	1.87	1.84	1.56	1.72	1.13	0.86	1.06	0.62	1.84	2.10
2	1.89	1.27	2.12	1.30	3.06	0.70	2.26	2.07	1.99	1.37	1.91	1.38	0.86	0.76	1.66	1.86	1.22	1.01	1.55	0.98	2.77	2.06	0.92	0.72
3	1.00	0.48	1.79	1.53	1.60	0.93	2.78	1.78	2.98	2.16	0.99	0.64	0.97	0.59	1.47	1.62	2.82	2.13	1.68	1.48	1.22	1.11	1.57	1.70
4	1.77	1.10	1.99	1.03			1.71	1.83	1.83	1.35	1.76	1.34	1.28	1.24	0.76	0.79			2.19	2.10	0.88	0.67	1.97	1.93
Avg	1.42	0.90	1.80	1.14	2.01	0.83	1.95	1.56	2.32	1.83	1.67	1.17	0.96	0.65	1.44	1.53	1.87	1.62	1.64	1.36	1.48	1.12	1.58	1.61

ARSENIC (ug/L) 2004

Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	1.05	0.84			1.42	0.84	1.45	1.38	1.93	2.36	1.09	1.11	1.40	1.04	0.83	<0.40	2.24	1.06	1.32	0.86	1.56	0.91	2.18	1.25
2	2.13	1.32	1.20	0.68	2.15	1.44	1.07	0.51	1.10	1.45	1.90	1.28	0.99	0.63	0.62	NA	1.70	1.42	1.31	1.27	1.09	0.68	1.59	1.28
3	2.05	1.88	0.77	ND	2.16	1.89	1.83	1.32	1.41	0.88	1.84	1.20			1.75	1.38	1.02	0.69	2.73	1.76	1.36	0.99	1.71	1.57
4	2.30	1.70	2.57	1.29	0.99	0.46	1.49	0.90	1.25	1.37	2.06	1.22	1.26	0.89	1.64	1.24	1.29	1.17	3.68	1.82	0.96	0.72	1.92	0.88
Avg	1.88	1.44	1.51	0.66	1.68	1.16	1.46	1.03	1.42	1.52	1.72	1.20	1.22	0.85	1.21	0.87	1.56	1.09	2.26	1.43	1.24	0.83	1.85	1.25

CADMIUM (ug/L) 1999

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	
1	<1.0	<1.0	<1.0	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	<1.0
2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.3	<1.0
3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0	
Avg	<1.0	<1.0	<1.0	<1.0	0.3	<1.0	0.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.3	0.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.6	<1.0

CADMIUM (ug/L) 2000

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	
1	1	1.1	1.7	<1.0	1	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.6	1.3	<1.0	1.6	<1.0	<1.0	<1.0	<1.0	
2	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	1.5	<1.0	<1.0	1.7	<1.0	1.4	<1.0	<1.0	<1.0	<1.0
3	1.2	<1.0	1	<1.0	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.6	1.4	<1.0	1.3	<1.0	<1.0	<1.0	1.2	<1.0	2.8	<1.0	
4	1.7	<1.0	<1.0	<1.0	<1.0	<1.0			<1.0	<1.0	14.6	<1.0	<1.0	<1.0	<1.0	<1.0			<1.0	1.4	<1.0	<1.0	<1.0	<1.0	
Avg	1.3	0.3	0.7	<1.0	0.8	<1.0	<1.0	<1.0	<1.0	<1.0	3.7	<1.0	<1.0	0.4	0.7	0.4	0.4	0.5	0.8	0.4	<1.0	<1.0	0.7	<1.0	

CADMIUM (ug/L) 2001

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2	<1.0	<1.0	2.8	<1.0	<1.0	2.2	1.3	<1.0	2.8	<1.0	2.2	<1.0	<1.0	<1.0	2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
3	<1.0	2.5	2.6	<1.0	<1.0	<1.0	<1.0	<1.0	3.7	2.8	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4	<1.0	<1.0			<1.0	2.3	1.4	<1.0	2.5	<1.0	1.8	1.3		2.8	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	<1.0	<1.0
Avg	<1.0	0.6	1.8	<1.0	<1.0	1.1	0.7	<1.0	2.6	0.7	1	0.3	<1.0	<1.0	1.6	0.3	<1.0	<1.0	<1.0	<1.0	<1.0	0.4	<1.0	<1.0

CADMIUM (ug/L) 2002

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	1.3	<1.0	<1.0	<1.0	2.5	<1.0	2.1	<1.0	<1.0	<1.0	1.3	1.6	2.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.9	<1.0
2	1.7	<1.0	<1.0	<1.0	<1.0	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	2.1	<1.0	<1.0	3.8	<1.0	<1.0	<1.0	<1.0	1.4	1.6	<1.0	<1.0
3	1	<1.0	<1.0	<1.0	<1.0	<1.0	1.6	<1.0	<1.0	<1.0	1.2	<1.0	2.2	<1.0	1.5	2.4	<1.0	<1.0	1	<1.0	1.2	1.8	1.7	<1.0
4	<1.0	<1.0	1.5	<1.0	<1.0	<1.0	2.5	1.8			<1.0	<1.0	<1.0	3.4	<1.0	4.5	<1.0	<1.0	1.1	<1.0		<1.0	<1.0	<1.0
Avg	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	1.9	<1.0	<1.0	<1.0	0.6	<1.0	1.6	<1.0	<1.0	2.7	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0

CADMIUM (ug/L) 2003

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	ND	ND	ND	ND	ND	1.3	<1.0	ND	ND	ND	ND	ND	2.4	1.0	ND	ND	1.5	ND	ND	ND	ND	1.4	ND	ND
2	<1.0	<1.0	ND	ND	ND	ND	ND	ND	1.6	ND	ND	ND	<1.0	ND	ND	ND	<1.0	ND	2.0	ND	ND	ND	ND	ND
3	2.5	2.8	ND	ND	<1.0	2.2	ND	ND	2.5	ND	<1.0	ND	ND	<1.0	ND	ND	ND	ND	1.0	ND	ND	ND	ND	ND
4	<1.0	2.0	1.4	ND							1.8	ND	ND	ND	ND	ND			ND	ND	ND	1.1	ND	1.3
Avg	0.6	1.2	0.4	ND	0.0	1.2	0.0	ND	1.0	ND	0.5	ND	0.6	0.3	ND	ND	0.5	ND	0.8	ND	ND	0.6	ND	0.3

CADMIUM (ug/L) 2004

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	1.2	ND			ND	ND	ND	ND	1.1	1.0	0.2	0.2	0.4	0.3	0.4	ND	0.7	0.4	0.5	ND	0.2	ND	0.3	ND
2	ND	1.5	ND	1.5	ND	ND	ND	ND	ND	ND	0.5	ND	0.5	ND	0.6	0.4	0.8	0.4	0.4	ND	0.3	ND	0.4	ND
3	ND	ND	2.0	ND	ND	ND	ND	ND	1.1	<1.0	0.4	ND			0.7	0.5	0.5	0.4	0.7	0.3	0.3	ND	0.4	ND
4	ND	<1.0	2.1	<1.0	ND	ND	ND	ND	ND	ND	1.0	0.3	0.5	<0.2	1.1	0.5	0.6	0.2	0.5	0.4	0.2	ND	0.2	ND
Avg	0.3	0.4	0.4	0.5	ND	ND	ND	DN	0.6	0.3	0.5	0.1	0.5	0.1	0.7	0.4	0.7	0.4	0.5	0.2	0.3	ND	0.3	ND

CHROMIUM (ug/L) 1999																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	65	<5	8	<5	18	<5	<5	<5	<5	<5	8	<5	7	<5	10	6	<5	<5	<5	<5	<5	<5	<5	<5
2	13	<5	17	<5	9	6	<5	<5	<5	<5	12	<5	<5	<5	14	<5	8	8	<5	<5	<5	<5	7	<5
3	10	<5	12	<5	13	<5	<5	<5	8	<5	11	<5	5	<5	9	<5	<5	<5	<5	<5	<5	<5	7	<5
4			9	<5	10	<5	<5	<5			6	<5	<5	<5	14	7	<5	<5	<5	<5	<5		7	<5
Avg	29	<5	11	<5	13	2	<5	<5	3	<5	9	<5	3	<5	12	3	2	2	<5	<5	<5	<5	5	<5

CHROMIUM (ug/L) 2000																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	6	<5	<5	<5	<5	<5	14	<5	11	<5	12	<5	<5	<5	6	<5	8	<5	7	<5	6	<5	15	<5
2	8	<5	<5	<5	<5	<5	7	<5	9	<5	7	<5	<5	<5	<5	<5	11	<5	13	<5	9	<5	16	<5
3	10	<5	8	<5	<5	<5	7	<5	9	<5	8	<5	<5	30	9	<5	11	<5	7	<5	<5	<5	16	9
4	<5	<5	<5	<5	<5	<5			13	<5	10	<5	<5	<5	7	<5			<5	<5	<5	<5	17	7
Avg	6	<5	2	<5	<5	<5	9	<5	10	<5	9	<5	<5	7	6	<5	10	<5	7	<5	<5	<5	16	4

CHROMIUM (ug/L) 2001																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	15	32	16	12	<5	<5	<5	<5	11	<5	8	<5	<5	<5	5	<5	14	<5	8	<5	15	<5	<5	<5
2	9	9	<5	<5	9	<5	<5	<5	<5	<5	11	<5	12	<5	6	<5	7	<5	<5	<5	<5	<5	<5	<5
3	<5	8	<5	<5	7	<5	<5	<5	11	<5	9	<5	11	<5	<5	<5	<5	<5	6	<5	<5	<5	<5	<5
4	16	21			11	6	<5	<5	6	<5	<5	6			<5	<5	6	<5	8	<5	<5	<5	<5	<5
Avg	11	18	5	4	7	2	<5	<5	7	<5	7	1	8	<5	3	<5	7	<5	<5	<5	4	<5	<5	<5

CHROMIUM (ug/L) 2002																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	6.3	<5	<5	<5	6.8	<5	<5	<5	<5	<5	9.1	<5	<5	<5	<5	<5	<5	<5	<5	<5	9.3	<5	8.3	<5
2	8.3	<5	<5	<5	7.4	<5	9.7	<5	<5	<5	7.8	<5	8.9	7.2	8	<5	<5	<5	<5	<5	6.5	<5	7.2	<5
3	5.4	<5	<5	<5	<5	<5	7.1	<5	8.8	<5	13.7	<5	6.8	<5	<5	<5	<5	<5	<5	<5	<5	<5	6.1	<5
4			6	<5	<5	<5	<5	<5			6.7	<5	<5	<5	11.4	<5	<5	<5	<5	<5	<5		<5	<5
Avg	6.7	<5	<5	<5	<5	<5	<5	<5	<5	<5	9.3	<5	<5	<5	<5	<5	<5	<5	<5	<5	5.3	<5	5.4	<5

CHROMIUM (ug/L) 2003																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	ND	<5.0	17.3	ND	8.1	ND	6.1	ND	10.0	<5	<5.0	<5.0	<5.0	ND	11.8	7.5	ND	ND	8.1	5.7	ND	ND	ND	ND
2	<5.0	ND	6.1	ND	6.5	ND	6.9	ND	<5.0	ND	<5.0	<5.0	6.0	<5.0	10.5	<5.0	ND	ND	5.2	ND	6.7	ND	14.2	ND
3	20.1	ND	7.9	ND	6.8	ND	ND	<5.0	5.9	ND	8.7	ND	11.5	13.6	<5.0	<5.0	ND	ND	ND	ND	5.8	9.6	9.5	ND
4	9.2	ND	<5.0	ND			20.7	ND	8.2	ND	<5.0	ND	9.5	<5.0	13.4	<5.0			ND	ND	ND	ND	8.9	<5.0
Avg	7.3	0.0	7.8	ND	7.1	ND	8.4	0.0	6.0	ND	2.2	0.0	6.8	3.4	8.9	1.9	ND	ND	3.3	1.4	3.1	2.4	8.2	0.0

CHROMIUM (ug/L) 2004																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	10.4	ND			ND	ND	5.5	ND	ND	ND	5.8	2.0	16.4	2.7	7.5	4.3	5.6	2.0	5.7	1.4	6.5	0.9	5.6	2.1
2	ND	ND	7.1	ND	7.2	ND	13.8	ND	19.1	ND	12.0	1.7	7.9	1.9	17.5	20.6	4.5	4.3	9.2	2.5	6.1	1.8	7.8	1.7
3	ND	ND	10.3	ND	6.3	ND	16.5	ND	ND	ND	10.0	1.4			6.4	17.1	5.6	1.6	14.4	4.5	6.1	1.7	6.0	1.6
4	8.4	ND	6.2	<5.0	ND	ND	ND	ND	ND	11.7	5.5	1.5	6.1	6.1	22.2	2.6	4.5	1.7	5.5	1.8	4.9	1.6	4.5	1.0
Avg	4.6	ND	7.9	0.0	3.4	ND	8.9	ND	4.8	2.9	8.3	1.7	10.1	3.6	13.4	11.2	5.1	2.4	8.7	2.6	5.9	1.5	6.0	1.6

COPPER (ug/L) 1999																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	96	60	97	98	159	75	117	46	149	55	103	72	133	64	99	44	118	45	108	75	136	73	93	31
2	119	88	110	40	156	43	88	40	133	45	129	70	133	159	143	24	169	60	104	72	137	53	116	120
3	90	29	91	65	121	40	112	70	246	124	178	45	167	58	107	117	116	34	130	33	142	46	97	31
4			120	66	106	37	82	46			119	33	128	56	96	38	235	155	131	115			112	68
Avg	102	59	105	67	136	49	100	51	176	75	132	55	140	84	111	56	160	74	118	74	138	57	105	63

COPPER (ug/L) 2000																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	150	49	158	58	206	47	88	32	215	45	203	95	156	199	156	52	280	74	137	60	209	106	167	155
2	153	60	125	51	154	72	185	29	219	59	139	133	73	213	191	133	192	56	291	66	215	150	135	67
3	115	47	157	73	164	56	198	93	131	41	147	53	210	366	162	48	133	39	217	149	137	83	204	58
4	127	75	107	57	180	79			169	120	250	52	197	98	174	66			201	85	188	147	157	51
Avg	136	58	137	60	176	64	157	51	184	66	185	83	159	219	171	75	202	56	212	90	187	122	166	83

COPPER (ug/L) 2001																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	193	114	185	98	174	121	223	99	152	63	165	226	160	90	185	79	253	73	329	63	129	26	196	84
2	202	141	158	205	162	61	168	90	178	177	268	69	164	68	327	185	138	70	234	121	169	110	181	81
3	194	93	197	157	204	127	177	84	192	163	207	95	178	159	323	174	274	149	122	256	109	94	198	91
4	186	112			165	92	185	88	270	102	131	88			157	141	197	176	218	91	162	109	185	85
Avg	194	115	180	153	176	100	188	90	198	126	193	120	167	106	248	145	216	117	226	133	142	85	190	85

COPPER (ug/L) 2002																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	140	49	126	42	256	185	156	59	130	39	139	107	174	115	120	39	117	44	127	51	202	38	159	60
2	194	49	223	72	243	45	161	46	190	101	139	76	252	67	144	65	156	219	179	89	199	134	159	89
3	246	83	140	154	144	122	135	45	104	92	143	41	231	29	197	75	119	76	143	78	153	77	143	45
4			140	100	129	63	141	91			147	120	110	82	199	94	92	73	206	49			105	20
Avg	193	60	157	92	195	104	148	60	141	77	142	86	192	73	165	68	121	103	164	67	185	83	142	54

COPPER (ug/L) 2003																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	111	18	129	16	175	36	186	42	120	44	125	101	313	175	139	76	244	237	85	54	145	325	107	88
2	146	42	106	81	167	43	149	77	132	43	172	48	138	63	218	64	138	81	94	182	161	46	183	237
3	107	52	146	33	156	87	130	69	125	61	159	36	291	79	131	74	115	170	78	51	198	69	372	79
4	98	28	126	35			161	60	162	49	160	57	188	53	156	71			127	21	150	60	107	54
Avg	116	35	127	41	166	55	157	62	135	49	154	61	233	93	161	71	166	163	96	77	164	125	192	115

COPPER (ug/L) 2004																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	144	49			121	40	158	47	107	86	95	54	105	56	93	29	100	43	113	22	116	51	115	27
2	127	61	202	118	140	47	169	44	169	91	125	65	97	28	145	52	124	25	90	30	106	30	123	21
3	118	61	181	24	134	110	133	48	124	17	103	47			127	31	74	29	100	26	99	23	146	22
4	131	29	91	51	231	82	134	38	82	19	116	32	83	29	144	34	77	28	73	24	103	20	82	23
Avg	130	50	158	64	157	70	149	44	121	53	110	50	95	38	127	37	94	31	94	26	106	31	117	23



NICKEL (ug/L) 1999

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC			
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff		
1	45	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	20	<14	<14	<14	<14	<14	<14	<14	<14	20	<14	
2	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	16	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	27	<14
3	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	21	<14
4			<14	<14	<14	<14	17	<14			17	<14	<14	<14	<14	<14	<14	15	<14	<14			<14	29		
Avg	15	<14	<14	<14	<14	<14	4	<14	<14	<14	8	<14	<14	<14	5	<14	<14	4	<14	<14	<14	<14	<14	17	7	

NICKEL (ug/L) 2000

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	
1	<14	<14	<14	<14	<14	<14	<14	19	15	<14	<14	<14	19	19	19	<14	<14	<14	<14	15	<14	<14	<14	<14	<14
2	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	16	19	31	72	<14	<14	<14	30	<14	<14	<14	<14	<14
3	<14	<14	<14	<14	<14	<14	16	<14	19	24	<14	<14	<14	26	34	33	<14	<14	<14	<14	<14	<14	<14	<14	<14
4	<14	<14	<14	<14	<14	16			19	<14	15	<14	16	<14	26	<14			<14	<14	<14	<14	<14	<14	<14
Avg	<14	<14	<14	<14	<14	4	5	6	13	6	4	<14	13	16	28	26	<14	<14	11	<14	<14	<14	<14	<14	<14

NICKEL (ug/L) 2001

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	
1	<14	22	17	<14	<14	<14	<14	17	<14	<14	<14	<14	15	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14
2	<14	15	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	29	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14
3	<14	<14	21	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	18	<14	<14	<14	<14	<14	<14	<14	<14	<14
4	<14	<14		<14	<14	<14	<14	<14	<14	<14	<14	<14			<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14
Avg	<14	9	13	<14	<14	<14	<14	4	<14	<14	<14	<14	15	<14	<14	<14	5	<14	<14	<14	<14	<14	<14	<14	<14

NICKEL (ug/L) 2002

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	
1	20	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14
2	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14
3	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	17	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14
4			<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14
Avg	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14

NICKEL (ug/L) 2003

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	
1	<14	ND	<14	ND	ND	ND	ND	ND	34	ND	ND	<14	18	ND	ND	ND	<14	ND	ND	ND	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<14	ND	16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	<14	ND	<14	ND	<14	<14	ND	ND	<14	ND	<14	18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	<14			<14	ND	ND	ND	ND	ND	<14	<14	ND	ND			ND	ND	ND	ND	ND	ND	ND
Avg	0	ND	0	0	0	ND	0	0	9	ND	0	0	9	5	ND	ND	0	ND	ND	ND	ND	ND	ND	ND	ND

NICKEL (ug/L) 2004

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	21	ND			ND	ND	ND	ND	ND	ND	9	9	14	10	11	8	12	8	14	10	15	12	9	6
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13	8	13	8	21	22	14	9	12	8	11	8	10	7
3	ND	ND	ND	ND	ND	ND	14	ND	ND	ND	15	7			14	17	11	9	17	10	10	7	11	6
4	19	22	ND	<14	ND	ND	17	ND	ND	ND	9	8	12	10	20	10	10	7	13	9	8	6	8	6
Avg	10	6	ND	0	ND	ND	8	ND	ND	ND	12	8	13	9	17	14	12	8	14	9	11	8	10	6

MERCURY (ug/L) 1999																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	0.34	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27
2	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	0.54	0.44	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	0.41	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27
3	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	0.48	<0.27	<0.27	<0.27	0.55	<0.27	<0.27	<0.27	<0.27	<0.27	0.45	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27
4			<0.27	<0.27	<0.27	<0.27	<0.27	<0.27			<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	0.42	<0.27	<0.27	<0.27	<0.27
Avg	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	0.26	0.11	<0.27	<0.27	0.14	<0.27	<0.27	<0.27	0.19	<0.27	0.11	<0.27	0.11	<0.27	<0.27	<0.27	<0.27	<0.27

MERCURY (ug/L) 2000																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	<0.27	<0.27	0.54	<0.27	<0.27	<0.27	<0.27	<0.27	0.86	<0.27	<0.27	<0.27	0.33	<0.27	<0.27	<0.27	<0.27	<0.27	0.71	<0.27	<0.27	<0.27	<0.27	<0.27
2	<0.27	<0.27	<0.27	<0.27	0.46	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	0.27	0.27	<0.27	<0.27	<0.27
3	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	0.35	<0.27	0.38	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	1.08	<0.27	<0.27	0.37	<0.27	<0.27	<0.27	<0.27
4	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27			0.46	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	0.4	<0.27
Avg	<0.27	<0.27	0.14	<0.27	0.12	<0.27	0.12	<0.27	0.43	<0.27	<0.27	<0.27	0.08	<0.27	<0.27	<0.27	0.36	<0.27	0.27	0.07	<0.27	<0.27	<0.27	0.1

MERCURY (ug/L) 2001																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	0.36	<0.27	<0.27	<0.27	0.46	<0.27	0.28	<0.27	0.39	<0.27	<0.27	<0.27	<0.27	<0.27
2	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	0.42	<0.27	0.3	<0.27	<0.27	<0.27	0.34	<0.27	0.39	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27
3	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	0.59	<0.27	0.34	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	0.32	<0.27	<0.27	<0.27
4	<0.27	<0.27			<0.27	<0.27	<0.27	<0.27	0.41	<0.27	0.29	<0.27			<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	0.47	<0.27	<0.27	<0.27
Avg	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	0.36	<0.27	0.32	<0.27	<0.27	<0.27	0.2	<0.27	0.17	<0.27	0.1	<0.27	0.2	<0.27	<0.27	<0.27

MERCURY (ug/L) 2002																									
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff	
1	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.2	0.14	0.24	<0.09
2	0.31	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.31	0.1	<0.09	<0.09
3	0.42	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.32	<0.09	0.2	<0.09
4			<0.27	<0.27	<0.27	<0.27	<0.27	<0.27			<0.27	<0.27	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.09	0.09	<0.09	
Avg	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	0.27	<0.27	<0.27	<0.27	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.28	<0.09	0.13	<0.09

MERCURY (ug/L) 2003																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	0.25	ND	0.27	ND	0.51	ND	0.22	ND	ND	ND	0.23	ND	0.23	ND	0.22	ND	0.37	ND	ND	ND	0.12	ND	0.28	ND
2	0.13	ND	0.32	ND	0.11	ND	0.19	ND	0.64	0.20	0.16	ND	0.14	ND	0.25	ND	0.30	0.32	0.16	ND	0.31	ND	ND	ND
3	ND	ND	0.42	ND	0.51	ND	0.22	<0.09	1.14	0.70	0.27	ND	0.17	ND	0.14	ND	1.24	ND	0.15	ND	0.42	ND	ND	ND
4	0.11	ND	ND	ND			0.36	ND	0.20	ND	ND	ND	0.29	0.26	ND	ND		ND	ND	NA	NA	0.10	ND	
Avg	0.12	ND	0.25	ND	0.38	ND	0.25	0.00	0.50	0.23	0.17	ND	0.21	0.07	0.15	ND	0.64	0.11	0.08	ND	0.28	ND	0.10	ND

MERCURY (ug/L) 2004																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	ND	ND		0.38	ND	0.75	ND	0.23	ND	ND	0.11	ND	0.22	ND	ND	0.11	ND	0.32	ND	0.41	ND	0.10	ND	ND
2	0.26	ND	0.11	ND	0.77	ND	0.19	ND	0.13	ND	0.17	ND	0.26	ND	0.19	ND	0.19	ND	0.14	ND	0.34	ND	0.16	ND
3	0.54	ND	ND	ND	0.20	ND	0.11	ND	ND	ND	0.23	ND		0.24	ND	0.14	ND	0.16	ND	ND	ND	0.15	ND	ND
4	0.24	ND	0.39	ND	0.18	ND	0.21	ND	0.11	ND	0.13	ND	0.19	ND	0.22	ND	ND	ND	0.15	ND	0.21	ND	ND	ND
Avg	0.26	ND	0.17	ND	0.38	ND	0.32	ND	0.12	ND	0.16	ND	0.22	ND	0.16	ND	0.11	ND	0.19	ND	0.24	ND	0.10	ND

SILVER (ug/L) 1999

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	<6.6	<6.6	<6.6	<6.6	9.9	<6.6	<6.6	<6.6	8.3	<6.6	<6.6	7.9	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	27.2	<6.6	<6.6	<6.6	<6.6
2	<6.6	<6.6	<6.6	<6.6	16	7.6	<6.6	<6.6	6.6	<6.6	<6.6	8.8	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	9	<6.6	<6.6	<6.6
3	<6.6	<6.6	<6.6	<6.6	11.9	<6.6	<6.6	<6.6	14.2	<6.6	<6.6	11.2	<6.6	<6.6	10.9	<6.6	<6.6	<6.6	<6.6	13.1	<6.6	<6.6	<6.6	<6.6
4			<6.6	<6.6	<6.6	14.2	<6.6	<6.6			<6.6	<6.6	<6.6	<6.6	<6.6	6.7	<6.6	<6.6	<6.6	<6.6			<6.6	<6.6
Avg	<6.6	<6.6	<6.6	<6.6	9.5	5.5	<6.6	<6.6	9.7	<6.6	<6.6	7	<6.6	<6.6	2.7	1.7	<6.6	<6.6	<6.6	10.1	3	<6.6	<6.6	<6.6

SILVER (ug/L) 2000

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	27.2	<6.6	<6.6	9.8	<6.6
2	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6
3	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	12.3	<6.6	<6.6	<6.6	<6.6	<6.6	13.1	<6.6	<6.6	6.7	<6.6
4	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6		<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	7.8	<6.6	<6.6		<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6
Avg	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	5	<6.6	<6.6	<6.6	<6.6	<6.6	10.1	<6.6	<6.6	4.1	<6.6

SILVER (ug/L) 2001

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	<6.6	<6.6	<6.6	<6.6	<6.6	1	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	12.1	<6.6	7.4	<6.6	<6.6	<6.6	<6.6	<6.6	7	<6.6	<6.6	<6.6
2	<6.6	<6.6	<6.6	9.1	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	15.7	<6.6	8.1	<6.6	<6.6	<6.6	<6.6	<6.6	20.9	<6.6	<6.6	<6.6
3	<6.6	<6.6	<6.6	11	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	11.5	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6
4	<6.6	<6.6			13.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6			<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6
Avg	<6.6	<6.6	<6.6	6.7	3.4	2.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	9.3	<6.6	6.8	<6.6	<6.6	<6.6	<6.6	<6.6	7	<6.6	<6.6	<6.6

SILVER (ug/L) 2002

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	18.2	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6
2	<6.6	<6.6	9.3	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	11.1	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	9.8	<6.6
3	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	8.8	<6.6	<6.6	<6.6	7.5	19.7	<6.6	<6.6	8.7	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	9.4	<6.6
4				<6.6	<6.6	<6.6	7.5	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	11.6	<6.6	<6.6
Avg	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	9.5	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	7.7	<6.6

SILVER (ug/L) 2003

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	ND	ND	<6.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.6	7.6	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND			ND	ND	7.5	ND	ND	ND	ND	ND	ND	<6.6		ND	ND	ND	ND	ND	ND	ND
Avg	ND	ND	ND	ND	ND	ND	0.0	ND	1.9	ND	ND	ND	ND	ND	ND	0.0	ND	ND	ND	ND	ND	1.7	1.9	ND

SILVER (ug/L) 2004

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	ND	ND			ND	ND	ND	ND	ND	ND	5.5	0.9	4.1	0.7	0.9	ND	3.7	0.4	3.6	<0.2	1.5	ND	1.7	ND
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.5	1.3	3.6	0.4	4.1	0.4	3.4	0.2	3.6	0.7	ND	ND	0.2	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.7	1.5			3.8	0.6	1.1	0.2	2.9	0.4	ND	ND	ND	ND
4	ND	ND	ND	ND			ND	ND	ND	ND	3.9	1.2	1.4	0.2	4.8	0.4	0.5	0.7	1.9	0.3	2.2	ND	0.9	ND
Avg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.4	1.2	3	0.4	3.4	0.4	2.2	0.4	3.0	0.4	1.9	ND	0.7	ND

ZINC (ug/L) 1999

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	140	29	107	32	154	40	112	31	140	41	159	40	182	29	176	70	307	35	162	33	118	46	132	25
2	153	44	182	38	146	36	119	34	122	26	181	34	142	37	185	62	182	48	184	36	160	43	139	257
3	122	31	147	30	124	33	118	36	143	34	165	45	147	36	169	47	146	54	148	38	147	68	125	56
4			139	38	161	33	124	26			174	77	163	52	143	42	151	34	140	34			108	42
Avg	138	35	144	35	146	36	118	32	135	34	170	49	159	39	168	55	197	43	159	35	142	52	126	95

ZINC (ug/L) 2000

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	126	32	182	62	142	37	136	35	182	39	144	24	226	135	166	25	140	27	115	22	152	26	165	42
2	181	33	190	69	179	33	110	26	179	33	126	23	261	150	154	21	169	25	270	23	141	27	175	31
3	152	50	151	67	148	30	116	27	148	39	155	23	249	151	158	27	130	20	137	29	134	34	171	33
4	150	43	175	69	147	58			154	31	170	28	222	127	144	23			129	29	117	33	171	35
Avg	152	40	175	67	154	40	121	29	166	36	149	25	240	141	156	24	146	24	163	26	136	30	171	35

ZINC (ug/L) 2001

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	145	28	142	34	124	36	166	29	157	41	188	66	133	25	152	29	111	20	153	26	163	30	142	29
2	124	30	129	36	123	34	141	29	133	39	157	27	141	28	277	30	135	25	142	22	160	24	113	25
3	122	31	138	35	109	33	225	57	160	46	154	39	143	24	269	29	158	37	132	23	124	25	102	21
4	121	31			135	28	142	46	155	42	124	41			204	27	147	35	121	20	134	24	135	21
Avg	128	30	136	35	123	33	169	40	151	42	156	43	139	26	226	29	138	29	137	23	145	26	123	24

ZINC (ug/L) 2002

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	140	26	122	29	138	28	134	31	144	28	139	29	172	25	125	18	98	30	110	29	178	32	119	21
2	152	31	158	40	131	25	140	26	144	21	127	21	189	28	130	24	164	81	126	31	122	25	116	23
3	149	33	120	28	148	30	146	29	126	25	161	28	180	27	139	19	154	24	123	41	128	14	121	23
4			140	42	138	26	149	26			112	23	113	22	142	30	116	18	182	33			117	16
Avg	147	30	135	35	139	27	142	28	138	25	135	25	164	26	134	23	133	38	135	34	143	24	118	21

ZINC (ug/L) 2003

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	112	ND	120	9	106	27	156	23	142	24	130	26	168	26	152	9	172	23	140	13	138	22	148	27
2	115	9	132	15	127	28	170	35	154	21	135	19	157	26	145	19	148	19	139	20	139	27	231	81
3	104	,4	105	11	153	29	144	45	145	26	142	12	158	26	135	12	124	25	132	22	152	23	135	22
4	88	<4	115	11			156	31	144	23	118	20	130	30	124	12			126	16	124	21	133	28
Avg	105	2	118	12	129	28	157	34	146	24	131	19	153	27	139	13	148	22	134	18	138	23	162	40

ZINC (ug/L) 2004

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	136	36			129	29	144	14	141	27	125	20	125	20	112	14	133	17	143	10	140	17	141	ND
2	165	47	148	28	145	42	154	18	141	19	134	19	134	19	175	23	134	15	124	16	116	19	134	ND
3	152	49	145	21	139	24	148	25	140	16	130						141	21	117	17	150	26	110	21
4	183	53	135	33	138	49	171	23	128	22		16	130	16	191	17	73	18	98	21	120	17	105	ND
Avg	159	46	143	27	138	36	154	20	138	21	130	18	130	18	155	19	114	17	129	18	122	19	129	ND

AMMONIA (mg/L) 1999

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	25.4	24.1	25	24.4	27.5	25.1	24.5	23.8	26.3	25	30.5	28.7	31.5	30.7	26.7	23.1	15.1	34	27.1	27.7	28.5	27.8	31.4	31
2	32.2	27.2	27.3	26.7	24.1	25.5	28.3	28	26.5	26.3	27.3	25.4	26.4	26.1	27.9	27.1	26.2	24.9	28.2	27.7	30.4	30.4	28.4	28.5
3	27.7	28.4	24.4	20.3	28.6	28.7	27.8	27.9	30.1	27.8	30.7	27.8	26.2	27.6	29.7	27.9	27.8	28.9	26.1	26.6	29.3	29.1	26.4	26.4
4			30.9	28.4	26.5	25.9	28.7	27.3			28.8	26.3	28.8	26.3	25.8	25.3	27.8	20.5	25.3	24.5			29.4	26.7
Avg	28.4	26.6	26.9	24.9	26.7	26.3	27.3	26.8	27.6	26.4	29.3	27.1	28.2	27.7	27.5	25.9	24.2	27.1	26.7	26.6	29.4	29.1	28.9	28.2

AMMONIA (mg/L) 2000

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	27	27.2	28.4	28.2	26.3	25.9	27.5	28.6	26.9	27.2	28.2	28.6	28	27.9	28.9	28.3	27.5	28.1	26.9	26.3	27.3	26.3	28.3	28.8
2	28.1	26.9	29.3	29.1	28	27.6	27.7	28.6	29	29.4	29.7	28	29	27.4	27	26.5	27	28.1	26.7	27.4	26	26.9	29.1	29.4
3	26.1	25.6	27.2	25.8	26.9	29.4	28	27.9	30.1	29.1	28.4	28.1	28.5	28.8	25.9	25	27	26.3	27.2	27	25.4	27	28.7	28.8
4	28.1	28	27.7	27.4	28.9	30.4			28.2	27.7	29.6	26.3	28.5	26.6	27.5	27.9			29.1	28	28	26.9	29.9	29.7
Avg	27.3	26.9	28.2	27.6	27.5	28.3	27.3	28.4	28.6	28.4	29	27.8	28.5	27.7	27.3	26.9	24.2	27.5	27.5	27.2	26.7	26.8	29	29.2

AMMONIA (mg/L) 2001

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	30.2	28.8	29.9	32.5	26.6	26	30.3	28.7	29.1	29.1	28.8	28	29.4	25.2	30.5	29.7	28.2	27.9	29.8	29.1	28.1	26.9	28.3	27.7
2	24.4	23	24.2	24.4	23.5	24.4	27.6	27.9	29.9	29.4	29.8	29.4	30	29.7	28.6	29.1	28.4	27.6	28.6	28.6	28.4	27.4	26.3	26.9
3	27.7	27.2	27	26.7	26.9	26.6	30.1	30	29.2	29.7	29.1	28.6	29.4	28.3	28.4	28.1	30	29.4	27.7	27.6	28.9	31.2	29.7	28.3
4	28.5	26.9		27.2	27.2	31.4	31.5	27.5	27.4	28.3	28			27.9	25.8	28.8	28.3	29.3	28.1	30.5	29.7	27.6	26.9	
Avg	27.7	26.5	27	27.9	26.1	26.1	29.9	29.5	28.9	28.9	29	28.5	29.6	27.7	28.9	28.2	28.9	28.3	28.9	28.4	29	28.8	28	27.4

AMMONIA (mg/L) 2002

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	28	27.6	30.1	29.8	30.6	29	27.9	28.3	29.4	30.8	27.2	26	28	26.3	29.3	29	26.3	26	28	26.6	28.6	29.1	25.8	25.2
2	30.8	29.8	26.5	25.2	30.4	30.5	28.6	28	31.6	31.4	27.2	26.3	27.4	25.5	28.6	27.2	26.3	27.4	27.2	26.3	27.2	26.9	26.6	26.3
3	31.2	30.7	27.7	26	28.3	27.3	31.9	30.2	28.3	27.7	27.7	25.8	28.8	28.3	29.7	29.4	26.3	26.9	27.4	26.9	27.2	27.4	26.9	26.3
4			28.8	27.4	28.3	29.1	30	29.7			27.7	27.4	27.4	27.2	27.6	28	27.7	27.2	30	29.4		28		27.2
Avg	30.3	29.4	28.3	27.1	29.4	29	29.6	29.1	29.8	30.0	27.5	26.4	27.9	26.8	28.8	28.4	26.7	26.9	28.2	27.3	27.7	27.8	26.8	26.3

AMMONIA (mg/L) 2003

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	27.4	26.6	29.7	28.6	26.6	26.0	26.9	28.0	27.4	28.0	30.8	31.1	29.7	30.2	28.6	28.0	27.7	28.0	28.8	29.7	26.0	26.0	28.0	26.9
2	27.4	27.7	26.6	25.5	20.2	20.4	30.2	30.0	29.7	30.2	30.0	30.2	29.4	28.8	27.4	28.0	28.6	28.6	26.9	28.3	28.3	28.3	28.6	29.1
3	23.0	22.7	25.2	22.7	27.4	26.9	26.9	27.2	28.8	29.4	29.7	30.5	29.7	30.8	29.1	28.3	29.4	29.4	24.9	26.0	25.5	25.5	26.3	26.6
4	27.2	26.9	24.9	24.6			28.8	30.5	30.5	30.5	27.7	29.1	28.8	28.6	27.7	27.2			26.9	27.4	*	*	29.4	28.3
Avg	26.3	26.0	26.6	25.4	24.7	24.4	28.2	28.9	29.1	29.5	29.6	30.2	29.4	29.6	28.2	27.9	28.6	28.7	26.9	27.9	26.6	26.6	28.1	27.7

\* Not reportable.

AMMONIA (mg/L) 2004

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	29.1	28.8			25.2	25.5	25.8	26.6	28.2	26.5	28.8	29.1	28.6	28.0	29.4	29.1	28.3	27.2	30.2	30.2	23.0	24.1	26.9	26.6
2	29.7	29.4	29.1	29.4	27.7	28.0	27.2	27.4	29.7	30.0	27.4	28.3	26.9	27.4	29.1	29.3	27.7	26	27.4	28.3	28.3	27.7	27.7	27.4
3	26.9	26.6	30.5	27.4	27.7	28.3	24.8	24.9	31.4	30.8	30.0	28.8			30.0	28.6	26.9	28	22.1	23.0	27.2	26.6	28.0	28.3
4	30.2	29.4	20.4	20.4	29.1	28.3	27.4	28.3	28.6	28.8	27.4	28.3	28.3	28.0	28.3	28.0	28.3	28	19.0	19.3	27.4	27.2	25.2	24.6
Avg	29.0	28.6	26.7	25.7	27.4	27.5	26.3	26.8	29.5	29.0	28.4	28.6	27.9	27.8	29.2	28.8	27.8	27.3	24.7	25.2	26.5	26.4	27.0	26.7

CYANIDE (mg/L) 1999

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL	AUG		SEP	OCT		NOV		DEC			
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff		Inf	Eff		Inf	Eff	Inf	Eff		Inf	Eff	
1	0.004	0.009	0.004	0.006	0.005	0.005	0.003	0.003	0.004	0.003	0.003	0.004	0.003	0.007	0.004	0.004	<0.002	<0.002	0.013	0.014	0.003	0.01	0.003	0.004
2	0.003	0.007	0.005	0.007	0.008	0.011	0.003	0.003	0.003	0.003	0.004	0.004	0.003	<0.002	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.006	0.005	0.004
3	0.003	0.007	0.004	0.005	0.002	0.003	0.003	0.005	0.003	0.004	0.006	0.007	0.004	0.004	<0.002	0.005	0.004	0.001	0.004	0.004	0.003	0.005	0.006	0.007
4	0.004	0.005	0.005	0.007	0.003	0.002	0.007	0.005	0.005	0.005	0.019	0.017	0.005	0.003	<0.002	<0.002	0.008	0.006	0.003	0.003	0.003	0.005	0.006	0.003
Avg	0.003	0.008	0.005	0.006	0.005	0.005	0.004	0.004	0.003	0.003	0.008	0.008	0.004	0.003	0.002	0.003	0.004	0.003	0.006	0.006	0.003	0.007	0.005	0.005

CYANIDE (mg/L) 2000

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL	AUG		SEP	OCT		NOV		DEC			
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff		Inf	Eff		Inf	Eff	Inf	Eff		Inf	Eff	
1	0.006	0.005	0.004	0.003	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.005	0.006	0.004	0.004	0.004	0.003	0.013	0.014	0.004	0.003	0.002	0.003
2	0.004	0.004	0.007	0.006	0.004	0.003	0.004	0.003	0.005	0.004	0.004	0.004	0.002	0.003	0.003	0.003	0.005	0.003	0.005	0.004	0.004	0.004	0.003	0.003
3	0.003	0.003	0.003	0.013	0.005	0.004	0.004	0.003	0.003	0.005	0.003	0.006	0.003	0.003	0.004	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.003	0.006
4	0.004	0.003	0.004	0.003	0.005	0.005	0.005	0.003	0.002	0.002	0.004	0.006	0.039	0.003	0.002	0.003	0.003	0.003	0.003	0.004	0.003	0.003	0.003	0.003
Avg	0.004	0.004	0.005	0.006	0.005	0.004	0.004	0.003	0.004	0.004	0.004	0.005	0.012	0.004	0.003	0.003	0.004	0.003	0.006	0.006	0.004	0.003	0.004	0.005

CYANIDE (mg/L) 2001

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL	AUG		SEP	OCT		NOV		DEC			
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff		Inf	Eff		Inf	Eff	Inf	Eff		Inf	Eff	
1	0.005	0.005	0.006	0.006	0.006	0.005	0.003	0.004	0.002	0.003	0.003	0.003	0.003	0.003	0.002	0.003	<0.002	0.002	<	0.003	0.003	0.004	0.003	
2	0.004	0.004	0.004	0.003	0.003	0.004	0.004	0.004	0.002	0.003	0.003	0.003	0.003	0.003	0.005	0.005	0.003	0.003	<0.002	<0.002	0.003	0.003	0.004	0.003
3	0.003	0.003	0.006	0.006	0.004	0.004	0.002	0.003	0.007	0.009	0.003	0.003	0.003	0.003	<0.002	<0.002	<0.002	0.002	0.003	0.003	0.003	0.003	<0.002	<0.002
4	0.003	0.003		0.004	0.003	0.003	0.002	0.003	0.002	0.003	0.004	0.003		<0.002	<0.002	<0.002	0.002	<0.002	<0.002	0.003	0.003	0.003	<0.002	<0.002
Avg	0.004	0.004	0.005	0.005	0.004	0.004	0.003	0.004	0.003	0.005	0.003	0.003	0.003	0.003	0.002	0.003	0.003	0.002	0.001	0.003	0.003	0.003	0.002	0.002

CYANIDE (mg/L) 2002

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL	AUG		SEP	OCT		NOV		DEC			
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff		Inf	Eff		Inf	Eff	Inf	Eff		Inf	Eff	
1	0.003	0.002	0.01	0.009		0.003	0.003	0.005	0.005	0.004	0.003	0.003	0.002	0.002	0.003	0.003	0.003	0.002	0.002	0.003	0.003	0.003	0.003	
2	0.004	0.003	0.007	0.006	0.004	0.006	0.002	0.003	0.006	0.007	0.002	0.002	0.003	0.003	0.002	0.005	0.003	0.003	0.003	0.003	0.003	0.003	0.002	
3	0.006	0.01	0.004	0.004	0.003	0.004	0.003	0.003	0.005	0.004	0.003	<0.002	0.004	0.005	<0.002	0.002	0.004	0.004	0.002	0.002	0.003	0.003	0.002	
4			0.004	0.009	0.003	0.004	0.003	0.003			0.003	0.003	0.003	0.002	0.003	0.003	0.004	0.003	0.003	0.003		0.002	<0.002	
Avg	0.004	0.005	0.006	0.007	0.003	0.005	0.003	0.003	0.005	0.005	0.003	0.002	0.003	0.003	0.002	0.003	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.002

CYANIDE (mg/L) 2003

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL	AUG		SEP	OCT		NOV		DEC			
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff		Inf	Eff		Inf	Eff	Inf	Eff		Inf	Eff	
1	nd	nd	0.003	0.003	ND	0.003	0.002	0.002	0.003	0.005	0.002	0.002	ND	ND	0.003	0.003	0.002	0.003	0.003	0.004	0.002	0.002	0.004	
2	0.005	0.005	0.002	ND	0.003	ND	0.002	0.002	ND	0.002	0.002	0.002	ND	0.002	ND	0.004	0.002	0.002	0.003	0.004	0.003	0.003	0.003	
3	0.004	0.003	ND	0.002	ND	0.003	0.004	0.005	ND	0.002	ND	0.002	0.003	0.003	0.004	0.006	ND	0.003	0.003	0.003	0.002	0.002	0.004	
4	0.002	0.002	0.003	0.004			ND	0.003	ND	0.002	0.002	0.002	0.002	ND	ND	ND		0.004	0.004	0.002	0.003	ND	<0.002	
Avg	0.003	0.003	0.002	0.002	0.001	0.002	0.002	0.003	0.001	0.003	0.002	0.002	0.001	0.001	0.002	0.003	0.001	0.003	0.003	0.004	0.002	0.003	0.003	0.004

CYANIDE (mg/L) 2004

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL	AUG		SEP	OCT		NOV		DEC		
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff		Inf	Eff		Inf	Eff	Inf	Eff		Inf	Eff
1	0.003	0.003			0.003	0.003	0.003	0.002	0.002	0.002	0.002	<0.002	0.003	0.003	0.003	<0.002	0.003	0.006	0.002	0.002	0.005	0.005	0.030
2	0.004	0.003	0.003	0.003	0.003	0.003	0.003	ND	0.002	0.003	ND	ND	ND	ND	0.002	ND	<0.002	0.003	ND		0.002	0.002	0.003
3	0.002	0.003	0.002	0.002	0.003	0.003	0.003	0.002	0.003	<0.002	0.002	0.002		0.003	0.002	0.007	0.007	0.003	0.003	0.002	0.003	0.004	0.003
4	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	ND	<0.002	0.003	0.002	ND	<0.002	0.002	<0.002	0.002	0.003	0.003	0.003	ND
Avg	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.003	0.002	0.001	0.001	0.002	0.002	0.002	0.001	0.003	0.003	0.003	0.003	0.002	0.003	0.002

EFFLUENT RADIATION (pCi/L) 1999																								
Week	alpha	JAN beta	alpha	FEB beta	alpha	MAR beta	alpha	APR beta	alpha	MAY beta	alpha	JUN beta	alpha	JUL beta	alpha	AUG beta	alpha	SEP beta	alpha	OCT beta	alpha	NOV beta	alpha	DEC beta
1			1.4	26.1	2.8	18.7	4.2	28.9			1.7	29.2	0.7	21.7	0.7	21.7			2	43.4			4.3	31.8
2	1.5	30.1							-0.2	41.5							0.3	36.7			1	34		
3																								
4																								
Avg	1.5	30.1	1.4	26.1	2.8	18.7	4.2	28.9	-0.2	41.5	1.7	29.2	0.7	21.7	0.7	21.7	0.3	36.7	2	43.4	1	34	4.3	31.8

EFFLUENT RADIATION (pCi/L) 2000																								
Week	alpha	JAN beta	alpha	FEB beta	alpha	MAR beta	alpha	APR beta	alpha	MAY beta	alpha	JUN beta	alpha	JUL beta	alpha	AUG beta	alpha	SEP beta	alpha	OCT beta	alpha	NOV beta	alpha	DEC beta
1	3.1	29.6		2.5	32.9			2.8	36.4	1.8	28.1	3.3	33.7			1.3	36.2				0.7	25.2	1.7	29.2
2			1.9	35.8			2	30.4							2.5	34.6								
3																			1.8	31.9				
4																								
Avg	3.1	29.6	1.9	35.8	2.5	32.9	2	30.4	2.8	36.4	1.8	28.1	3.3	33.7	2.5	34.6	1.3	36.2	1.8	31.9	0.7	25.2	1.7	29.2

EFFLUENT RADIATION (pCi/L) 2001																								
Week	alpha	JAN beta	alpha	FEB beta	alpha	MAR beta	alpha	APR beta	alpha	MAY beta	alpha	JUN beta	alpha	JUL beta	alpha	AUG beta	alpha	SEP beta	alpha	OCT beta	alpha	NOV beta	alpha	DEC beta
1	0.3	28	2.1	37	2.6	30.7	1.6	26.3			0.8	31.2			0.6	31.1	1	37.4			1.4	29.9	2.9	29.2
2									1.7	37.2			0.9	33.4					1.8	35.3				
3																								
4																								
Avg	0.3	28	2.1	37	2.6	30.7	1.6	26.3	1.7	37.2	0.8	31.2	0.9	33.4	0.6	31.1	1	37.4	1.8	35.3	1.4	29.9	2.9	29.2

EFFLUENT RADIATION (pCi/L) 2002																								
Week	alpha	JAN beta	alpha	FEB beta	alpha	MAR beta	alpha	APR beta	alpha	MAY beta	alpha	JUN beta	alpha	JUL beta	alpha	AUG beta	alpha	SEP beta	alpha	OCT beta	alpha	NOV beta	alpha	DEC beta
1	2.7	28.5	1.5	37.1	1.6	33.4	1.9	32.5	1.9	13.3	1.2	35.7	0.7	21.5			0.1	27.9	1.5	14.9	1.3	25.5	0.8	14.9
2															1.8	12.2								
3																								
4																								
Avg	2.7	28.5	1.5	37.1	1.6	33.4	1.9	32.5	1.9	13.3	1.2	35.7	0.7	21.5	1.8	12.2	0.1	27.9	1.5	14.9	1.3	25.5	0.8	14.9

EFFLUENT RADIATION (pCi/L) 2003																								
Week	alpha	JAN beta	alpha	FEB beta	alpha	MAR beta	alpha	APR beta	alpha	MAY beta	alpha	JUN beta	alpha	JUL beta	alpha	AUG beta	alpha	SEP beta	alpha	OCT beta	alpha	NOV beta	alpha	DEC beta
1	1.2	13.4	3.5	20.8	1.4	20.0	3.0	16.2	1.0	20.0	2.6	20.8	1.1	20.9	1.7	20.4	1.1	19.9	0.2	23.4	0.3	9.9	1.1	31.7
2																								
3																								
4																								
Avg	1.2	13.4	3.5	20.8	1.4	20.0	3.0	16.2	1.0	20.0	2.6	20.8	1.1	20.9	1.7	20.4	1.1	19.9	0.2	23.4	0.3	9.9	1.1	31.7

EFFLUENT RADIATION (pCi/L) 2004																									
Week	alpha	JAN beta	alpha	FEB beta	alpha	MAR beta	alpha	APR beta	alpha	MAY beta	alpha	JUN beta	alpha	JUL beta	alpha	AUG beta	alpha	SEP beta	alpha	OCT beta	alpha	NOV beta	alpha	DEC beta	
1	3.0	16.1		2.2	14.8	0.3	21.5				1.0	1.0	14.5	0.9	26.3					1.7	21.1	0.9	17.0	1.7	25.7
2			1.9	16.4				0.8	15.9							0.9	20.8	23.1							
3																									
4																									
Avg	3.0	16.1	1.9	16.4	2.2	14.8	0.3	21.5	0.8	15.9	1.0	1.0	14.5	0.9	26.3	0.9	20.8	23.1	1.7	21.1	0.9	17.0	1.7	25.7	





HCH-HEXACHLOROCYCLOHEXANES (ng/L) 1999

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	32	23	28	16	22	15	70	37	15	11	38	32	41	25	42	26	41	30	68	36	44	27	34	18
2	26	23	26	22	20	15	25	18	15	13	63	36	38	29	50	35	50	33	44	27	47	25	57	60
3	29	20	33	21	15	14	24	17	31	22	34	25	38	26	43	24	45	29	40	30	36	24	39	20
4			39	17	22	12	21	18			43	31	39	33	57	26	96	39	48	26			31	13
Avg	29	22	32	19	20	14	35	23	20	15	45	31	39	28	48	28	58	33	50	30	42	25	40	28

HCH-HEXACHLOROCYCLOHEXANES (ng/L) 2000

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	46	17	27	19	16	14	31	11	44	26	57	27	41	30	36	19	37	23	56	26	24	17	73	29
2	41	25	30	18	25	19	15	11	32	34	42	22	29	17	37	19	34	17	31	20	46	27	62	nd
3	42	22	32	17	33	19	31	13	48	28	41	23	23	19	52	25	25	15	37	24	60	25	60	20
4	24	18	50	20	24	16			46	26	42	25	22	15	46	26			34	24	36	35	53	21
Avg	38	21	35	19	25	17	26	12	43	29	46	24	29	20	43	22	32	18	40	24	42	26	62	18

HCH-HEXACHLOROCYCLOHEXANES (ng/L) 2001

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	51	22	37	17	26	14	51	13	38	21	NA	28	30	15	38	21	NA	18	35	18	50	15	58	19
2	0	0	32	14	NA	15	55	19	47	14	20	14	24	16	40	14	59	19	42	13	21	15	38	18
3	42	17	36	0	34	12	43	12	47	17	38	18	28	38	44	16	54	15	49	20	38	21	0	0
4	30	0			18	11	49	15	43	21	54	27			61	26	49	19	46	13	70	11	68	24
Avg	31	10	35	10	26	13	50	15	44	18	37	22	27	23	46	19	41	18	43	16	45	16	41	15

HCH-HEXACHLOROCYCLOHEXANES (ng/L) 2002

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	39	18	35	17	26	21	31	13	nd	nd	36	nd	23	nd	45	16	16	nd	26	nd	14	nd	nd	nd
2	47	14	40	nd	19	15	24	nd	nd	nd	36	nd	32	nd	nd	nd	20	nd	48	22	13	13	nd	nd
3	45	17	33	15	40	nd	31	19	14	14	36	18	28	nd	50	12	27	20	99	24	10	nd	nd	nd
4			38	16	45	15	29	14			30	nd	33	nd	18	16	28	12	11	nd			nd	nd
Avg	44	16	37	12	33	13	29	12	7	5	35	5	29	nd	28	11	23	8	46	12	12	4	nd	nd

HCH-HEXACHLOROCYCLOHEXANES (ng/L) 2003

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	33	nd	20	23	27	23	18	nd	26	nd	31	13	28	nd	34	26	58	40	nd	nd	nd	nd	nd	nd
2	34	nd	490	175	nd	nd	23	nd	24	nd	38	20	29	nd	38	30	nd	nd	nd	nd	61.0	27.0	nd	nd
3	30	nd	nd	nd	19	nd	25	nd	15	nd	55	12	31	13	31	37	nd	nd	nd	nd	nd	nd	nd	nd
4	20	19	12	15			32	nd	18	nd	29	21	32	nd					nd	nd	nd	nd	nd	nd
Avg	29	5	131	53	15	8	25	nd	21	nd	38	17	30	3	34	31	19	13	nd	nd	15.3	6.8	nd	nd

HCH-HEXACHLOROCYCLOHEXANES (ng/L) 2004

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd			16	nd	16	nd	19	nd	nd	nd	14	nd	31	nd	16	11	29	ND	28	ND	24	16.5
2	14	nd	nd	nd	40	nd	nd	nd	11	nd	24.5	nd	26	nd	44	nd	16	12	41	ND	24.0	ND	20	ND
3	nd	nd	11	nd	15	nd	33	12	10	nd	29	nd			20	nd	12	nd	11	ND	34	ND	26	ND
4	nd	nd	nd	nd	34	nd	nd	nd	58	nd	22	nd	88	67	nd	nd	13	nd	ND	ND	42	ND	25	ND
Avg	6.8	nd	3.7	nd	26.3	nd	12.3	3.0	24.5	nd	18.9	nd	42.7	22.3	23.8	nd	14.3	5.8	20.3	ND	32.0	ND	23.8	4.1

CHLORDANE & RELATED COMPOUNDS (ng/L) 1999

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4			nd	nd	nd	nd	nd	nd		nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd			nd	nd
Avg	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

CHLORDANE & RELATED COMPOUNDS (ng/L) 2000

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	77	210	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd	nd	nd	nd	nd	nd		nd	nd	nd	nd	nd	nd	nd	nd		nd	nd	nd	nd	nd	nd	nd
Avg	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	19	53	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

CHLORDANE & RELATED COMPOUNDS (ng/L) 2001

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	NA	nd	nd	nd	nd	nd	NA	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	NA	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Avg	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

CHLORDANE & RELATED COMPOUNDS (ng/L) 2002

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4			nd	nd	nd	nd	nd	nd		nd	nd	nd	nd	nd	nd	nd	nd	nd	215	nd			nd	nd
Avg	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	54	nd	nd	nd	nd	nd

CHLORDANE & RELATED COMPOUNDS (ng/L) 2003

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd				nd	nd	nd	nd	nd	nd
Avg	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

CHLORDANE & RELATED COMPOUNDS (ng/L) 2004

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	45	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	131	139	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Avg	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	43.7	46.2	nd	nd	11.3	nd	nd	nd	nd	nd	nd	nd



DDT AND DERIVATIVES (ng/L) 1999

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	52	nd	nd	nd	nd	nd	nd	nd
4			nd	nd	nd	nd	nd	nd		nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd		nd	nd
Avg	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	13	nd	nd	nd	nd	nd	nd	nd	nd

DDT AND DERIVATIVES (ng/L) 2000

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	92	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd	45	50	nd	nd			nd	nd	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd
Avg	nd	23	11	13	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

DDT AND DERIVATIVES (ng/L) 2001

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	NA	nd	nd	nd	nd	nd	NA	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	NA	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Avg	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

DDT AND DERIVATIVES (ng/L) 2002

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	50	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	37	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4			nd	nd	46	nd	nd	nd		nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd		nd	nd	nd
Avg	29	nd	nd	nd	12	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

DDT AND DERIVATIVES (ng/L) 2003

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	24	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd			nd	nd	nd	nd	nd	nd
Avg	nd	nd	nd	nd	nd	nd	nd	nd	6	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

DDT AND DERIVATIVES (ng/L) 2004

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd			nd	nd	nd	nd	24	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	30	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd		nd	nd	nd	nd	nd	nd	nd	nd	nd	20	nd
4	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	24	nd
Avg	nd	nd	nd	nd	nd	nd	nd	nd	6	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	18.5	nd

TOXAPHENE (ng/L) 2000

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Avg	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

TOXAPHENE (ng/L) 2001

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	NA	nd	nd	nd	nd	NA	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	NA	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Avg	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

TOXAPHENE (ng/L) 2002

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Avg	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

TOXAPHENE (ng/L) 2003

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Avg	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

TOXAPHENE (ng/L) 2004

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
2	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
4	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Avg	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd



NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 1999

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	15.1	11.1	14.8	11.9	15.5	11.6	17.1	11.8	12.7	8	19.9	10.6	24.3	15.6	21.5	8.1	16.1	11.3	13.8	12	18.2	10.8	13.2	9.9
2	15.6	10.8	23.6	13.4	13.9	9.6	15.6	11.4	14.6	7.8	21.6	13.1	16.9	10.8	22.7	14.5	19.2	15.3	17.9	15.7	15.9	12.3	21.3	17
3	15.9	11	18.9	13.8	13.5	8.3	19.5	12.4	6.5	10.9	18	11.1	21.8	13.8	17	14.9	16.4	14.3	16.6	8.9	19.4	12	16.1	11.7
4			16.7	8.6	24.4	14.2	15.5	12			15.8	8.7	18.6	14.5	15.5	12.3	16.1	14.5	15.5	8.5			18.6	11.1
Avg	15.5	11	18.5	11.9	16.8	10.9	16.9	11.9	11.3	8.9	18.8	10.9	20.4	13.7	19.2	12.5	17	13.9	16	11.3	17.8	11.7	17.3	12.4

NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2000

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	13.8	9	20.7	12.6	13.1	10.4	13.8	8.2	12.9	11.3	7.7	6.3	24.3	20.3	22.9	16.1	15.2	10.3	15.6	10.9	21.5	14.4	11	8.5
2	26.6	16.9	18.5	14.1	11.9	10	13.9	7.8	12.9	10	8.8	6.7	21.4	18.9	16.5	10.8	13.6	10.3	16.6	10.6	*	7.7	13.8	11.5
3	18.9	14.9	15.9	9.9	10.4	9.1	15.3	12.1	17.2	15.4	24.3	11.6	20.2	18	18.2	11.2	21.4	15.4	16.2	11.9	18.7	14.4	20.3	14.6
4	19.1	12	13.9	9.1	16.8	10.5			6.9	7.7	16.9	13.4	21.5	12.7	12.1	9.5			15.2	11.1	11.6	8.6	19.6	14
Avg	19.6	13.2	17.3	11.4	13.1	10	14.3	9.4	12.5	11.1	14.4	9.5	21.6	17.5	17.4	11.9	16.7	12	15.9	11.1	17.3	11.3	16.2	12.2

NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2001

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	17.3	13.7	22.9	23	12.1	7	21.6	24.3	17.9	18.4	25.8	15.5	19.1	10.5	16.4	11.5	14.8	6.3	13.3	8.5	15.2	12.4	19.1	8.4
2	11.5	8.5	11.6	6.6	11.3	8	22	12.4	14.7	9.8	17.9	12	15.2	5	18.9	8.9	15.8	8.5	10.4	10.3	16.6	11.6	13.6	9.8
3	13.9	9.5	15.4	15.1	15.1	13.7		13.7	19.1	13.1	12.7	7.4	15.5	10.1	14.8	9.9	16.1	6.6	12.9	6.1	25.1	10.3	12.2	7.8
4	19.5	16.1			21.3	7.8				8.8	16.7	7.9			14.5	9.7	17.5	9.2	12.8	10	23.1	13.6	19.8	12.5
Avg	15.6	12	16.6	14.9	15	9.1	21.8	16.8	17.2	12.5	18.3	10.7	16.6	8.5	16.2	10	16.1	7.7	12.4	8.7	20	12	16.2	9.6

NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2002

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	22.5	15.1	19.3	19.9	20.1	19.5	22.6	17.1	16.6	14.6	17.8	11.2	15.9	7.4	14.4	8.8	14.7	9.3	13.9	9.7	15.7	8.2	17	9.1
2	19	14.1	14.8	13.2	14.9	13.2	15	13.1	12.7	11.9	13.2	7	11.3	9.4	13.4	7.7	12.6	7.8	16.1	8	12.3	7.1	9.9	9.4
3	15.9	15.3	14.2	12.3	14.7	17.1	17.3	15.7	13.9	11.1	13.1	15.7	13.3	9.8	11.8	9	11.4	6.5	13.8	9.8	9.2	7.4	9.4	7.5
4			19.6	20.2	6.3	0	11.9	12.9			18	10.3	10.3	7.9	8.9	8.2	13.7	8.1	10.3	6.8			18	15.3
Avg	19.1	14.8	17	16.4	14	12.5	16.7	14.7	14.4	12.5	15.5	11.1	12.7	8.6	12.1	8.4	13.1	7.9	13.5	8.6	12.4	7.6	13.6	10.3

NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2003

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	16.2	9.8	11.2	5.7	14.0	12.9	17.1	11.3	18.3	9.7	15.0	10.2	16.0	4.1	12.1	8.7	10.5	7.2	9.2	9.4	13.8	8.8	16.2	11.0
2	11.8	9.4	14.4	10.2	6.7	4.1	23.8	17.5	15.2	13.9	17.6	11.5	19.6	13.1	16.2	11.2	12.2	6.5	13.8	5.8	17.0	10.4	20.5	16.5
3	12.9	10.0	12.1	9.6	14.0	13.7	15.7	12.0	18.3	13.7	15.6	13.0	18.1	13.3	17.6	11.7	11.5	9.3	nd	7.2	16.7	6.5	15.6	9.7
4	18.2	13.3	10.5	8.6	11.6	10.2	17.0	12.4	15.6	12.8	13.2	11.4	20.5	14.1	14.9	10.1			15.0	8.7	17.5	12.6	17.1	13.0
Avg	14.8	10.6	12.1	8.5	11.6	10.2	18.4	13.3	16.9	12.5	15.4	11.5	18.6	11.2	15.2	10.4	11.4	7.7	12.7	7.8	16.3	9.6	17.4	12.6

NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2004

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	16.9	13.6			11.6	13.9	17.5	13.6	11.5	10.1	16.2	10.6	18.4	11.1	11.4	9.1	15.9	10.7	14.7	7.4	15.5	10.9	12.5	11.9
2	21.0	19.6	13.8	11.0	13.7	15.7	12.3	11.0	21.3	19.9	27.5	10.9	20.3	11.1	19.0	8.8	16.5	9.9	16.4	11.1	16.2	9.7	17.7	10.3
3	17.4	18.0	15.8	12.0	14.7	14.7	15.6	13.3	21.0	14.2	19.4	11.1			11.8	10.4	15.0	8.9	5.6	4.4	12.1	8.2	17.8	12.4
4	16.6	18.4	9.1	8.8	9.7	11.9	13.5	13.2	14.6	11.9	22.5	13.4	20.2	9.6	17.8	11.0	15.0	7.2	7.6	4.3	16.2	12.9	11.8	7.7
Avg	18.0	17.4	12.9	10.6	12.4	14.1	14.7	12.8	17.1	14.0	21.4	11.5	19.6	10.6	15.0	9.8	15.6	9.2	11.1	6.8	15.0	10.4	15.0	10.6