

## 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. Mass Emissions
- B. Discharge Limits
- C. Influent and Effluent Data Summaries
- D. Influent and Effluent Graphs
- E. Daily Values of selected Parameters
- F. Toxicity Bioassays
- G. 6-Year Tables

## A. Mass Emissions

### Mass Emissions of Effluent Using 2008 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)	2008 Mass Emissions (mt/yr)	2008 Concentration	Units
Flow (MGD)			161.8	MGD
Total Suspended Solids	<b>13,995</b>	7,169	32	mg/L
BOD	--	21,507	96	mg/L
Arsenic	0.88	0.17	0.76	ug/L
Cadmium	1.4	0.00	0.00	ug/L
Chromium	14.2	0.25	1.1	ug/L
Copper	26	5	20.1	ug/L
Lead	14.2	0.00	0.0	ug/L
Mercury	0.19	0.00	0.00	ug/L
Nickel	11.3	1.97	8.8	ug/L
Selenium	0.44	0.26	1.14	ug/L
Silver	2.8	0.02	0.1	ug/L
Zinc	18.3	5.6	25	ug/L
Cyanide	1.57	0.04	0.0002	mg/L
Residual Chlorine	--	0.00	0.00	mg/L
Ammonia	8018	6,922	30.9	mg/L
Non-Chor. Phenols	2.57	2.80	12.5	ug/L
Chlorinated Phenols	1.73	0.00	0.0	ug/L
Endosulfan	0.006	0.00	0	ng/L
Endrin	0.008	0.00	0	ng/L
hexachlorocyclohexanes *(HCH)	0.025	0	0	ng/L
* (all as Lindane, the gamma isomer)				
Acrolein	17.6	0.00	0	ug/L
Antimony	56.6	0.0	0	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	0.01	0.04	ug/L
Chromium (III)	--	--		
di-n-butyl phthalate	1.33	0.00	0	ug/L
dichlorobenzenes	2.8	0.2	0.7	ug/L
1,1-dichloroethylene	0.79	0.00	0	ug/L
Diethyl phthalate	6.23	0.27	1.2	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	0.07	0.3	ug/L
Fluoranthene	0.62	0.00	0	ug/L
Hexachlorocyclopentadiene	--	0.00	0	ug/L

Constituent/Property	Benchmarks (mt/yr)	2008 Mass Emissions (mt/yr)	2008 Concentration	Units
Nitrobenzene	2.07	0.00	0	ug/L
Thallium	36.8	0.00	0.0	ug/L
Toluene	3.31	0.40	1.8	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
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	0.00	ug/L
Bis(2-chloroethyl) ether	1.61	0.00	0	ug/L
Bis(2-ethylhexyl) phthalate	2.89	2.78	12.4	ug/L
Carbon Tetrachloride	0.79	0.00	0	ug/L
Chlordane	0.014	0.0000	0	ng/L
Chloroform	2.19	0.94	4.2	ug/L
DDT	0.043	0.00	0	ng/L
1,4-dichlorobenzene	1.25	0.18	0.8	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	0.49	2.2	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	1.12	5	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	0.00	0	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

Note: mt/yr utilized 366 days due to leap year in 2008.

## B. Discharge Limits

NPDES Permit No. CA0107409/RWQCB Order No. R-2002-0025

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

The discharge of waste through the Point Loma Ocean Outfall containing pollutants in excess of the following effluent limitations are prohibited:

NPDES Permit No. CA0107409/RWQCB Order No. R-2002-0025 as modified by addendum 2 to the order						
Constituent	Units	6-month Median	30-day Average	7-Day Average	Daily Maximum	Instantaneous Maximum
Biochemical Oxygen Demand BOD <sub>5</sub> @ 20°C	mg/L	The "Mean Annual Percent Removal" limit for BOD is 58%. There is no mass emission limit.				
Total Suspended Solids <sup>8</sup>	mg/L lb/day		75 13,599			
pH	pH units	Within the limits of 6.0 - 9.0 at all times.				
Grease & Oil	mg/L lb/day		25 34,000	40 68,000		75 130,000
Settleable Solids	mL/L		1.0	1.5		3.0
Turbidity	NTU		75	100		225
Acute Toxicity	TUa				6.5	
Arsenic	ug/L	1,000			5,900	16,000
Cadmium	ug/L	200			800	2,100
Chromium <sup>9</sup> (Hexavalent)	ug/L	400			2,000	4,100
Copper	ug/L	200			2,100	5,700
Lead	ug/L	400			2,000	4,100
Mercury	ug/L	8.1			33	80
Nickel	ug/L	1,000			4,100	10,000
Selenium	ug/L	3,100			12,000	30,800
Silver	ug/L	100			540	1,000
Zinc	ug/L	2,500			15,000	39,400
Cyanide	mg/L	0.2			0.8	2.1
Total Residual Chlorine(TRC)	mg/L	0.400			2.0	12
Ammonia (expressed as Nitrogen)	mg/L	123			492	1,230
Chronic Toxicity	TUc				205	
Phenolic Compounds (non- chlorinated)	ug/L	6,200			24,600	61,500
Chlorinated Phenolics	ug/L	200			800	2,100
Endosulfan	ng/L	2,000			3,700	5,500
Endrin	ng/L	400			800	1,000
HCH (hexachlorocyclohexanes)	ng/L lb/day	800			2,000	2,500

<sup>8</sup> 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. These mass emission requirements shall only apply to TSS discharged from POTWs which are owned and operated by the discharger, and the discharger's wastewater generated in the Metro System service area. These mass emission requirements do not apply to wastewater (and the resulting TSS) generated in Mexico as a result of upset or shutdown and treated at and discharged from the PLMWTP.

<sup>9</sup> Hexavalent Chromium limit met as Total Chromium.

LIMITATIONS FOR PROTECTION OF  
HUMAN HEALTH--NONCARCINOGENS

Constituent	Units	Monthly Average (30-Day)
Acrolein	ug/L	45,000
Antimony	ug/L	250,000
Bis(2-chloroethoxy) methane	ug/L	900
Bis(2-chloroisopropyl) ether	ug/L	250,000
Chlorobenzene	ug/L	120,000
Chromium (III) <sup>10</sup>	ug/L	39,000,000
di-n-butyl phthalate	ug/L	720,000
dichlorobenzenes	ug/L	1,000,000
Diethyl phthalate	ug/L	6,800,000
Dimethyl phthalate	ug/L	170,000,000
4,6-dinitro-2-methylphenol	ug/L	45,000
2,4-dinitrophenol	ug/L	820
Ethylbenzene	ug/L	840,000
Fluoranthene	ug/L	3,100
Hexachlorocyclopentadiene	ug/L	12,000
Nitrobenzene	ug/L	1,000
Thallium	ug/L	400
Toluene	ug/L	17,000,000
Tributyltin	ug/L	0.29
1,1,1-trichloroethane	ug/L	110,000,000

LIMITATIONS FOR PROTECTION OF  
HUMAN HEALTH—CARCINOGENS

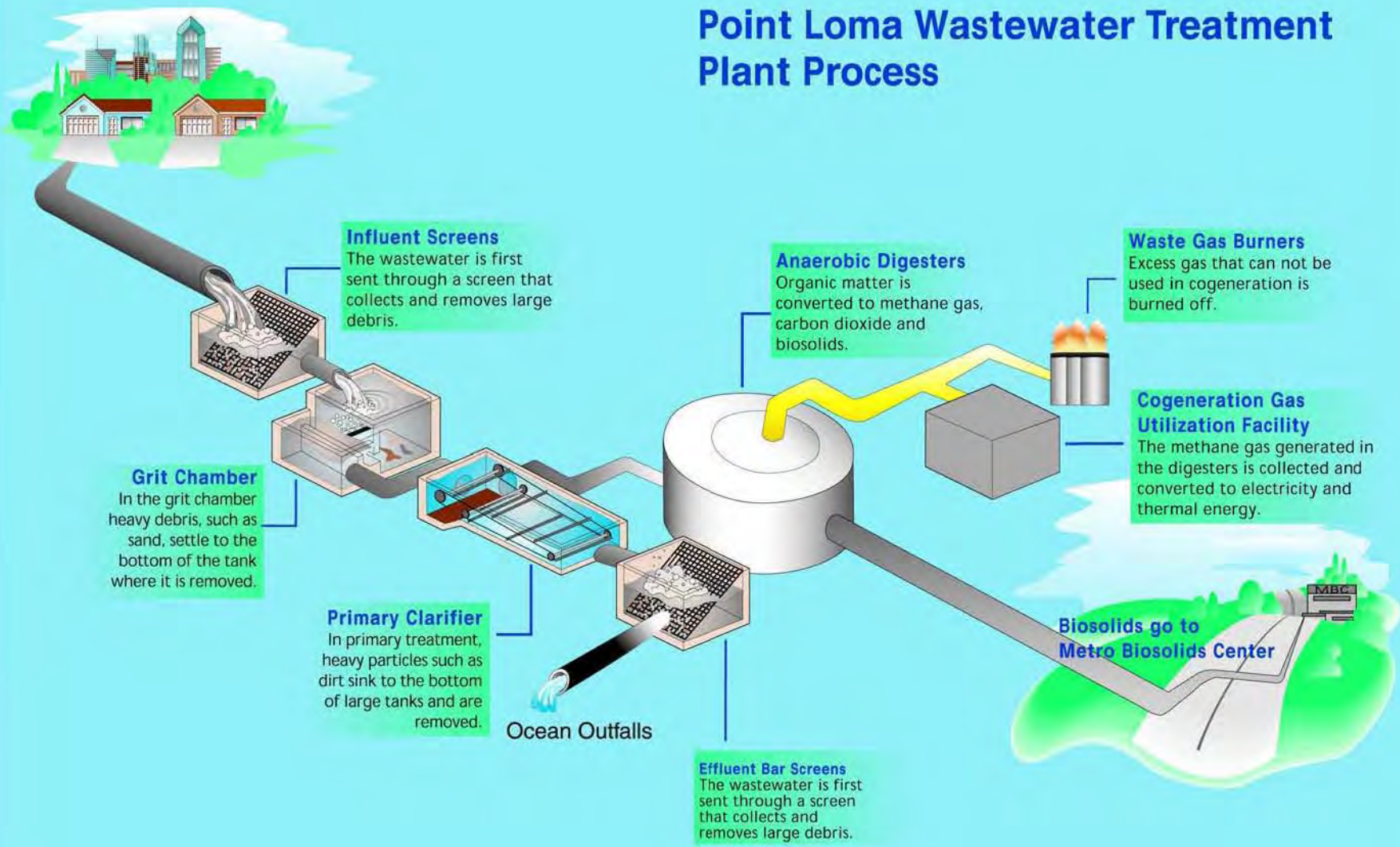
Constituent	Units	Monthly Average (30-Day)
Acrylonitrile	ug/L	21
Aldrin	ng/L	4.5
Benzene	ug/L	1,200
Benzidine	ug/L	0.014
Beryllium	ug/L	6.8
Bis(2-chloroethyl)ether	ug/L	9.2
Bis(2-ethylhexyl)phthalate	ug/L	720
Carbon Tetrachloride	ug/L	180
Chlordane	ng/L	4.7
Chloroform	ug/L	27,000
DDT	ng/L	35
1,1,2,2-tetrachloroethane	ug/L	470
1,1-dichloroethylene	ug/L	200
1,1,2-trichloroethane	ug/L	1,900
1,4-dichlorobenzene	ug/L	3,700
3,3-dichlorobenzidine	ug/L	1.7
1,2-dichloroethane	ug/L	5,700
Dichloromethane	ug/L	92,000
1,3-dichloropropene	ug/L	1,800
Dieldrin	ng/L	8.20
2,4-dinitrotoluene	ug/L	530
1,2-diphenylhydrazine	ug/L	33
Halomethanes	ug/L	27,000
Heptachlor	ng/L	10
Hexachlorobenzene	ug/L	0.043
Hexachlorobutadiene	ug/L	2,900
Hexachloroethane	ug/L	510
Isophorone	ug/L	150,000
N-nitrosodimethylamine	ug/L	1,500
N-nitrosodiphenylamine	ug/L	510
PAHs	ug/L	1.80
PCBs	ng/L	3.90
TCDD equivalents	pg/L	0.8
Tetrachloroethylene	ug/L	410
Toxaphene	ng/L	430
Trichloroethylene	ug/L	5,500
Vinyl Chloride	ug/L	7,400

<sup>10</sup> Chromium (III) limit is met by Total Chromium.

### C. 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-2008 To 31-DEC-2008

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 -2008	179.5	251	375755	86	128745	65.7
FEBRUARY -2008	181.3	248	374986	93	140620	62.5
MARCH -2008	163.8	288	393434	102	139341	64.6
APRIL -2008	156.7	296	386836	102	133302	65.5
MAY -2008	156.0	290	377302	102	132706	64.8
JUNE -2008	156.8	288	376621	93	121617	67.7
JULY -2008	155.8	292	379417	94	122141	67.8
AUGUST -2008	157.3	295	387005	96	125941	67.5
SEPTEMBER-2008	155.3	281	363952	92	119159	67.3
OCTOBER -2008	150.5	292	366510	96	120496	67.1
NOVEMBER -2008	155.6	282	365953	101	131068	64.2
DECEMBER -2008	172.6	251	361310	95	136751	62.2
Average	161.8	280	375757	96	129324	65.6

Total Suspended Solids Concentration  
(24-hour composite)

	Daily Influent Flow	Daily Influent TSS (mg/L)	Daily Influent VSS (mg/L)	Percent VSS of TSS (%)	Daily Influent Value (lbs/Day)	Daily Effluent TSS (mg/L)	Daily Effluent VSS (mg/L)	Percent VSS of TSS (%)	Daily Effluent Value (lbs/Day)
JANUARY -2008	179.5	245	210	85.7	366772	39	29	74.4	58384
FEBRUARY -2008	181.3	239	210	87.9	361378	34	26	76.5	51409
MARCH -2008	163.8	265	229	86.4	362014	38	29	76.3	51911
APRIL -2008	156.7	292	251	86.0	381608	37	29	78.4	48354
MAY -2008	156.0	283	240	84.8	368194	36	28	77.8	46837
JUNE -2008	156.8	304	257	84.5	397544	38	29	76.3	49693
JULY -2008	155.8	301	256	85.0	391111	29	22	75.9	37682
AUGUST -2008	157.3	295	253	85.8	387005	28	22	78.6	36733
SEPTEMBER-2008	155.3	285	242	84.9	369133	24	19	79.2	31085
OCTOBER -2008	150.5	277	239	86.3	347682	24	19	79.2	30124
NOVEMBER -2008	155.6	284	245	86.3	368548	31	24	77.4	40229
DECEMBER -2008	172.6	255	218	85.5	367068	30	23	76.7	43185
Average	161.8	277	238		372338	32	25		43802

	Percent Removal TSS (%)	Percent Removal VSS (%)
JANUARY -2008	84.1	86.2
FEBRUARY -2008	85.8	87.6
MARCH -2008	85.7	87.3
APRIL -2008	87.3	88.4
MAY -2008	87.3	88.3
JUNE -2008	87.5	88.7
JULY -2008	90.4	91.4
AUGUST -2008	90.5	91.3
SEPTEMBER-2008	91.6	92.1
OCTOBER -2008	91.3	92.1
NOVEMBER -2008	89.1	90.2
DECEMBER -2008	88.2	89.4
Average	88.2	89.4

Annual Mass Emissions are calculated from monthly averages of flow and TSS, whereas Monthly Report average mass emissions are calculated from average daily mass emissions.

POINT LOMA WASTEWATER TREATMENT PLANT

Systemwide TSS Removals - 2008

MONTH	Pt. Loma Influent Mass Emissions	NCWRP PS64 Mass Emissions	NCWRP Penasquitos Mass Emissions	MBC Return Mass Emissions	NCWRP Return Mass Emissions	Total Return Mass Emissions	Pt. Loma Effluent Mass Emissions	System wide Adjusted TSS Removals	Pt. Loma Daily TSS Removals
08-01	363,292	25,310	19,430	14,101	8,564	22,665	57,538	85.0	84.0
08-02	361,520	23,006	18,153	16,343	7,981	24,324	50,935	86.5	85.9
08-03	361,749	27,196	19,444	14,349	9,295	23,643	51,260	86.7	85.8
08-04	381,503	27,641	20,892	15,315	3,771	19,086	48,599	88.0	87.2
08-05	368,428	27,842	19,853	14,038	4,040	18,079	47,198	88.0	87.2
08-06	397,997	27,391	15,666	18,190	2,785	20,975	49,705	88.1	87.4
08-07	391,324	31,214	14,951	22,737	18,231	40,968	37,695	90.5	90.3
08-08	386,325	33,300	14,515	20,348	16,061	36,409	37,195	90.6	90.3
08-09	369,704	31,033	15,434	19,291	8,248	27,539	31,119	91.9	91.5
08-10	347,841	26,723	17,423	24,039	18,538	42,577	30,445	91.3	91.3
08-11	369,008	26,557	15,427	37,172	18,743	55,915	40,606	88.1	89.0
08-12	364,471	23,556	17,941	37,844	8,244	46,088	42,514	87.5	88.3
avg	371,930	27,564	17,427	21,147	10,375	31,522	43,734	88.5	88.2

POINT LOMA WASTEWATER TREATMENT PLANT

Systemwide BOD Removals - 2008

MONTH	Pt. Loma Influent Mass Emissions	NCWRP PS64 Mass Emissions	NCWRP Penasquitos Mass Emissions	MBC Return Mass Emissions	NCWRP Return Mass Emissions	Total Return Mass Emissions	Pt. Loma Effluent Mass Emissions	System wide Adjusted BOD Removals	Pt. Loma Daily BOD Removals
08-01	373,148	23,109	13,202	6,835	7,895	14,730	126,817	67.7	65.8
08-02	374,936	23,975	15,168	7,857	6,410	14,267	141,265	64.6	62.3
08-03	393,201	27,652	16,604	8,292	8,769	17,061	139,537	66.7	64.5
08-04	386,632	27,516	13,995	9,840	4,340	14,180	133,389	67.8	65.5
08-05	377,945	26,558	12,229	6,576	4,234	10,810	133,211	67.1	64.8
08-06	375,995	32,613	12,157	6,783	3,841	10,624	121,512	70.4	67.7
08-07	379,144	32,931	12,718	7,326	11,960	19,286	122,447	69.6	67.6
08-08	386,572	34,277	10,190	6,775	15,693	22,468	125,680	69.2	67.5
08-09	364,757	28,253	10,027	6,027	7,140	13,167	119,650	69.2	67.2
08-10	366,266	30,245	11,300	7,930	10,863	18,794	120,951	68.7	67.0
08-11	365,339	29,478	13,283	10,289	12,064	22,353	131,489	65.9	63.9
08-12	356,860	23,632	13,150	6,613	5,167	11,781	135,069	64.6	62.1
avg	375,066	28,353	12,835	7,595	8,198	15,793	129,251	67.6	65.5

Annual mass emissions are calculated from monthly averages of flow and TSS, whereas Monthly Report average mass emissions are calculated from average daily mass emissions.

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-2008 to 31-DEC-2008

Influent to Plant  
(PLR)

	pH	Settleable Solids (ml/L)	Biochemical Oxygen Demand (mg/L)	Hexane Extractable Material (mg/L)	Temperature ( C )	Floating Particulates (mg/L)	Turbidity (NTU)
JANUARY -2008	7.41	13.7	251	36.5	21.9	1.8	126
FEBRUARY -2008	7.46	14.8	248	36.3	21.5	<1.4	130
MARCH -2008	7.39	15.9	288	39.7	22.4	1.4	139
APRIL -2008	7.41	18.1	296	45.0	23.5	<1.4	145
MAY -2008	7.37	16.2	290	41.7	24.5	<1.4	137
JUNE -2008	7.45	17.7	288	45.9	25.5	<1.4	144
JULY -2008	7.41	18.9	292	46.5	26.8	<1.4	148
AUGUST -2008	7.35	19.2	295	42.8	27.8	<1.4	146
SEPTEMBER-2008	7.36	18.7	281	44.8	27.7	<1.4	142
OCTOBER -2008	7.38	18.5	292	44.2	26.8	<1.4	141
NOVEMBER -2008	7.38	16.7	282	41.9	25.3	<1.4	142
DECEMBER -2008	7.38	14.0	251	35.7	23.4	<1.4	133
Average	7.40	16.9	280	41.8	24.8	0.3	139

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 -2008	7.19	0.7	86	9.3	22.0	ND	34
FEBRUARY -2008	7.26	0.4	93	8.8	21.5	ND	34
MARCH -2008	7.24	0.2	102	10.2	22.5	ND	38
APRIL -2008	7.20	0.3	102	10.1	23.7	ND	37
MAY -2008	7.20	0.4	102	10.9	24.7	ND	38
JUNE -2008	7.35	0.3	93	10.2	25.7	<1.40	36
JULY -2008	7.33	0.3	94	9.5	27.0	ND	36
AUGUST -2008	7.27	0.3	96	8.4	28.0	ND	37
SEPTEMBER-2008	7.25	0.2	92	8.3	27.8	ND	35
OCTOBER -2008	7.26	0.2	96	8.0	27.0	ND	36
NOVEMBER -2008	7.23	0.3	101	9.2	25.5	ND	39
DECEMBER -2008	7.21	0.2	95	9.0	23.4	ND	36
Average	7.25	0.3	96	9.3	24.9	0.00	36

ND=not detected; NS=not sampled; NA=not analyzed.  
comp = 24 hour composite sample  
grab = grab sample

POINT LOMA WASTEWATER TREATMENT PLANT  
ANNUAL SEWAGE  
Trace Metals

From: 01-JAN-2008 to: 31-DEC-2008

Analyte:	Antimony	Antimony	Arsenic	Arsenic	Beryllium	Beryllium	Cadmium	Cadmium
MDL	2.9	2.9	.4	.4	.022	.022	.53	.53
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Source:	PLR	PLE	PLR	PLE	PLR	PLE	PLR	PLE
=====	=====	=====	=====	=====	=====	=====	=====	=====
JANUARY -2008	ND	ND	1.18	0.60	ND	ND	ND	ND
FEBRUARY -2008	ND	ND	1.41	0.61	ND	ND	ND	ND
MARCH -2008	ND	ND	1.05	0.51	ND	ND	ND	ND
APRIL -2008	ND	ND	1.16	0.75	<0.022	ND	ND	ND
MAY -2008	ND	ND	1.34	0.96	ND	ND	ND	ND
JUNE -2008	ND	ND	1.15	0.77	<0.022	<0.022	<0.53	ND
JULY -2008	ND	ND	1.13	0.73	ND	ND	ND	ND
AUGUST -2008	ND	ND	1.21	0.86	ND	ND	ND	ND
SEPTEMBER-2008	ND	ND	1.11	0.81	<0.022	ND	ND	ND
OCTOBER -2008	ND	ND	1.23	0.77	ND	ND	ND	ND
NOVEMBER -2008	ND	ND	0.98	0.73	ND	ND	ND	ND
DECEMBER -2008	ND	ND	1.66	1.04	ND	ND	ND	ND
=====	=====	=====	=====	=====	=====	=====	=====	=====
AVERAGE	ND	ND	1.22	0.76	0.000	0.000	0.00	ND

Analyte:	Chromium	Chromium	Copper	Copper	Iron	Iron	Lead	Lead
MDL	1.2	1.2	.63	.63	37	37	2	2
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Source:	PLR	PLE	PLR	PLE	PLR	PLE	PLR	PLE
=====	=====	=====	=====	=====	=====	=====	=====	=====
JANUARY -2008	8.1	ND	78.8	11.0	6230	3610	3.0	ND
FEBRUARY -2008	11.2	2.1	89.5	16.4	5690	2770	<2.0	ND
MARCH -2008	8.3	1.8	85.3	20.0	6330	3200	ND	ND
APRIL -2008	5.9	ND	89.0	19.3	5920	2750	ND	ND
MAY -2008	8.8	<1.2	77.5	20.4	6400	2860	4.3	ND
JUNE -2008	6.5	1.4	103.0	24.4	6270	2520	ND	ND
JULY -2008	6.8	<1.2	106.0	16.2	7140	2670	ND	ND
AUGUST -2008	6.9	1.6	119.0	16.5	6040	2170	3.0	ND
SEPTEMBER-2008	6.7	1.6	91.4	35.0	5920	2380	<2.0	ND
OCTOBER -2008	15.3	2.2	87.6	19.0	5690	2270	3.2	ND
NOVEMBER -2008	7.0	2.3	95.0	19.8	5460	2460	3.7	<2.0
DECEMBER -2008	4.8	<1.2	100.0	22.9	5720	2570	4.0	ND
=====	=====	=====	=====	=====	=====	=====	=====	=====
AVERAGE	8.0	1.1	93.5	20.1	6068	2686	1.8	0.0

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

POINT LOMA WASTEWATER TREATMENT PLANT  
ANNUAL SEWAGE  
Trace Metals

From: 01-JAN-2008 to: 31-DEC-2008

Analyte:	Mercury	Mercury	Nickel	Nickel	Selenium	Selenium	Silver	Silver
MDL	.09	.09	.53	.53	.28	.28	.4	.4
Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Source:	PLR	PLE	PLR	PLE	PLR	PLE	PLR	PLE
=====	=====	=====	=====	=====	=====	=====	=====	=====
JANUARY -2008	0.12	ND	13.5	9.4	1.74	1.20	0.9	ND
FEBRUARY -2008	0.16	ND	17.5	11.4	2.12	1.26	1.2	ND
MARCH -2008	<0.09	<0.09	15.2	8.8	2.08	1.22	1.6	0.8
APRIL -2008	0.30	ND	9.9	6.0	1.85	1.12	1.4	ND
MAY -2008	<0.09	ND	14.5	11.5	1.68	1.10	1.0	ND
JUNE -2008	0.18	ND	15.0	9.3	1.91	1.10	1.8	<0.4
JULY -2008	0.25	<0.09	12.7	8.4	1.91	1.15	1.7	<0.4
AUGUST -2008	0.17	ND	12.4	7.8	1.72	1.02	1.4	ND
SEPTEMBER-2008	0.19	ND	16.6	9.9	1.68	1.09	1.3	<0.4
OCTOBER -2008	0.25	ND	15.2	10.4	1.90	1.09	1.3	<0.4
NOVEMBER -2008	<0.09	ND	10.4	7.2	1.63	1.08	1.0	ND
DECEMBER -2008	<0.09	ND	8.8	5.3	1.75	1.27	1.4	<0.4
=====	=====	=====	=====	=====	=====	=====	=====	=====
AVERAGE	0.14	0.00	13.5	8.8	1.83	1.14	1.3	0.1

Analyte:	Thallium	Thallium	Zinc	Zinc
MDL	3.9	3.9	.41	.41
Units	UG/L	UG/L	UG/L	UG/L
Source:	PLR	PLE	PLR	PLE
=====	=====	=====	=====	=====
JANUARY -2008	ND	ND	125	20
FEBRUARY -2008	ND	ND	147	24
MARCH -2008	ND	ND	140	24
APRIL -2008	ND	ND	137	25
MAY -2008	<3.9	ND	151	32
JUNE -2008	ND	ND	159	29
JULY -2008	ND	ND	149	29
AUGUST -2008	ND	ND	162	23
SEPTEMBER-2008	ND	ND	146	24
OCTOBER -2008	ND	ND	155	22
NOVEMBER -2008	ND	ND	143	24
DECEMBER -2008	ND	ND	135	29
=====	=====	=====	=====	=====
AVERAGE	0.0	ND	146	25

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

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

From: 01-JAN-2008 to: 31-DEC-2008

	Ammonia-N .3 MG/L PLR	Ammonia-N .3 MG/L PLE	Cyanides, Total .002 MG/L PLR	Cyanides, Total .002 MG/L PLE
Limit:		123		0.200
JANUARY -2008	30.1	29.8	ND	ND
FEBRUARY -2008	32.8	29.3	ND	ND
MARCH -2008	31.0	31.2	<0.002	<0.002
APRIL -2008	32.9	32.8	<0.002	ND
MAY -2008	32.4	31.6	ND	ND
JUNE -2008	31.5	31.2	ND	ND
JULY -2008	32.3	31.9	ND	ND
AUGUST -2008	31.5	32.4	ND	ND
SEPTEMBER-2008	31.6	30.9	<0.002	<0.002
OCTOBER -2008	32.0	30.7	ND	<0.002
NOVEMBER -2008	31.3	30.1	ND	0.002
DECEMBER -2008	29.7	28.9	<0.002	0.002
Average:	31.6	30.9	0.000	0.000

Chlorine Residual, Total  
 .03 MG/L  
 PLE

Limit:	
JANUARY -2008	NA
FEBRUARY -2008	NA
MARCH -2008	NA
APRIL -2008	NA
MAY -2008	NA
JUNE -2008	NA
JULY -2008	NA
AUGUST -2008	ND
SEPTEMBER-2008	ND
OCTOBER -2008	ND
NOVEMBER -2008	<0.03
DECEMBER -2008	0.1
Average:	0.0

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

POINT LOMA WASTEWATER TREATMENT PLANT  
ANNUAL SEWAGE

Radioactivity

From: 01-JAN-2008 to: 31-DEC-2008

Analyzed by: Truesdail Labs Inc.

Source	Month		Gross Alpha Radiation	Gross Beta Radiation
=====	=====		=====	=====
PLE	JANUARY	-2008	1.3±0.9	25.3±5.5
PLE	FEBRUARY	-2008	1.7±1.0	22.8±5.2
PLE	MARCH	-2008	1.8±1.1	21.8±5.2
PLE	APRIL	-2008	2.3±1.3	28.6±5.9
PLE	MAY	-2008	1.3±1.0	23.4±5.3
PLE	JUNE	-2008	1.4±1.0	30.0±6.1
PLE	JULY	-2008	0.5±0.6	30.3±6.6
PLE	AUGUST	-2008	6.1±3.2	31.3±8.9
PLE	SEPTEMBER	-2008	4.5±3.6	28.1±7.8
PLE	OCTOBER	-2008	2.7±2.6	22.2±5.8
PLE	NOVEMBER	-2008	3.6±2.8	30.0±6.4
PLE	DECEMBER	-2008	6.4±3.9	24.0±7.2
=====	=====		=====	=====
AVERAGE			2.8±1.9	26.5±6.3

Source	Month		Gross Alpha Radiation	Gross Beta Radiation
=====	=====		=====	=====
PLR	JANUARY	-2008	1.6±1.1	26.0±5.4
PLR	FEBRUARY	-2008	2.1±1.2	30.4±6.1
PLR	MARCH	-2008	3.3±1.5	26.3±5.5
PLR	APRIL	-2008	3.8±1.5	27.8±6.1
PLR	MAY	-2008	4.0±1.7	27.5±5.9
PLR	JUNE	-2008	3.8±1.6	31.0±5.8
PLR	JULY	-2008	2.7±1.4	30.6±6.3
PLR	AUGUST	-2008	7.2±3.7	32.7±7.3
PLR	SEPTEMBER	-2008	3.6±3.4	29.1±7.3
PLR	OCTOBER	-2008	5.0±3.2	34.9±7.9
PLR	NOVEMBER	-2008	1.6±2.1	27.3±5.9
PLR	DECEMBER	-2008	2.1±2.5	28.6±6.4
=====	=====		=====	=====
AVERAGE			3.4±2.1	29.4±6.3

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-2008 To 31-DEC-2008

Analyte	MDL	Units	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
			Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg
Aldrin	7	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Alpha isomer	7	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Beta isomer	3	NG/L	ND	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
BHC, Gamma isomer	5	NG/L	ND	ND	ND	<5	ND	ND	ND	ND	ND	ND	ND	0
BHC, Delta isomer	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p,p-DDD	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p,p-DDE	4	NG/L	ND	ND	<4	ND	ND	ND	ND	<4	ND	ND	<4	0
p,p-DDT	8	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDD	4	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDE	5	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDT	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	8	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	4	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha (cis) Chlordane	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma (trans) Chlordane	4	NG/L	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
Gamma Chlordene		NG/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxychlordane	6	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans Nonachlor	5	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cis Nonachlor	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha Endosulfan	4	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<4	0
Beta Endosulfan	2	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	0
Endosulfan Sulfate	6	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	2	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	9	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14	1
Mirex	10	NG/L	ND	ND	ND	ND	ND	ND	ND	<10	ND	ND	ND	0
Methoxychlor	10	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	330	NG/L	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
PCB 1221	4000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1232	360	NG/L	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
PCB 1248	2000	NG/L	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
PCB 1260	2000	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PCB 1262	930	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aldrin + Dieldrin	7	NG/L	0	0	0	0	0	0	0	0	0	0	0	0
Hexachlorocyclohexanes	7	NG/L	0	3	0	0	0	0	0	0	0	0	0	0
DDT and derivatives	8	NG/L	0	0	0	0	0	0	0	0	0	0	0	0
Chlordane + related cmpds.	6	NG/L	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
Endosulfans	6	NG/L	0	0	0	0	0	0	0	0	0	0	2	0
Heptachlors	8	NG/L	0	0	0	0	0	0	0	0	0	0	0	0
Chlorinated Hydrocarbons	4000	NG/L	0	3	0	0	0	0	0	0	0	0	16	2

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

POINT LOMA WASTEWATER TREATMENT PLANT  
SEWAGE ANNUAL - Chlorinated Pesticide Analysis

From 01-JAN-2008 To 31-DEC-2008

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	2008
			Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg
Aldrin	7	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Alpha isomer	7	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Beta isomer	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Gamma isomer	5	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Delta isomer	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p,p-DDD	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p,p-DDE	4	NG/L	ND	9	ND	ND	5	6	<4	11	4	ND	ND	ND	3
p,p-DDT	8	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDD	4	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	<4	ND	ND	0
o,p-DDE	5	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDT	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	8	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	4	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha (cis) Chlordane	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gamma (trans) Chlordane	4	NG/L	ND	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
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	6	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trans Nonachlor	5	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cis Nonachlor	3	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Alpha Endosulfan	4	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta Endosulfan	2	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	6	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	2	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	9	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mirex	10	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	10	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	330	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	360	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	930	NG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aldrin + Dieldrin	7	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Hexachlorocyclohexanes	7	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
DDT and derivatives	8	NG/L	0	9	0	0	5	6	0	11	4	0	0	0	3
Chlordane + related cmpds.	6	NG/L	0	4	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	6	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Heptachlors	8	NG/L	0	0	0	0	0	0	0	0	0	0	0	0	0
Chlorinated Hydrocarbons	4000	NG/L	0	13	0	0	5	6	0	11	4	0	0	0	3

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

POINT LOMA WASTEWATER TREATMENT PLANT  
Organophosphorus Pesticides EPA Method 614/622 (with additions)

From 01-JAN-2008 To 31-DEC-2008

Analyte	MDL Units	PLE	PLE	PLR	PLR
		13-MAY-2008 P424731	07-OCT-2008 P443359	13-MAY-2008 P424736	07-OCT-2008 P443364
Demeton O	.15 UG/L	ND	ND	ND	ND
Demeton S	.08 UG/L	ND	ND	ND	ND
Diazinon	.03 UG/L	ND	ND	ND	ND
Guthion	.15 UG/L	ND	ND	ND	ND
Malathion	.03 UG/L	ND	ND	ND	ND
Parathion	.03 UG/L	ND	ND	ND	ND
Thiophosphorus Pesticides	.15 UG/L	0.0	0.0	0.0	0.0
Demeton -O, -S	.15 UG/L	0.0	0.0	0.0	0.0
Total Organophosphorus Pesticides	.3 UG/L	0.0	0.0	0.0	0.0
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	.02 UG/L	ND	ND	ND	ND
Dimethoate	.04 UG/L	ND	ND	ND	ND
Ronnel	.03 UG/L	ND	ND	ND	ND
Trichloronate	.04 UG/L	ND	ND	ND	ND
Merphos	.09 UG/L	ND	ND	ND	ND
Dichlofenthion	.03 UG/L	ND	ND	ND	ND
Tokuthion	.06 UG/L	ND	ND	ND	ND
Stirophos	.03 UG/L	ND	ND	ND	ND
Bolstar	.07 UG/L	ND	ND	ND	ND
Fensulfothion	.07 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	.03 UG/L	ND	ND	ND	ND

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

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

From 01-JAN-2008 To 31-DEC-2008

Analyte	MDL	Units	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Dibutyltin	7	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monobutyltin	16	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tributyltin	2	UG/L	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
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Dibutyltin	7	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Monobutyltin	16	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tributyltin	2	UG/L	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 Extractable

From 01-JAN-2008 to 31-DEC-2008

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	
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	1.67	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	12.0	11.7	12.8	15.3	15.4	12.4	10.6	12.7	10.1	11.2	13.1	12.3	12.5
2-nitrophenol	1.88	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dimethylphenol	2.01	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	12.0	11.7	12.8	15.3	15.4	12.4	10.6	12.7	10.1	11.2	13.1	12.3	12.5
Phenols	6.07	UG/L	12.0	11.7	12.8	15.3	15.4	12.4	10.6	12.7	10.1	11.2	13.1	12.3	12.5

Additional analytes determined:

2-methylphenol	2.15	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	NA	NA	NA	ND
4-methylphenol(3-MP is unresolved)	4.22	UG/L	32.9	38.3	28.6	38.0	37.2	29.2	25.8	31.2	24.5	27.6	38.7	27.2	31.6
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	
2-chlorophenol	1.76	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<1.3	0.0
2,4-dichlorophenol	1.95	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-chloro-3-methylphenol	1.67	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	18.1	16.9	18.3	21.6	19.0	22.4	17.2	17.3	14.3	13.8	15.8	12.8	17.3
2-nitrophenol	1.88	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dimethylphenol	2.01	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	18.1	16.9	18.3	21.6	19.0	22.4	17.2	17.3	14.3	13.8	15.8	12.8	17.3
Phenols	6.07	UG/L	18.1	16.9	18.3	21.6	19.0	22.4	17.2	17.3	14.3	13.8	15.8	12.8	17.3

Additional analytes determined:

2-methylphenol	2.15	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	NA	NA	NA	ND
4-methylphenol(3-MP is unresolved)	4.22	UG/L	54.9	57.9	47.6	50.7	47.1	52.1	42.4	42.6	32.5	32.3	48.2	32.9	45.1
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-2008 to 31-DEC-2008

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
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	1.6	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	1.52	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	1.65	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	2.87	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	1.25	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	<3.1	5.1	<3.1	ND	4.5	4.5	ND	1.2
N-nitrosodiphenylamine	3.48	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	1.52	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	<2.8	ND	ND	ND	ND	0.0
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	84.9	ND	51.0	ND	13.4	ND	ND	ND	ND	ND	ND	ND	12.4
Di-n-octyl phthalate	8.59	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3-dichlorobenzidine	2.44	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
2-chloronaphthalene	2.41	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
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	84.9	0.0	51.0	0.0	13.4	0.0	5.1	0.0	0.0	4.5	4.5	0.0	13.6

Additional analytes determined:

1-methylnaphthalene	2.18	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-methylnaphthalene	2.25	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
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-2008 to 31-DEC-2008

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
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	1.6	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	1.52	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	1.65	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	2.87	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	1.25	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	3.4	ND	ND	ND	ND	4.9	0.7
N-nitrosodiphenylamine	3.48	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	1.52	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	23.6	22.4	16.3	28.7	20.3	ND	18.7	11.9	10.8	11.8	17.7	ND	15.2
Di-n-octyl phthalate	8.59	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3-dichlorobenzidine	2.44	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	18.9	ND	ND	ND	1.6
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
2-chloronaphthalene	2.41	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
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	23.6	22.4	16.3	28.7	20.3	0.0	22.1	11.9	10.8	30.7	17.7	4.9	17.5

Additional analytes determined:

1-methylnaphthalene	2.18	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-methylnaphthalene	2.25	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
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 Purgeables

From 01-JAN-2008 to 31-DEC-2008

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	
Chloromethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	8.3	5.3	25.7	17.2	4.7
1,2-dichlorobenzene	1	UG/L	ND	ND	2.9	ND	1.2	0.7	1.0	1.2*	1.1*	1.2	1.0	0.8	0.9
1,3-dichlorobenzene	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-dichlorobenzene	1	UG/L	ND	ND	1.2	0.5	1.2	1.3	0.9	0.9*	1.2*	0.9	0.6	0.8	0.8
Bromomethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	<0.7	ND	2.0	1.1	0.3
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	3.6	1.9	0.5
1,1-dichloroethene	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane		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	1.4	7.1	2.4	1.1	2.8	1.3	2.7*	1.6	1.1	1.3	2.0*	2.2*	2.2
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	2.7	3.6	2.9	3.2	3.7	3.2	3.1	3.2	4.6	4.6	8.4	7.3	4.2
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	ND	ND	ND	ND	0.5	ND	ND	ND	0.5	1.0	1.2	0.3
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	ND	ND	ND	ND	ND	ND	ND	ND	ND	<0.6	1.0	0.1
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	1.1	UG/L	ND	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	1.1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1	UG/L	1.1	3.9	1.6	3.7	5.4	1.0	1.5	1.0	0.8	0.5	0.6	1.0	1.8
Chlorobenzene	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5	ND	0.0
Ethylbenzene	1	UG/L	ND	ND	ND	ND	3.2	ND	0.5	ND	0.4	ND	ND	ND	0.3
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	5.3	27.7	18.3	5.0
Dichlorobenzenes	1	UG/L	0.0	0.0	2.9	0.0	1.2	0.7	1.0	0.0	0.0	1.2	1.0	0.8	0.7
Total Chloromethanes	1	UG/L	4.1	10.7	5.3	4.3	6.5	4.5	3.1	4.8	14.0	11.2	34.1	24.5	10.6
===== Purgeable Compounds	13.8	UG/L	5.2	14.6	11.0	8.5	17.5	8.0	7.0	5.8	15.2	14.3	43.4	32.3	15.2

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	14.5	ND	1.5	0.6	ND	ND	ND	ND	1.4
Styrene	4.7	UG/L	ND	ND	ND	ND	0.4	ND	ND	ND	ND	ND	ND	ND	0.0
1,2,4-trichlorobenzene	1.52	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	12	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	6.0	ND	0.8	ND	ND	ND	ND	ND	0.6
Acetone	20	UG/L	1420	788	293	1410	6000	647	1230	799	415	793	606	1190	1299
Carbon disulfide	1	UG/L	ND	1.7	1.6	1.7	2.9	2.1	3.8	3.2	2.6	6.8	5.1	6.6	3.2
2-butanone	6.3	UG/L	ND	7.3	5.0	6.7	ND	ND	ND	7.1	8.3	<6.3	ND	ND	2.9
Methyl tert-butyl ether	1	UG/L	1.2	3.2	6.1	3.9	15.2	3.8	3.8	2.8	2.9	3.8	2.7	1.6	4.3

\* Analyte did not meet blank QC criteria and value not used in summation.

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

POINT LOMA WASTEWATER TREATMENT PLANT  
SEWAGE ANNUAL Priority Pollutants Purgeables

From 01-JAN-2008 to 31-DEC-2008

Analyte	MDL	Units	PLR	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	Avg	
Chloromethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-dichlorobenzene	1	UG/L	ND	ND	2.0	ND	0.6	0.7	2.1	3.1*	2.5*	1.1	1.8	1.1	0.9	0.9
1,3-dichlorobenzene	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-dichlorobenzene	1	UG/L	ND	ND	1.7	1.2	1.0	1.3	1.1	0.9*	1.4*	2.5	1.1	1.1	1.1	1.1
Bromomethane	1	UG/L	ND	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	ND
Chloroethane	1	UG/L	ND	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	ND
Dichlorodifluoromethane		UG/L	ND	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	ND
Methylene chloride	1	UG/L	1.4	2.4	1.5	1.3	1.8	1.1	2.6*	1.5	1.0	1.3	1.9*	1.8*	1.5	1.5
1,1-dichloroethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-dichloroethene	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	1	UG/L	2.4	3.3	3.0	4.1	3.8	2.5	3.0	3.0	3.3	2.6	3.0	4.6	3.2	3.2
1,2-dichloroethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-trichloroethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1	0.1
1,2-dichloropropane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-dichloropropene	1	UG/L	ND	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	ND
Benzene	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.9	0.1
1,1,2-trichloroethane	1	UG/L	ND	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	ND
2-chloroethylvinyl ether	1.1	UG/L	ND	ND	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	ND
1,1,2,2-tetrachloroethane	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1.1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1	UG/L	ND	3.2	1.2	2.7	2.3	0.8	1.1	1.0	0.7	1.6	0.6	0.9	1.3	1.3
Chlorobenzene	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	1	UG/L	ND	ND	ND	ND	1.9	ND	0.4	ND	ND	ND	ND	0.4	0.2	0.2
Acrylonitrile	13.8	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrolein	11.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
===== Halomethane Purgeable Cmpnds	1	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	0.0
Dichlorobenzenes	1	UG/L	0.0	0.0	2.0	0.0	0.6	0.7	2.1	0.0	0.0	1.1	1.8	1.1	0.8	0.8
Total Chloromethanes	1	UG/L	3.8	5.7	4.5	5.4	5.6	3.6	3.0	4.5	4.3	3.9	3.0	4.6	4.3	4.3
===== Purgeable Compounds	13.8	UG/L	3.8	8.9	9.4	9.3	11.4	6.4	7.7	5.5	5.0	9.1	6.5	10.1	7.8	7.8

Additional analytes determined:

Allyl chloride	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-methyl-2-pentanone	6.1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
meta,para xylenes	3.1	UG/L	ND	ND	ND	3.5	8.6	ND	1.1	ND	ND	0.8	ND	1.3	1.3	1.3
Styrene	4.7	UG/L	ND	ND	ND	ND	ND	ND	0.4	ND	ND	ND	ND	0.5	0.1	0.1
1,2,4-trichlorobenzene	1.52	UG/L	ND	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	ND
Chloroprene	1.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl methacrylate	4.6	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-nitropropane	12	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-dibromoethane	3.3	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	4.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzyl chloride	7.2	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ortho-xylene	3.4	UG/L	ND	ND	ND	ND	3.3	ND	0.7	ND	ND	0.5	ND	0.7	0.4	0.4
Acetone	20	UG/L	950	384	391	2670	4560	448	849	693	503	586	604	1340	1165	1165
Carbon disulfide	1	UG/L	1.4	2.0	1.7	1.9	2.6	1.9	3.2	4.1	2.2	2.2	4.1	3.6	2.6	2.6
2-butanone	6.3	UG/L	ND	6.1	6.5	ND	ND	ND	ND	<6.3	12.6	ND	6.8	ND	2.7	2.7
Methyl tert-butyl ether	1	UG/L	1.2	3.1	8.2	6.4	5.5	5.4	4.4	3.4	4.2	2.9	3.8	2.5	4.3	4.3

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

\* Analyte did not meet blank QC criteria and value not used in summation.

POINT LOMA WASTEWATER TREATMENT  
 SLUDGE PROJECT - ANNUAL SUMMARY  
 Dioxin and Furan Analysis

From 01-JAN-2008 to 31-DEC-2008

Analyte	MDL	Units	Equiv	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE
				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
				P414206	P414442	P420197	P424018	P424731	P431071	P433952	P434957
2,3,7,8-tetra CDD	500	PG/L	1.000	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
1,2,3,4,7,8-hexa_CDD	500	PG/L	0.100	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
1,2,3,7,8,9-hexa CDD	500	PG/L	0.100	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
octa CDD	1000	PG/L	0.001	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
1,2,3,7,8-penta CDF	500	PG/L	0.050	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
1,2,3,4,7,8-hexa CDF	500	PG/L	0.100	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
1,2,3,7,8,9-hexa CDF	500	PG/L	0.100	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
1,2,3,4,6,7,8-hepta CDF	500	PG/L	0.010	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
octa CDF	1000	PG/L	0.001	ND	ND	ND	ND	ND	ND	ND	ND

Analyte	MDL	Units	Equiv	PLE	PLE	PLE	PLE
				SEP	OCT	NOV	DEC
				P442150	P443359	P451550	P453011
2,3,7,8-tetra CDD	500	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	500	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa_CDD	500	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	500	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	500	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	500	PG/L	0.010	ND	ND	ND	ND
octa CDD	1000	PG/L	0.001	ND	ND	ND	ND
2,3,7,8-tetra CDF	250	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	500	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	500	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	500	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	500	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	500	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	500	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	500	PG/L	0.010	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	500	PG/L	0.010	ND	ND	ND	ND
octa CDF	1000	PG/L	0.001	ND	ND	ND	ND

Above are permit required CDD/CDF isomers.

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

POINT LOMA WASTEWATER TREATMENT  
SLUDGE PROJECT - ANNUAL SUMMARY  
Dioxin and Furan Analysis

From 01-JAN-2008 to 31-DEC-2008

Analyte	MDL	Units	Equiv	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR
				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
				P414209	P414447	P420200	P424021	P424736	P431074	P433955	P434962
2,3,7,8-tetra CDD	500	PG/L	1.000	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
1,2,3,4,7,8-hexa_CDD	500	PG/L	0.100	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
1,2,3,7,8,9-hexa CDD	500	PG/L	0.100	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
octa CDD	1000	PG/L	0.001	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
1,2,3,7,8-penta CDF	500	PG/L	0.050	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
1,2,3,4,7,8-hexa CDF	500	PG/L	0.100	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
1,2,3,7,8,9-hexa CDF	500	PG/L	0.100	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
1,2,3,4,6,7,8-hepta CDF	500	PG/L	0.010	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
octa CDF	1000	PG/L	0.001	ND	ND	ND	ND	ND	ND	ND	ND

Analyte	MDL	Units	Equiv	PLR	PLR	PLR	PLR
				SEP	OCT	NOV	DEC
				P442153	P443364	P451553	P453014
2,3,7,8-tetra CDD	500	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	500	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa_CDD	500	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	500	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	500	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	500	PG/L	0.010	ND	ND	ND	ND
octa CDD	1000	PG/L	0.001	ND	ND	ND	ND
2,3,7,8-tetra CDF	250	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	500	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	500	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	500	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	500	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	500	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	500	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	500	PG/L	0.010	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	500	PG/L	0.010	ND	ND	ND	ND
octa CDF	1000	PG/L	0.001	ND	ND	ND	ND

Above are permit required CDD/CDF isomers.

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

POINT LOMA WASTEWATER TREATMENT  
 SLUDGE PROJECT - ANNUAL SUMMARY  
 Dioxin and Furan Analysis

From 01-JAN-2008 to 31-DEC-2008

Analyte	MDL	Units	PLE	PLE	PLE	PLE	PLE	PLE	PLE	
			TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	TCDD
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
			P414206	P414442	P420197	P424018	P424731	P431071	P433952	P434957
2,3,7,8-tetra CDD	500	PG/L	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
1,2,3,4,7,8-hexa_CDD	500	PG/L	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
1,2,3,7,8,9-hexa CDD	500	PG/L	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
octa CDD	1000	PG/L	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
1,2,3,7,8-penta CDF	500	PG/L	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
1,2,3,4,7,8-hexa CDF	500	PG/L	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
1,2,3,7,8,9-hexa CDF	500	PG/L	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
1,2,3,4,6,7,8-hepta CDF	500	PG/L	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
octa CDF	1000	PG/L	ND	ND	ND	ND	ND	ND	ND	ND

Analyte	MDL	Units	PLE	PLE	PLE	PLE
			TCDD	TCDD	TCDD	TCDD
			SEP	OCT	NOV	DEC
			P442150	P443359	P451550	P453011
2,3,7,8-tetra CDD	500	PG/L	ND	ND	ND	ND
1,2,3,7,8-penta CDD	500	PG/L	ND	ND	ND	ND
1,2,3,4,7,8-hexa_CDD	500	PG/L	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	500	PG/L	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	500	PG/L	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	500	PG/L	ND	ND	ND	ND
octa CDD	1000	PG/L	ND	ND	ND	ND
2,3,7,8-tetra CDF	250	PG/L	ND	ND	ND	ND
1,2,3,7,8-penta CDF	500	PG/L	ND	ND	ND	ND
2,3,4,7,8-penta CDF	500	PG/L	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	500	PG/L	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	500	PG/L	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	500	PG/L	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	500	PG/L	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	500	PG/L	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	500	PG/L	ND	ND	ND	ND
octa CDF	1000	PG/L	ND	ND	ND	ND

Above are permit required CDD/CDF isomers.

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

POINT LOMA WASTEWATER TREATMENT  
 SLUDGE PROJECT - ANNUAL SUMMARY  
 Dioxin and Furan Analysis

From 01-JAN-2008 to 31-DEC-2008

Analyte	MDL	Units	PLR	PLR	PLR	PLR	PLR	PLR	PLR	
			TCDD JAN	TCDD FEB	TCDD MAR	TCDD APR	TCDD MAY	TCDD JUN	TCDD JUL	TCDD AUG
			P414209	P414447	P420200	P424021	P424736	P431074	P433955	P434962
2,3,7,8-tetra CDD	500	PG/L	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
1,2,3,4,7,8-hexa_CDD	500	PG/L	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
1,2,3,7,8,9-hexa CDD	500	PG/L	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
octa CDD	1000	PG/L	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
1,2,3,7,8-penta CDF	500	PG/L	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
1,2,3,4,7,8-hexa CDF	500	PG/L	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
1,2,3,7,8,9-hexa CDF	500	PG/L	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
1,2,3,4,6,7,8-hepta CDF	500	PG/L	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
octa CDF	1000	PG/L	ND	ND	ND	ND	ND	ND	ND	ND

Analyte	MDL	Units	PLR	PLR	PLR	PLR
			TCDD SEP	TCDD OCT	TCDD NOV	TCDD DEC
			P442153	P443364	P451553	P453014
2,3,7,8-tetra CDD	500	PG/L	ND	ND	ND	ND
1,2,3,7,8-penta CDD	500	PG/L	ND	ND	ND	ND
1,2,3,4,7,8-hexa_CDD	500	PG/L	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	500	PG/L	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	500	PG/L	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	500	PG/L	ND	ND	ND	ND
octa CDD	1000	PG/L	ND	ND	ND	ND
2,3,7,8-tetra CDF	250	PG/L	ND	ND	ND	ND
1,2,3,7,8-penta CDF	500	PG/L	ND	ND	ND	ND
2,3,4,7,8-penta CDF	500	PG/L	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	500	PG/L	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	500	PG/L	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	500	PG/L	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	500	PG/L	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	500	PG/L	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	500	PG/L	ND	ND	ND	ND
octa CDF	1000	PG/L	ND	ND	ND	ND

Above are permit required CDD/CDF isomers.

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

**2008**  
**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 4, 2008	13,000,000
February 11, 2008	13,000,000
March 5, 2008	2,300,000
April 3, 2008	23,000,000
May 8, 2008	17,000,000
June 19, 2008	11,000,000
July 22, 2008	4,900,000
August 14, 2008	4,900,000
September 3, 2008	70,000,000
October 22, 2008	1,300,000
November 6, 2008	13,000,000
December 12, 2008	13,000,000
Average	15,533,333



POINT LOMA WASTEWATER TREATMENT PLANT  
From 01-JAN-2008 to 31-DEC-2008

MDL:	Total Hardness		Calcium Hardness		Magnesium Hardness		Calcium		Magnesium	
	.4 mg/L Inf.	mg/L Eff.	.1 mg/L Inf.	mg/L Eff.	.4 mg/L Inf.	mg/L Eff.	.04 mg/L Inf.	mg/L Eff.	.1 mg/L Inf.	mg/L Eff.
JANUARY -2008	406	397	200	194	206	203	80	78	50	49
FEBRUARY -2008	444	431	220	212	225	219	88	85	55	53
MARCH -2008	431	430	217	215	214	216	87	86	52	52
APRIL -2008	433	433	209	209	224	224	84	84	55	54
MAY -2008	415	418	200	199	215	218	80	80	52	53
JUNE -2008	430	418	207	203	223	216	83	81	54	52
JULY -2008	447	446	213	211	234	235	85	84	57	57
AUGUST -2008	449	460	211	216	238	244	85	87	58	59
SEPTEMBER-2008	428	424	204	200	224	224	82	80	55	54
OCTOBER -2008	465	467	221	222	244	245	88	89	59	59
NOVEMBER -2008	384	387	183	186	200	202	73	74	49	49
DECEMBER -2008	426	426	209	209	217	217	84	84	53	53
Average:	430	428	208	206	222	222	83	83	54	54

MDL:	Alkalinity		Total Solids		Total Vol. Solids		Conductivity		Fluoride	
	20 mg/L Inf.	mg/L Eff.	10 mg/L Inf.	mg/L Eff.	100 mg/L Inf.	mg/L Eff.	10umhos/cm Inf.	mg/L Eff.	.05 mg/L Inf.	mg/L Eff.
JANUARY -2008	271	250	1840	1590	461	267	2680	2650	0.66	0.70
FEBRUARY -2008	291	265	1830	1590	482	278	2730	2700	0.69	0.76
MARCH -2008	291	283	1870	1610	497	293	2740	2720	0.76	0.77
APRIL -2008	296	282	1950	1680	511	273	2840	2830	0.82	0.85
MAY -2008	295	283	1900	1640	518	313	2730	2740	0.75	0.78
JUNE -2008	297	283	1980	1700	523	285	2850	2850	0.80	0.82
JULY -2008	297	287	2110	1820	570	319	3030	3050	0.88	0.92
AUGUST -2008	297	292	2100	1840	534	301	3030	3060	0.90	1.04
SEPTEMBER-2008	294	281	2100	1830	558	324	3010	3020	0.77	0.90
OCTOBER -2008	301	286	2080	1830	533	308	3060	3090	0.95	0.95
NOVEMBER -2008	291	277	2030	1770	520	286	2950	2970	0.78	0.81
DECEMBER -2008	279	265	1930	1690	479	264	2880	2870	0.88	0.89
Average:	292	278	1977	1716	516	293	2878	2879	0.80	0.85

MDL:	Chloride		Bromide		Sulfate		Nitrate		Ortho Phosphate	
	7 mg/L Inf.	mg/L Eff.	.1 mg/L Inf.	mg/L Eff.	9 mg/L Inf.	mg/L Eff.	.04 mg/L Inf.	mg/L Eff.	.2 mg/L Inf.	mg/L Eff.
JANUARY -2008	514	533	1.39	1.41	245	244	ND	1.07	4.48	ND
FEBRUARY -2008	508	518	1.39	1.36	252	252	0.14	0.98	5.66	1.30
MARCH -2008	504	513	1.36	1.33	256	253	ND	0.48	4.62	2.44
APRIL -2008	553	565	1.34	1.35	244	243	0.22	0.22	5.85	2.44
MAY -2008	540	547	1.42	1.44	226	224	0.25	0.28	5.17	2.90
JUNE -2008	566	559	1.55	1.46	247	242	ND	ND	9.05	4.62
JULY -2008	598	632	1.61	1.71	254	257	ND	0.19	8.51	4.04
AUGUST -2008	626	660	1.68	1.81	260	258	0.15	ND	6.92	5.84
SEPTEMBER-2008	602	635	1.74	1.77	267	267	0.31	0.33	7.96	4.60
OCTOBER -2008	627	655	1.60	1.67	272	267	ND	0.20	7.28	5.24
NOVEMBER -2008	587	630	1.49	1.54	251	255	ND	ND	8.94	4.53
DECEMBER -2008	566	583	1.40	1.41	257	254	ND	0.18	5.34	2.94
Average:	566	586	1.50	1.52	253	251	0.09	0.33	6.65	3.41

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

POINT LOMA WASTEWATER TREATMENT PLANT  
From 01-JAN-2008 to 31-DEC-2008

MDL:	Lithium		Sodium		Potassium		Chemical Oxygen Demand		Soluble BOD	
	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.
JANUARY -2008	0.045	0.043	350	336	24.9	23.4	484	189	78	53
FEBRUARY -2008	0.046	0.045	369	356	26.5	24.8	539	193	80	56
MARCH -2008	0.046	0.045	352	354	26.4	26.1	527	214	90	65
APRIL -2008	0.042	0.044	372	377	27.2	26.4	610	234	91	66
MAY -2008	0.041	0.039	349	354	27.2	27.3	581	221	94	67
JUNE -2008	0.049	0.047	361	351	28.0	26.5	623	211	87	60
JULY -2008	0.048	0.047	398	398	29.5	28.6	551	205	85	66
AUGUST -2008	0.049	0.050	403	422	28.8	29.2	681	191	87	67
SEPTEMBER-2008	0.038	0.044	352	356	26.7	26.0	512	201	84	69
OCTOBER -2008	0.046	0.046	403	416	29.8	29.6	581	236	83	79
NOVEMBER -2008	0.038	0.038	336	345	24.9	24.9	533	225	84	70
DECEMBER -2008	0.037	0.037	355	363	25.4	25.3	503	206	69	63
Average:	0.04	0.04	367	369	27.1	26.5	560	211	84	65

MDL:	Total Disolved Solids		Floatables		Turbidity		Aluminum		Barium	
	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.
JANUARY -2008	1550	1510	1.8	ND	126	34	896	156	81	27
FEBRUARY -2008	1560	1530	<1.4	ND	130	34	1220	213	99	33
MARCH -2008	1620	1600	1.4	ND	139	38	837	72	104	42
APRIL -2008	1640	1620	<1.4	ND	145	37	894	135	99	39
MAY -2008	1630	1610	<1.4	ND	137	38	1010	259	94	36
JUNE -2008	1720	1710	<1.4	<1.4	144	36	887	203	98	39
JULY -2008	1790	1780	<1.4	ND	148	36	818	160	102	40
AUGUST -2008	1800	1790	<1.4	ND	146	37	1000	179	108	44
SEPTEMBER-2008	1810	1790	<1.4	ND	142	35	873	171	103	43
OCTOBER -2008	1800	1790	<1.4	ND	141	36	900	166	109	47
NOVEMBER -2008	1720	1710	<1.4	ND	142	39	849	186	97	44
DECEMBER -2008	1680	1680	<2.1	ND	133	36	946	209	96	42
Average:	1693	1677	0.3	0.0	139	36	928	176	99	40

MDL:	Boron		Cobalt		Molybdenum		Manganese		Vanadium	
	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.
JANUARY -2008	355	374	<0.85	<0.85	10	9	92	96	3.95	1.26
FEBRUARY -2008	420	411	<0.85	<0.85	13	10	103	97	3.46	ND
MARCH -2008	435	434	<0.85	ND	11	8	102	94	3.92	1.09
APRIL -2008	426	435	<0.85	<0.85	9	8	100	101	2.89	<0.64
MAY -2008	445	453	<0.85	<0.85	10	8	108	106	3.81	0.84
JUNE -2008	435	449	ND	<0.85	9	8	99	95	3.05	0.65
JULY -2008	475	482	ND	ND	11	9	101	103	3.97	1.02
AUGUST -2008	471	484	<0.85	ND	13	11	108	113	3.90	0.67
SEPTEMBER-2008	442	444	<0.85	ND	9	9	113	103	2.69	<0.64
OCTOBER -2008	453	465	<0.85	ND	11	11	111	112	3.17	<0.64
NOVEMBER -2008	466	472	1.20	<0.85	9	7	105	103	3.11	<0.64
DECEMBER -2008	407	421	<0.85	ND	11	9	116	111	3.85	1.13
Average:	436	444	0.10	0.00	11	9	105	103	3.48	0.56

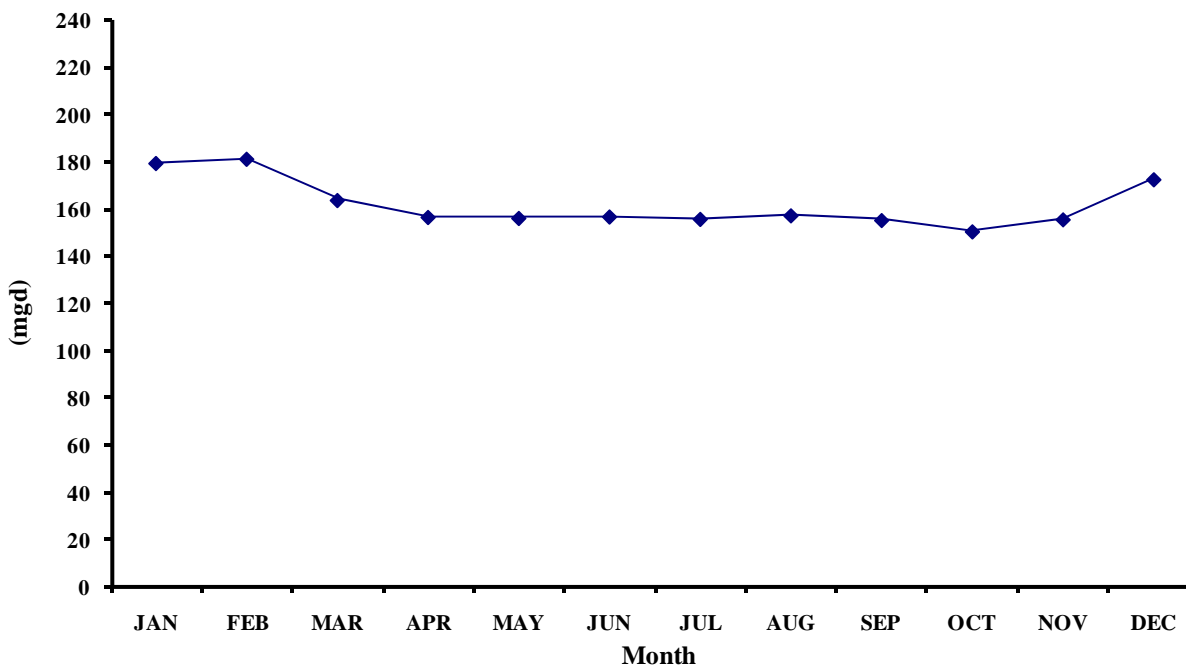
ND=not detected; NS=not sampled; NA=not analyzed

#### D. Influent and Effluent Graphs

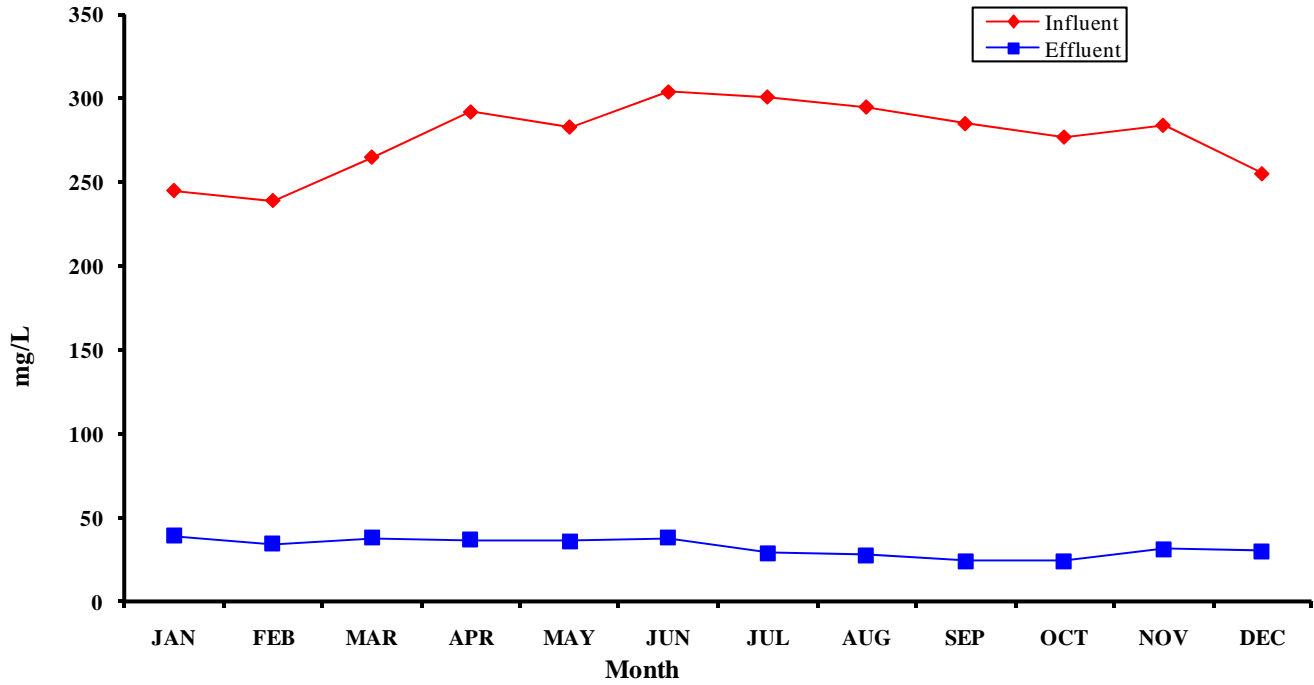
Graphs of monthly averages for permit parameters with measurable concentration averages.

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 may not 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.

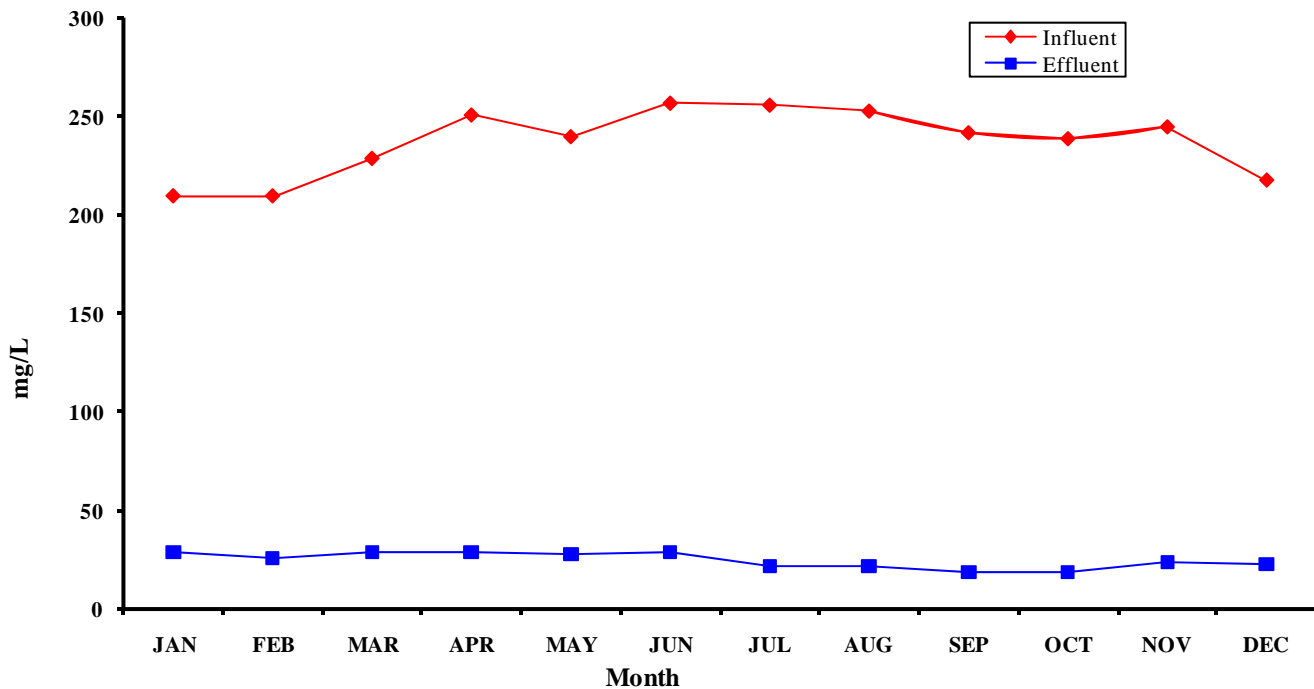
**PLWWTP Flows (mgd)  
2008 Monthly Averages**



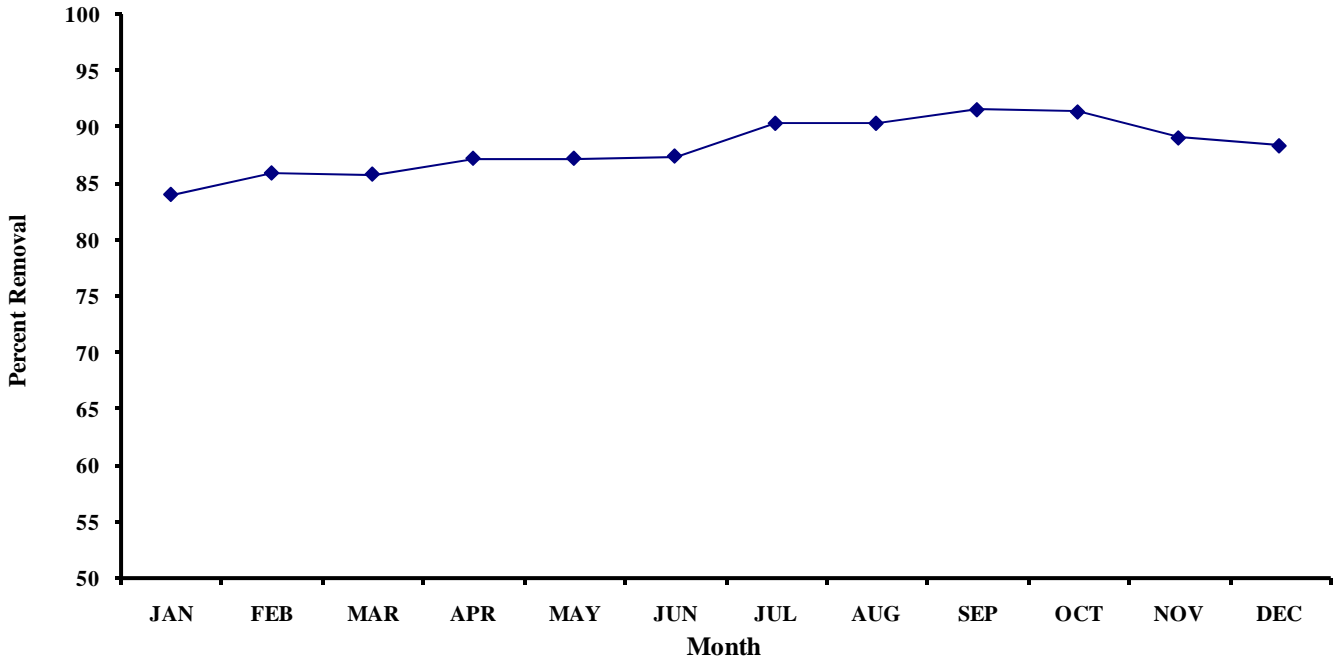
### Total Suspended Solids (mg/L) 2008 Monthly Averages



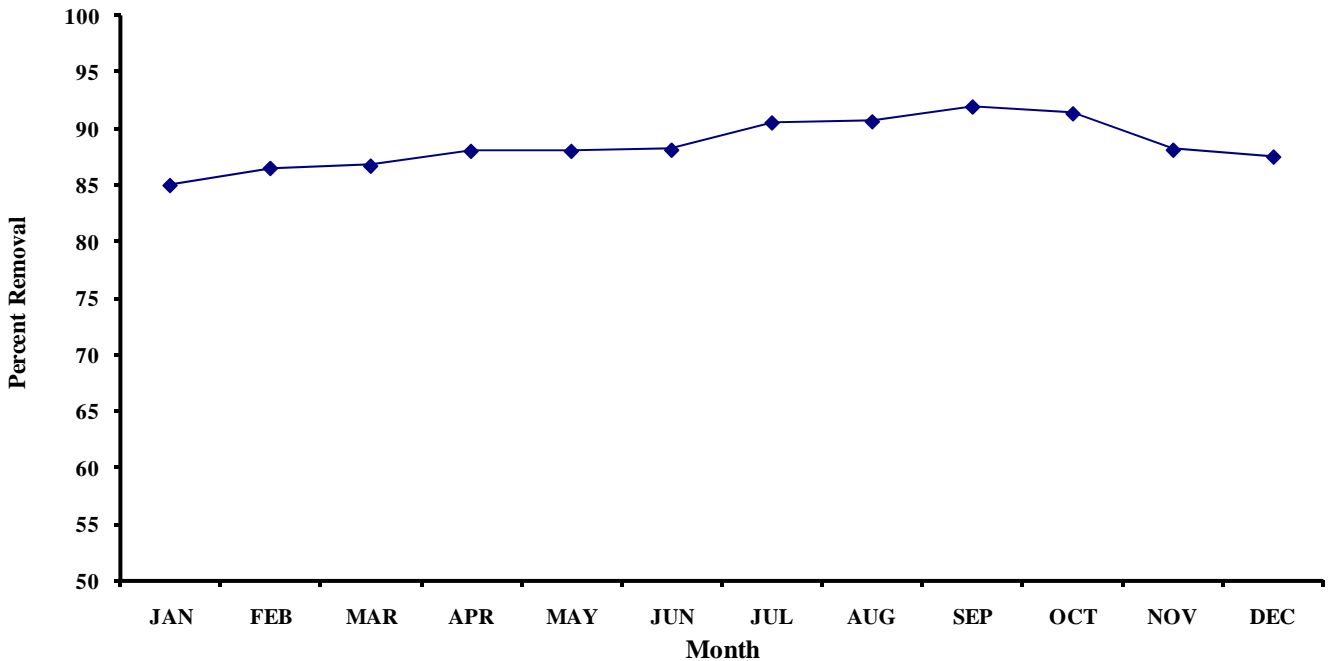
### Volatile Suspended Solids (mg/L) 2008 Monthly Averages



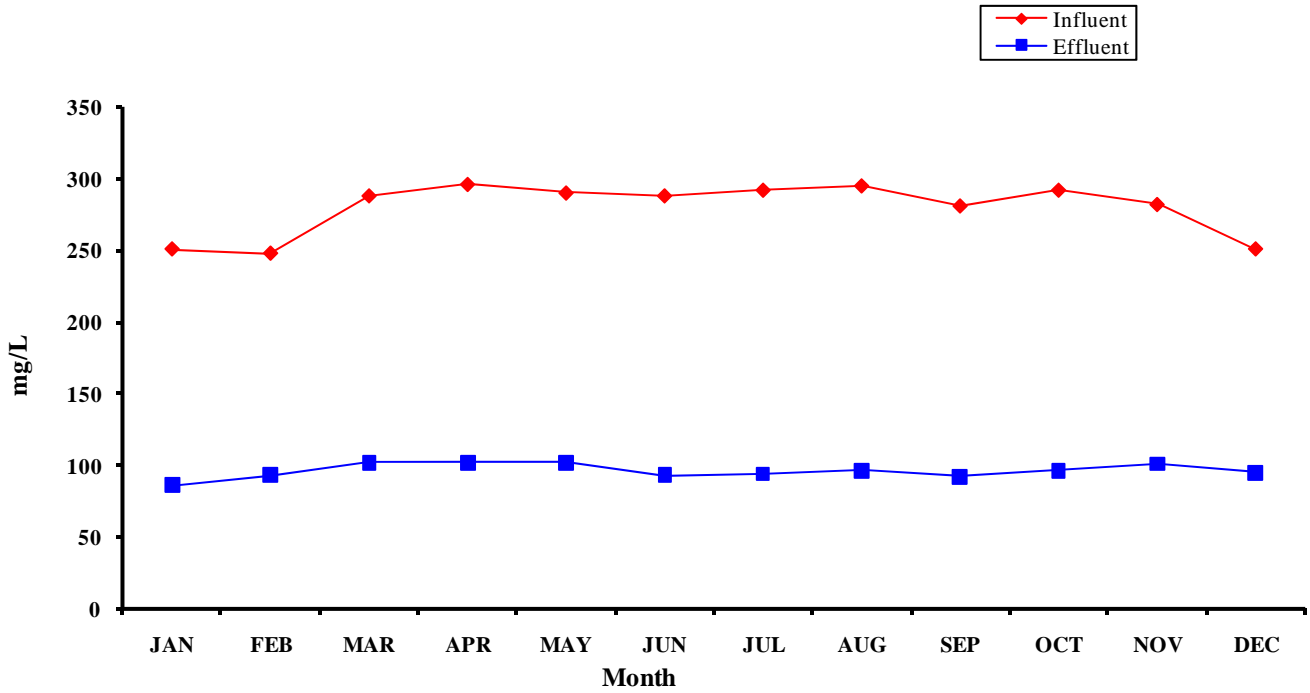
**Total Suspended Solids (%) Removal  
2008 Monthly Averages at Point Loma**



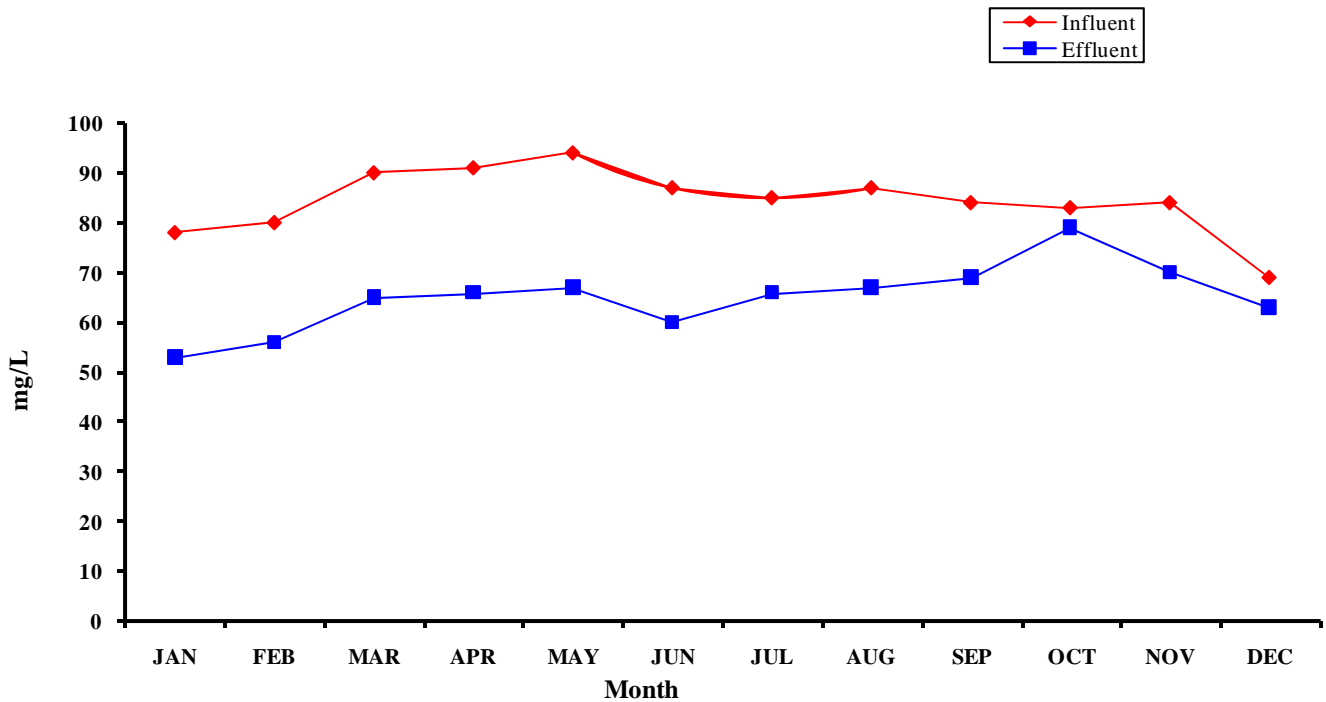
**Total Suspended Solids (%) Removal  
2008 Monthly Averages Systemwide**



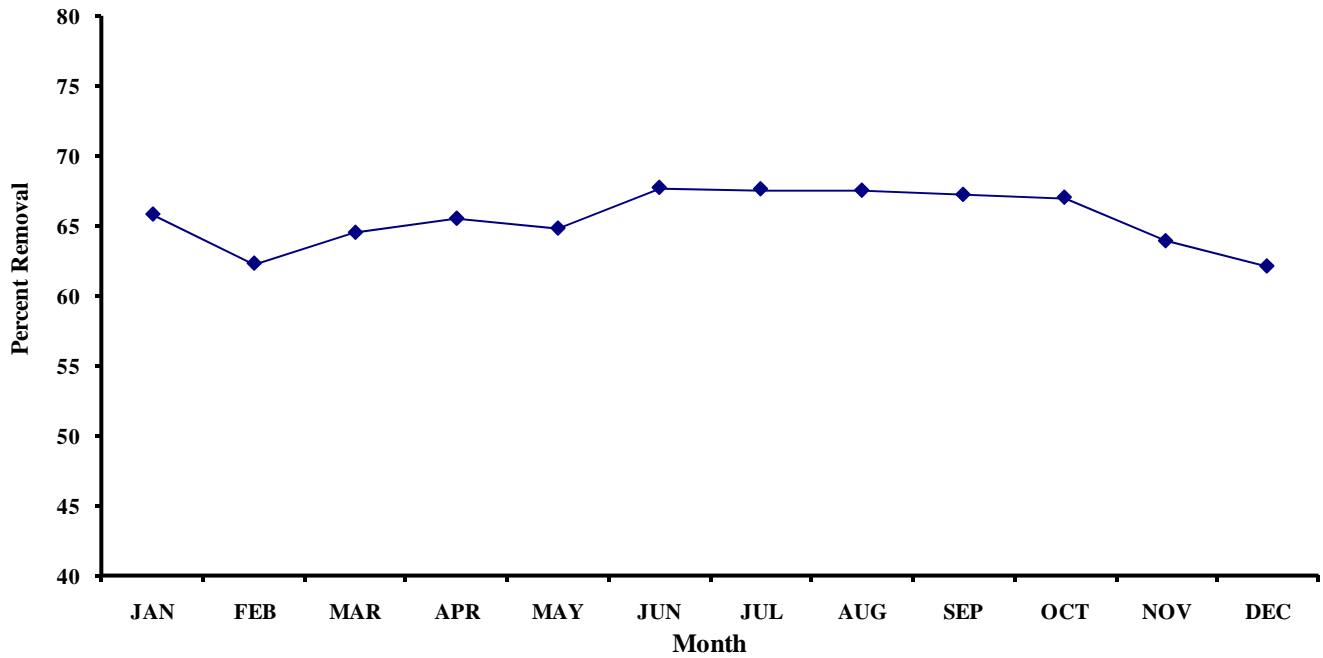
### Biochemical Oxygen Demand 2008 Monthly Averages



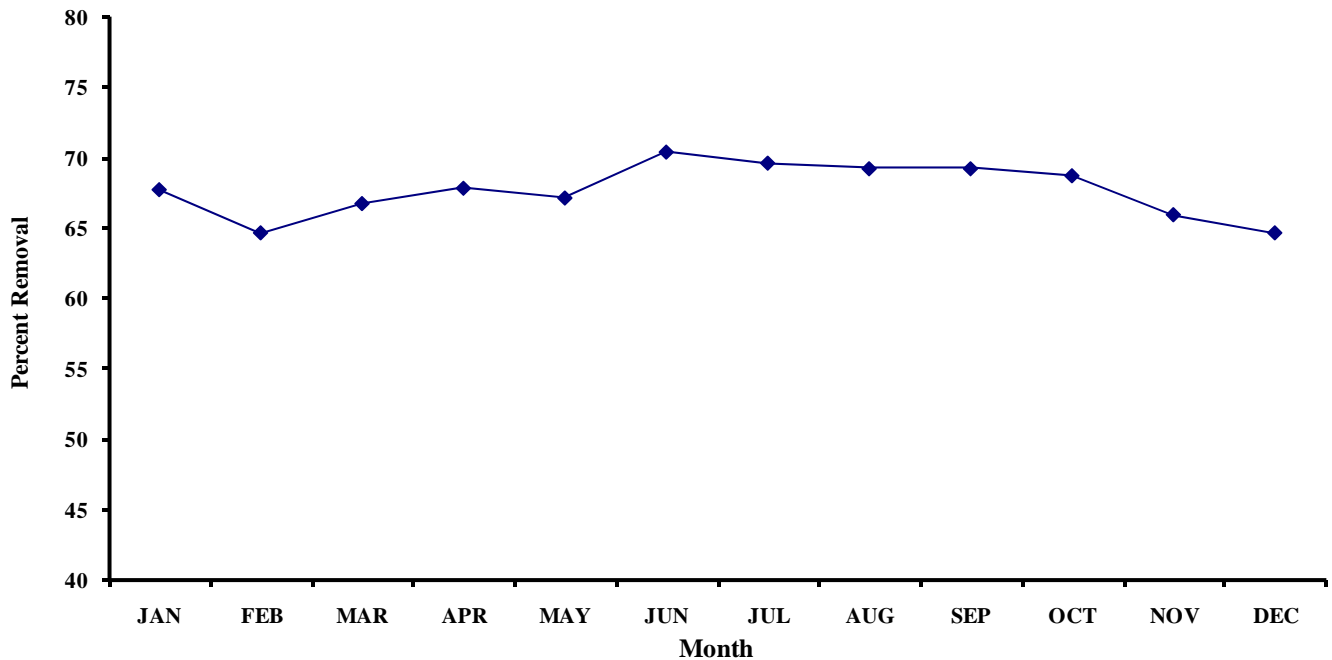
### Soluble Biochemical Oxygen Demand 2008 Monthly Averages



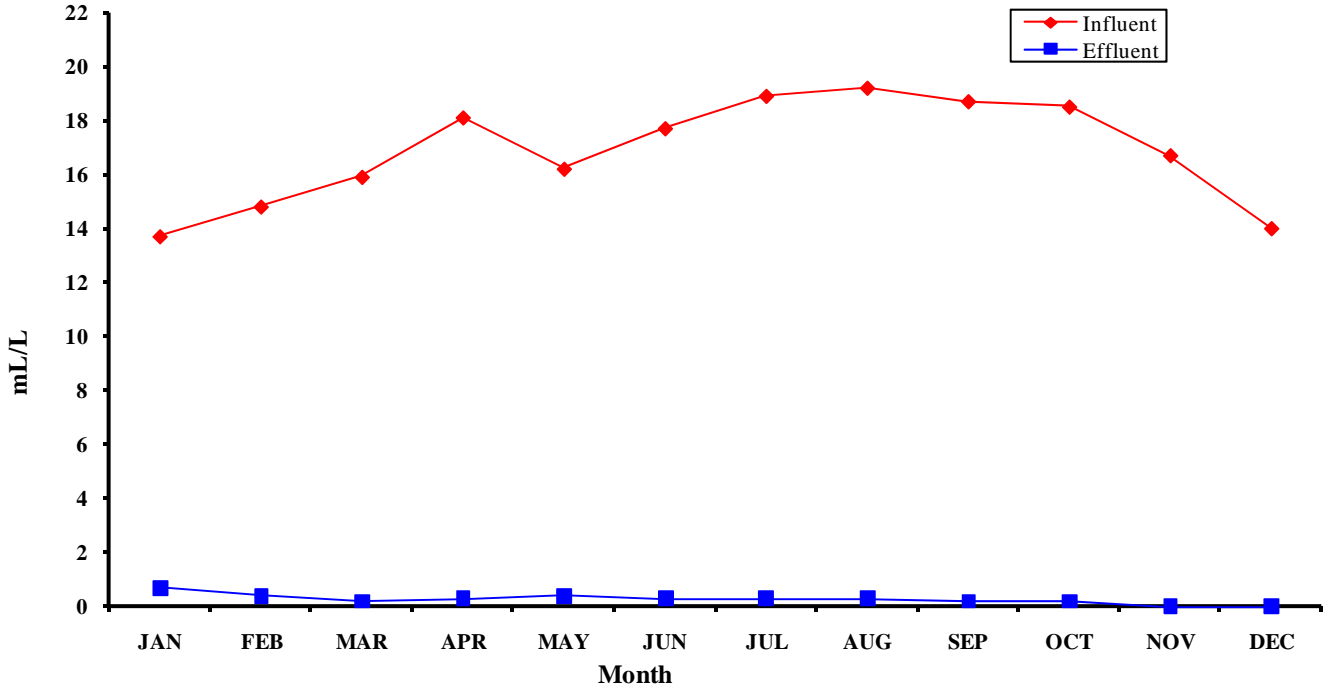
**Biochemical Oxygen Demand (%) Removal  
2008 Monthly Averages at Point Loma**



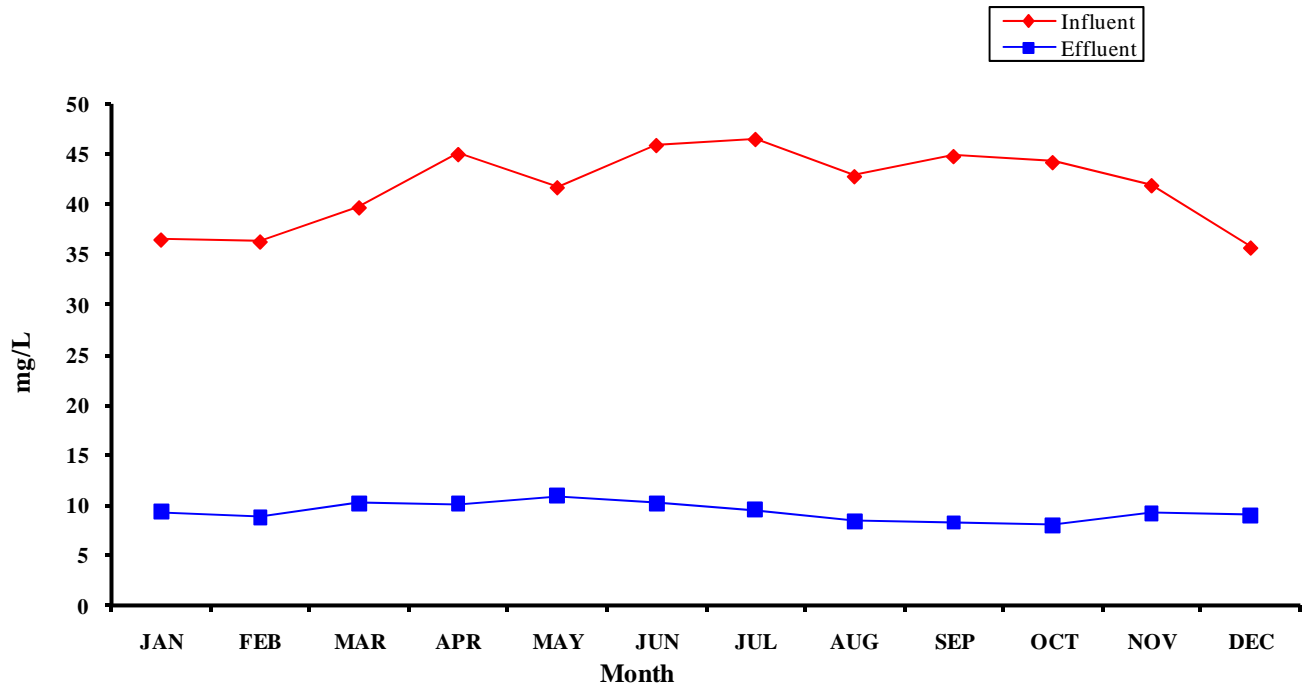
**Biochemical Oxygen Demand (%) Removal  
2008 Monthly Averages Systemwide**



### Settleable Solids (mL/L) 2008 Monthly Averages

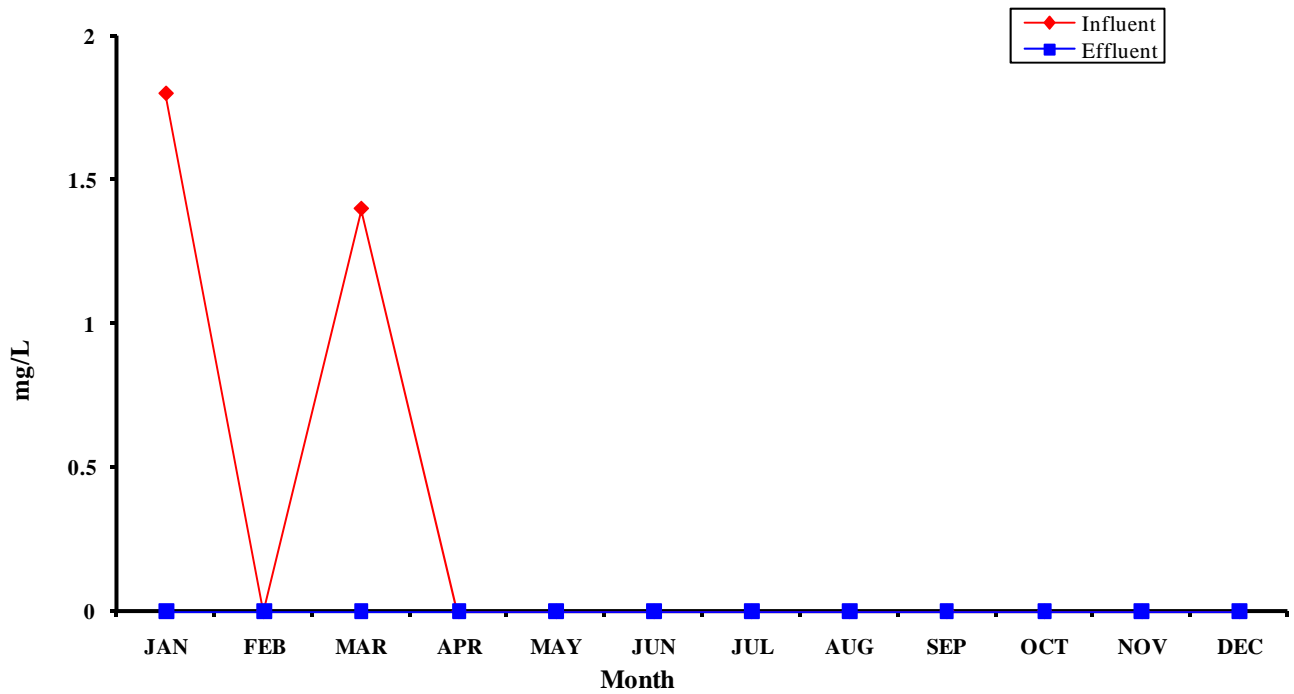


### Hexane Extractable Material (mg/L) 2008 Monthly Averages

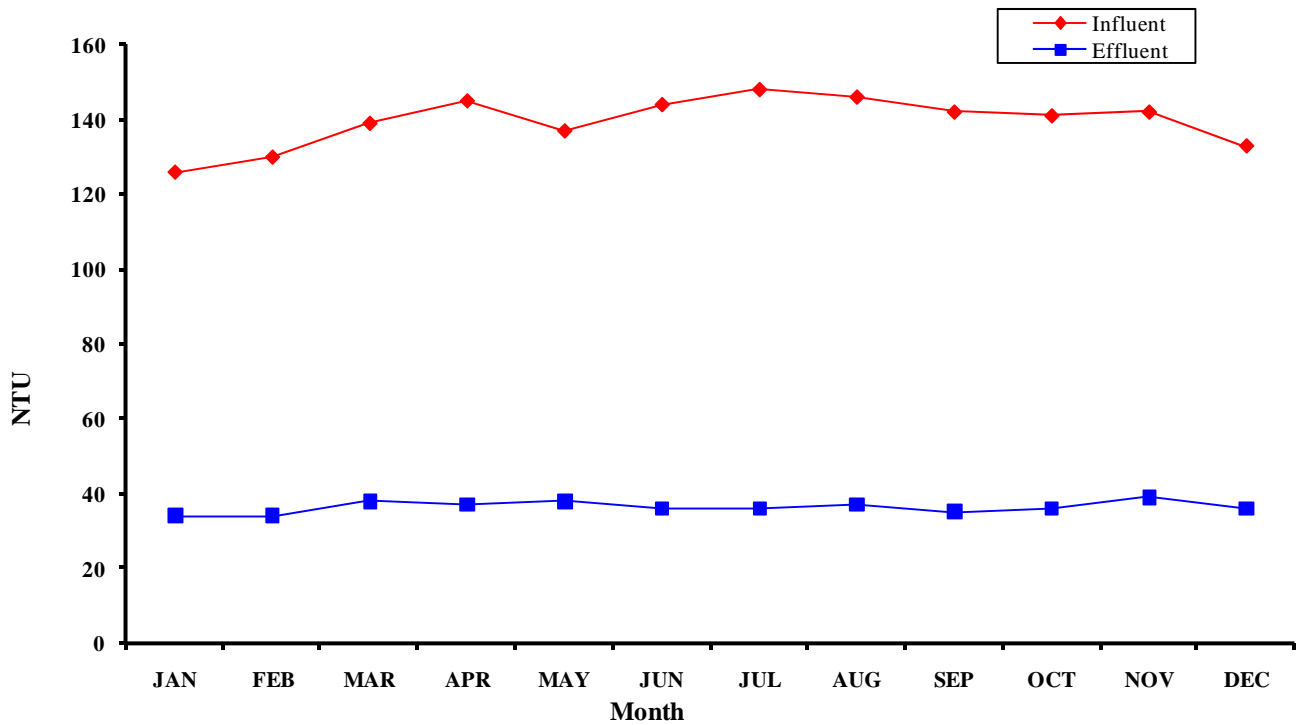




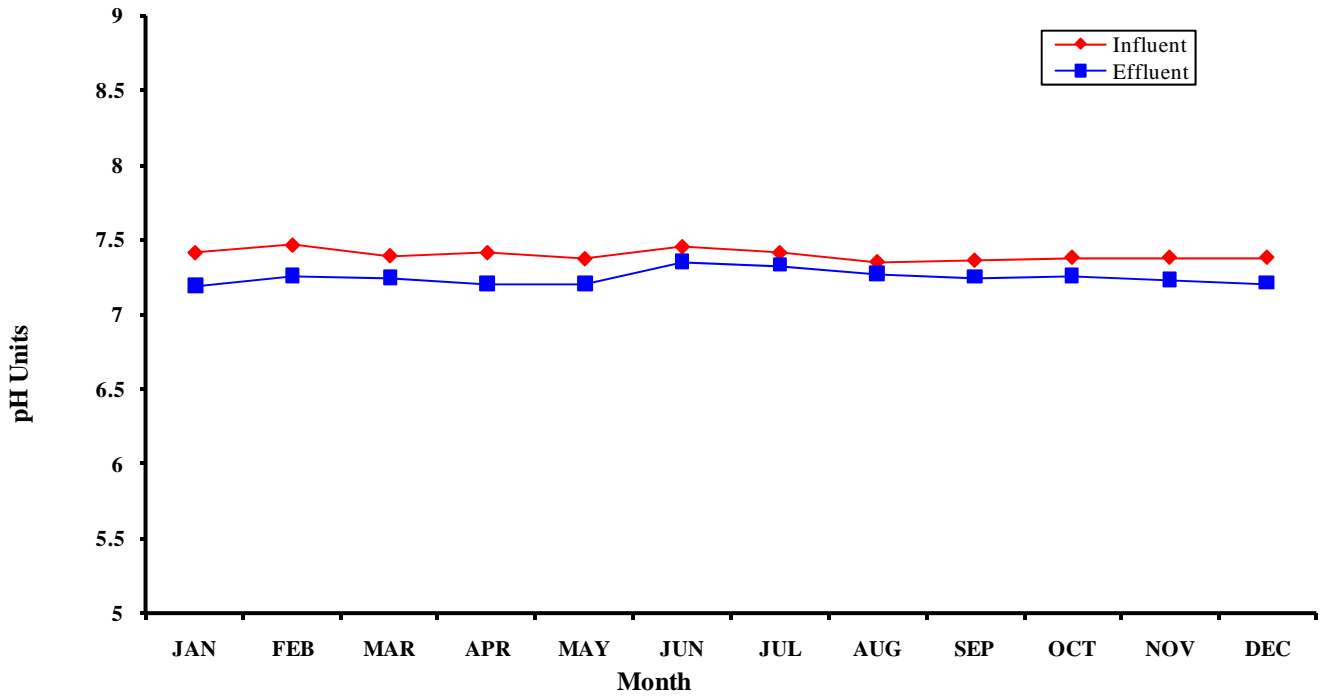
**Floatables (mg/L)  
2008 Monthly Averages**



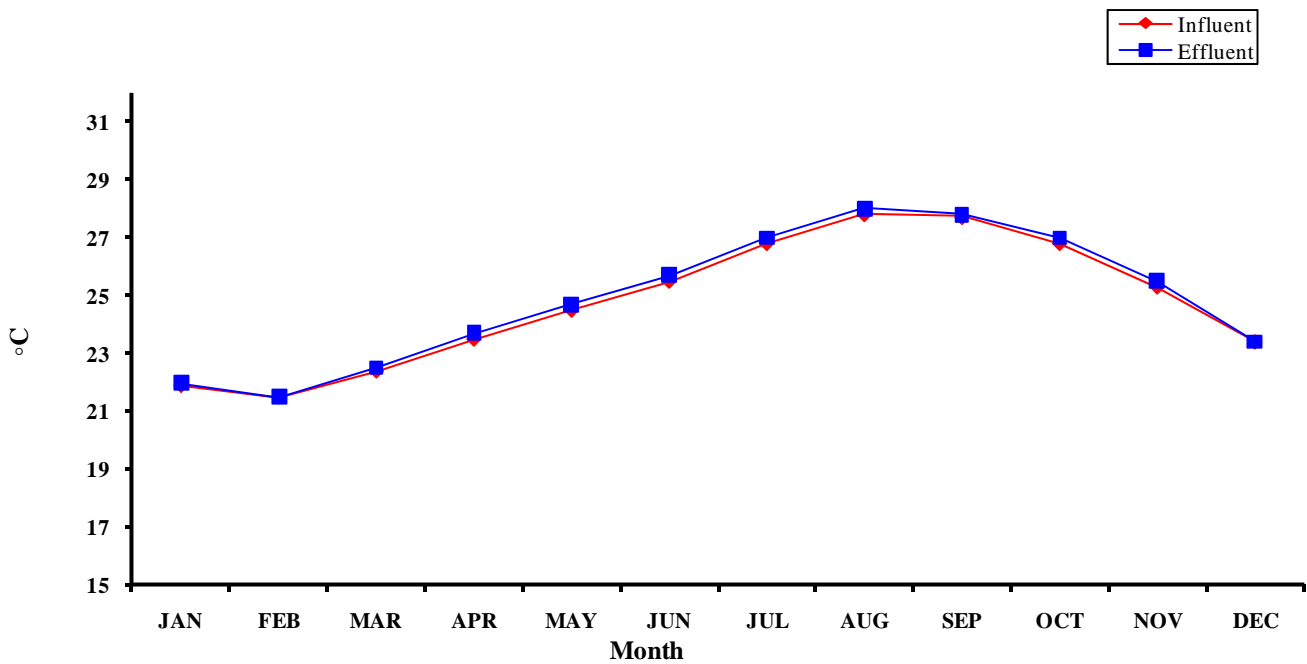
**Turbidity (NTU)  
2008 Monthly Averages**



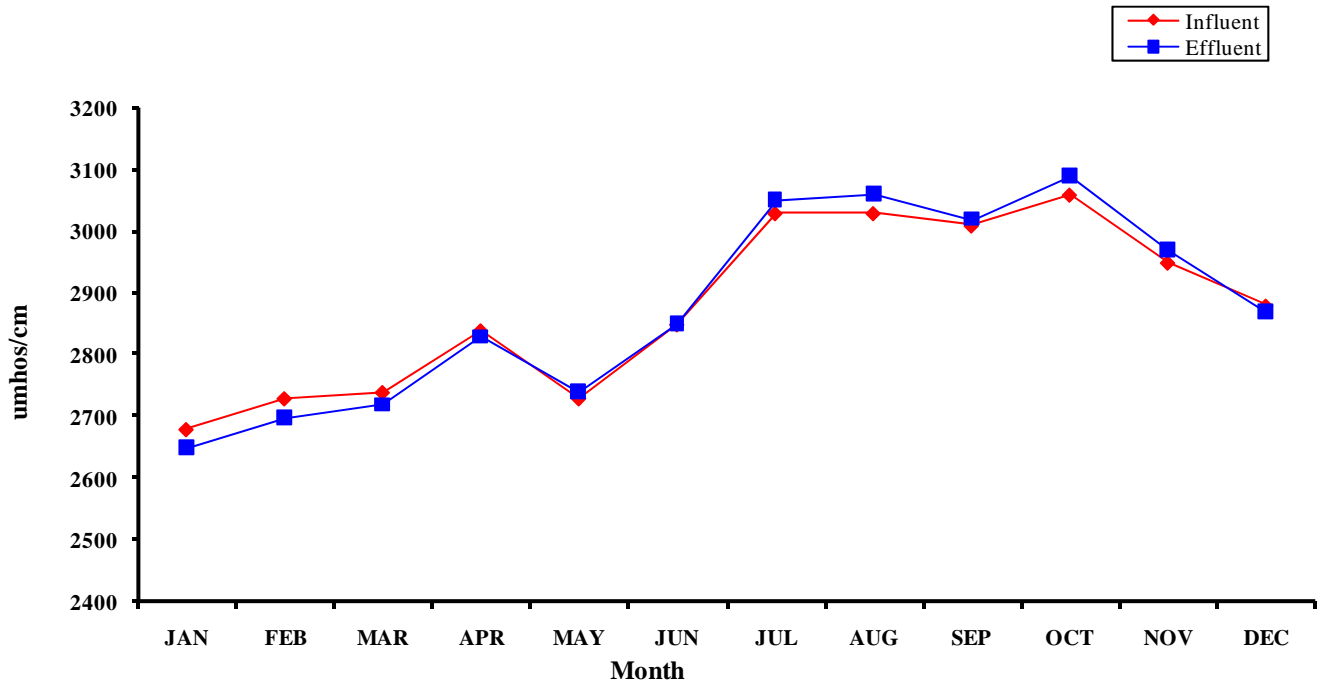
### pH 2008 Monthly Averages



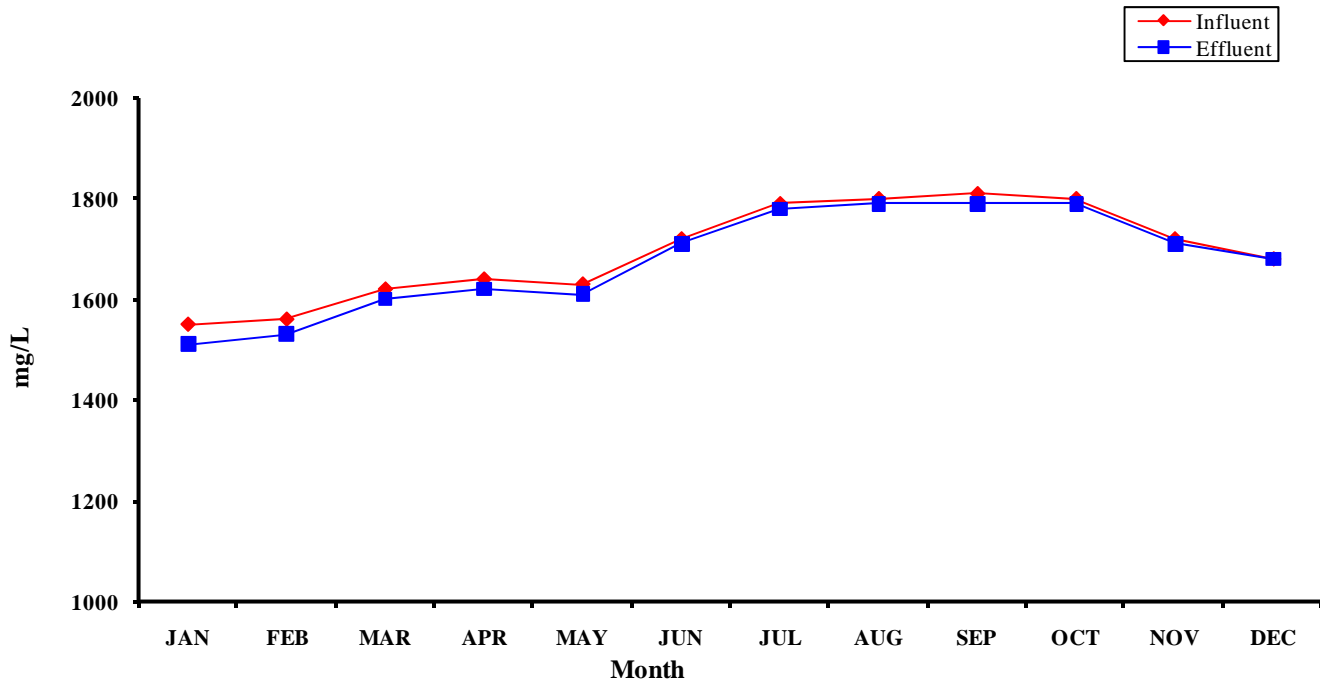
### Temperature (°C) 2008 Monthly Averages



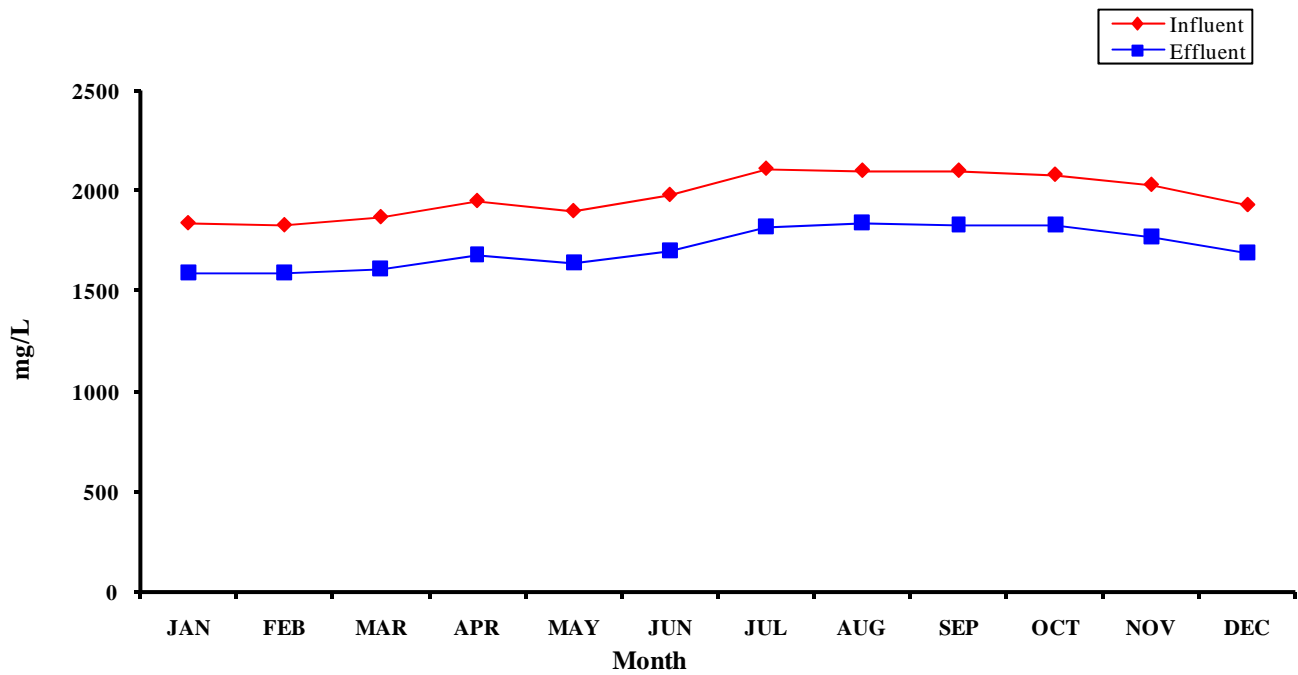
### Conductivity (umhos/cm) 2008 Monthly Averages



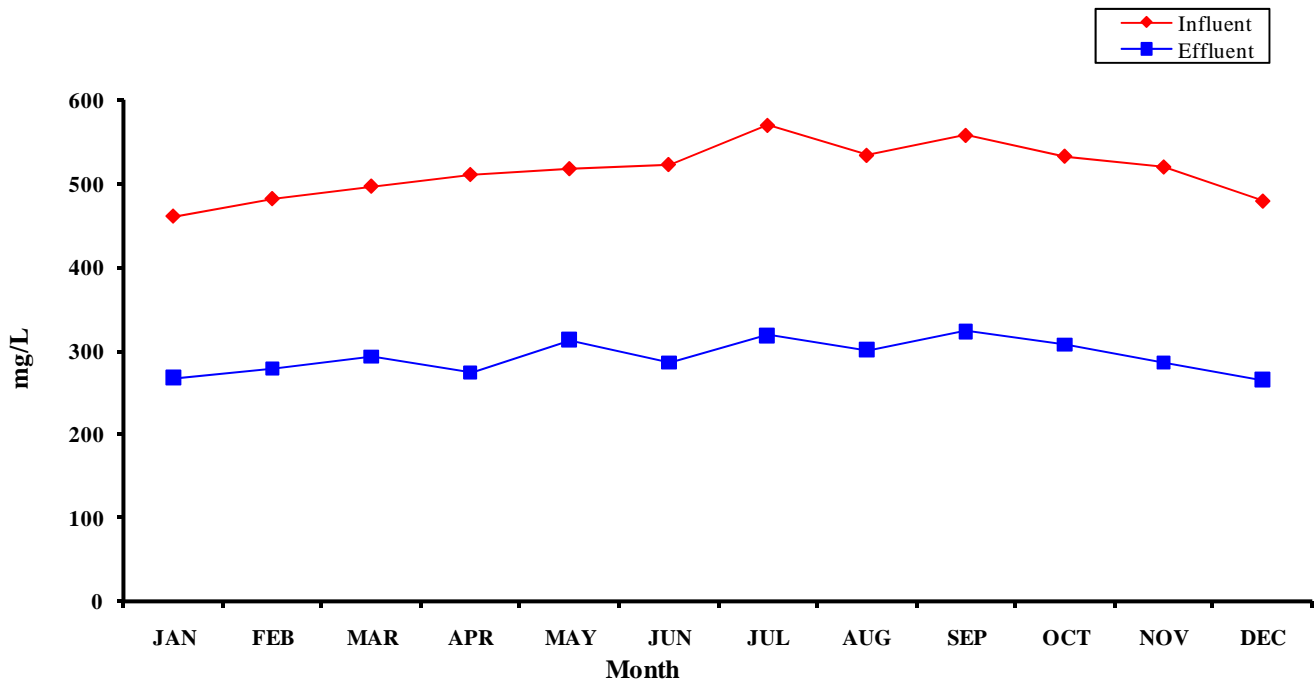
### Total Dissolved Solids (mg/L) 2008 Monthly Averages



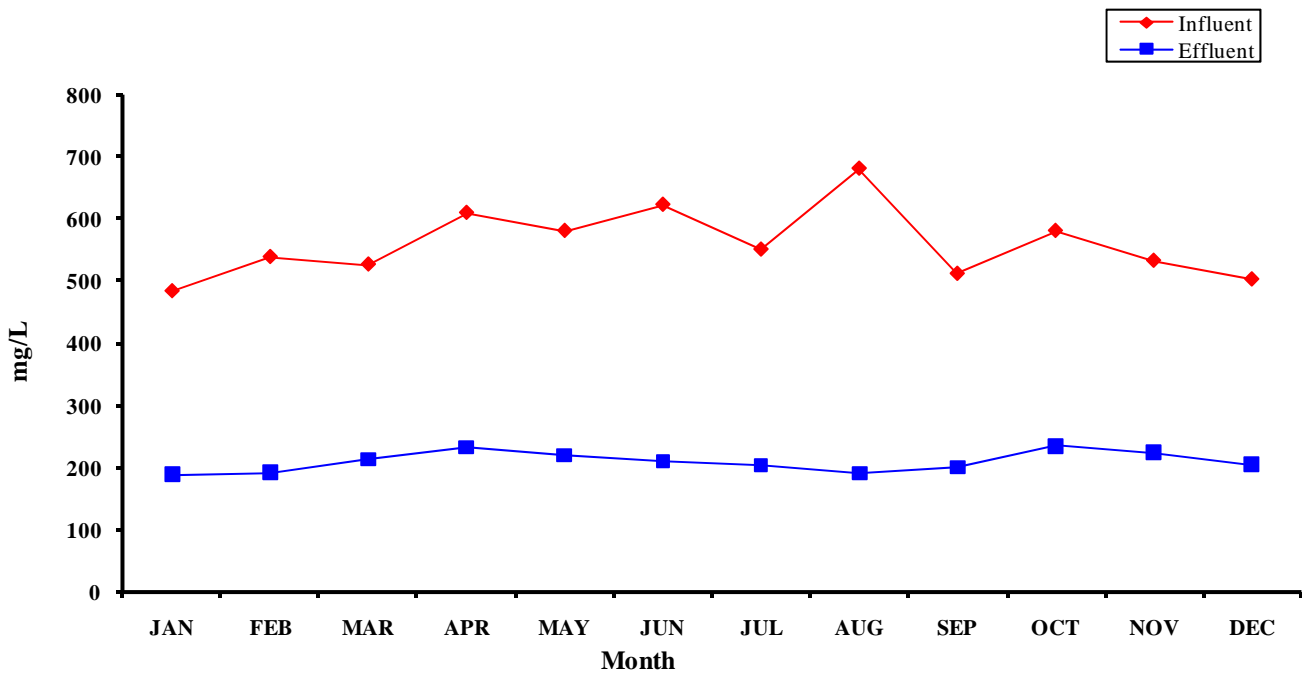
### Total Solids (mg/L) 2008 Monthly Averages



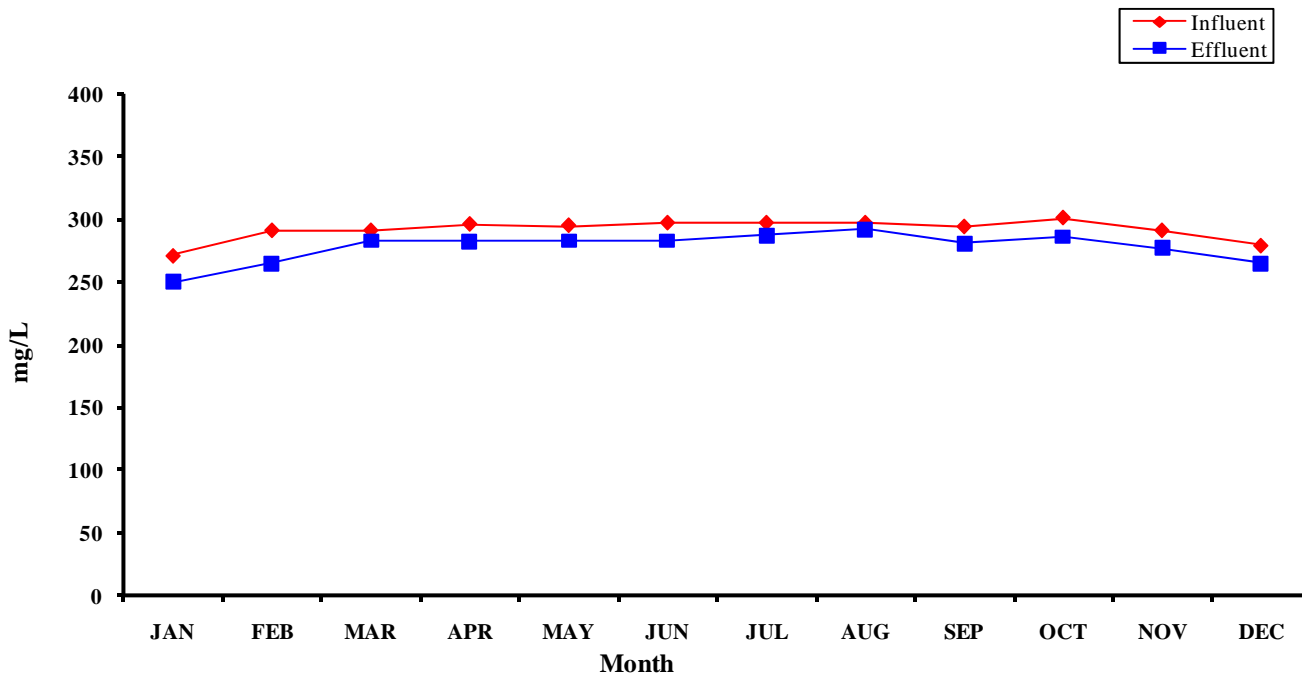
### Total Volatile Solids (mg/L) 2008 Monthly Averages



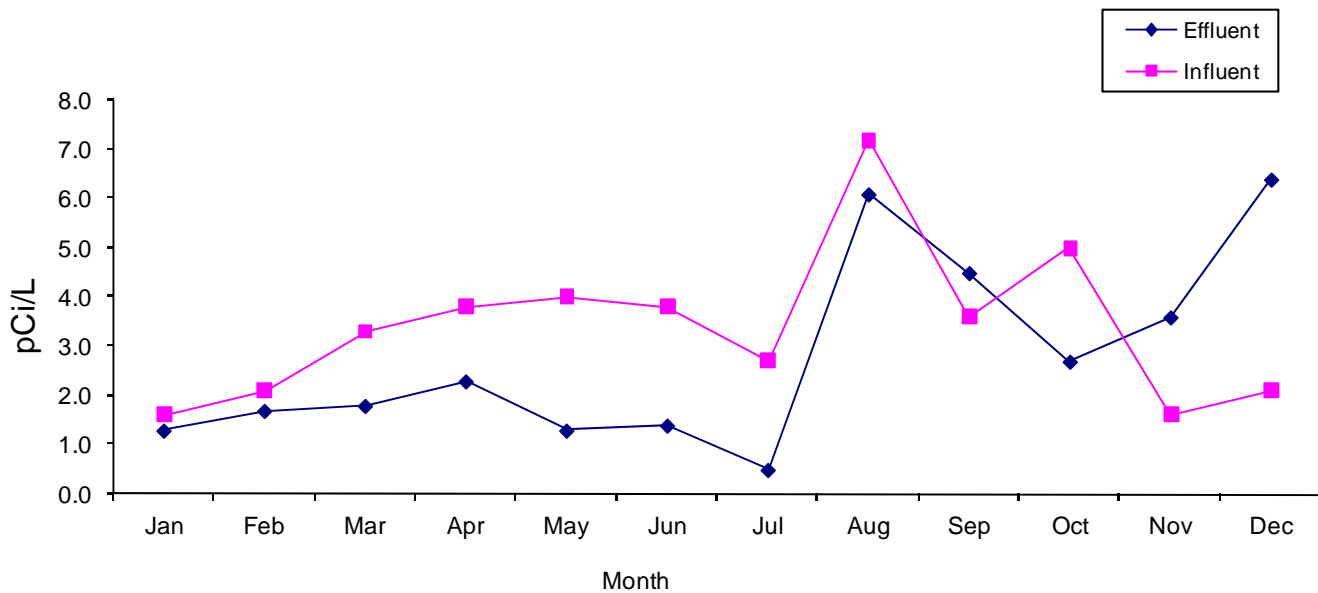
### Chemical Oxygen Demand (mg/L) 2008 Monthly Averages



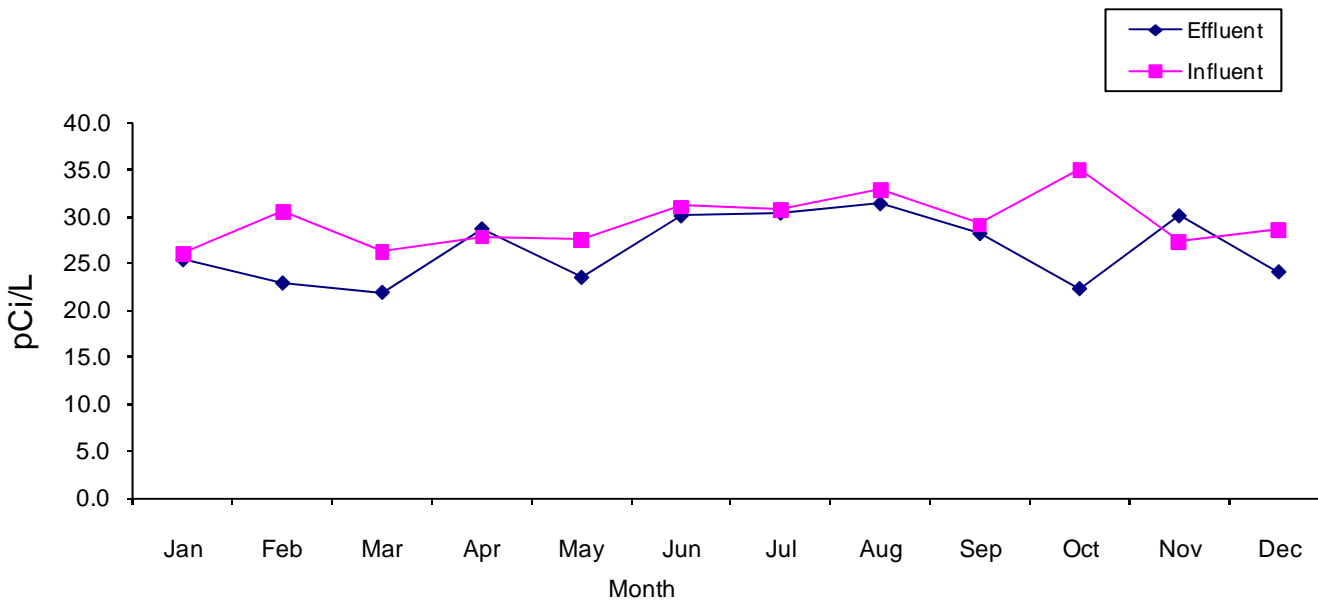
### Alkalinity (mg/L) 2008 Monthly Averages



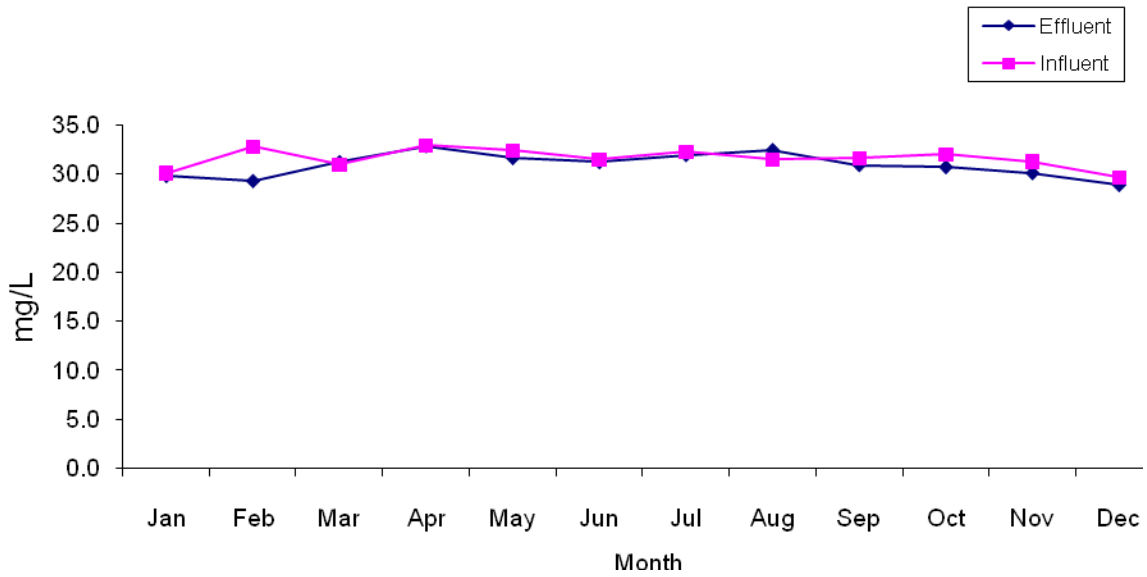
**Point Loma Wastewater Treatment Plant  
2008 Monthly Averages - Alpha Radiation**



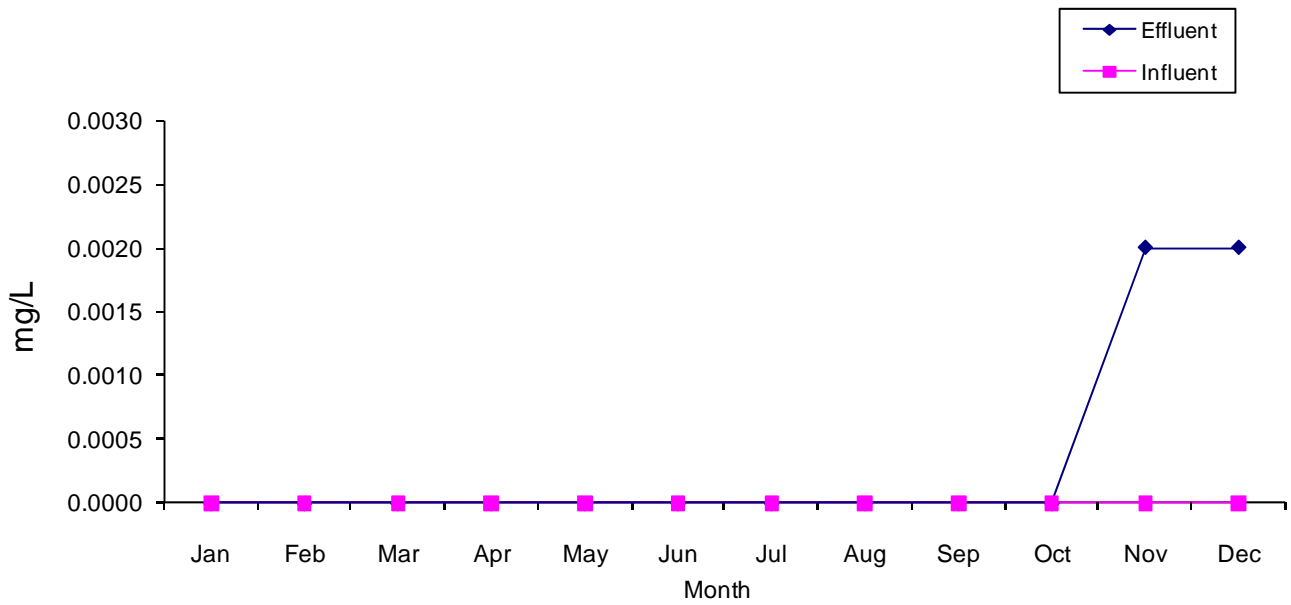
**Point Loma Wastewater Treatment Plant  
2008 Monthly Averages - Beta Radiation**



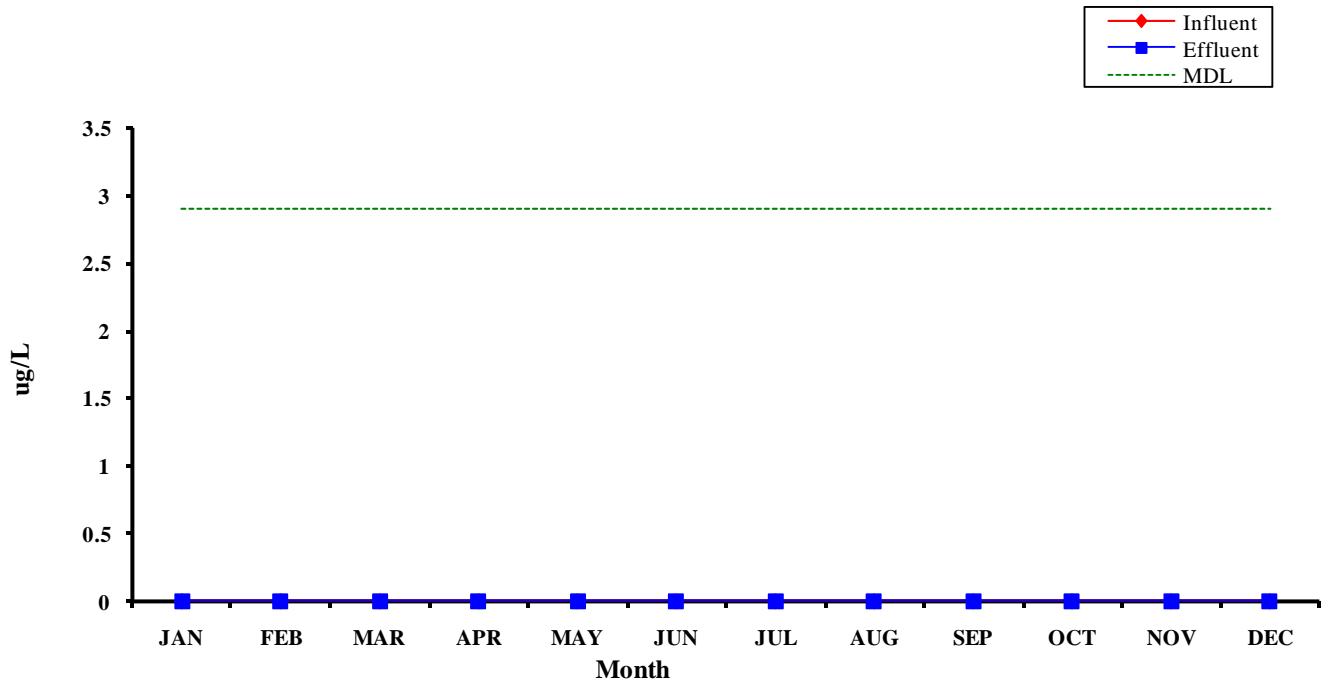
**Point Loma Wastewater Treatment Plant  
2008 Monthly Averages - Ammonia-N**



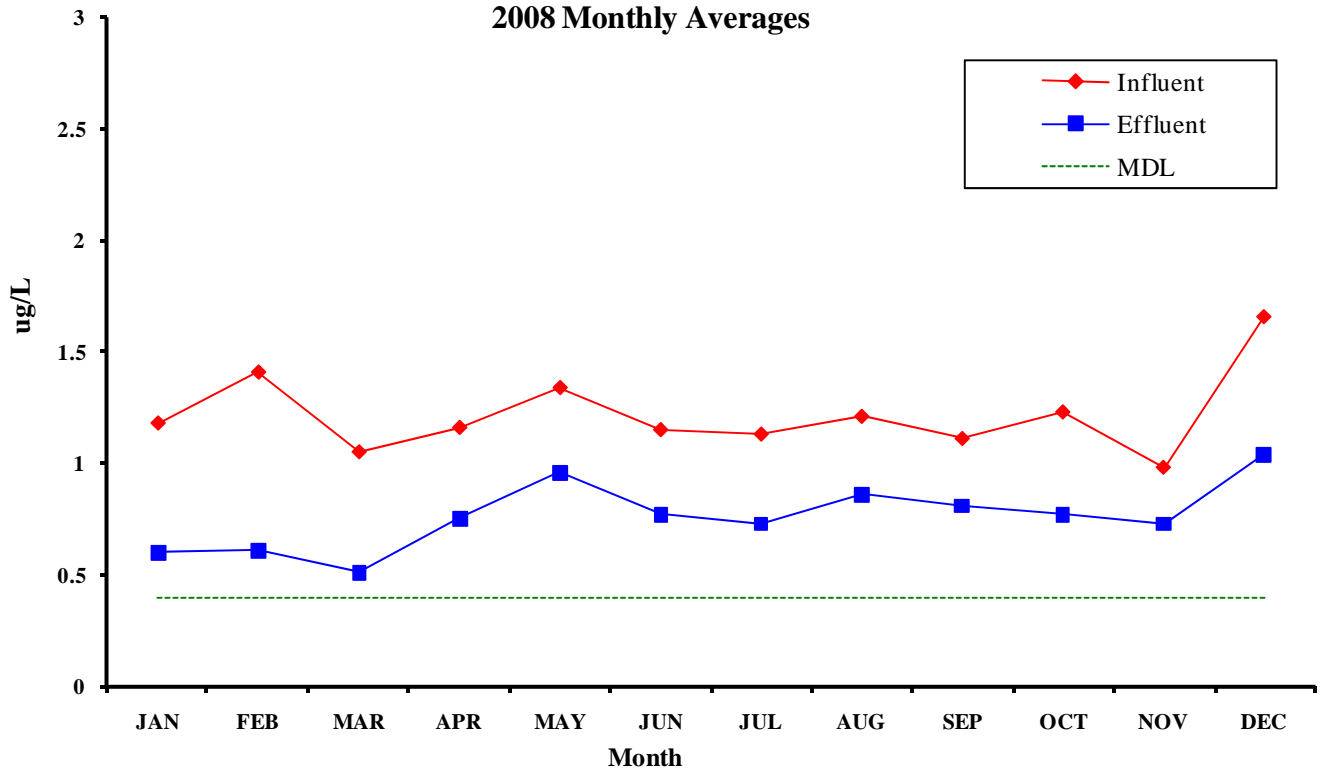
**Point Loma Wastewater Treatment Plant  
2008 Monthly Averages - Total Cyanides**



### Antimony 2008 Monthly Averages

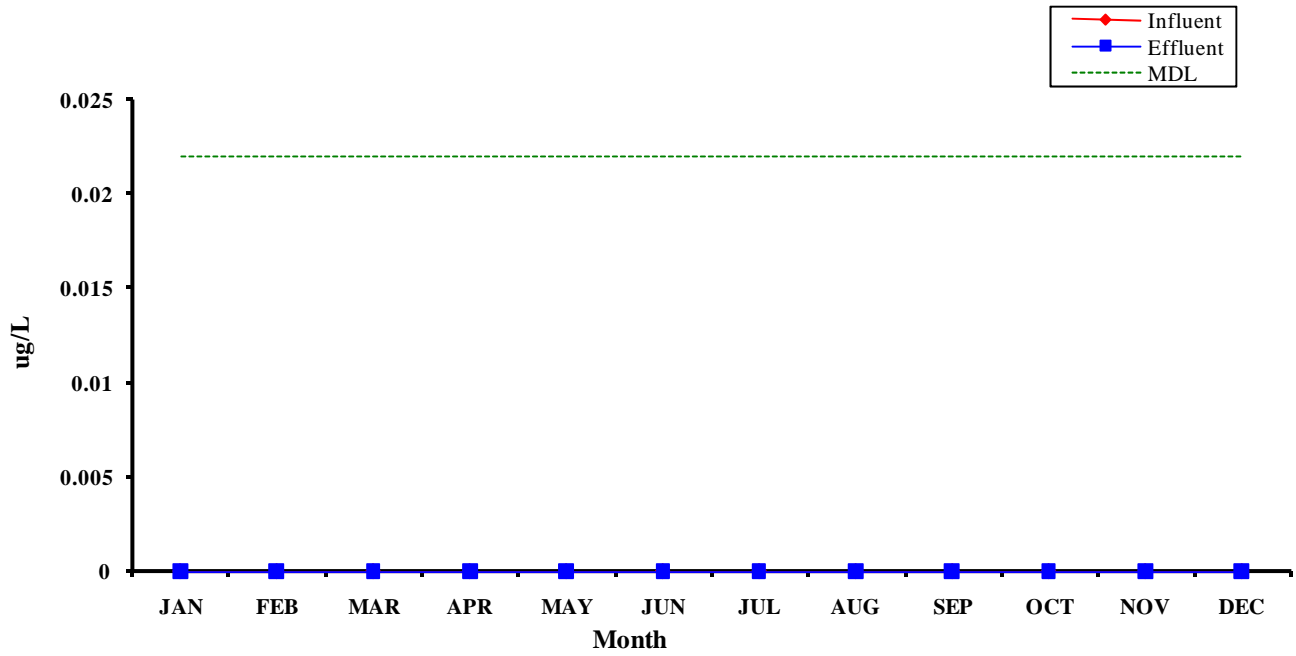


### Arsenic 2008 Monthly Averages

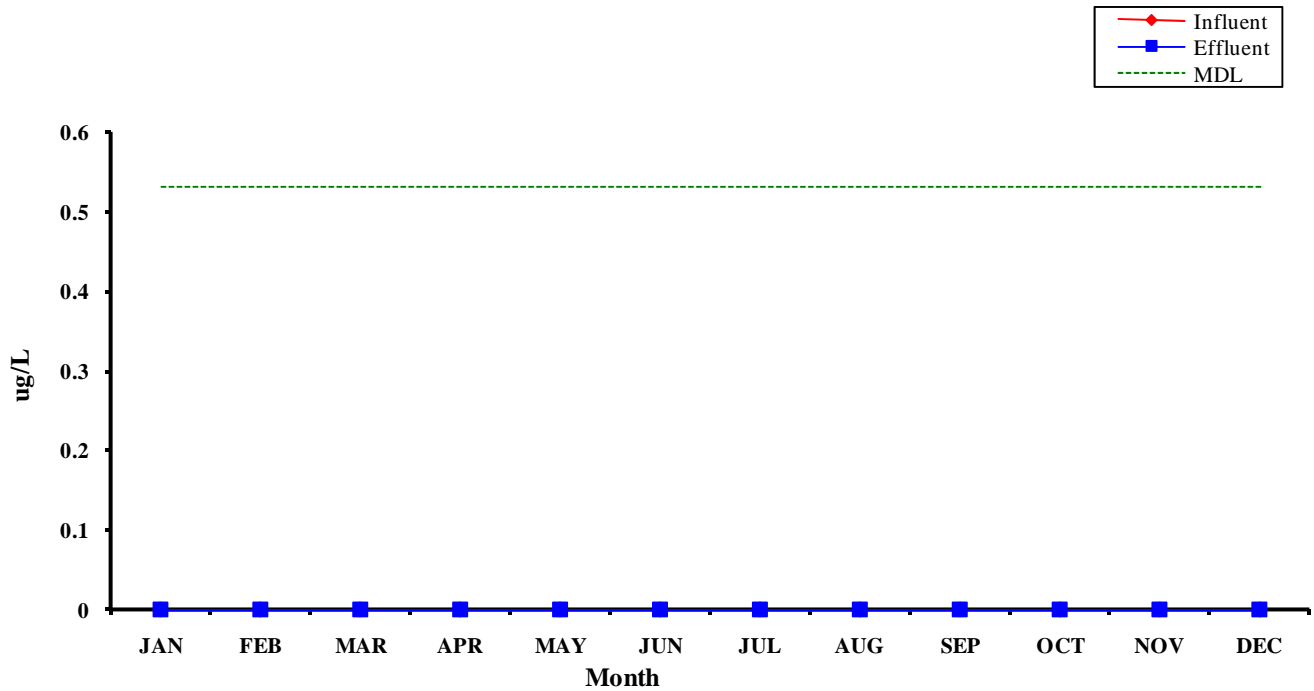




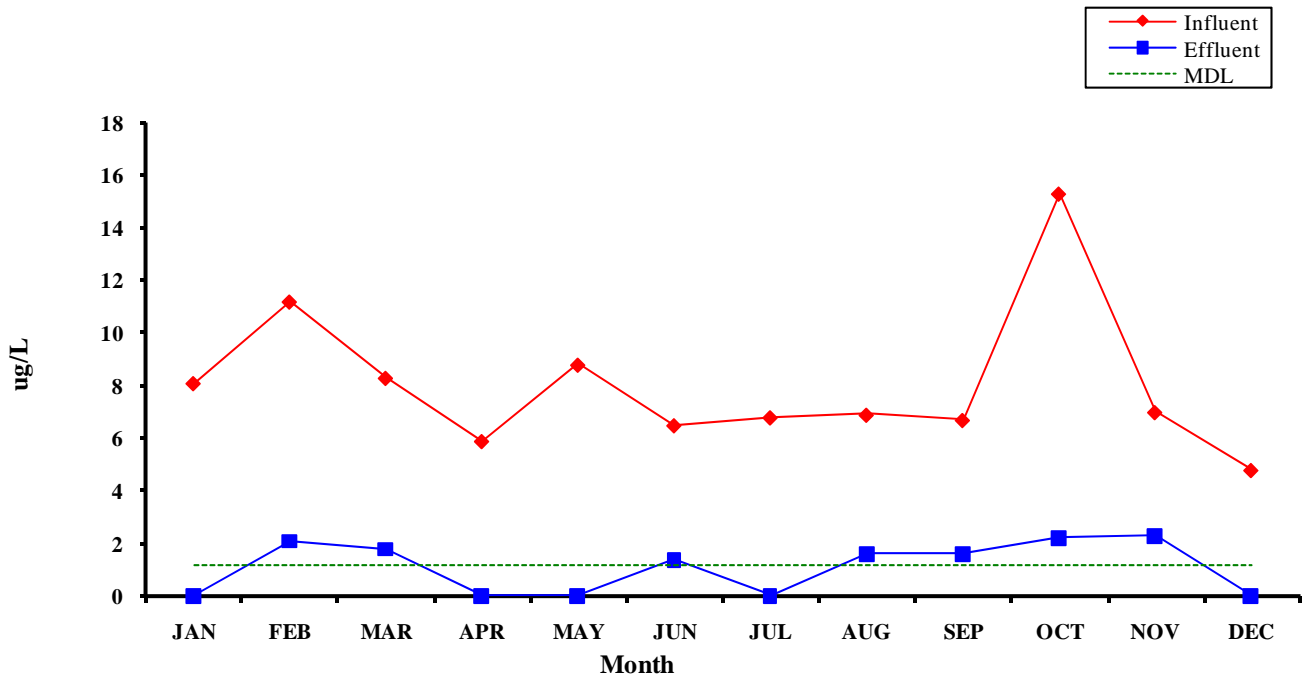
### Beryllium 2008 Monthly Averages



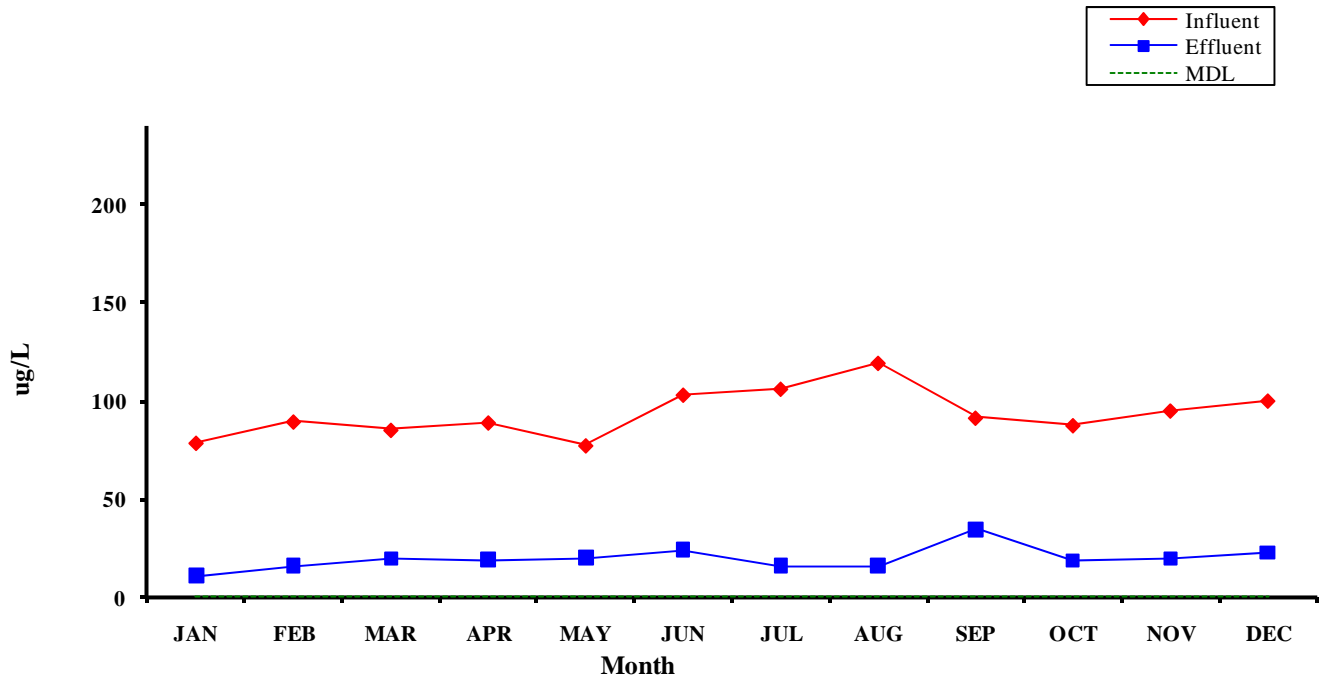
### Cadmium 2008 Monthly Averages



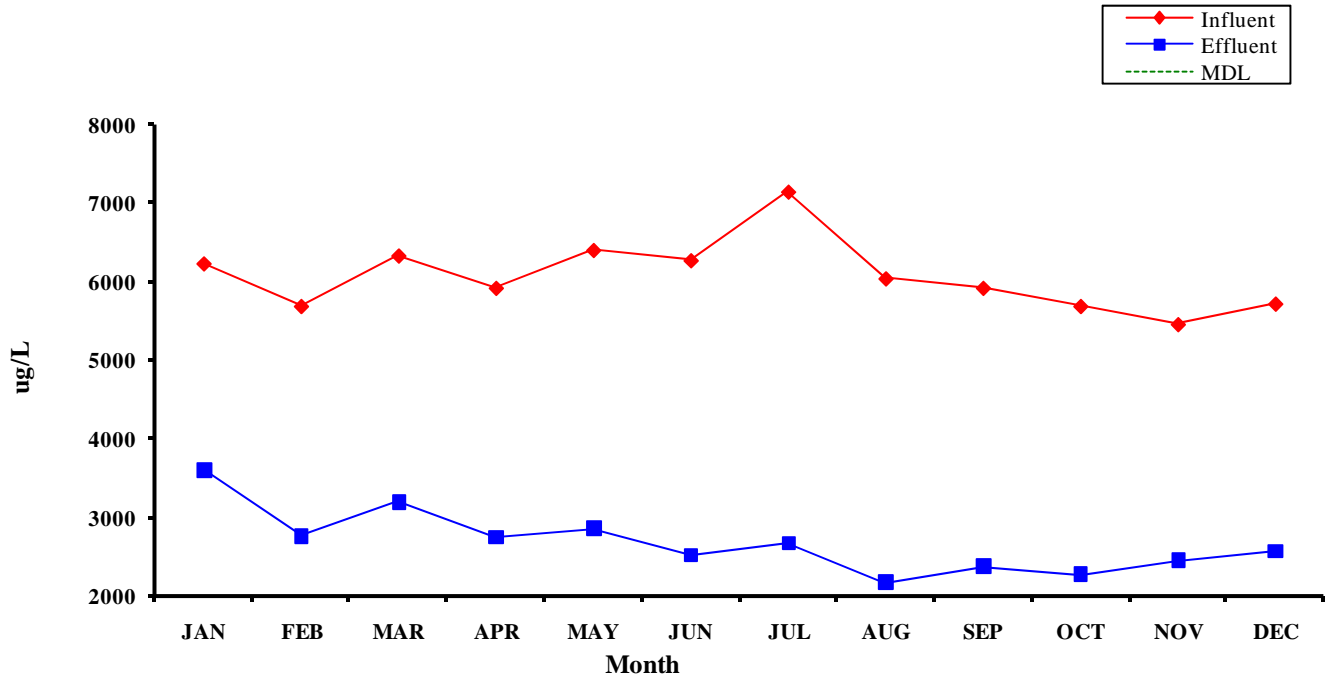
### Chromium 2008 Monthly Averages



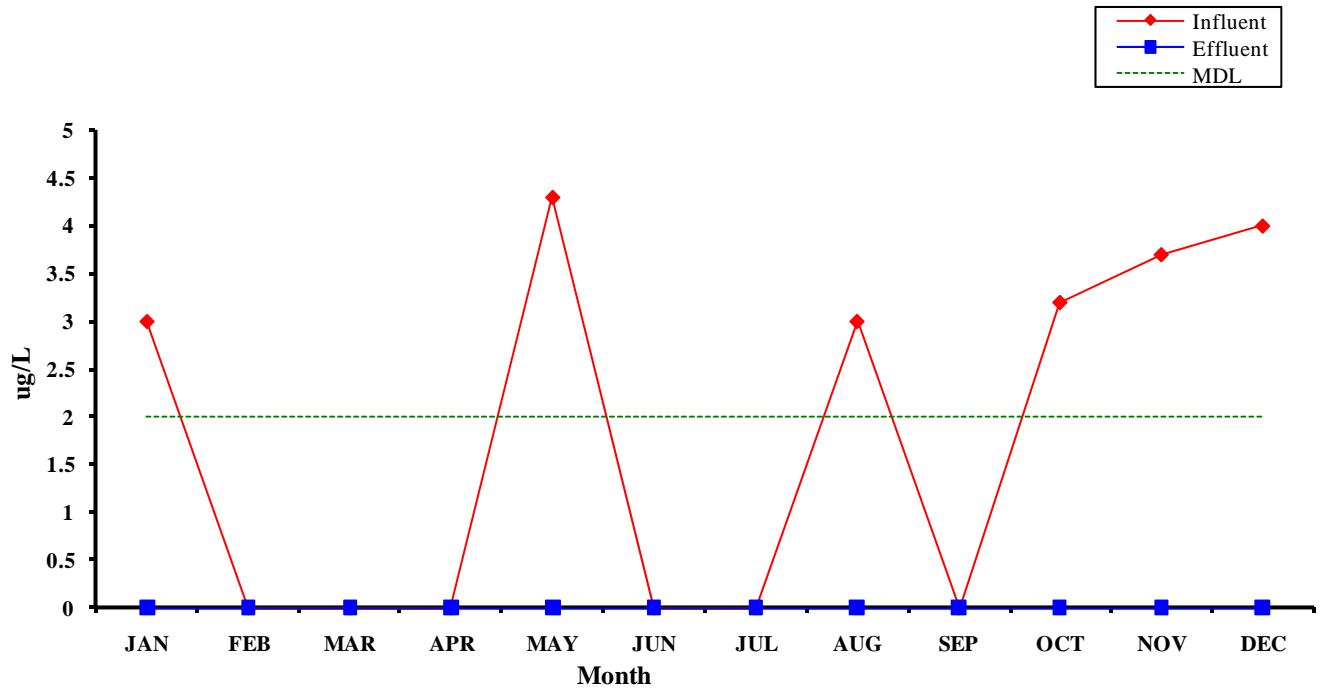
### Copper 2008 Monthly Averages



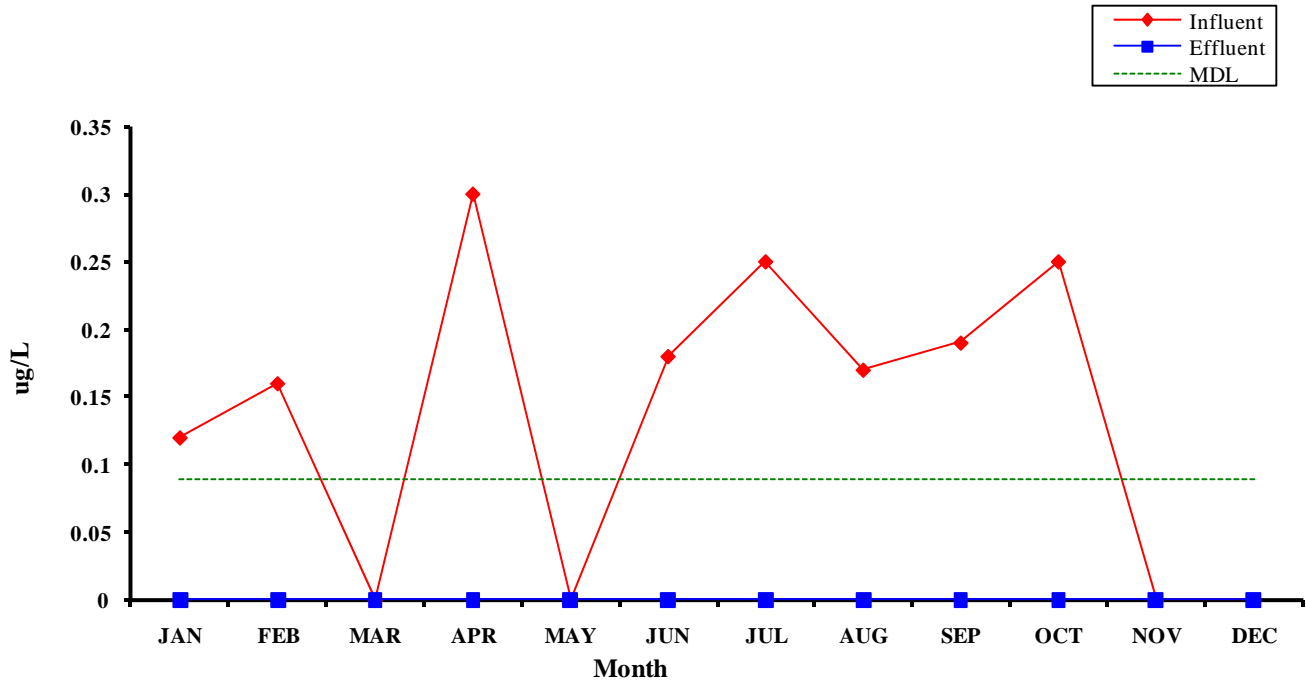
### Iron 2008 Monthly Averages



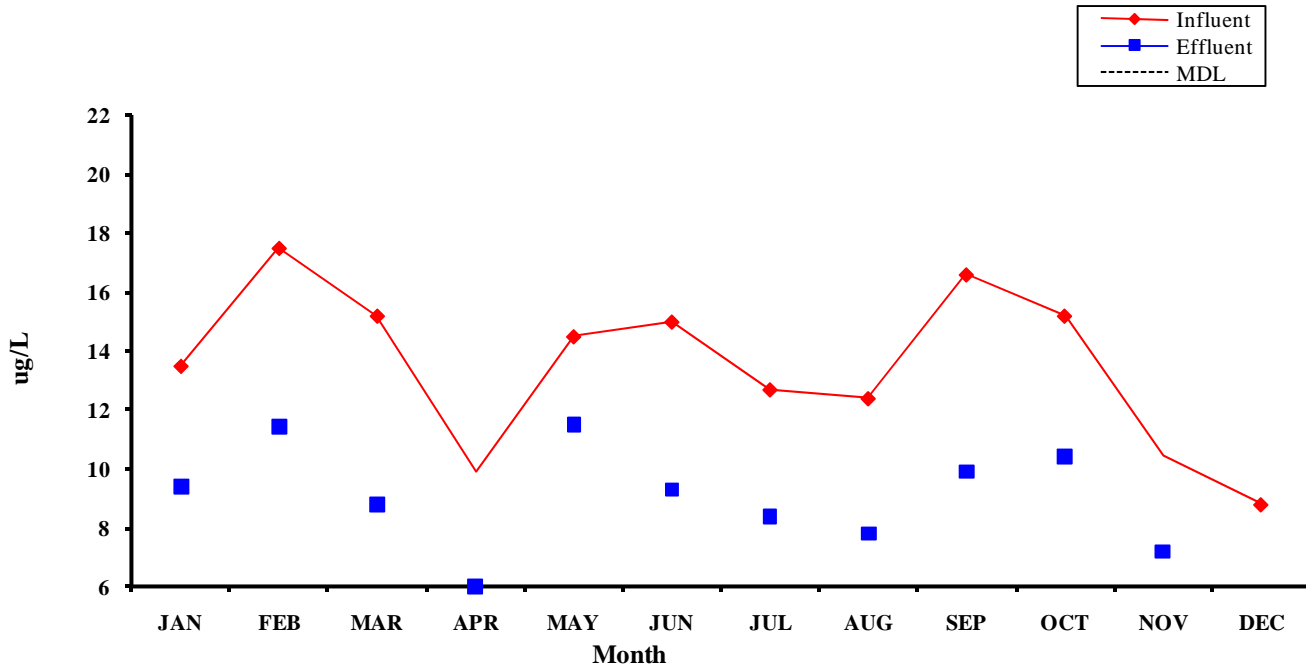
### Lead 2008 Monthly Averages



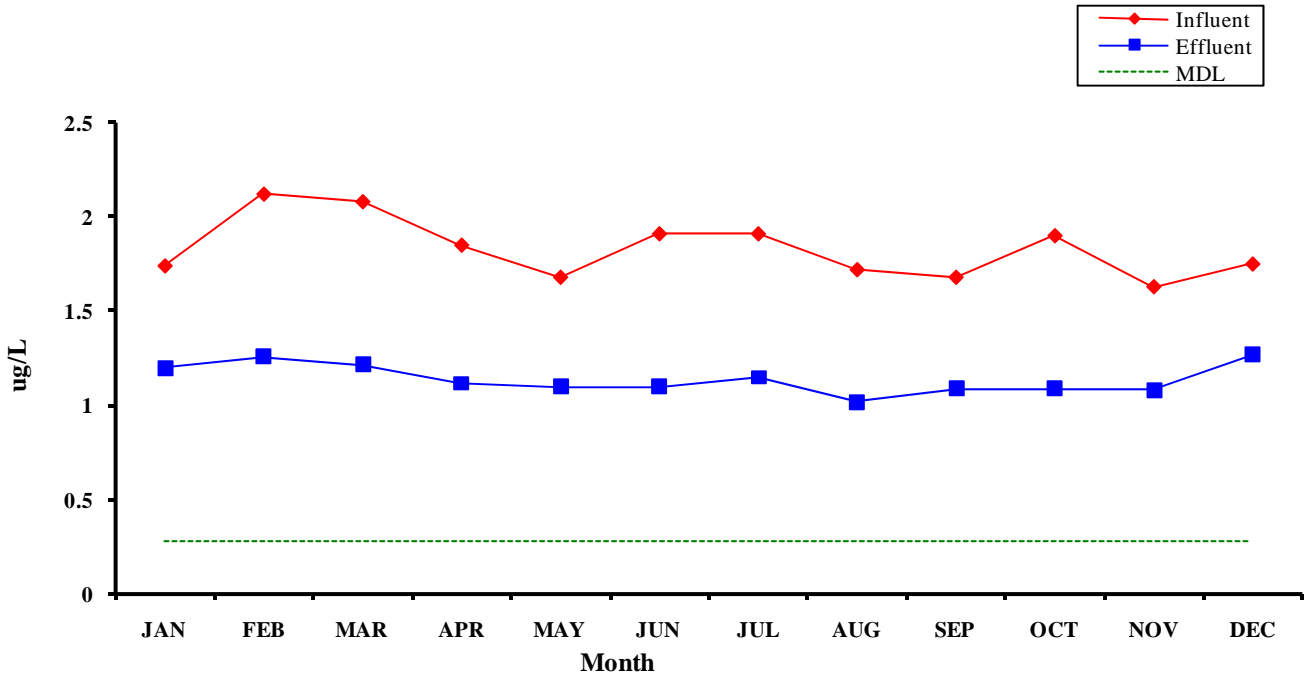
### Mercury 2008 Monthly Averages



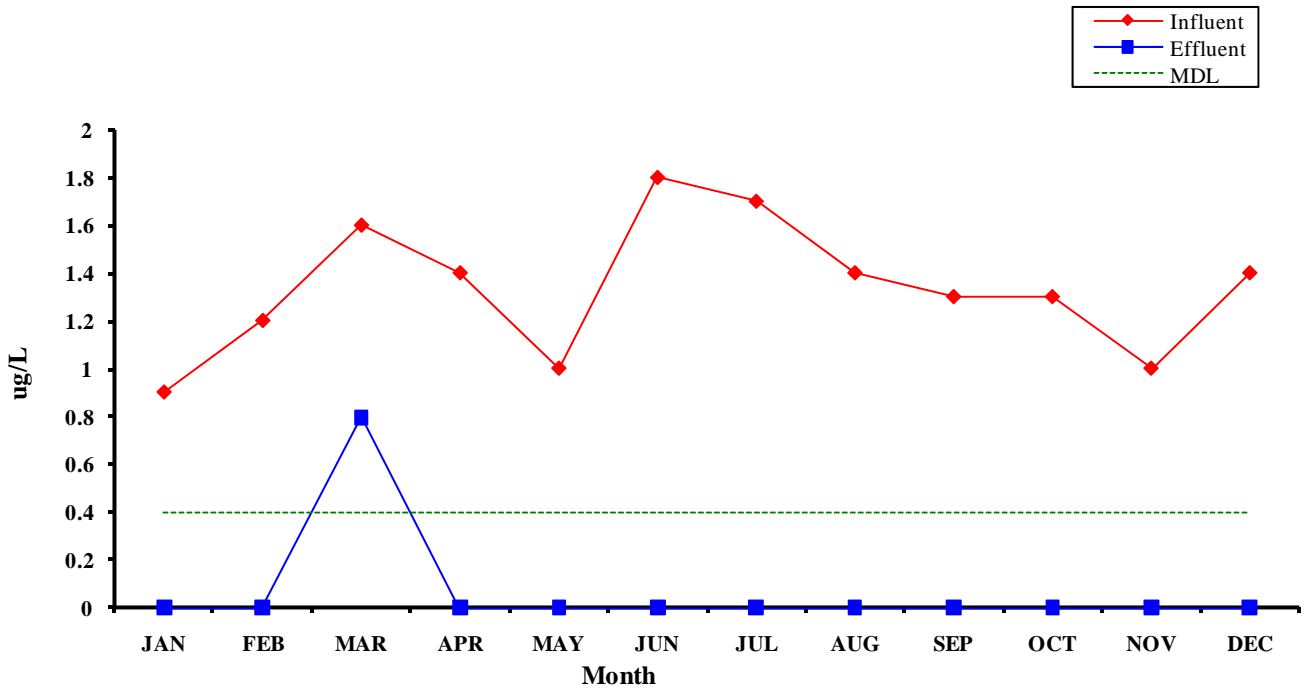
### Nickel 2008 Monthly Averages



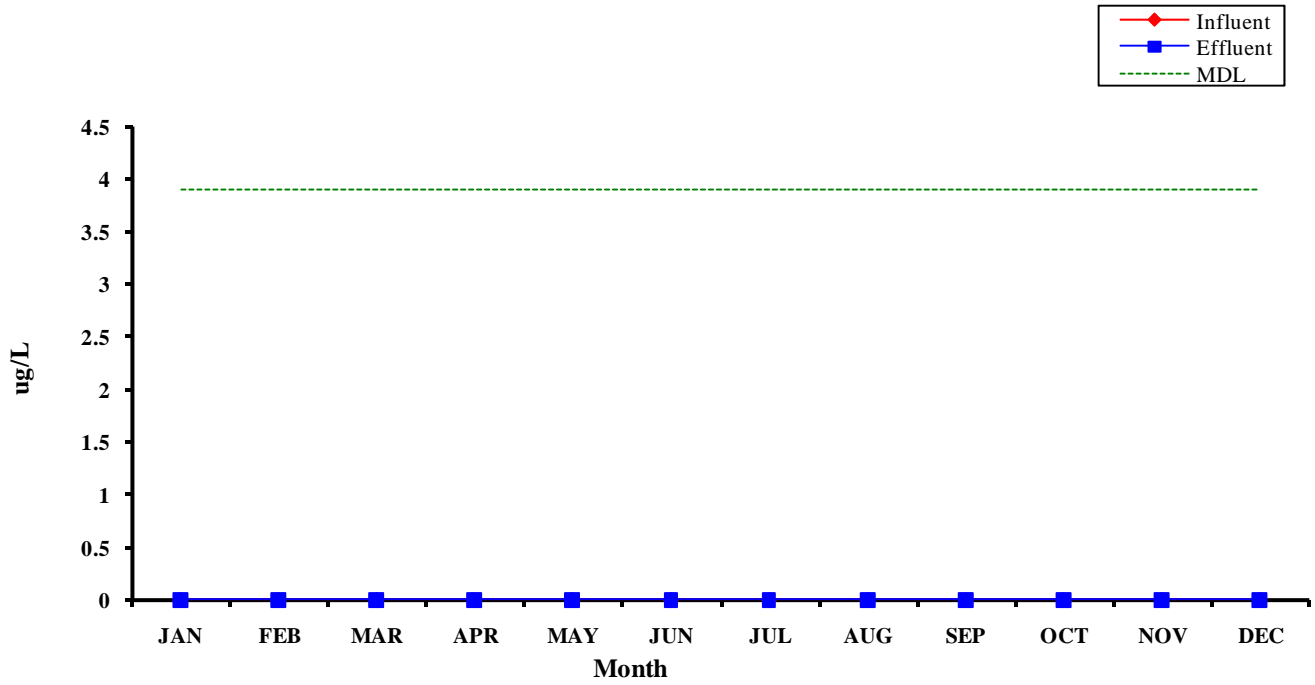
### Selenium 2008 Monthly Averages



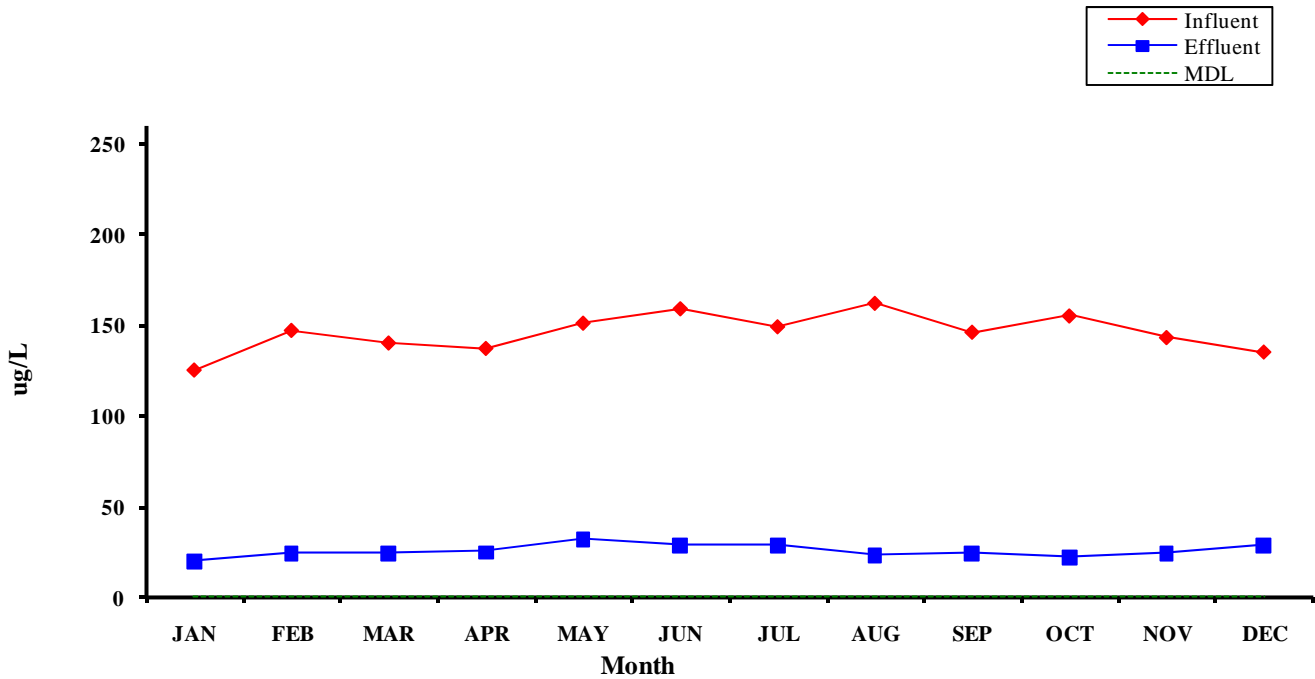
### Silver 2008 Monthly Averages



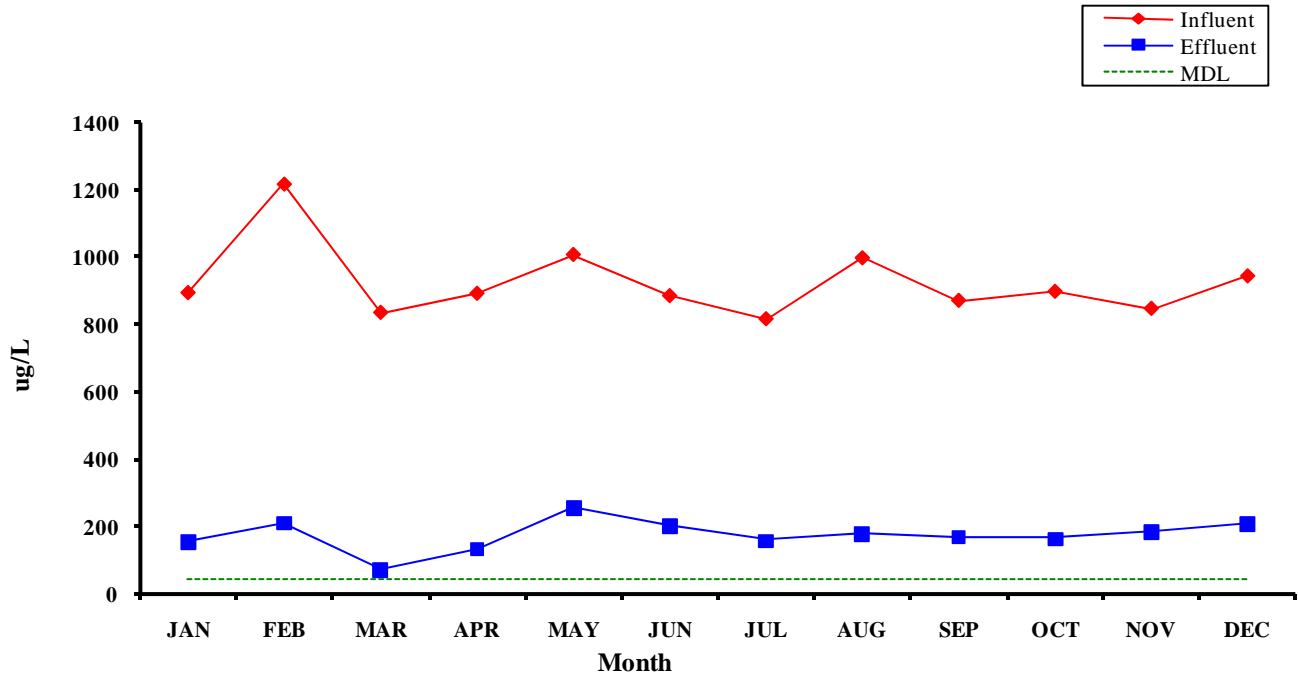
### Thallium 2008 Monthly Averages



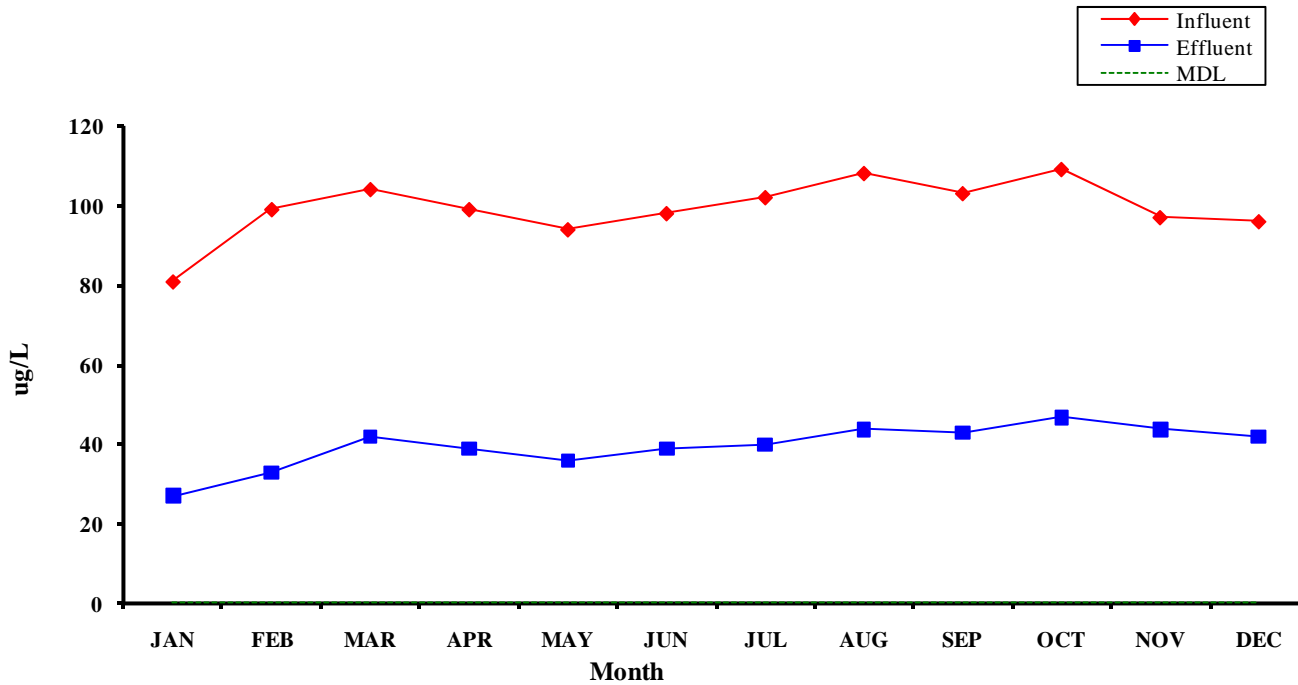
### Zinc 2008 Monthly Averages



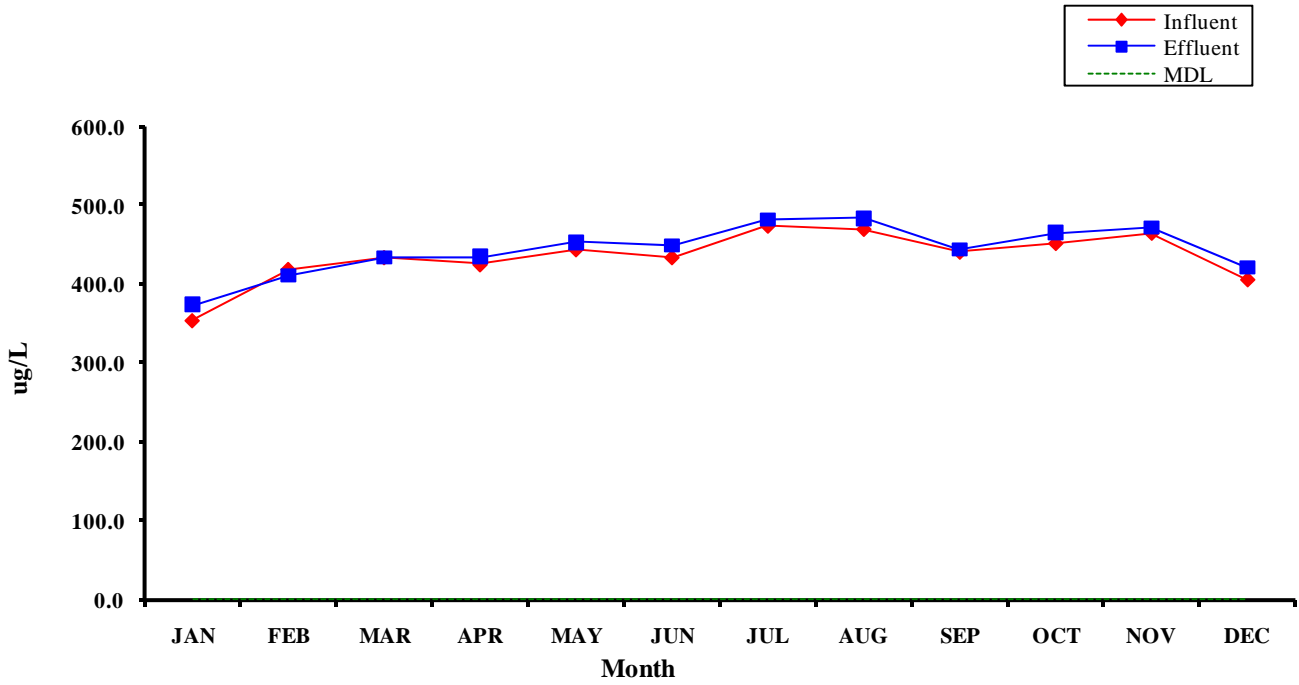
### Aluminum 2008 Monthly Averages



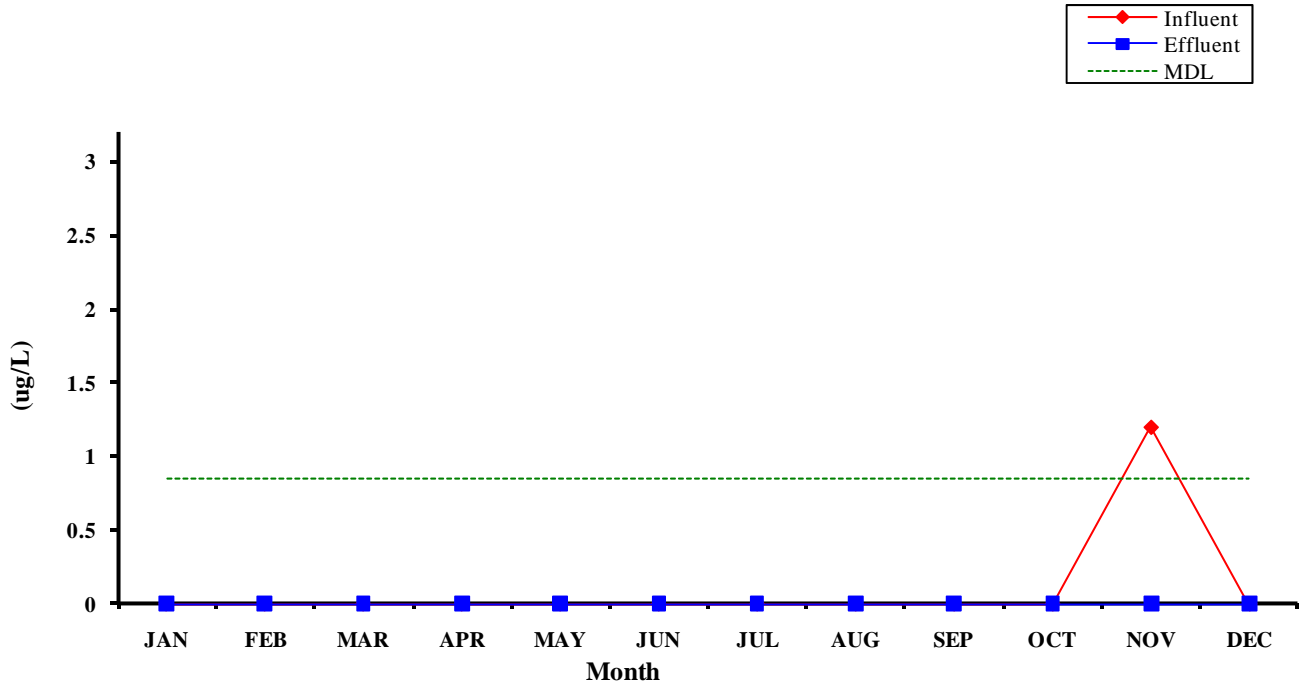
### Barium 2008 Monthly Averages



### Boron 2008 Monthly Averages

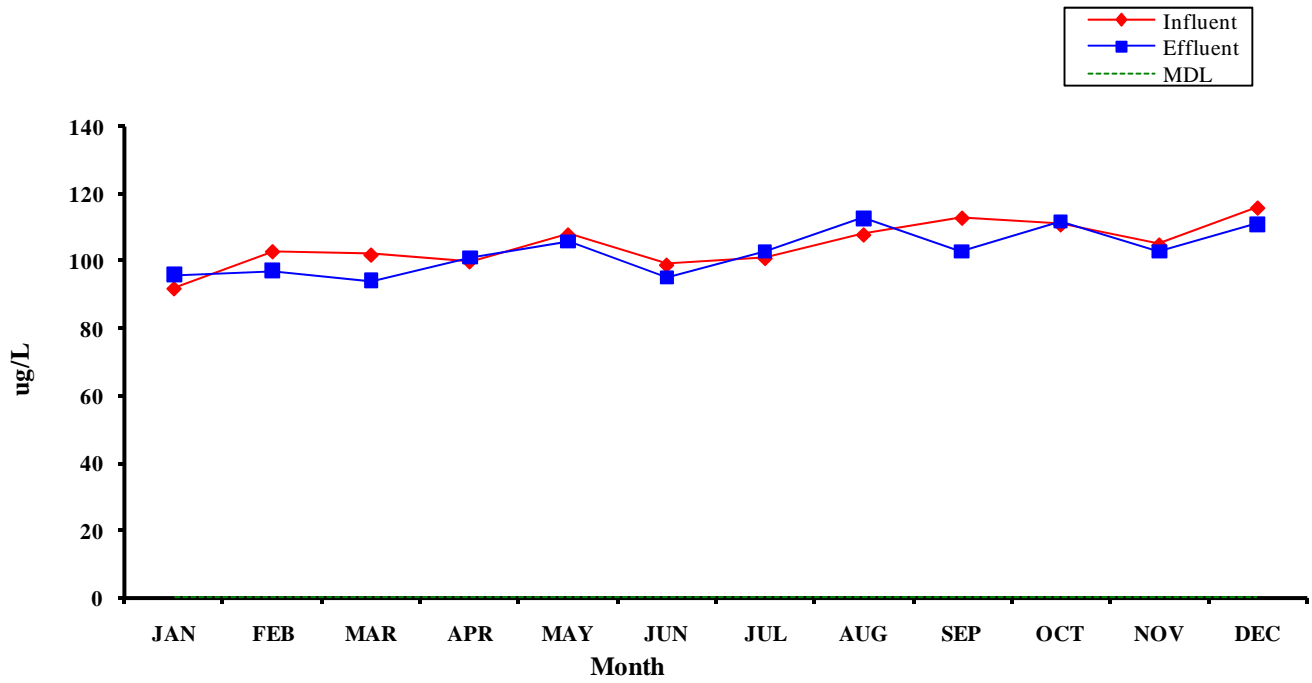


### Colbalt 2008 Monthly Averages

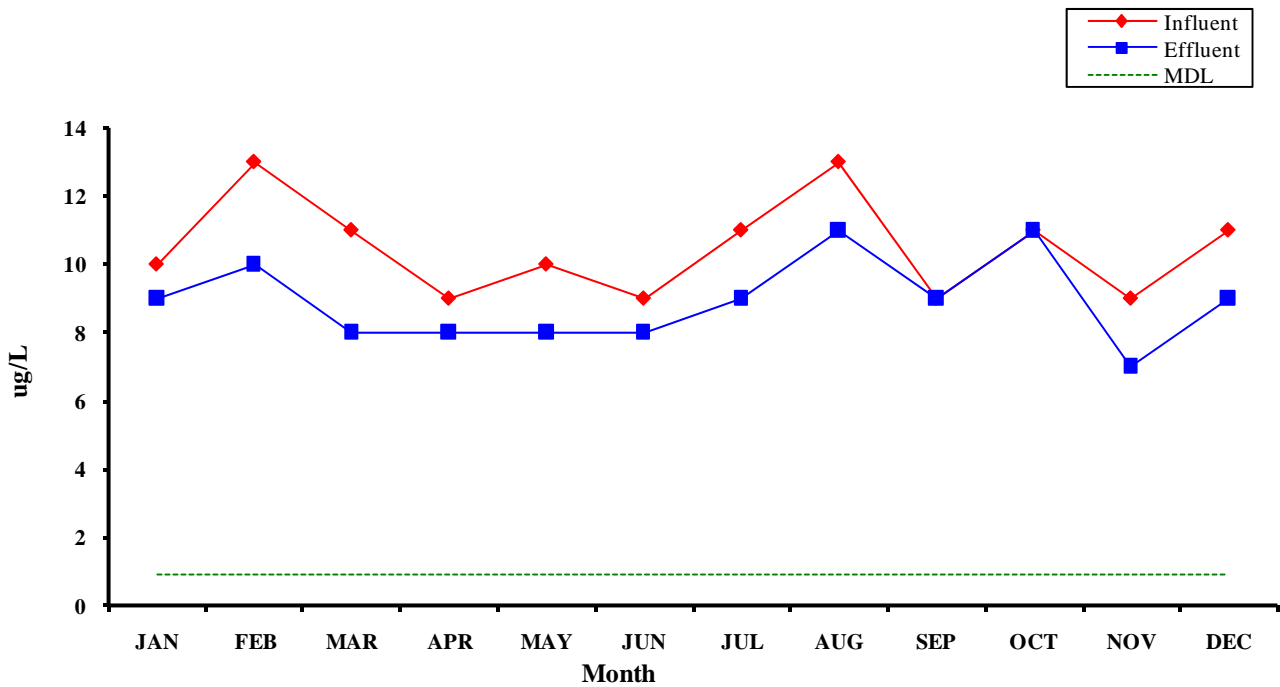




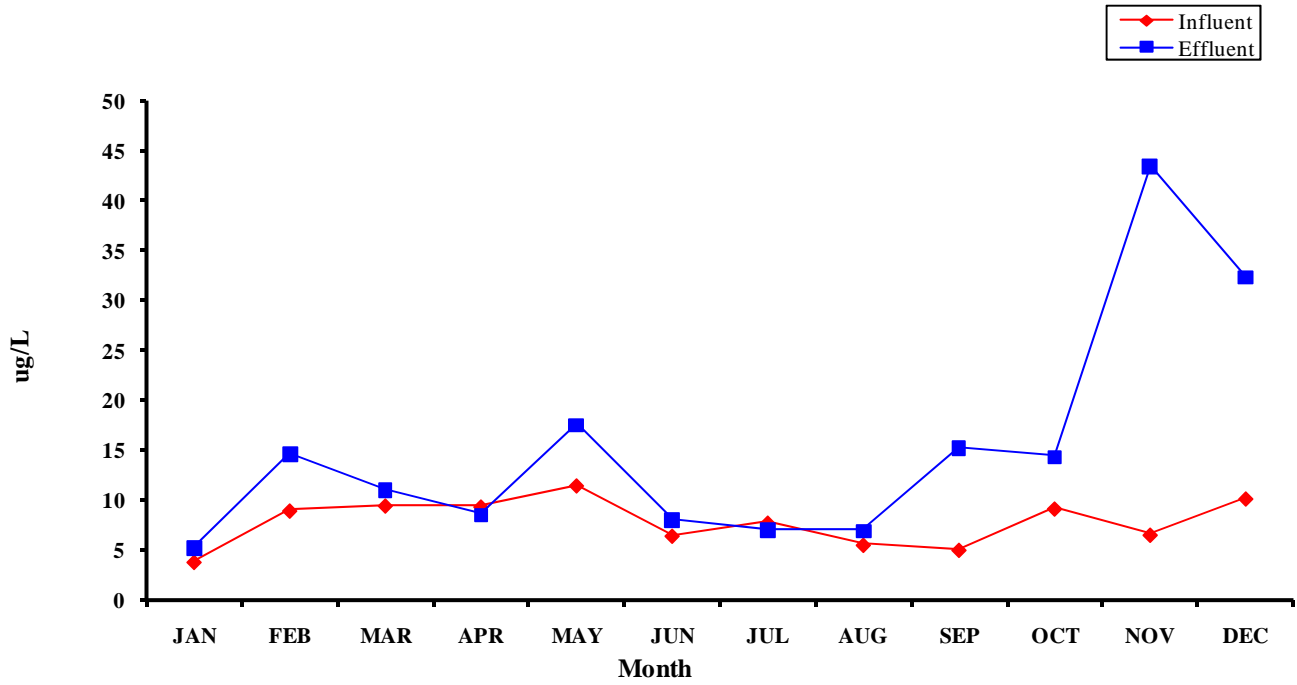
### Manganese 2008 Monthly Averages



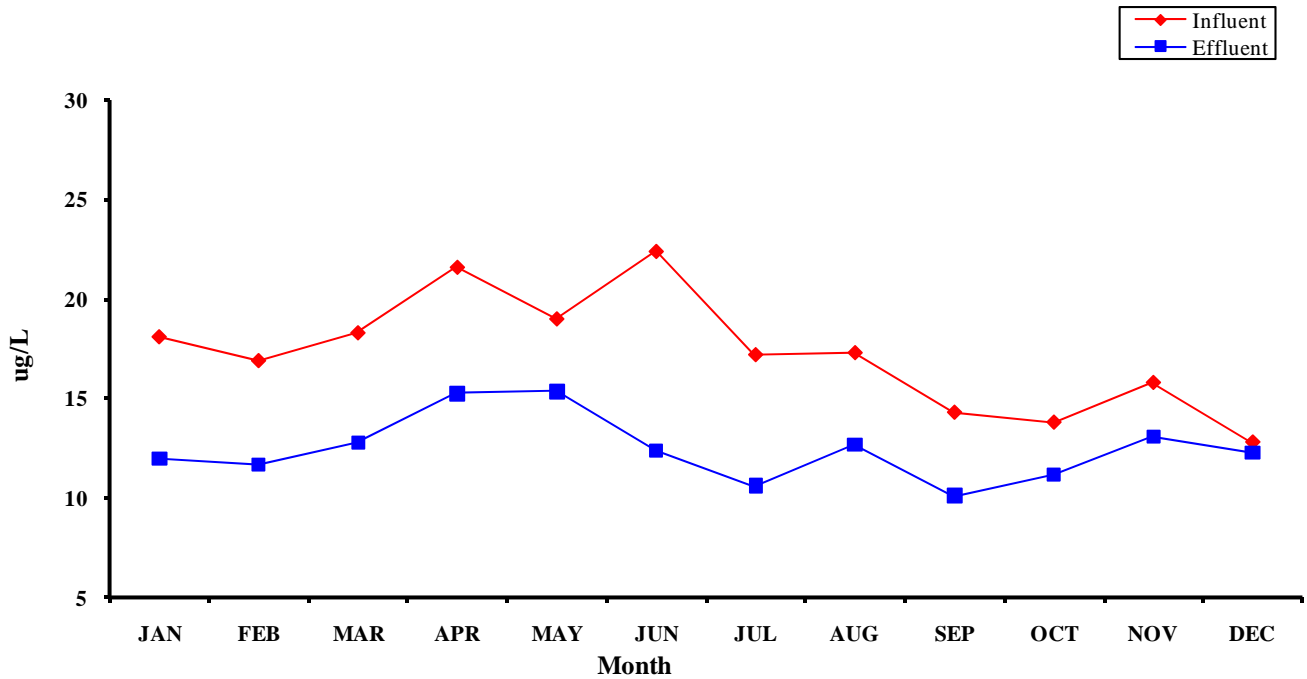
### Molybdeum 2008 Monthly Averages



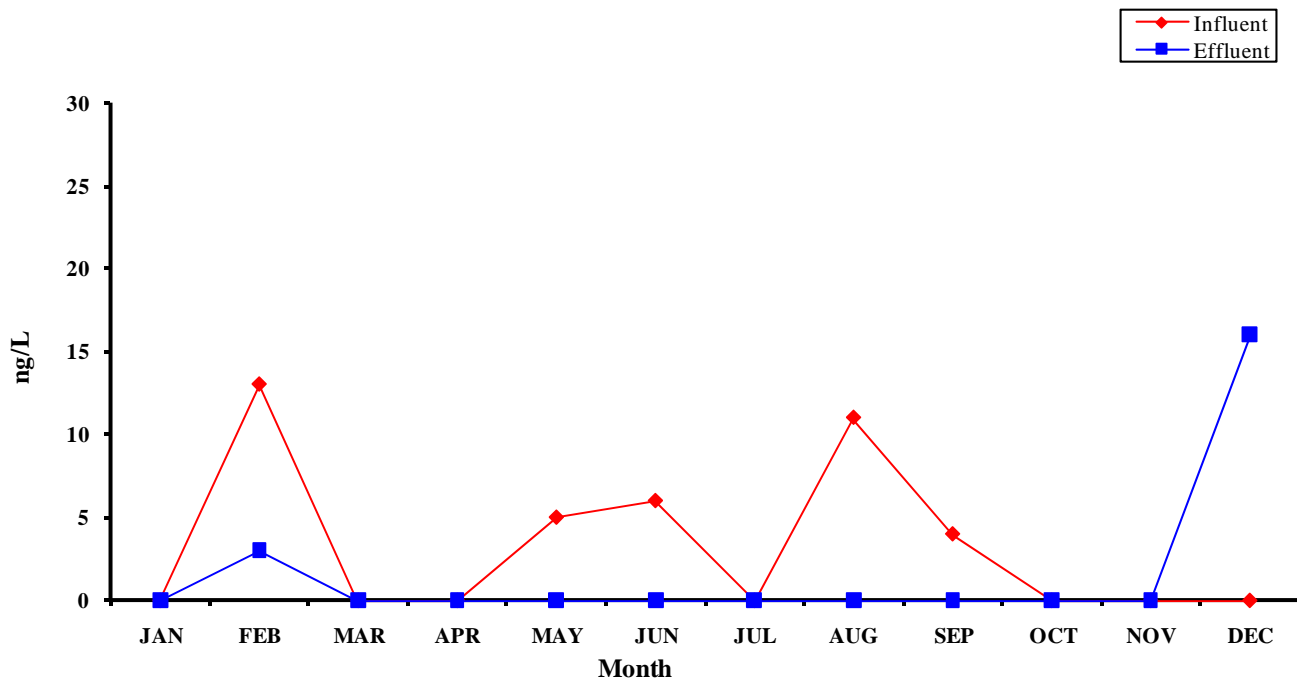
### Purgeables 2008 Monthly Averages



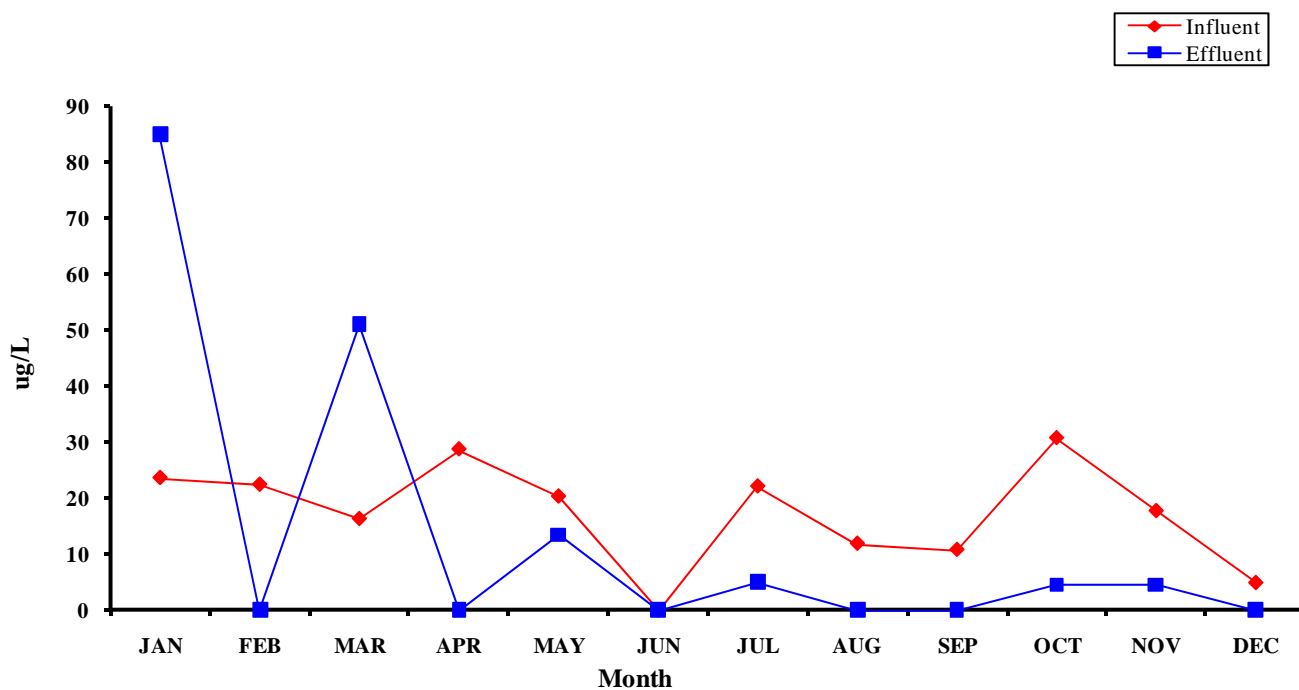
### Phenols 2008 Monthly Averages



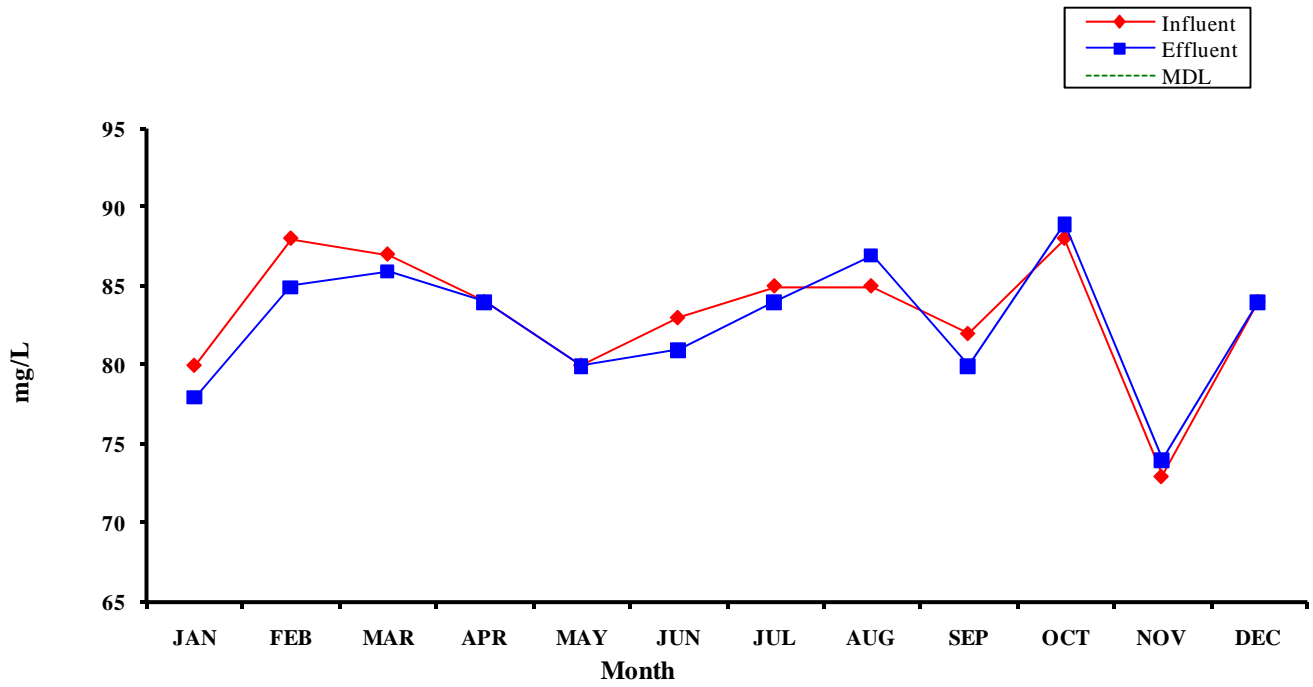
### Total Chlorinated Hydrocarbons 2008 Monthly Averages



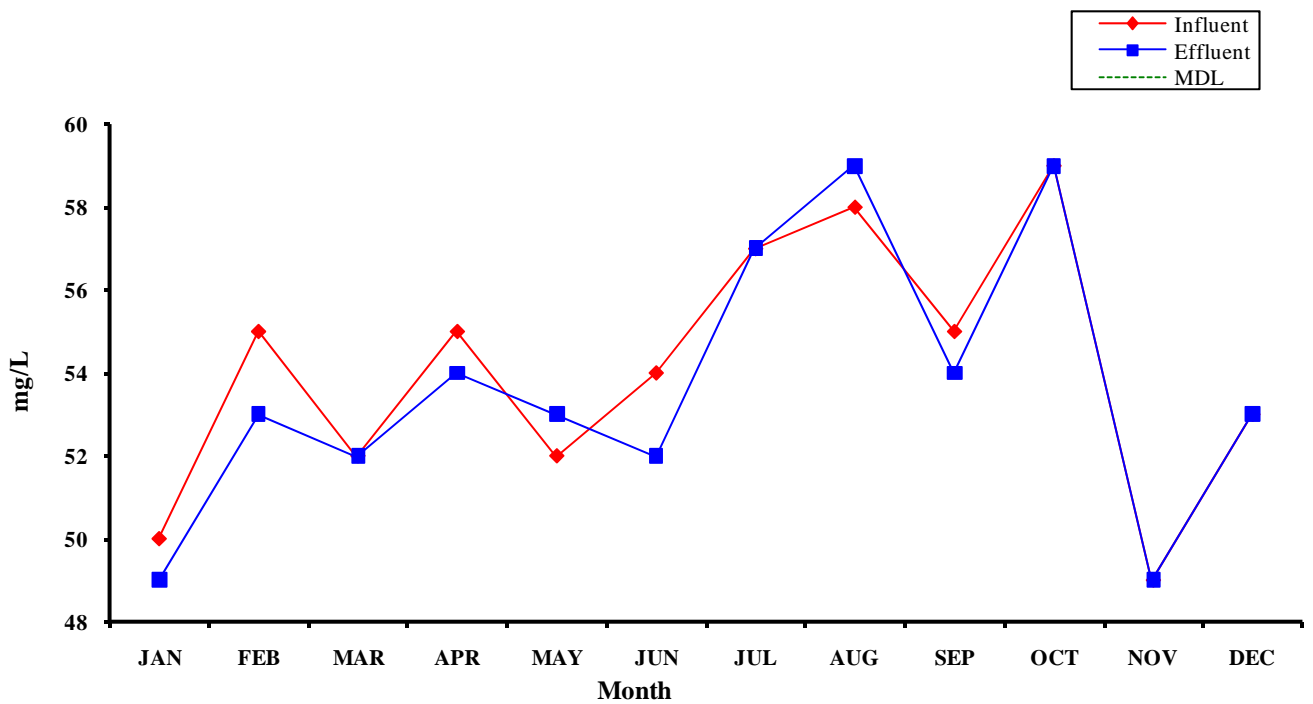
### Base Neutrals 2008 Monthly Averages



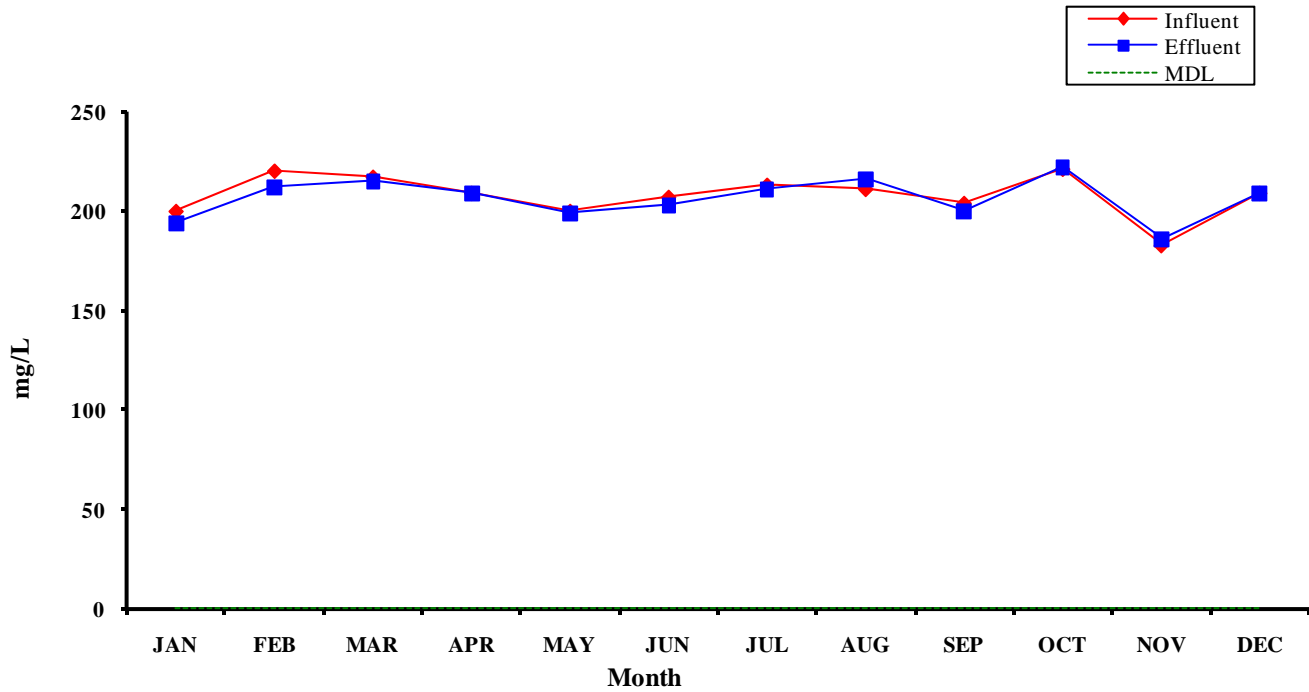
### Calcium 2008 Monthly Averages



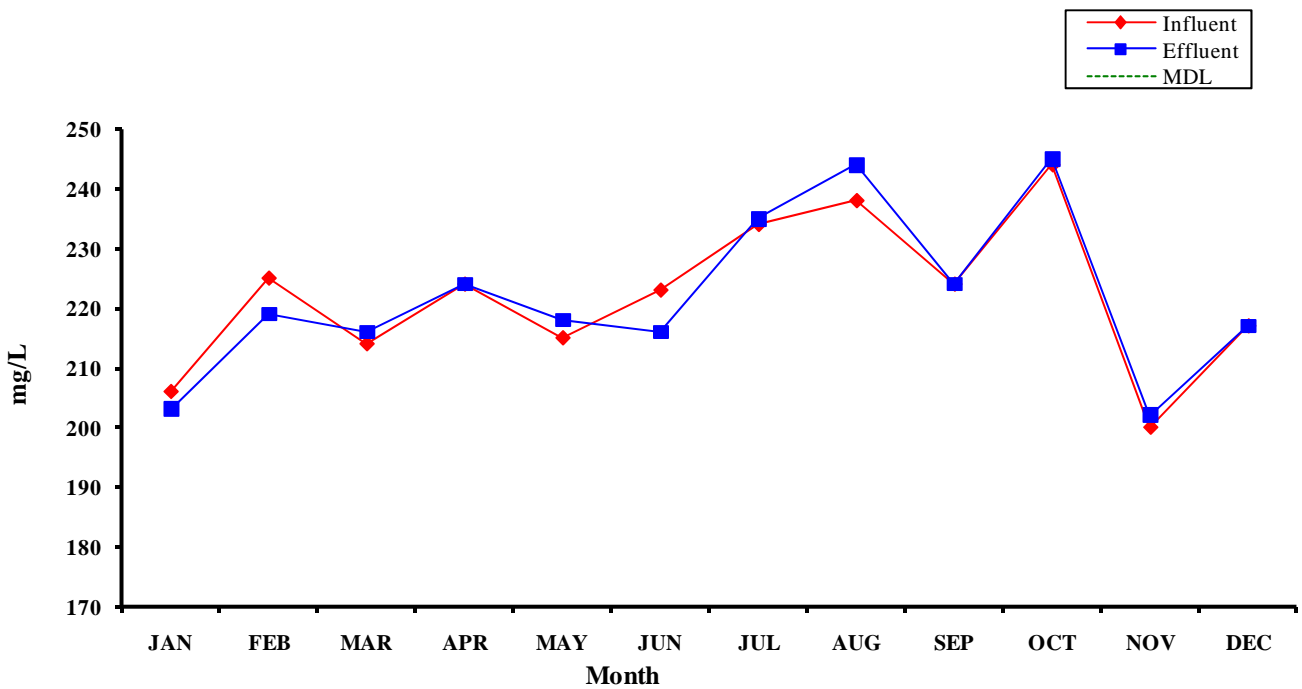
### Magnesium 2008 Monthly Averages



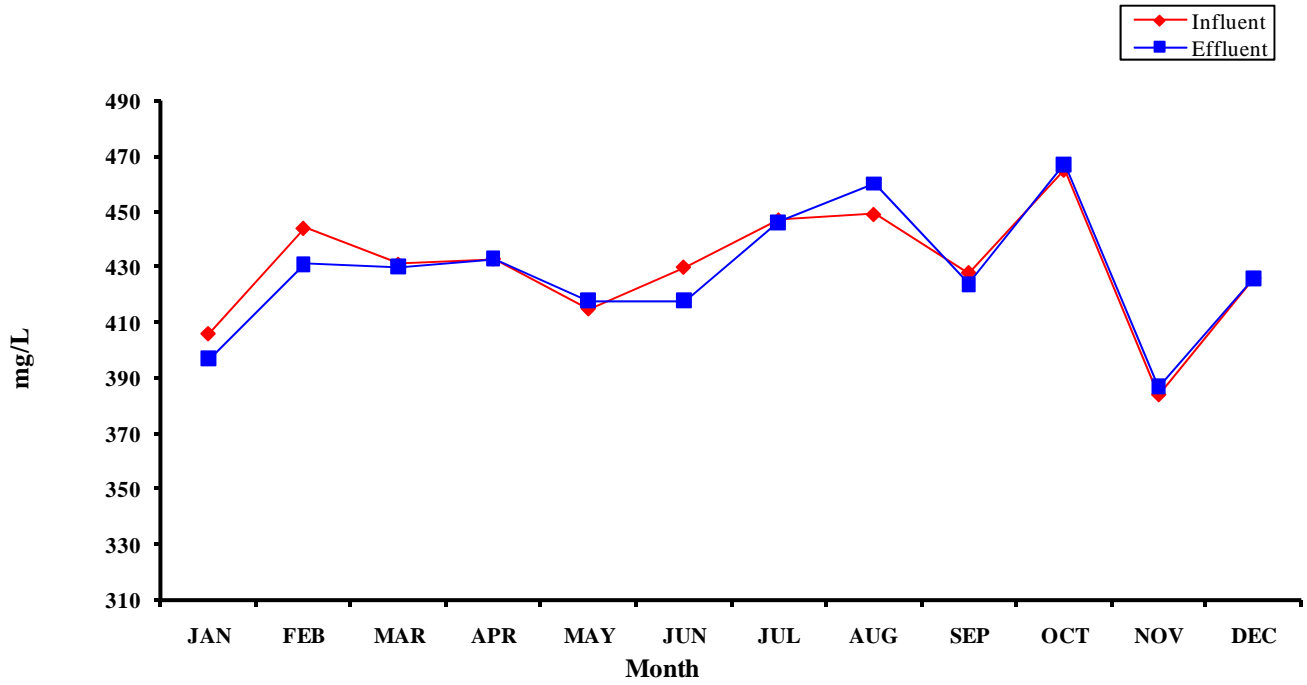
### Calcium Hardness 2008 Monthly Averages



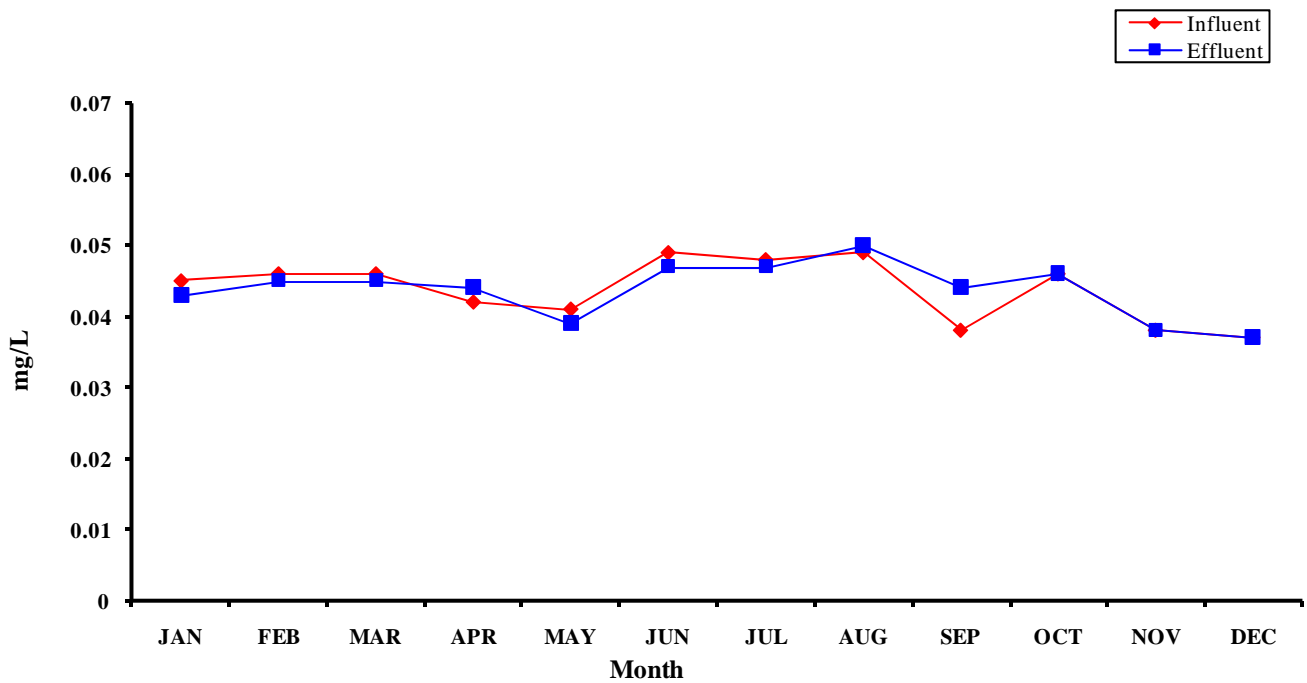
### Magnesium Hardness 2008 Monthly Averages



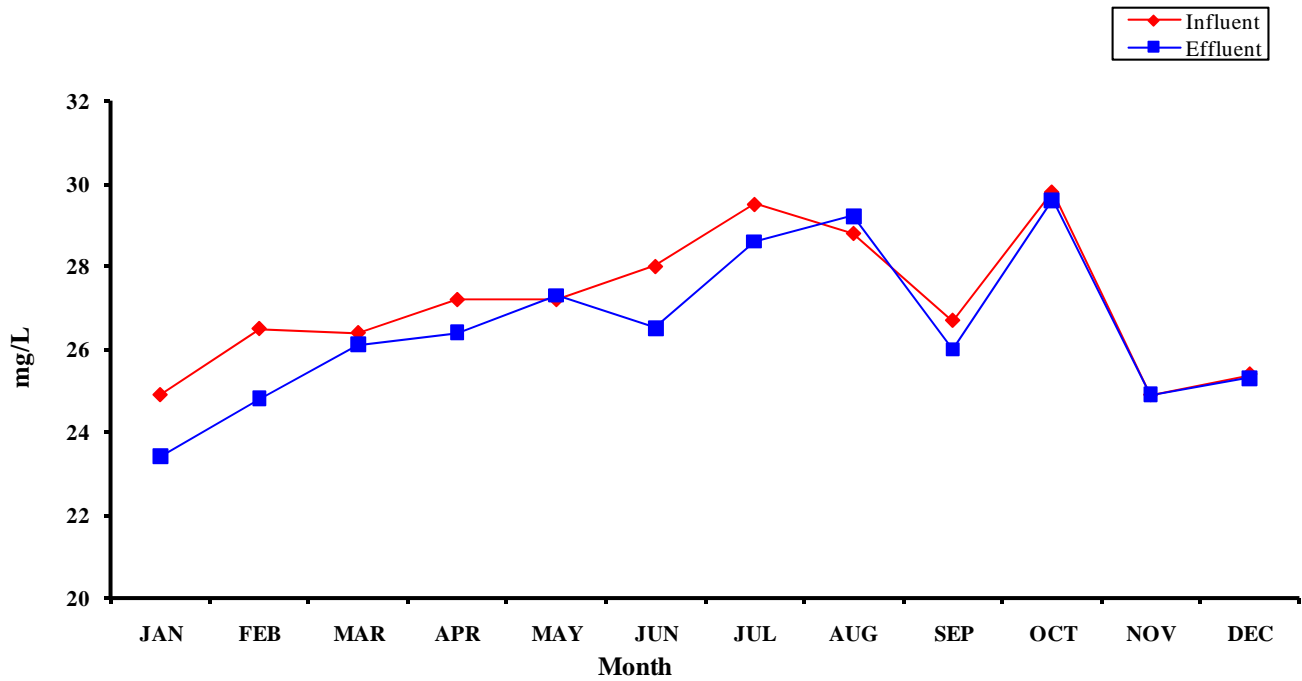
### Total Hardness 2008 Monthly Averages



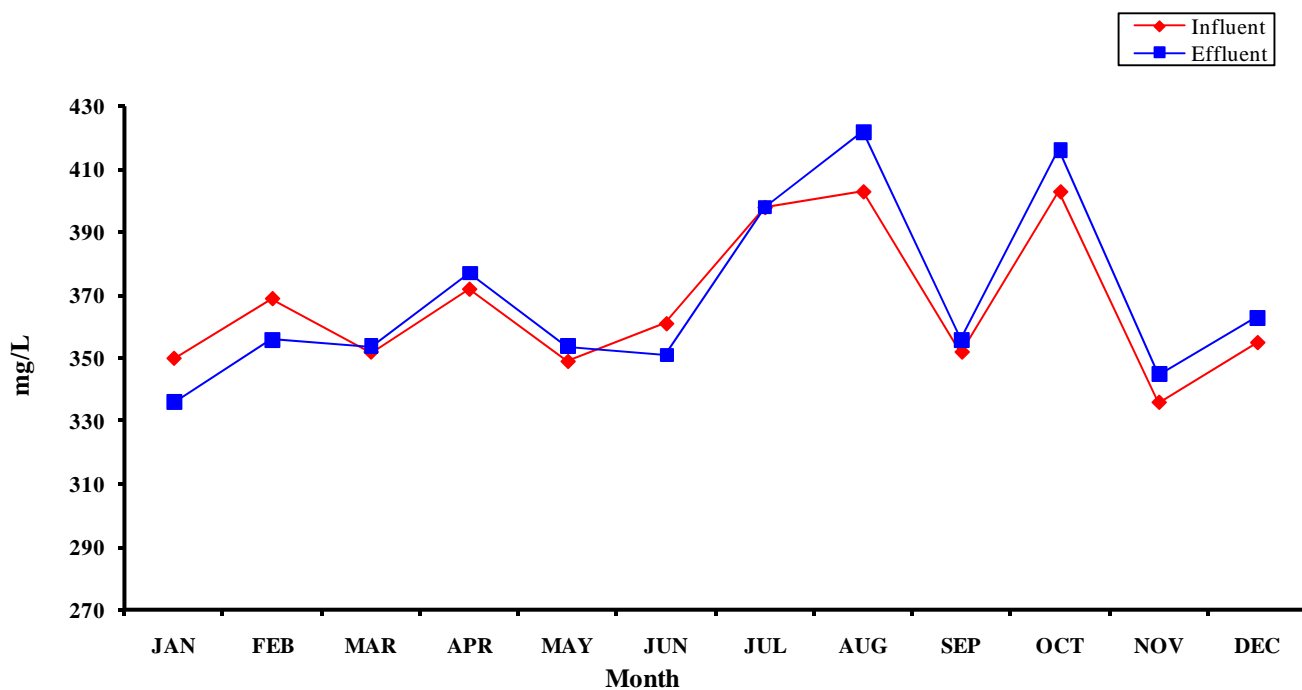
### Lithium 2008 Monthly Averages



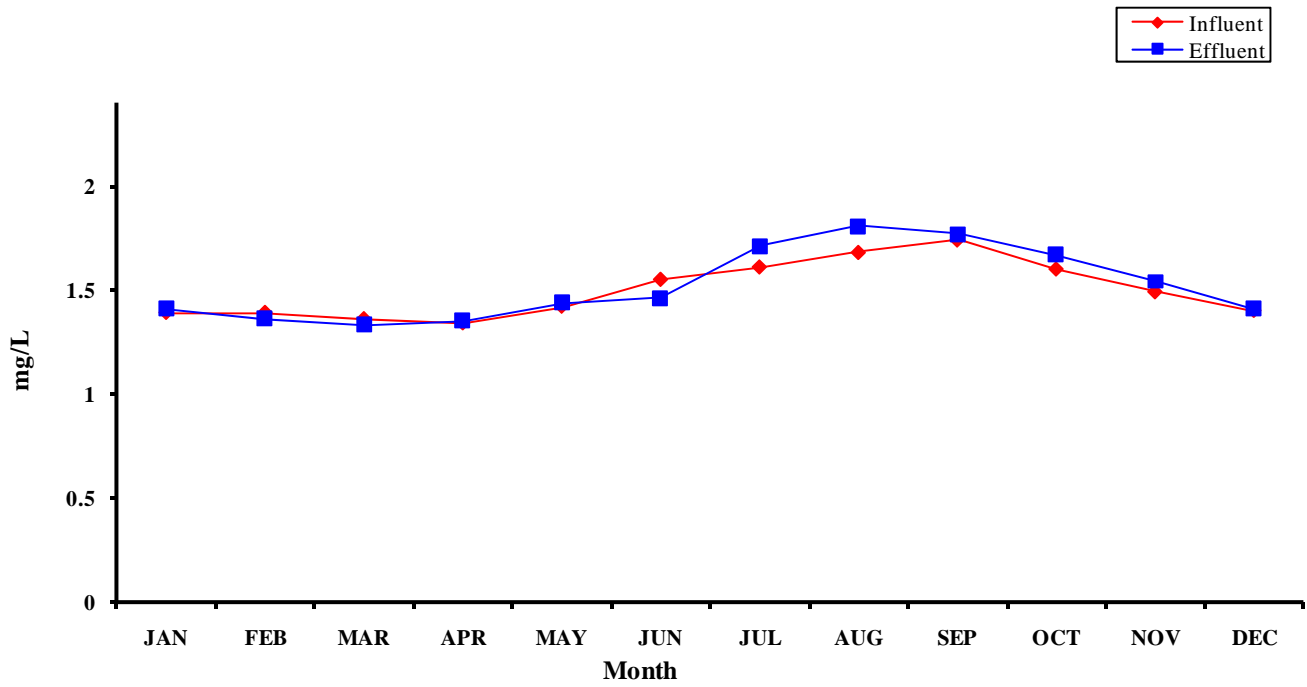
### Potassium 2008 Monthly Averages



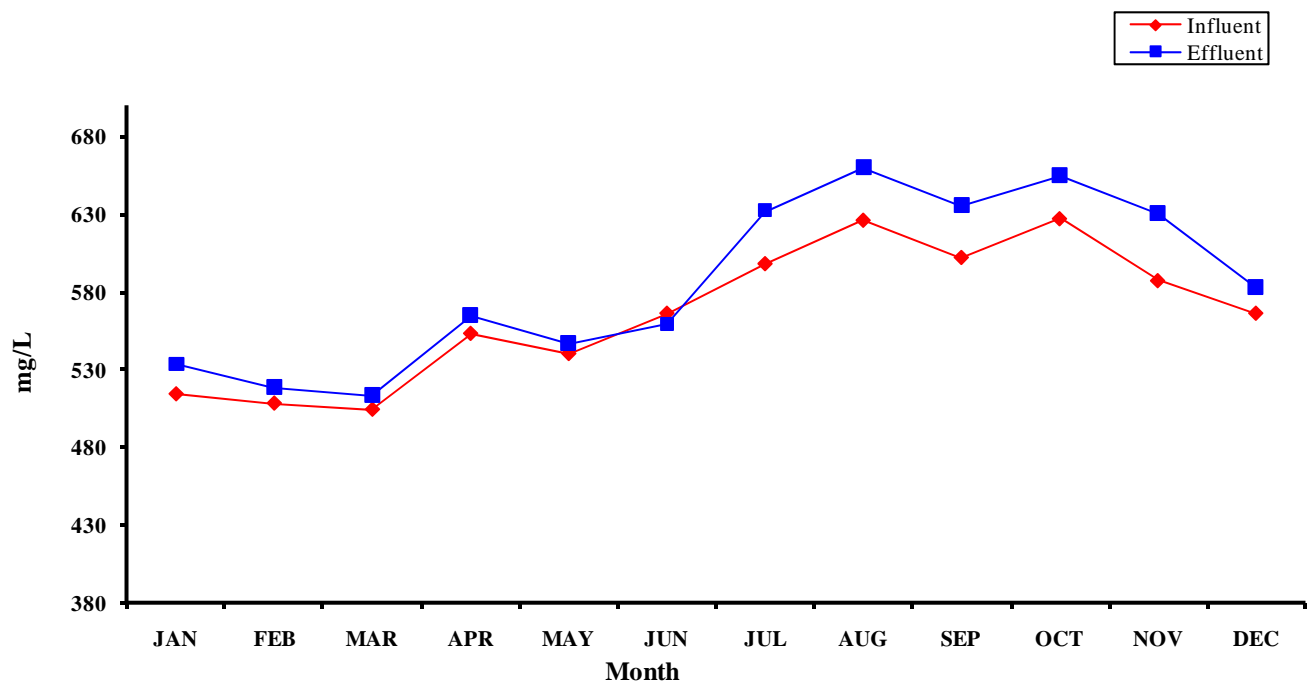
### Sodium 2008 Monthly Averages



### Bromide 2008 Monthly Averages

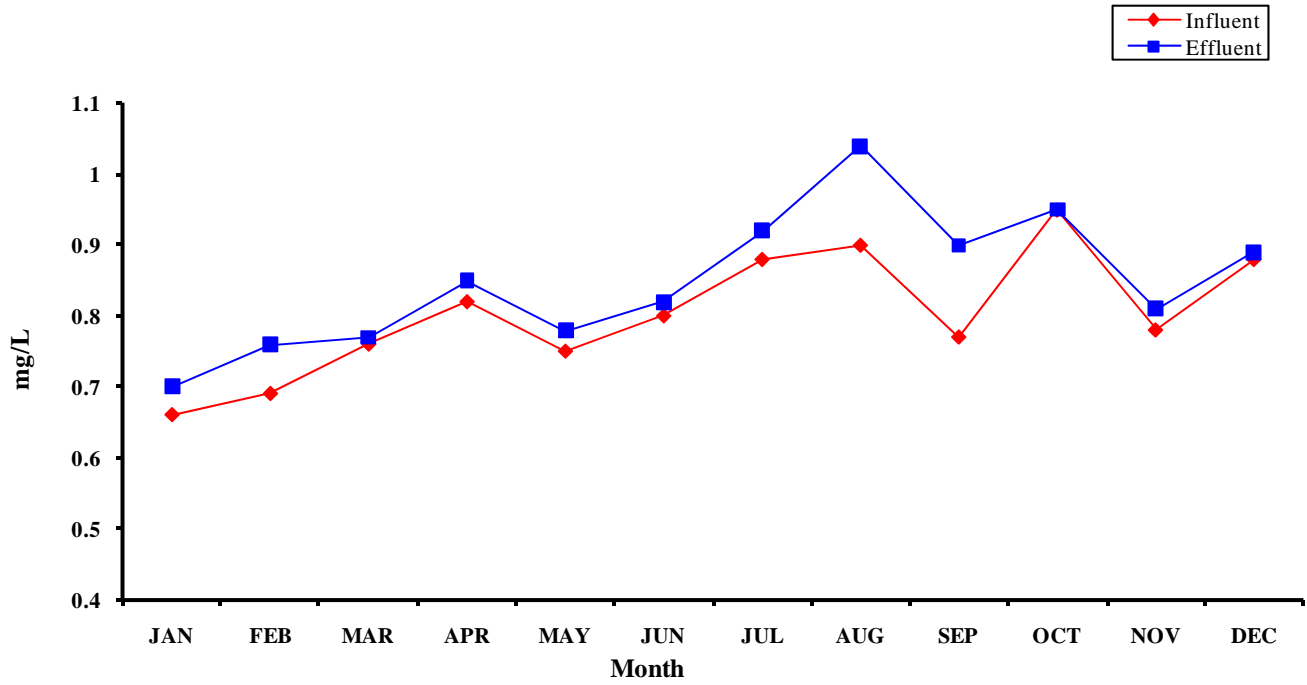


### Chloride 2008 Monthly Averages

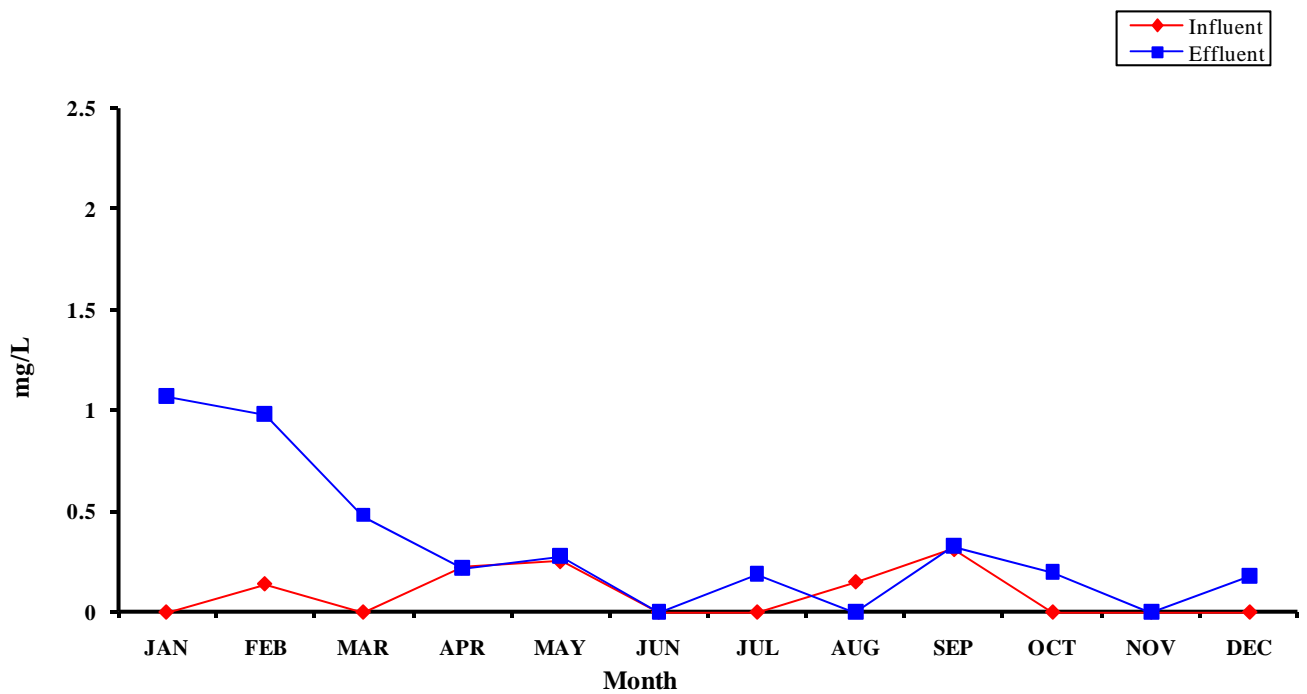




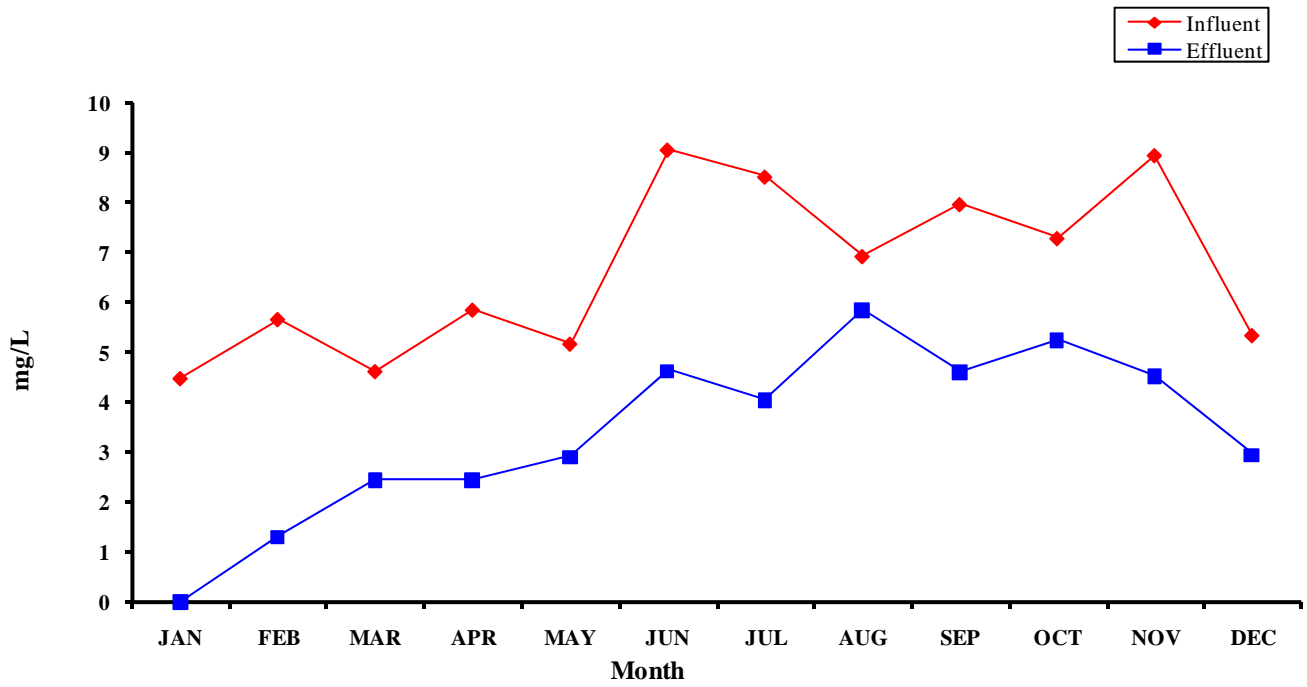
### Fluoride 2008 Monthly Averages



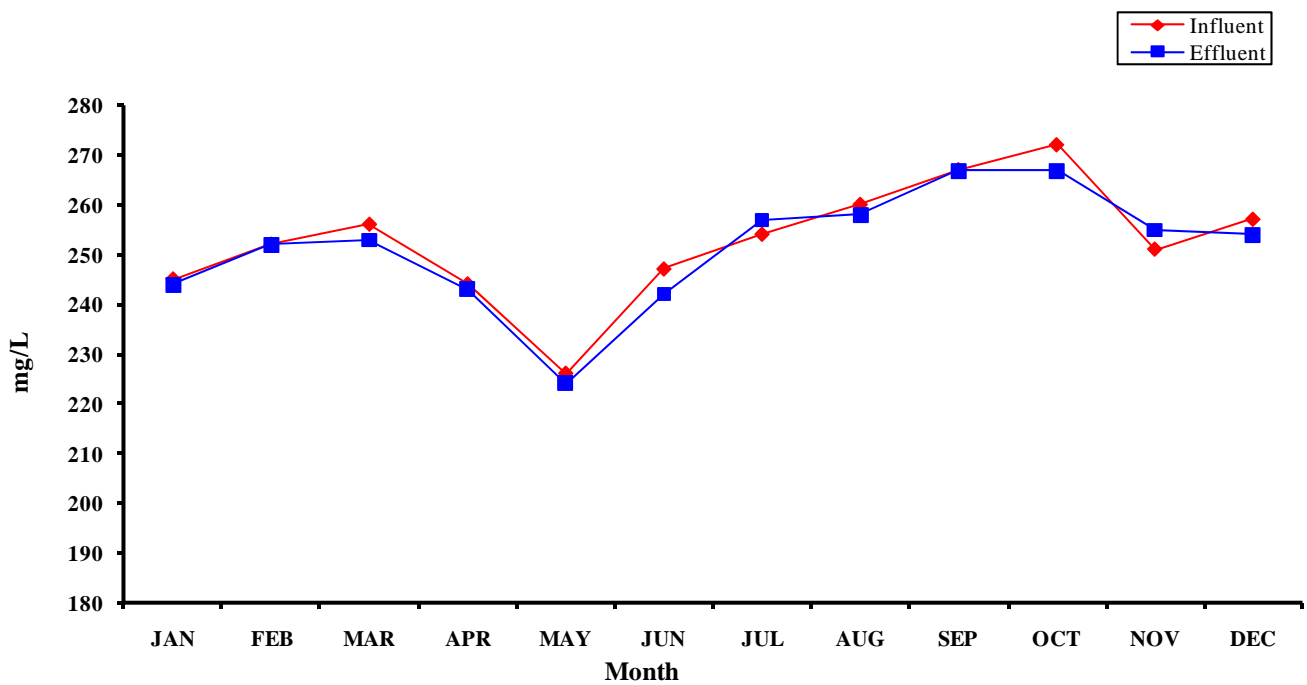
### Nitrate 2008 Monthly Averages



### O-Phosphate 2008 Monthly Averages



### Sulfate 2008 Monthly Averages

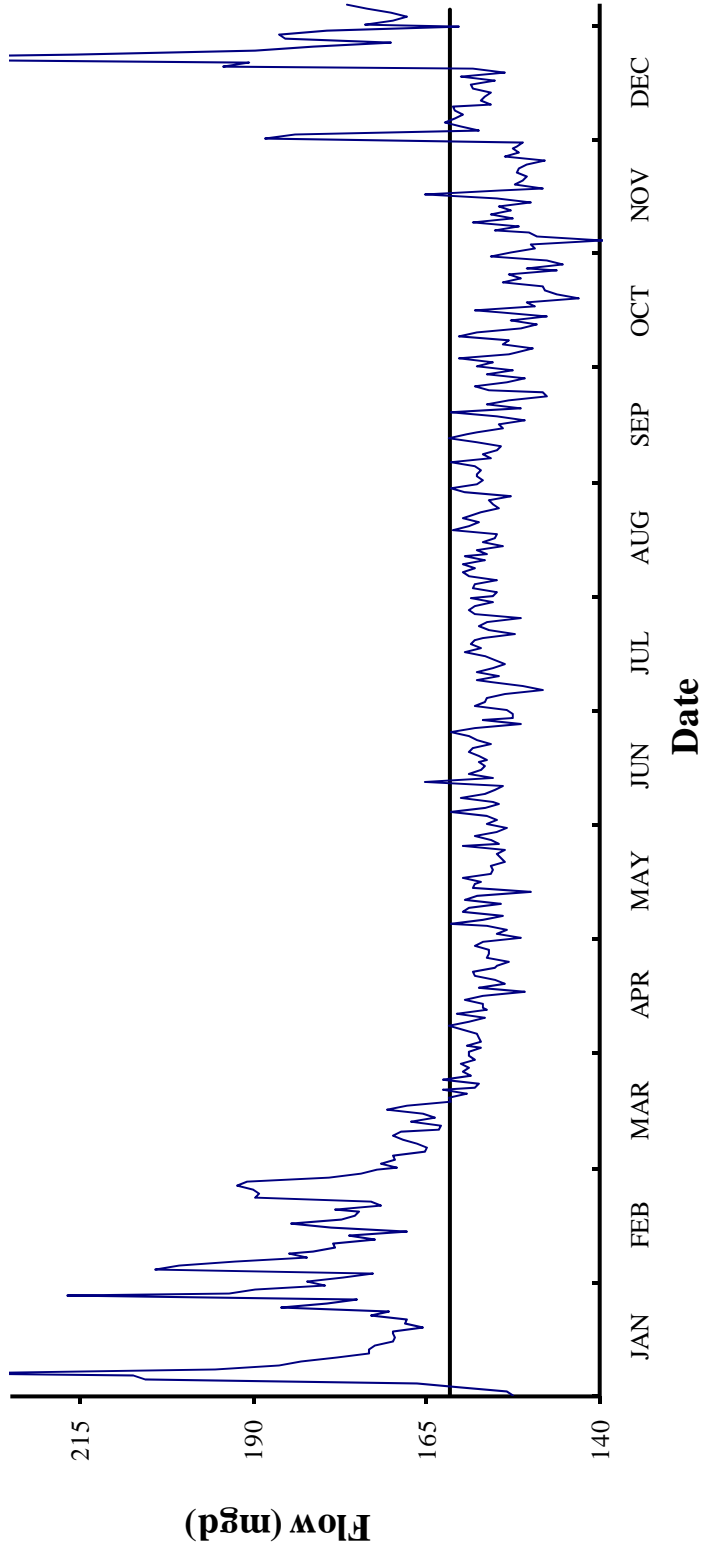


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### E. Daily Values of Selected Parameters

Daily values of selected parameters (e.g. TSS, Flow, TSS Removals, etc.) are tabulated and presented graphically; statistical summary information is provided. The straight horizontal lines on the graphs in this section represent annual means for the constituent.

# Point Loma Wastewater Treatment Plant 2008 Daily Flows (mgd)

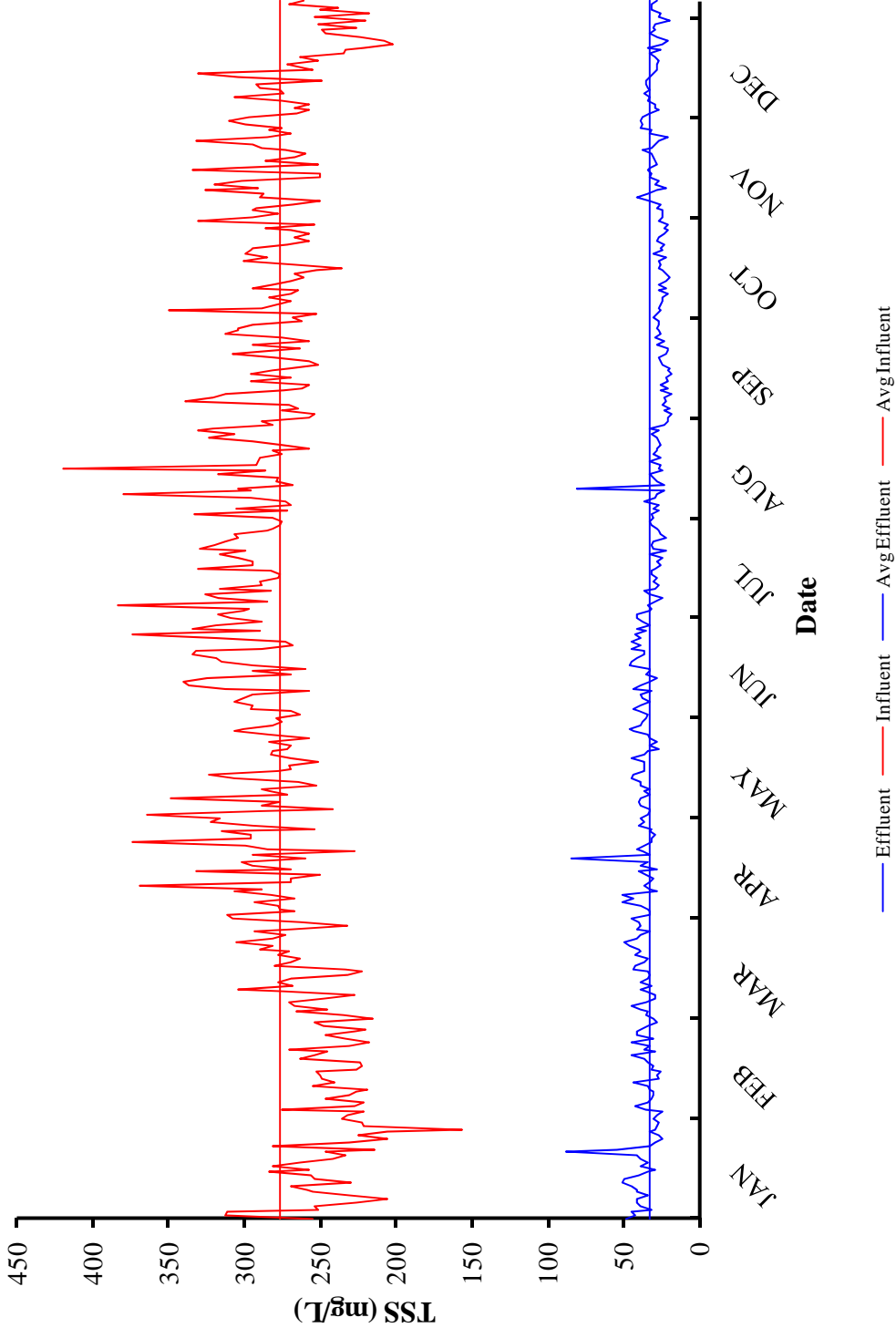


# Point Loma Wastewater Treatment Plant

## 2008 Flows (mgd)

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	152.4	176.9	169.1	156.9	154.6	156.1	156.5	157.9	157.8	151.8	150.2	160.8
2	153.3	172.6	171.4	158.9	153.2	161.3	156.1	154.9	161.3	149.4	154.8	159.8
3	159.8	204.1	169.4	157.0	156.3	156.4	153.5	158.8	155.6	153.9	151.5	160.9
4	166.2	200.6	169.7	157.3	161.4	154.4	148.1	159.7	156.9	152.9	158.2	161.2
5	205.4	192.5	165.0	157.6	156.7	155.2	151.0	157.8	154.8	160.3	152.4	155.6
6	207.4	182.2	164.9	159.5	153.9	159.8	155.5	159.7	154.2	157.6	155.7	156.9
7	233.4	184.7	166.4	161.8	159.7	156.6	157.6	156.5	157.5	151.2	152.8	156.6
8	195.4	181.1	168.4	158.9	158.8	155.0	154.3	159.3	161.7	148.8	154.4	155.7
9	186.2	178.2	169.6	156.4	154.2	153.7	157.6	156.2	159.0	152.8	149.8	158.1
10	182.9	178.4	168.4	160.4	159.4	165.0	155.4	157.7	157.6	147.6	154.8	158.4
11	177.9	172.3	163.1	156.3	157.6	155.3	153.6	153.9	153.9	154.0	165.2	155.1
12	173.1	176.0	162.8	155.2	149.8	158.9	155.0	156.7	154.4	157.8	154.1	160.0
13	173.2	167.6	167.1	156.9	158.2	157.0	156.6	155.1	150.8	149.3	148.1	153.7
14	172.3	178.6	163.6	159.3	158.0	156.4	159.2	154.7	154.8	150.4	152.0	158.2
15	169.7	184.5	165.4	156.9	157.1	157.2	157.0	161.1	161.3	142.9	151.1	194.4
16	169.4	177.1	170.5	150.7	159.6	156.3	158.4	158.8	151.4	146.1	150.3	190.4
17	169.6	175.1	167.8	157.2	155.5	157.4	158.0	157.3	156.1	147.8	151.8	256.6
18	169.7	174.6	161.2	153.6	155.3	158.8	156.8	159.5	152.9	148.0	151.6	215.8
19	165.4	178.2	161.5	155.1	155.7	158.2	152.2	158.7	147.4	153.8	150.4	189.8
20	167.9	171.5	159.2	157.9	153.5	155.6	155.9	157.0	148.2	151.2	147.8	181.2
21	167.9	172.8	162.5	158.2	154.2	157.7	157.3	154.5	155.9	153.1	153.6	169.9
22	172.9	189.6	157.9	154.9	154.9	158.7	156.3	155.3	157.8	145.9	151.5	185.2
23	170.2	189.1	157.2	154.8	153.5	161.4	151.3	155.9	153.4	150.4	152.4	186.2
24	186.0	189.8	162.5	152.9	159.7	157.8	157.9	152.6	150.7	145.1	151.8	179.3
25	179.2	192.3	158.3	156.2	159.7	151.3	158.7	159.3	156.3	147.4	151.1	160.2
26	174.9	190.8	159.6	155.9	154.4	156.8	157.8	161.4	152.4	155.7	188.3	173.9
27	216.7	179.1	158.9	155.8	155.7	152.5	155.2	157.7	157.7	152.8	183.9	169.9
28	193.4	174.4	160.1	157.8	157.8	152.3	158.5	156.6	155.4	149.3	157.2	167.8
29	189.8	172.0	158.0	156.7	154.9	153.3	155.3	157.5	160.3	149.7	160.0	170.1
30	179.4		158.8	151.3	153.3	157.8	154.8	157.7	152.9	139.4	162.3	173.6
31	182.2		158.9	156.1	156.1	158.2	158.2	157.0	157.0	148.8	162.3	176.3
Average	179.5	181.6	163.8	156.6	156.2	156.8	155.8	157.3	155.3	150.5	155.6	172.6
Minimum	152.4	167.6	157.2	150.7	149.8	151.3	148.1	152.6	147.4	139.4	147.8	153.7
Maximum	233.4	204.1	171.4	161.8	161.4	165.0	159.2	161.4	161.7	160.3	188.3	256.6
Total	5563.0	5256.9	5077.1	4698.1	4842.3	4704.2	4829.5	4876.3	4660.3	4665.0	4668.9	5351.4
												Annual Summary
												176.3
												161.8
												139.4
												256.6
												59193.0

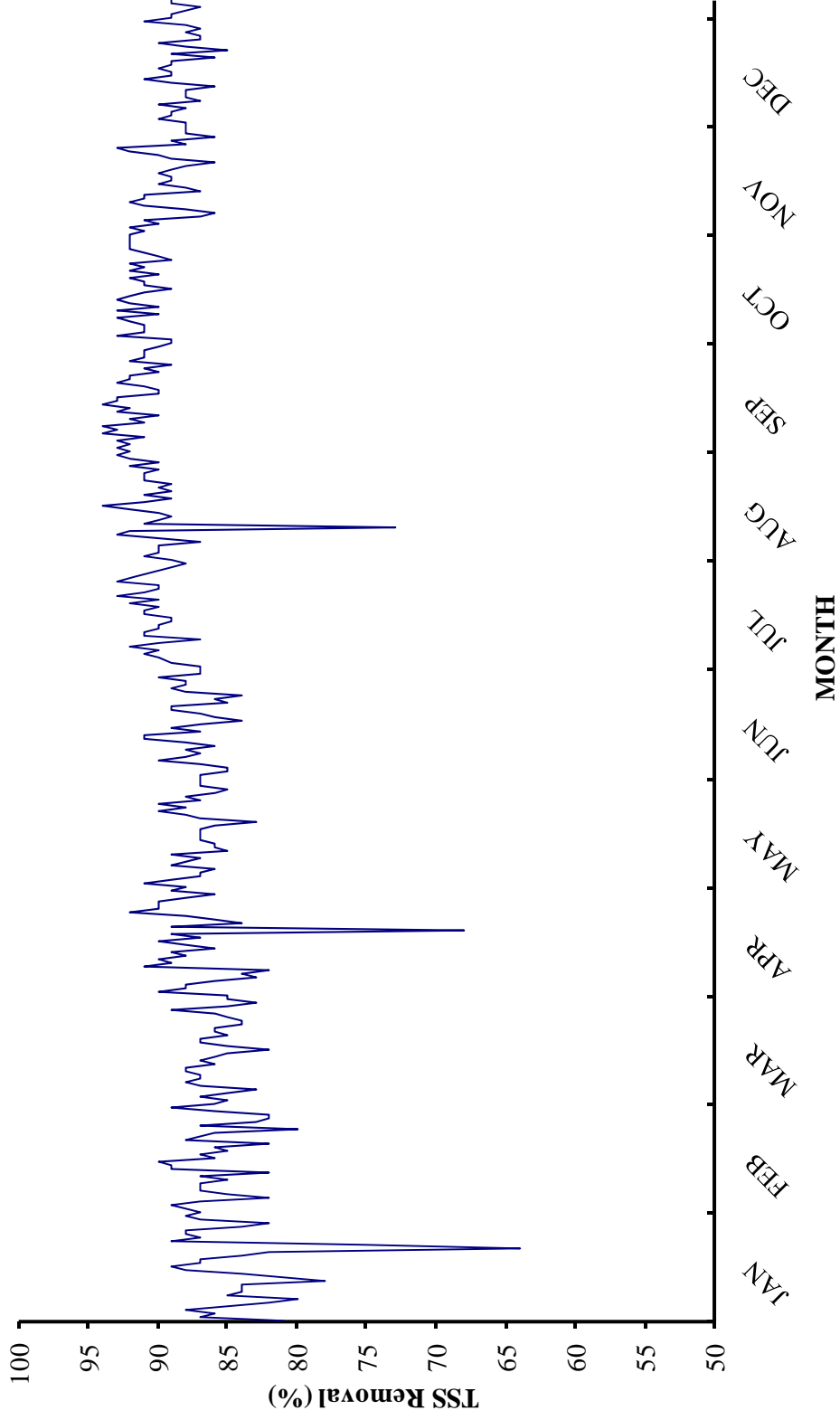
# Point Loma Wastewater Treatment Plant 2008 Total Suspended Solids







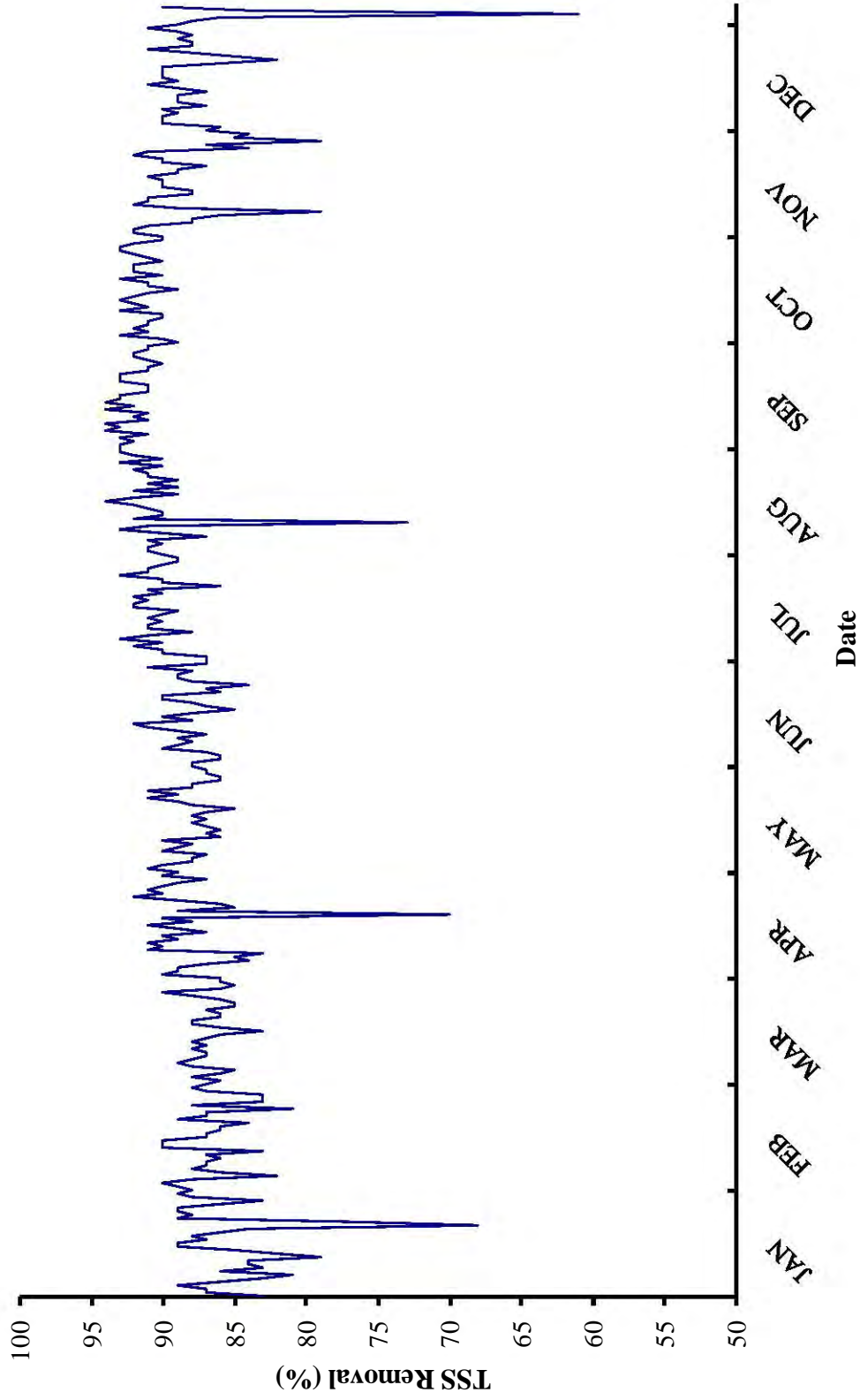
# Point Loma Wastewater Treatment Plant 2008 TSS Removal (%) at Point Loma



Point Loma Wastewater Treatment Plant  
**2008 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	81	88	86	90	91	85	89	90	91	91	87	88
2	87	89	85	88	89	85	90	90	94	91	86	90
3	86	87	87	88	87	87	91	87	93	92	88	87
4	88	82	85	86	87	90	90	90	94	93	91	88
5	85	85	83	83	86	88	92	93	91	90	92	88
6	82	87	87	84	89	87	90	92	92	93	91	88
7	80	87	88	82	88	88	87	73	90	90	91	86
8	85	87	87	91	87	86	91	91	93	92	87	89
9	84	85	87	89	89	88	91	90	92	93	88	91
10	84	87	88	90	85	91	90	89	94	92	90	89
11	84	82	88	88	86	91	90	90	93	91	89	89
12	78	89	86	89	86	87	89	92	93	89	89	90
13	81	89	87	86	87	89	89	94	90	91	90	89
14	84	90	86	88	87	87	91	91	90	91	89	89
15	88	86	85	90	87	84	91	89	91	92	88	86
16	89	87	82	87	87	86	90	91	93	90	86	89
17	87	85	85	89	86	87	92	89	92	92	89	85
18	87	86	87	68	83	89	90	90	92	91	90	88
19	84	82	87	89	87	89	93	89	90	92	92	90
20	82	88	85	84	88	85	91	91	91	89	93	87
21	64	87	86	86	90	86	90	91	89	90	88	87
22	75	86	86	88	88	84	90	91	92	91	89	88
23	89	80	84	92	90	88	93	90	91	92	86	87
24	87	87	84	90	87	89	92	92	91	92	88	88
25	88	83	85	90	88	88	91	90	91	92	88	91
26	88	82	86	90	86	88	90	92	90	92	88	89
27	84	82	89	88	85	90	89	93	89	92	88	89
28	82	86	85	86	87	87	88	92	89	91	90	88
29	87	89	83	89	87	87	89	93	93	92	89	87
30	88		85	88	87	87	91	92	91	90	89	89
31	87		85		87	90	90	93	92	91	89	89
Avg	84	86	86	87	87	87	90	90	92	91	89	88
Min	64	80	82	68	83	84	87	73	89	89	86	85
Max	89	90	89	92	91	91	93	94	94	93	93	91
Annual Summary												
												88
												64
												94

# Point Loma Wastewater Treatment Plant 2008 TSS Removal (%) Systemwide

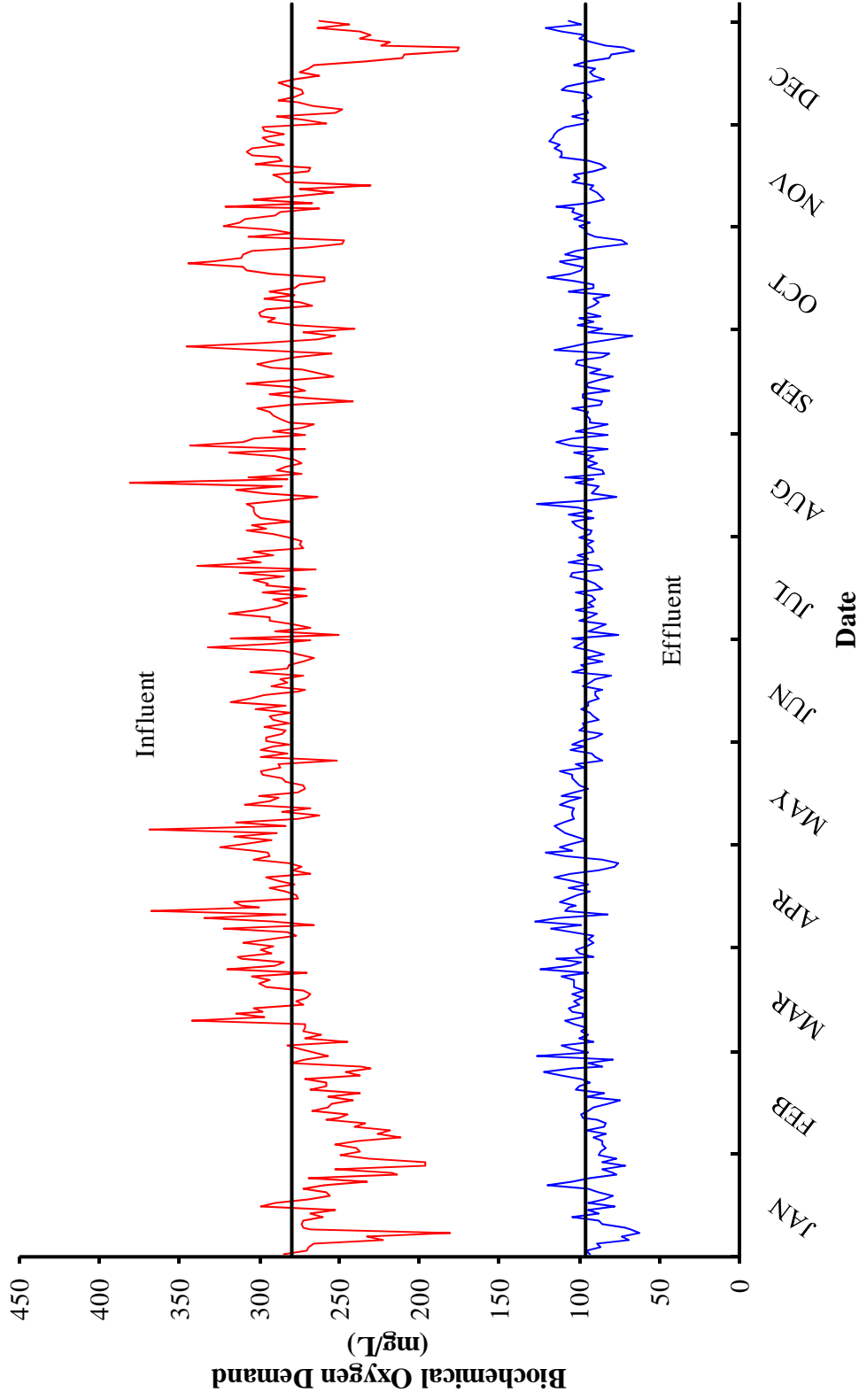


Point Loma Wastewater Treatment Plant

**2008 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	83	89	87	90	91	86	90	90	91	92	88	89
2	87	90	86	89	90	86	90	91	94	91	86	90
3	87	88	88	89	88	87	92	87	93	91	79	87
4	89	82	86	87	88	90	90	90	94	90	89	89
5	86	86	85	84	87	89	93	93	91	90	92	89
6	83	88	88	85	90	88	91	91	92	93	91	89
7	81	87	89	83	89	89	88	73	91	91	91	87
8	86	87	88	91	88	87	91	92	94	92	88	89
9	83	86	87	90	90	89	91	90	92	93	88	91
10	84	87	87	91	86	91	90	90	94	92	90	89
11	84	83	88	89	87	92	91	91	93	91	90	90
12	79	90	87	90	86	88	90	92	93	89	90	90
13	82	90	88	87	87	90	89	94	91	91	91	90
14	85	90	87	89	88	88	92	92	91	91	89	90
15	89	87	86	91	87	85	92	89	91	93	89	86
16	89	87	83	88	88	87	91	92	93	90	87	82
17	87	86	86	90	87	88	92	89	93	92	90	85
18	88	86	88	70	85	90	90	91	93	92	90	88
19	86	84	88	89	88	90	91	89	91	92	92	91
20	84	89	86	85	89	86	86	91	91	90	91	88
21	68	87	86	86	91	87	90	91	90	91	84	88
22	77	87	87	89	89	84	90	92	91	92	87	89
23	89	81	85	92	91	88	93	90	92	93	79	88
24	88	88	85	90	88	89	91	93	92	93	85	89
25	89	83	86	91	88	89	91	90	91	92	84	91
26	89	83	88	90	86	88	90	92	91	90	87	89
27	86	83	90	89	86	91	89	93	89	90	86	88
28	83	87	86	87	87	87	89	93	90	92	90	86
29	88	88	85	90	87	87	90	93	93	92	90	61
30	89		86	89	88	87	91	92	91	91	90	84
31	88		86		88	91	91	93		88		90
Avg	85	87	87	88	88	88	90	91	92	91	88	87
Min	68	81	83	70	85	84	86	73	89	88	79	61
Max	89	90	90	92	91	92	93	94	94	93	92	91
											Annual Summary	
											89	
											61	
											94	

# Point Loma Wastewater Treatment Plant 2008 Biochemical Oxygen Demand

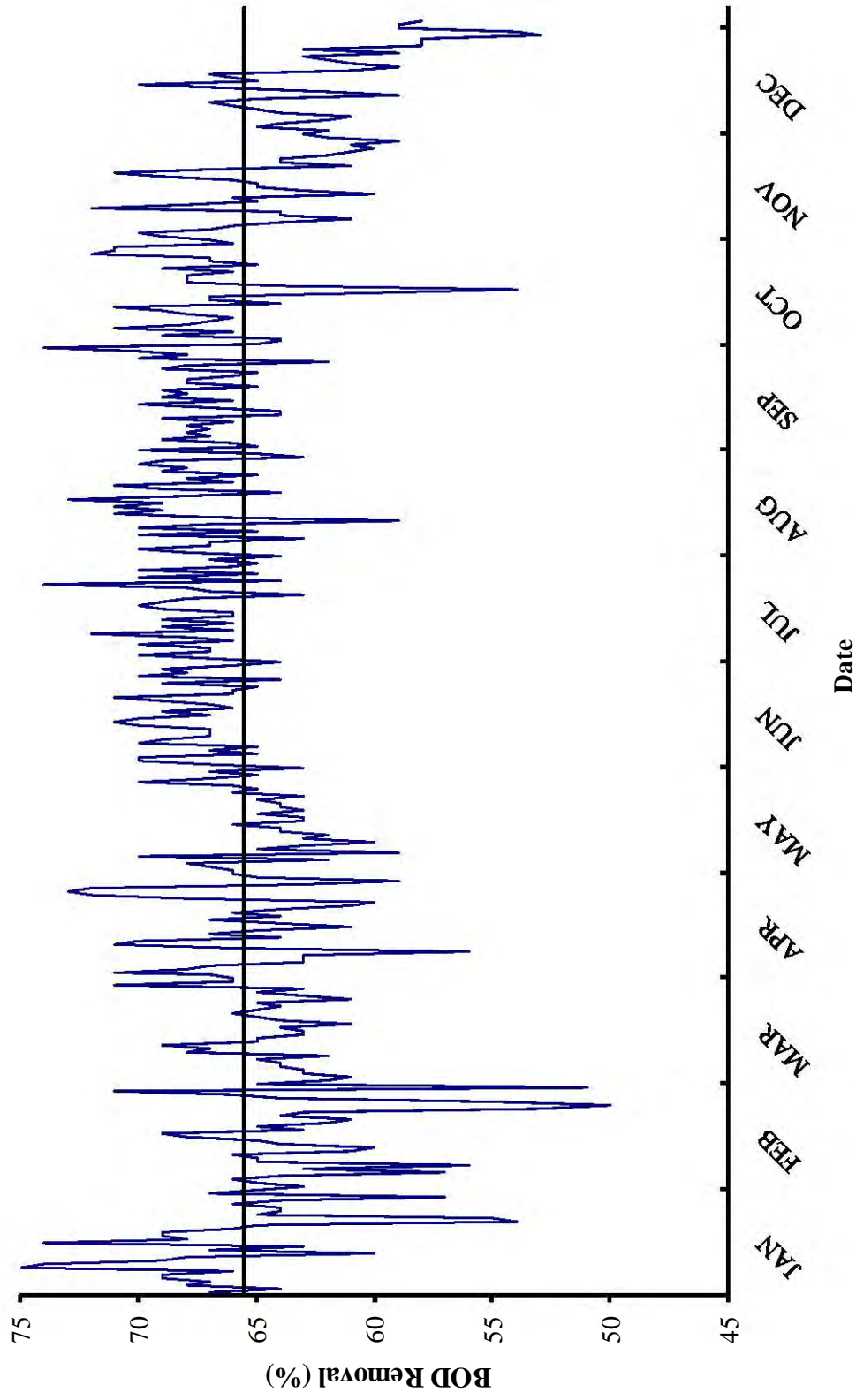


Point Loma Wastewater Treatment Plant

2008 Biochemical Oxygen Demand (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	285	93	239	83	275	104	310	91	292	96	286	85	290	95	305	102	287	93	300	87	263	103	267	97																		
2	270	96	252	86	282	111	293	94	316	102	283	100	268	89	280	104	291	96	301	96	322	115	276	97																		
3	269	87	238	86	245	91	277	91	289	109	297	97	279	83	299	91	294	94	296	97	267	95	288	98																		
4	266	89	212	91	271	100	282	105	369	112	281	98	294	100	302	107	302	104	267	91	303	84	278	92																		
5	223	69	226	83	261	95	322	118	283	116	291	88	294	93	303	92	282	87	275	88	276	87	273	96																		
6	233	73	218	96	273	99	266	99	314	110	293	91	319	89	303	101	242	86	297	91	254	89	274	111																		
7	181	62	240	84	271	96	291	128	276	103	280	93	301	102	308	127	273	98	278	81	275	93	281	108																		
8	268	68	234	83	271	103	334	114	263	104	302	99	289	91	286	94	294	98	294	107	230	91	288	97																		
9	273	71	258	89	342	109	283	82	286	105	283	94	282	95	264	76	271	81	278	91	283	105	278	84																		
10	274	86	250	98	297	98	368	109	268	103	318	94	291	90	297	92	279	94	275	91	286	100	262	91																		
11	272	88	245	99	314	98	300	107	309	112	306	88	270	92	315	90	308	96	259	103	292	103	275	93																		
12	260	104	267	95	298	105	311	102	294	107	297	90	298	102	286	88	279	88	260	120	270	91	269	90																		
13	268	88	257	91	303	107	316	112	288	99	276	90	271	85	381	102	254	79	293	106	268	83	266	103																		
14	253	94	255	82	273	100	276	107	300	111	271	85	296	89	282	91	264	93	308	99	303	87	235	96																		
15	299	78	242	74	277	103	277	101	276	103	292	98	295	90	307	109	274	87	311	98	286	94	210	81																		
16	290	94	257	96	270	98	283	93	271	95	282	93	303	96	274	84	292	92	344	109	288	112	209	80																		
17	269	84	237	84	268	104	294	107	272	100	287	90	285	106	289	85	302	102	330	112	305	111	177	65																		
18	256	79	268	102	273	97	278	95	284	102	272	80	312	104	283	96	290	101	312	97	308	111	175	72																		
19	258	88	258	100	296	103	288	105	286	104	306	104	265	86	274	89	277	85	311	109	305	116	224	83																		
20	272	95	258	93	300	103	296	116	298	105	282	96	339	88	278	96	255	81	305	102	285	112	218	92																		
21	259	120	271	99	293	103	268	106	299	112	281	99	299	107	290	91	302	116	269	89	295	119	237	100																		
22	233	105	237	111	305	111	279	88	287	97	273	85	313	95	319	103	346	104	248	70	298	117	231	97																		
23	269	93	246	122	270	95	274	78	288	102	266	97	291	101	271	82	298	94	248	73	285	116	237	111																		
24	214	76	230	104	320	125	281	75	251	85	276	84	303	91	343	106	264	80	307	90	297	113	264	121																		
25	217	79	236	86	290	106	303	85	299	90	285	92	273	92	310	115	253	67	279	96	298	109	244	99																		
26	252	86	280	94	285	99	293	109	282	92	332	103	275	96	303	105	273	95	292	96	259	97	262	107																		
27	196	71	271	79	311	115	295	121	299	106	291	99	274	91	271	82	240	86	322	100	272	95	227	94																		
28	196	85	257	127	313	91	304	105	291	97	268	96	281	100	292	102	277	101	313	93	289	104	253	77																		
29	232	76	266	94	292	100	325	112	281	105	318	105	291	93	274	92	295	91	309	103	253	95	275	104																		
30	249	88			299	102	308	105	296	99	250	75	308	92	266	82	290	100	291	98	248	96	286	98																		
31	237	87			291	96			296	90			296	98	282	93			287	104			247	99																		
Avg	252	86	248	93	288	102	296	102	290	103	288	93	292	94	295	96	281	92	292	96	282	101	251	94																		
Min	181	62	212	74	245	91	266	75	251	85	250	75	265	83	264	76	240	67	248	70	230	83	175	65																		
Max	299	120	280	127	342	125	368	128	369	116	332	105	339	107	381	127	346	116	344	120	322	119	288	121																		
																						Summary		Inf	Eff	282	96	175	62	381	128											

# Point Loma Wastewater Treatment 2008 BOD Removal (%) at Point Loma

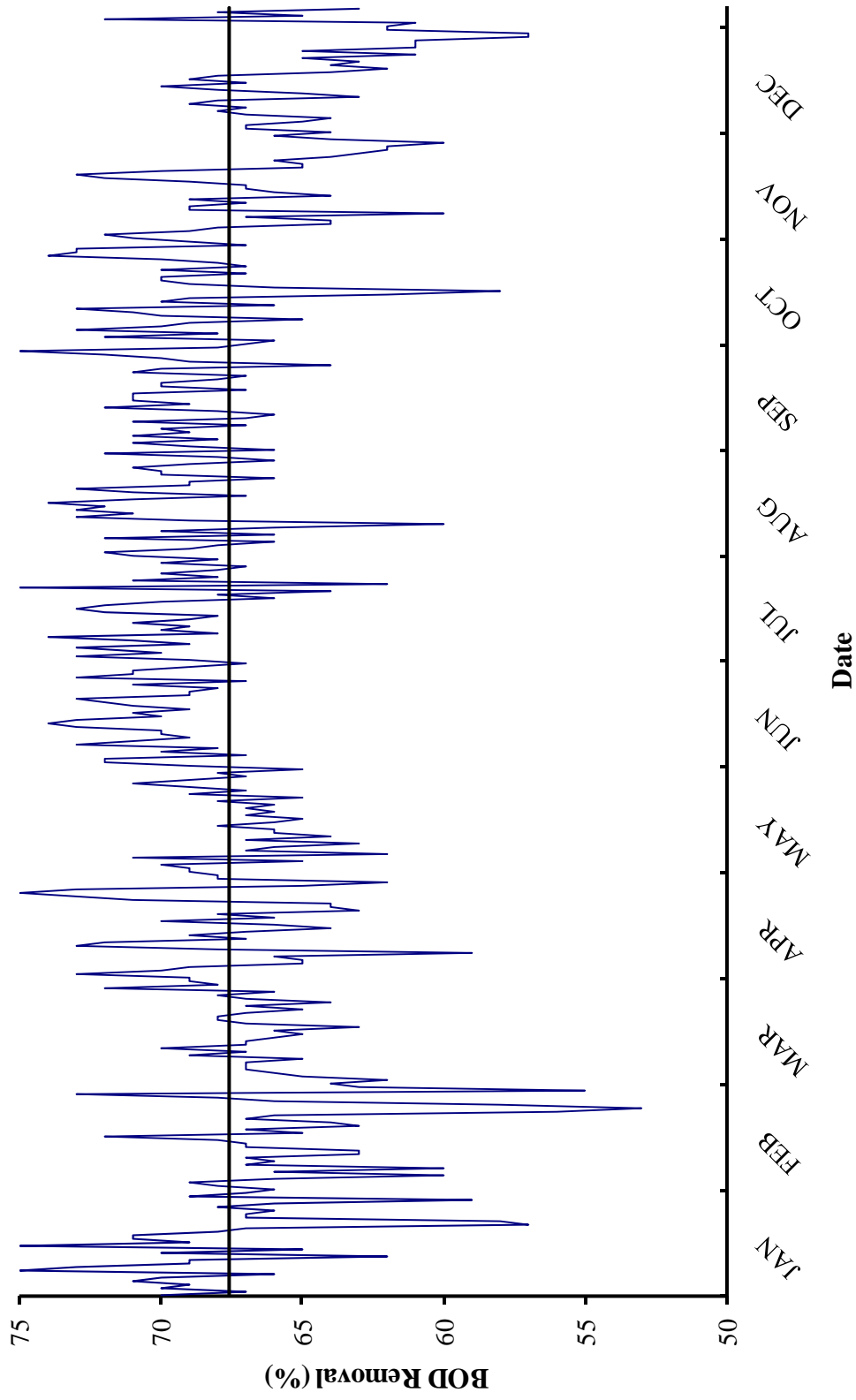


Point Loma Wastewater Treatment Plant  
**2008 Biochemical Oxygen Demand Removals (%) Systemwide**

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	Annual Summary
1	70	68	64	73	69	72	70	68	71	73	64	67	
2	67	69	62	70	70	67	71	66	69	70	67	68	
3	70	66	65	69	65	70	73	72	70	69	60	67	
4	69	60	66	65	71	68	69	66	67	65	69	69	
5	71	66	67	65	62	73	71	70	71	70	69	68	
6	70	60	67	66	67	71	74	66	67	71	67	63	
7	66	67	67	59	66	69	68	60	66	73	69	65	
8	75	66	65	68	63	70	70	69	68	66	64	68	
9	73	67	69	73	67	70	69	73	72	70	66	70	
10	69	63	67	72	64	73	71	71	69	69	67	67	
11	69	63	70	67	66	74	69	73	71	62	67	69	
12	62	67	67	69	66	73	68	72	71	58	69	68	
13	70	67	67	67	68	70	72	74	71	66	72	64	
14	65	68	66	64	66	71	73	71	67	69	73	62	
15	75	72	65	66	65	69	72	67	70	70	70	64	
16	69	65	66	70	67	71	70	71	70	70	65	63	
17	71	67	63	66	66	72	66	73	68	67	65	65	
18	71	63	67	68	67	73	68	69	67	70	66	61	
19	68	64	68	63	66	69	64	69	71	67	64	65	
20	67	67	68	64	68	69	75	66	70	68	63	61	
21	57	66	67	64	65	68	62	70	64	70	62	61	
22	58	56	65	71	69	71	71	70	69	74	62	61	
23	67	53	67	73	67	67	68	71	70	73	60	57	
24	67	58	64	75	69	73	70	69	72	73	64	57	
25	66	66	67	73	71	71	68	66	75	67	66	62	
26	68	68	68	65	69	71	67	68	68	69	64	62	
27	66	73	66	62	67	69	70	72	67	71	67	61	
28	59	55	72	68	68	67	68	66	66	72	67	72	
29	69	63	68	68	65	69	71	69	72	69	65	65	
30	67	69	69	69	69	73	72	71	68	68	64	68	
31	66	69	69	72	72	69	69	68	68	64	64	63	
Avg	67.7	64.6	66.5	67.7	66.9	70.4	69.5	69.2	69.2	69.0	66.0	64.5	67.6
Min	57.0	53.0	62.0	59.0	62.0	67.0	62.0	60.0	64.0	58.0	60.0	57.0	53.0
Max	75.0	73.0	72.0	75.0	72.0	74.0	75.0	74.0	75.0	74.0	73.0	72.0	75.0



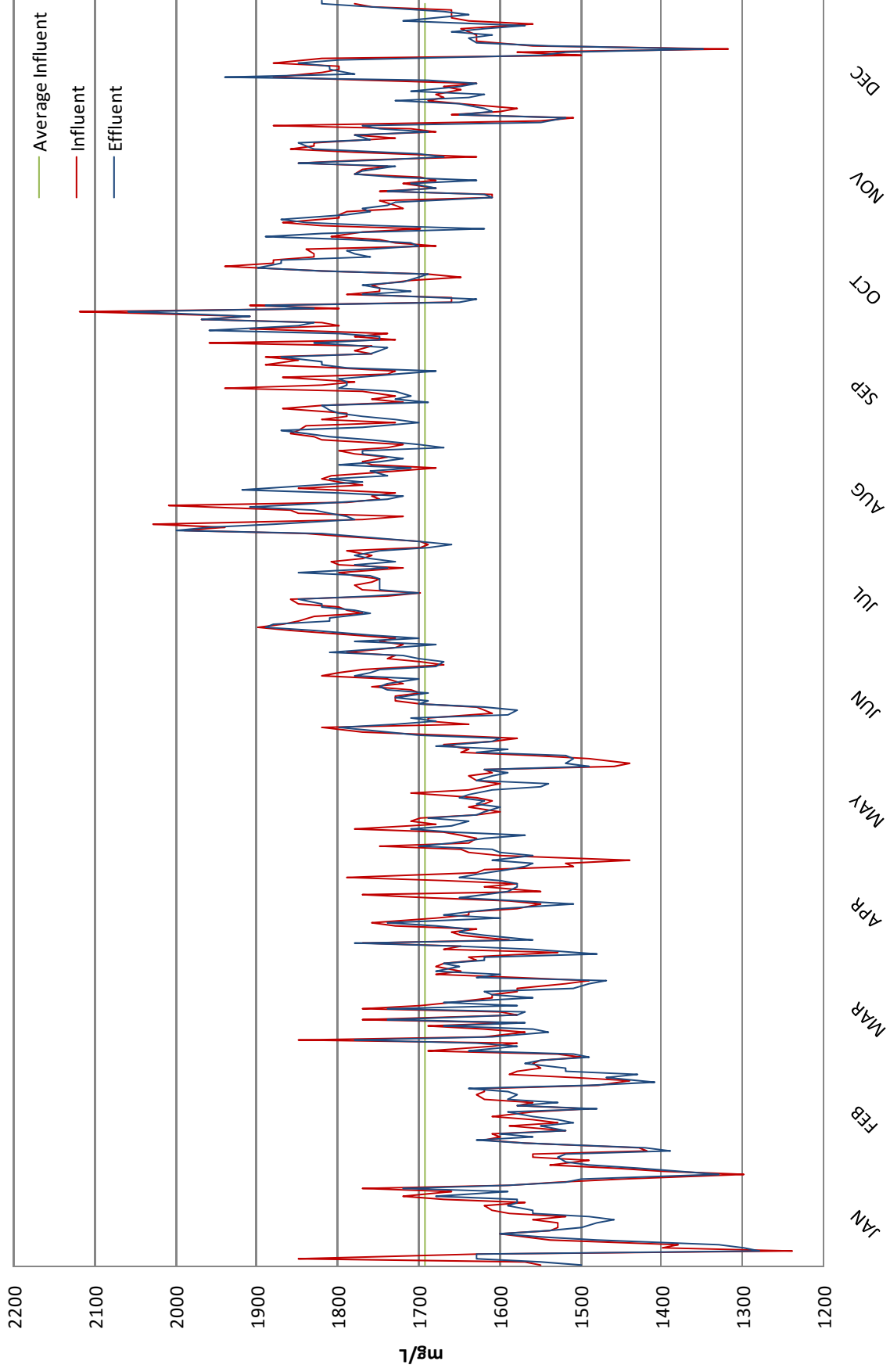
# Point Loma Wastewater Treatment Plant 2008 BOD Removal (%) Systemwide



Point Loma Wastewater Treatment Plant  
2008 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	Annual Summary
1	70	68	64	73	69	72	70	68	71	73	64	67	
2	67	69	62	70	70	67	71	66	69	70	67	68	
3	70	66	65	69	65	70	73	72	70	69	60	67	
4	69	60	66	65	71	68	69	66	67	65	69	69	
5	71	66	67	65	62	73	71	70	71	70	69	68	
6	70	60	67	66	67	71	74	66	67	71	67	63	
7	66	67	67	59	66	69	68	60	66	73	69	65	
8	75	66	65	68	63	70	70	69	68	66	64	68	
9	73	67	69	73	67	70	69	73	72	70	66	70	
10	69	63	67	72	64	73	71	71	69	69	67	67	
11	69	63	70	67	66	74	69	73	71	62	67	69	
12	62	67	67	69	66	73	68	72	71	58	69	68	
13	70	67	67	67	68	70	72	74	71	66	72	64	
14	65	68	66	64	66	71	73	71	67	69	73	62	
15	75	72	65	66	65	69	72	67	70	70	70	64	
16	69	65	66	70	67	71	70	71	70	70	65	63	
17	71	67	63	66	66	72	66	73	68	67	65	65	
18	71	63	67	68	67	73	68	69	67	70	66	61	
19	68	64	68	63	66	69	64	69	71	67	64	65	
20	67	67	68	64	68	69	75	66	70	68	63	61	
21	57	66	67	64	65	68	62	70	64	70	62	61	
22	58	56	65	71	69	71	71	70	69	74	62	61	
23	67	53	67	73	67	67	68	71	70	73	60	57	
24	67	58	64	75	69	73	70	69	72	73	64	57	
25	66	66	67	73	71	71	68	66	75	67	66	62	
26	68	68	68	65	69	71	67	68	68	69	64	62	
27	66	73	66	62	67	69	70	72	67	71	67	61	
28	59	55	72	68	68	67	68	66	66	72	67	72	
29	69	63	68	68	65	69	71	69	72	69	65	65	
30	67		69	69	69	73	72	71	68	68	64	68	
31	66		69		72		69	68		64		63	
Avg	67.7	64.6	66.5	67.7	66.9	70.4	69.5	69.2	69.2	69.0	66.0	64.5	67.6
Min	57.0	53.0	62.0	59.0	62.0	67.0	62.0	60.0	64.0	58.0	60.0	57.0	53.0
Max	75.0	73.0	72.0	75.0	72.0	74.0	75.0	74.0	75.0	74.0	73.0	72.0	75.0

# Point Loma Influent 2008 Total Dissolved Solids (mg/L)



Point Loma Wastewater Treatment Plant

2008 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	1550	1500	1490	1520	1560	1570	1640	1620	1640	1600	1670	1680	1750	1780	1840	1820	1840	1770	1820	1830	1800	1790	1600	1610			
2	1570	1550	1560	1530	1550	1550	1530	1480	1650	1610	1610	1610	1730	1700	1990	2000	1730	1700	1970	1970	1790	1760	1580	1620			
3	1570	1550	1560	1520	1500	1490	1670	1560	1750	1700	1580	1600	1780	1760	1940	1960	1820	1730	1910	1910	1720	1770	1650	1650			
4	1850	1630	1420	1390	1530	1510	1650	1650	1640	1660	1670	1700	1860	1830	2030	1880	1790	1770	2120	2060	1730	1740	1690	1730			
5	1630	1630	1430	1420	1690	1640	1770	1780	1630	1620	1770	1740	1900	1890	1770	1780	1790	1800	1800	1830	1750	1730	1670	1640			
6	1240	1280	1570	1570	1610	1580	1590	1560	1650	1570	1820	1800	1870	1880	1720	1790	1870	1810	1910	1890	1610	1610	1680	1620			
7	1400	1300	1620	1630	1580	1630	1650	1620	1670	1660	1640	1730	1850	1810	1850	1810	1820	1820	1660	1650	1610	1620	1650	1710			
8	1380	1330	1600	1560	1850	1780	1660	1650	1780	1710	1690	1680	1830	1810	1860	1830	1720	1690	1660	1630	1750	1740	1670	1650			
9	1540	1480	1610	1600	1620	1610	1630	1640	1680	1660	1690	1710	1770	1760	2010	1910	1760	1730	1790	1770	1680	1680	1630	1630			
10	1570	1550	1520	1520	1570	1540	1730	1680	1710	1640	1610	1590	1790	1780	1790	1800	1730	1710	1750	1710	1720	1710	1760	1690			
11	1600	1600	1590	1550	1620	1560	1760	1740	1700	1690	1620	1580	1800	1820	1750	1740	1770	1730	1750	1750	1680	1630	1880	1940			
12	1540	1540	1530	1510	1690	1670	1680	1600	1630	1630	1630	1620	1850	1820	1760	1720	1940	1800	1760	1770	1700	1730	1820	1780			
13	1530	1500	1560	1530	1580	1570	1640	1670	1600	1620	1700	1700	1860	1850	1730	1800	1820	1790	1710	1720	1780	1770	1800	1810			
14	1530	1480	1610	1560	1770	1740	1640	1640	1640	1600	1730	1690	1740	1760	1850	1920	1780	1790	1650	1700	1770	1770	1800	1810			
15	1560	1460	1560	1590	1580	1580	1580	1600	1620	1630	1730	1730	1700	1700	1770	1830	1870	1800	1690	1690	1740	1730	1880	1850			
16	1520	1490	1490	1480	1600	1474	1550	1510	1610	1620	1700	1690	1770	1750	1800	1770	1740	1730	1820	1820	1850	1850	1820	1800			
17	1590	1560	1580	1580	1770	1740	1590	1580	1630	1650	1710	1740	1780	1750	1820	1810	1730	1680	1940	1900	1770	1750	1500	1550			
18	1610	1560	1560	1530	1700	1580	1690	1650	1710	1640	1760	1750	1760	1750	1810	1740	1800	1790	1880	1870	1630	1670	1580	1520			
19	1620	1590	1620	1590	1660	1670	1770	1620	1640	1610	1720	1740	1750	1730	1760	1760	1890	1820	1880	1870	1780	1700	1320	1350			
20	1570	1580	1630	1580	1610	1560	1550	1590	1620	1550	1740	1700	1780	1760	1680	1710	1850	1820	1830	1760	1860	1830	1560	1540			
21	1670	1580	1620	1590	1610	1610	1620	1580	1600	1540	1474	1467	1800	1850	1760	1800	1890	1870	1830	1780	1830	1840	1630	1630			
22	1720	1680	1620	1640	1580	1620	1580	1580	1630	1630	1800	1760	1720	1740	1770	1750	1760	1760	1840	1790	1830	1850	1630	1640			
23	1660	1590	1480	1490	1580	1510	1670	1600	1640	1610	1770	1750	1800	1780	1740	1720	1780	1750	1680	1700	1730	1760	1630	1610			
24	1770	1720	1440	1410	1520	1490	1790	1650	1610	1590	1670	1680	1810	1730	1780	1770	1760	1740	1730	1710	1780	1780	1640	1660			
25	1590	1590	1510	1470	1490	1470	1630	1630	1620	1620	1700	1670	1770	1760	1800	1770	1960	1830	1750	1780	1680	1690	1650	1620			
26	1530	1520	1590	1430	1580	1630	1620	1590	1460	1490	1740	1700	1760	1780	1740	1670	1730	1750	1810	1890	1710	1750	1560	1570			
27	1450	1500	1580	1520	1680	1600	1510	1570	1440	1520	1730	1720	1790	1750	1720	1700	1780	1750	1770	1820	1880	1770	1640	1720			
28	1300	1330	1550	1520	1650	1680	1520	1560	1490	1510	1790	1810	1700	1690	1820	1760	1740	1800	1700	1620	1550	1550	1660	1680			
29	1400	1380	1560	1570	1680	1650	1440	1610	1560	1520	1730	1730	1690	1660	1830	1810	1910	1960	1820	1750	1510	1520	1660	1640			
30	1460	1430			1670	1670	1600	1560	1650	1630	1720	1680	1700	1700	1860	1840	1800	1850	1870	1840	1660	1650	1660	1670			
31	1540	1490			1630	1620			1640	1590		1790	1750	1850	1870				1800	1870			1760	1760			
Avg	1550	1515	1554	1530	1623	1600	1632	1612	1630	1610	1697	1692	1782	1771	1812	1801	1806	1778	1803	1795	1729	1725	1666	1668			
Min	1240	1280	1420	1390	1490	1470	1440	1480	1440	1490	1474	1467	1690	1660	1680	1670	1720	1680	1650	1620	1510	1520	1320	1350			
Max	1850	1720	1630	1640	1850	1780	1790	1780	1780	1710	1820	1810	1900	1890	2030	2000	1960	1960	2120	2060	1880	1850	1880	1940			
																						Summary		Inf	Eff	1690	1675
																								1506	1506	2120	2060

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## F. Toxicity Bioassays

### **Toxicity Testing: Point Loma Wastewater Treatment Plant Effluent, 2008**

#### **INTRODUCTION**

The City of San Diego's Toxicology Laboratory (CSDTL) conducted aquatic toxicity tests (bioassays) as required by its NPDES Permit No. CA0107409, Order No.R9-2002-0025 for the Point Loma Wastewater Treatment Plant (PLWTP). The testing requirements are designed to determine the acute and chronic toxicity of effluent samples collected from the PLWTP. This chapter presents summaries and discussion of the toxicity tests conducted in 2008.

Toxicity testing of wastewater effluent measures the bioavailability of toxicants in a complex mixture, accounts for interactions among potential toxicants, and integrates the effects of all constituents. Acute and chronic bioassays are characterized by the duration of exposure of test organisms 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. The City of San Diego is required to conduct acute toxicity tests of PLWTP effluent on a semiannual schedule.

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 monthly critical/early life stage chronic tests of PLWTP effluent 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 PLWTP and stored at 4° C until test initiation. All tests were initiated within 36 hours of sample collection. The acute toxicity test concentrations were 3.87, 7.75, 15.5, 31.0, and 62% (nominal). Unimpacted receiving water was used as dilution water in accordance with the NPDES permit. Receiving water was collected at City of San Diego monitoring station B8 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. The station coordinates are as follows:

Collection Location	Latitude/Longitude	Depth (m)
B-8	32° 45.50' N, 117° 20.77' W	88.4

Chronic toxicity test concentrations consisted of 0.15, 0.27, 0.49, 0.88, and 1.56% effluent. Dilution water for the chronic effluent tests was collected in the same manner as in the acute toxicity tests.

Dilution water for the acute and chronic reference toxicant tests was obtained from the Scripps Institution of Oceanography (SIO), filtered, held at 4 °C, and used within 96 hours of collection. Detailed methodology for all toxicity testing is described in the City of San Diego Toxicology Laboratory Quality Assurance Manual (City of San Diego 2008).

### **Acute Bioassays**

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

Acute bioassays using the mysid, *Mysidopsis bahia*, were conducted in February and August 2008 in accordance with USEPA protocol EPA/600/4-90/027F (USEPA 1993). Larval mysids (4-5 days old) were purchased from Aquatic Bio Systems (Fort Collins, CO), and acclimated to test temperature and salinity for at least 24 hours. Upon test initiation, the mysids (10 per replicate) were exposed for 96 hours in a static-renewal system to the effluent exposure series. Receiving water and brine controls were also tested. The test solutions were renewed at 48 hours and the organisms were fed once daily.

Simultaneous reference toxicant testing was performed using reagent grade copper chloride. Test concentrations consisted of 56, 100, 180, 320, and 560 µg/L copper. A SIO seawater control was also tested. At the end 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 each month during 2008 in accordance with USEPA protocol EPA/600/R-95/136 (USEPA 1995). Kelp zoospores were obtained from the reproductive blades (sporophylls) of adult *Macrocystis* plants, which were collected from the kelp beds near La Jolla, California one day prior to test initiation. The zoospores were exposed in a static system for 48 hours to the effluent exposure series. A receiving water control was also tested.

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 SIO seawater control was also tested. At the end of the exposure period, 100 zoospores from each

replicate were examined and the percent germination was recorded. In addition, germ-tube length was measured and recorded for 10 of the germinated zoospores.

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 each month during 2008 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 CSDTL. Mature male and female abalone were placed in separate natural seawater tanks and held at 15 °C. For each test event, spawning was induced in 6-8 abalones in gender-specific vessels. Eggs and sperm were retained and examined under magnification to ensure good quality. Once deemed acceptable, the sperm stock was used to fertilize the eggs, and a specific quantity of fertilized embryos was added to each test replicate and exposed to the effluent series for 48 hours. A receiving water control was also tested. At the end of the test period, 100 embryos were examined and the number of normally and abnormally developed embryos was recorded.

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 SIO seawater control was also tested.

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.

### ***Topsmelt Survival and Growth Bioassays***

Chronic bioassays using the topsmelt, *Atherinops affinis*, were conducted in accordance with EPA/600/R-95/136 (USEPA 1995). Larval topsmelt (9-14 days old) were purchased from a commercial vendor and exposed for seven days in a static-renewal system to 0.15, 0.27, 0.49, 0.88, and 1.56% effluent. The test endpoints are survival and growth (dry biomass).

Simultaneous reference toxicant testing was performed using reagent grade copper chloride. The concentrations of copper in the exposure series were 32, 56, 100, 180, and 320 µg/L. A reference toxicant control consisting of SIO dilution water was also tested. Upon conclusion of the exposure period, percent survival and dry biomass were recorded.

The data were analyzed using ToxCalc (Tidepool Scientific Software, 2002) in accordance with the appropriate USEPA flowcharts for statistical analysis of topsmelt survival and growth test data by hypothesis testing and point estimation (USEPA 1995; pp.105-106).



## RESULTS & DISCUSSION

### Acute Bioassays

In 2008, all acute toxicity tests were conducted using mysids (*Mysidopsis bahia*) and all tests met the acceptability criterion of >90% control survival and all tests demonstrated compliance with permit standards (Table T.1).

### Chronic Bioassays

The City conducted chronic toxicity tests using the giant kelp (*Macrocystis pyrifera*) in 2008, which is the most sensitive species mandated by the compliance monitoring program. The results are summarized in Table T.2. All tests met the acceptability criteria and were within compliance limits.

The City also conducted chronic bioassays using the red abalone (*Haliotis rufescens*) on a voluntary basis due to the ecological significance of the species. The results are also presented in Table T.2. All red abalone tests met the acceptability criteria, and all but one (May 2008) was within compliance limits. Data from the May test with the atypical response were further analyzed using a more conservative significance level of 0.01 to reduce the likelihood of a Type I error (false positive), and those results were within permit standards.

## LITERATURE CITED

- City of San Diego. (2008). Quality Assurance Manual for Bioassay Testing. Metropolitan Wastewater Department, Environmental Monitoring and Technical Services Division, San Diego, CA.
- Tidepool Scientific Software. (2002). ToxCalc Toxicity Information Management System Database Software
- USEPA. (1993). Methods for Measuring Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms. Fourth Edition. C.I. Weber (ed). Environmental Monitoring and Support Laboratory, U.S. Environmental Protection Agency, Cincinnati, OH. EPA/600/4-90/027F
- USEPA. (1995). Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms. Chapman, G.A., D. L. Denton, and J.M. Lazorchak (eds). Environmental Monitoring and Support Laboratory, U.S. Environmental Protection Agency, Cincinnati, OH. EPA/600/R-95/136

**TABLE T.1**

Results and compliance summary of acute bioassays conducted using PLWTP effluent during 2008. Data are presented in toxic unit acute (TUa) values. The 2001 California Ocean Plan compliance limit is 6.5 TUa.

Sample Date	Mysid 96-Hour Bioassay
02/10/2008	2.2
08/10/2008	1.2
N	2
No. in compliance	2
Mean TUa	1.7

**TABLE T.2**

Results of chronic toxicity testing of PLWTP effluent from January through December 2008. Data are presented in toxic unit chronic (TUc) values. NPDES permit limit is 205 TUc.

Sample Date	Giant Kelp		Red Abalone
	Germination	Growth	Development
1/9/2008	64	64	64
2/5/2008	64	64	64
3/4/2008	114	114	64
4/13/2008	114	114	114
5/13/2008	64	64	667
6/3/2008	64	64	64
7/7/2008	64	64	64
8/4/2008	64	64	64
9/2/2008	64	64	64
10/14/2008	64	64	64
11/4/2008	64	64	64
12/9/2008	64	64	64
1/9/2008	64	64	64
2/5/2008	64	64	64
N	12	12	12
No. in compliance	12	12	12
Mean TUc	72	72	118

G. 6-Year Tables.

ARSENIC (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	Inf
1	0.75	1.3	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	1.01	1.55	0.98	2.77	2.06	0.62	1.84	2.1
2	1.89	1.27	2.12	3.06	0.7	2.26	2.07	1.99	1.37	1.91	1.38	0.86	0.76	1.66	1.86	1.22	1.72	1.02	1.68	1.48	2.77	2.06	0.92	1.84	0.72
3	1	0.48	1.79	1.53	0.93	2.78	1.78	2.98	2.16	0.99	1.64	0.97	0.59	1.47	1.62	2.82	2.13	1.68	1.48	2.19	1.71	1.11	1.57	1.7	1.7
4	1.77	1.1	1.99	1.03	1.77	1.83	1.83	1.83	1.35	1.76	1.34	1.28	1.24	0.76	0.79	2.19	2.1	0.88	1.48	1.64	1.97	0.67	1.97	1.93	1.93
Avg	1.42	0.9	1.8	1.14	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	1.72	1.12	1.58	1.61	1.61

ARSENIC (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	Inf
1	1.05	0.84	1.32	1.42	0.84	1.45	1.38	1.93	2.36	1.09	1.11	1.4	1.04	0.83	<0.40	1.56	1.06	1.32	0.86	1.27	1.09	0.68	0.91	2.18	1.25
2	2.13	1.32	1.2	0.68	1.44	1.07	0.51	1.1	1.45	1.9	1.28	0.99	0.63	0.62	NA	1.7	1.42	1.31	1.27	1.09	2.77	2.06	0.68	1.59	1.28
3	2.05	1.88	0.77	2.16	1.89	1.83	1.32	1.41	0.88	1.84	1.2	1.75	1.38	1.76	1.36	1.02	0.69	2.73	1.76	1.36	0.99	1.71	1.57	1.57	1.57
4	2.3	1.7	2.57	1.29	0.99	0.46	1.49	0.9	1.25	2.06	1.22	1.26	0.89	1.64	1.24	3.68	1.82	1.17	1.82	1.92	1.92	0.88	1.92	0.88	0.88
Avg	1.88	1.44	1.51	0.66	1.16	1.46	1.03	1.42	1.52	1.72	1.2	1.22	0.85	1.21	0.87	1.56	1.09	2.26	1.43	1.24	1.82	0.83	1.85	1.25	1.25

ARSENIC (ug/L) 2005

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	Inf
1	3.22	1.88	1.53	0.67	1.78	2.26	2.1	1.37	2.79	1.04	0.68	1.29	0.74	1.03	0.64	1.66	1.33	1.09	0.5	3.41	1.83	1.83	1.07	0.47	0.47
2	1.58	0.89	1.88	0.94	1.32	0.87	2.12	1.36	0.49	1.63	1.75	1.61	1.06	1.06	0.53	1.82	1.25	1.87	1.26	2.56	2.07	0.87	0.87	ND	ND
3	1.23	1.04	2.85	1.46	1.96	1.83	1.26	0.66	1.89	1.66	1.99	1.99	1.82	0.97	0.74	2.89	2.38	1.13	0.66	1.22	0.83	1	0.43	0.43	0.43
4	2.01	1.27	1.9	1.35	2.25	1.34	1.9	1.13	1.91	1.43	0.91	1.58	1.22	1.3	0.88	1.87	1.37	1.44	0.74	2.4	1.58	1.15	1.15	0.51	0.51
Avg	2.01	1.27	1.9	1.35	2.25	1.34	1.9	1.13	1.91	1.43	0.91	1.58	1.22	1.3	0.88	1.87	1.37	1.44	0.74	2.4	1.58	1.15	1.15	0.51	0.51

ARSENIC (ug/L) 2006

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	Inf
1	1.61	0.70	1.08	0.66	1.22	0.45	0.95	0.46	1.24	1.07	ND	0.73	0.67	1.17	0.76	1.04	0.56	1.08	0.49	1.44	0.77	0.85	<0.40	<0.40	
2	1.13	0.63	1.00	0.65	1.03	0.4	1.67	0.61	0.82	0.44	0.46	1.23	0.59	0.84	0.56	1.10	0.51	1.07	0.50	1.23	0.65	0.87	ND	ND	
3	1.12	0.53	1.15	0.55	0.61	ND	1.17	0.6	0.83	0.5	0.57	0.99	0.65	0.95	0.77	1.00	0.51	1.34	<0.40	1.13	0.72	0.89	0.41	0.41	
4	1.12	0.57	1.91	0.88	0.84	0.69	0.84	0.69	1.12	0.82	0.5	0.76	0.62	0.96	0.63	1.22	0.53	1.22	0.65	1.18	0.62	0.91	0.43	0.43	
Avg	1.25	0.61	1.29	0.69	0.95	0.28	1.16	0.59	1.00	0.93	0.38	0.93	0.63	0.98	0.68	1.05	0.53	1.18	0.41	1.25	0.69	0.88	0.88	0.21	

ARSENIC (ug/L) 2007

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	Inf
1	1.21	0.51	0.89	1.32	0.70	1.18	1.18	0.73	0.92	1.39	0.95	1.09	0.69	1.00	ND	1.44	0.89	1.51	0.73	0.90	0.58	0.58	1.29	0.81	
2	1.15	0.68	0.83	0.48	1.03	0.73	1.12	0.71	1.15	1.20	1.03	0.81	0.93	1.23	0.6	1.00	0.57	1.16	0.67	0.96	0.55	1.29	0.96	0.86	
3	0.72	0.56	1.34	0.78	1.18	0.66	0.92	0.68	1.28	1.00	1.18	0.86	0.95	1.25	ND	1.05	0.53	1.10	0.79	0.81	0.56	1.00	0.73	0.73	
4	1.58	0.52	1.38	0.79	0.82	0.69	1.30	0.86	1.34	1.35	0.96	1.14	0.67	1.30	ND	1.28	0.72	0.93	0.64	1.26	0.71	1.23	0.66	0.66	
Avg	1.17	0.57	1.02	0.63	1.20	0.70	1.08	0.71	1.18	1.20	0.87	1.03	0.69	1.20	0.20	1.19	0.68	1.18	0.71	0.98	0.60	1.17	1.23	0.75	

ARSENIC (ug/L) 2008

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	Inf
1	0.97	0.71	1.13	0.50	1.28	0.48	0.93	0.58	0.98	1.36	0.90	0.90	0.72	1.06	0.75	1.29	0.86	1.19	0.87	1.22	0.81	1.22	0.81	0.81	
2	1.63	0.64	1.89	0.58	1.01	0.45	1.14	0.88	1.28	1.13	0.71	1.23	0.71	1.27	0.82	0.97	0.71	1.30	0.66	0.87	0.79	1.10	0.72	0.72	
3	0.91	0.50	1.23	0.58	1.07	0.43	1.27	0.69	1.39	1.06	0.91	1.19	0.73	1.16	0.96	1.03	0.84	1.24	0.73	1.01	0.72	2.85	1.55	1.55	
4	1.21	0.55	1.38	0.79	0.82	0.69	1.30	0.86	1.34	1.03	0.54	1.19	0.77	1.34	0.91	1.15	0.84	1.20	0.83	1.05	0.68	1.48	1.07	1.07	
Avg	1.18	0.60	1.41	0.61	1.05	0.51	1.16	0.75	1.34	1.15	0.77	1.13	0.73	1.21	0.86	1.12	0.81	1.23	0.77	0.98	0.73	1.66	1.04	1.04	

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	<5.0	17.3	ND	8.1	ND	6.1	ND	10	<5	<5.0	<5.0	ND	11.8	7.5	ND	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	<5.0	6	<5.0	10.5	<5.0	ND	ND	ND	5.2	ND	6.7	ND	ND	14.2	ND
3	20.1	ND	7.9	ND	6.8	ND	ND	<5.0	5.9	ND	11.5	13.6	<5.0	<5.0	ND	ND	ND	ND	ND	5.8	ND	9.6	9.5	ND
4	9.2	ND	<5.0	ND	7.1	ND	20.7	ND	8.2	ND	<5.0	<5.0	13.4	<5.0	ND	ND	ND	ND	ND	ND	ND	ND	8.9	<5.0
Avg	7.3	0	7.8	ND	7.1	ND	8.4	0	6	ND	2.2	6.8	3.4	8.9	1.9	ND	ND	3.3	1.4	3.1	2.4	8.2	0	0

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	10.4	ND	7.1	ND	7.2	ND	5.5	ND	19.1	ND	5.8	16.4	2.7	7.5	4.3	2	5.6	2	5.7	1.4	6.5	0.9	5.6	2.1
2	ND	ND	7.1	ND	7.2	ND	13.8	ND	ND	ND	12	17	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	1.4	1.6	6.4	17.1	5.6	1.6	14.4	4.5	6.1	1.7	6	1.6	
4	8.4	ND	6.2	<5.0	ND	ND	ND	ND	ND	11.7	5.5	6.1	6.1	22.2	2.6	4.5	1.7	5.5	1.8	4.9	1.6	4.5	1	
Avg	4.6	ND	7.9	0	3.4	ND	8.9	ND	4.8	2.9	8.3	10.1	3.6	13.4	11.2	5.1	2.4	8.7	2.6	5.9	1.5	6	1.6	

CADMIUM (ug/L) 2005

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	0.3	ND	0.3	ND	0.2	0.5	ND	ND	ND	ND	1	0.6	0.3	ND	0.7	0.4	ND	ND	0.6	ND	ND	ND	ND	ND
2	0.3	ND	0.5	0.3	ND	ND	ND	ND	0.4	ND	0.6	0.8	0.4	ND	0.4	<0.2	0.6	ND	0.3	ND	ND	ND	ND	ND
3	ND	0.4	1.3	ND	0.5	0.2	ND	ND	0.3	ND	1.1	0.6	0.3	ND	0.4	ND	0.4	ND	0.3	ND	0.6	ND	ND	ND
4	ND	0.9	0.69	0.5	0.4	ND	ND	ND	0.5	0.2	0.7	0.5	0.3	ND	0.3	ND	0.5	ND	ND	0.7	0.6	ND	ND	ND
Average	0.1	0.2	0.6	0.4	0.4	0.3	ND	ND	0.4	0.1	0.9	0.6	0.3	ND	0.5	0.1	0.4	ND	0.3	ND	0.4	0.2	ND	ND

CADMIUM (ug/L) 2006

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	0.2	ND	0.6	0.4	ND	ND	0.2	ND	0.5	ND	0.3	ND	0.3	0.3	0.7	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	0.2	ND	ND	ND	ND	ND	ND	ND	0.7	ND	ND	ND	0.4	0.2	ND	ND	0.2	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.3	ND	0.5	0.3	0.3	ND	0.4	ND	ND	ND	ND	ND	ND	ND
4	0.5	ND	ND	ND	0.2	ND	0.2	ND	0.45	ND	0.3	ND	0.2	ND	0.2	ND	0.5	ND	0.9	0.3	ND	ND	ND	ND
Average	0.1	ND	ND	ND	0.1	0	0.2	0.1	0.11	ND	ND	0.4	0.1	0.2	0.2	0.4	0.4	0.2	0.4	0.1	0.1	ND	ND	ND

CADMIUM (ug/L) 2007

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	2	1.4	1.3	0.6	ND	ND	<0.5	ND	ND	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	38.3	ND	ND	ND	ND	ND	2.6	1.7	ND	ND	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	0.6	ND	0.7	<0.5	ND	ND	ND	ND	ND	ND	0.7	ND	ND	ND	ND	0.6	0.6	ND	ND	ND	ND	ND	ND	ND
4	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	0.3	ND	0.2	<0.0	9.6	ND	0.2	0.2	0.2	ND	1.8	1.0	0.3	0.2	0.2	<0.2	0.2	0.2	0.4	0.1	0.1	ND	ND	ND

CADMIUM (ug/L) 2008

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	0.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.4	0.1	0.1	ND	ND	ND

CHROMIUM (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	<5.0	17.3	ND	8.1	ND	6.1	ND	10	<5	<5.0	<5.0	ND	11.8	7.5	ND	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	6	<5.0	10.5	<5.0	ND	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	11.5	13.6	<5.0	<5.0	<5.0	ND	ND	ND	ND	ND	5.8	9.6	9.5	ND
4	9.2	ND	<5.0	ND	7.1	ND	20.7	ND	8.2	ND	<5.0	9.5	<5.0	13.4	<5.0	ND	ND	ND	ND	ND	ND	ND	8.9	<5.0
Avg	7.3	0	7.8	ND	7.1	ND	8.4	0	6	ND	2.2	0	6.8	8.9	1.9	ND	ND	ND	3.3	1.4	3.1	2.4	8.2	0

CHROMIUM (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	10.4	ND	ND	ND	ND	ND	5.5	ND	ND	ND	5.8	2	16.4	2.7	7.5	4.3	5.6	2	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	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	1.4	17.1	6.4	6.4	17.1	5.6	1.6	14.4	4.5	6.1	1.7	6	1.6
4	8.4	ND	6.2	<5.0	ND	ND	ND	ND	11.7	ND	5.5	1.5	6.1	22.2	2.6	4.5	1.7	1.7	5.5	1.8	4.9	1.6	4.5	1
Avg	4.6	ND	7.9	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	1.6

CHROMIUM (ug/L) 2005

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	4.7	1.8	5.1	2.3	3.5	2.2	5.2	23.4	2.2	2.2	5.2	4	4.7	0.9	4.5	2.1	5.2	23	4.1	ND	4.1	ND	3.5	1.2
2	3.2	0.2	6.5	1.2	4.4	1	5.1	2.9	3.7	1.7	5.6	5.6	2.6	1.9	5.4	1.1	3.4	1.3	4.5	ND	4.8	0.2	11.6	1.9
3	4.5	1.3	3.6	2.9	4.7	1.9	5.1	2.1	7.2	6.8	6.6	3.9	5.3	2.1	3.4	0.4	4.2	1.1	4	ND	4.8	5.6	2.9	0.3
4	4.1	1.1	5.7	2.1	4.1	1.9	5.6	7.4	5.6	3.6	5.7	4.8	4.1	1.5	4.5	1.2	5.4	1.6	4.4	0.1	6.6	2.9	3.9	0.5
Average	4.1	1.1	5.7	2.1	4.1	1.9	5.6	7.4	5.6	3.6	5.7	4.8	4.1	1.5	4.5	1.2	5.4	1.6	4.4	0.1	6.6	2.9	3.9	0.5

CHROMIUM (ug/L) 2006

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	27.3	3.8	4.4	1.1	4.5	1.2	3.9	0.6	7.3	0.2	4.7	1.6	4.2	1.2	5.5	1.9	9.7	6.2	9.6	0.4	10.3	1.2	7.3	ND
2	4.6	1.3	4.2	1.4	4	0.4	181.0	0.7	6.3	0.7	10.6	1.6	13.1	1.1	5.9	2.0	11.5	3.1	8.6	7.6	13.1	2.1	4	ND
3	8.7	1.2	4.5	3.4	2.2	0.6	4.2	1.1	4.7	1.6	6.2	0.8	5.3	2.1	14.7	3.6	9	3.4	6.8	1.1	5.4	1.8	6.2	ND
4	5.7	2.6	4.3	2.0	4.3	2.0	6.1	2.2	10.8	1.5	10.9	4	7.9	0.9	7.3	1.5	16	4.2	1.6	2.3	6.6	2.9	5.4	ND
Average	11.6	2.2	4.4	2.0	3.6	0.7	48.8	1.2	7.3	1.0	8.1	2.0	7.6	1.3	8.4	2.3	10.1	4.2	10.3	2.9	8.9	2.0	5.7	ND

CHROMIUM (ug/L) 2007

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	8	ND	6.0	3.0	6.6	ND	12.5	2.1	6.6	ND	10.9	ND	6.6	ND	5.0	1.4	7.2	16.5	6.6	ND	7.3	1.4	12.6	1.9
2	7.4	ND	4.2	1.8	5.8	1.8	7.7	<1.2	5.1	ND	7.3	ND	11.2	ND	5.7	ND	7.2	ND	10.6	2.2	11.6	1.5	8.1	ND
3	7.7	ND	7.1	2.1	10.3	2.1	9.0	1.2	6.8	2.0	5.8	ND	9.4	ND	13.5	1.5	7.6	ND	5.2	1.3	4.7	ND	8.1	2.4
4	10.9	ND	ND	<5.0	ND	ND	7.9	1.5	7.5	ND	<5.0	9.5	<5.0	ND	8.1	2.7	9.1	ND	5.7	ND	8.6	1.7	7.2	3.0
Average	8.5	ND	5.8	2.3	8.1	1.5	9.3	1.6	6.5	0.5	8.0	ND	8.7	ND	8.1	1.4	7.8	4.1	7.0	0.9	8.1	1.2	9.3	2.4

CHROMIUM (ug/L) 2008

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	5.6	ND	16.7	3.2	11.7	3.5	3.9	ND	2.9	ND	2.9	ND	10.0	1.3	6.8	2.4	8.1	1.7	8.0	ND	4.9	ND	4.9	ND
2	6	ND	18.8	1.8	7.7	1.8	7.1	ND	10.3	ND	4.3	ND	6.1	ND	5.2	<1.2	5.5	1.5	5.5	<1.2	8.5	2.3	6.3	ND
3	5.9	ND	4.7	1.7	6.3	2.0	9.3	ND	12.1	2.4	4.9	2.4	6.4	ND	8.8	2.1	4.4	1.4	3.2	1.4	5.0	1.5	4.5	1.2
4	14.8	ND	4.4	1.6	7.6	ND	3.2	ND	3.9	ND	13.7	3.2	4.7	ND	6.9	1.3	8.9	2.0	44.4	6.5	7.6	3.0	3.4	1.3
Average	8.1	ND	11.2	2.1	8.3	1.8	5.9	ND	8.8	0.8	6.5	1.4	6.8	0.3	6.9	1.5	6.7	1.7	15.3	2.0	7.0	2.3	4.8	0.6

COPPER (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	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	161	69	125	61	159	36	291	131	74	115	170	170	78	51	198	69	372	79
4	98	28	126	35	126	45	161	60	162	49	160	57	188	53	156	71	115	170	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	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	144	49	202	118	140	47	158	47	107	86	95	54	105	56	93	29	100	43	113	22	116	51	115	27
2	127	61	181	24	134	110	133	48	124	17	103	47	71	28	145	52	124	25	90	30	106	30	123	21
3	118	61	181	24	134	110	133	48	124	17	103	47	71	28	145	52	124	25	90	30	106	30	123	21
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

COPPER (ug/L) 2005

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	74	39	98	37	85	30	134	27	95	28	108	50	97	22	112	23	96	30	142	18	173	25	62	34
2	74	39	98	37	85	30	134	27	95	28	108	50	97	22	112	23	96	30	142	18	173	25	62	34
3	73	25	122	30	69	22	120	44	82	25	118	31	68	34	102	19	89	13	61	31	132	32	62	22
4	85	36	67	28	82	22	92	28	114	34	111	25	204	33	97	22	105	19	115	25	92	24	49	22
Average	77	33	93	42	75	24	111	32	97	29	111	33	122	27	101	21	102	20	103	22	133	27	61	26

COPPER (ug/L) 2006

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	115	28	49	20	66	19	64	22	169	19	104	26	117	24	95	18	108	17	112	14	109	15	84	ND
2	83	22	86	30	62	18	82	24	123	17	114	27	205	18	97	22	106	13	143	42	76	39	76	ND
3	72	19	47	20	60	11	71	23	104	19	89	20	101	26	100	24	73	29	57	8	67	12	79	ND
4	92	20	51	17	115	17	115	42	101	28	105	28	71	23	106	15	123	20	123	14	77	19	62	ND
Average	91	22	58	22	63	16	83	28	124	21	103	25	124	23	100	20	96	20	109	20	82	21	75.3	ND

COPPER (ug/L) 2007

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	92	15	52	26	79	14	104	15	79	9	139	15	106	14	96	48	85	18	117	18	90	11	80	13
2	80	14	32	16	87	16	93	15	89	8	100	12	118	33	112	10	96	16	97	14	94	18	75	11
3	60	15	47	13	94	14	92	12	97	9	102	11	135	27	84	51	120	10	76	7	68	21	87	12
4	99	14	126	35	126	45	99	17	91	9	112	65	112	65	102	11	117	8	93	6	91	11	79	17
Average	83	15	44	18	90	14	97	15	89	9	114	13	118	35	99	30	105	13	96	11	86	15	80	13

COPPER (ug/L) 2008

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	60	11	66	17	88	20	75	22	111	20	73	22	111	15	113	20	70	20	91	19	130	25	111	25
2	100	14	153	16	93	23	93	21	86	22	100	24	102	15	106	14	97	21	105	17	91	18	111	22
3	84	10	76	15	84	21	98	18	77	18	117	35	109	14	131	16	89	22	48	17	88	19	81	24
4	71	8	63	18	77	15	91	17	70	21	121	17	103	22	125	16	110	78	106	23	106	22	78	20
Average	79	11	90	17	86	20	89	20	76	20	103	25	106	17	119	17	92	35	88	19	95	20	100	23

LEAD (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	28.5	ND	ND	ND	ND	ND	<18	ND	ND	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<18	ND	ND	ND	ND	ND	ND	18
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	21	ND	ND	ND	ND	<18	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	31.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Avg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12.4	7.9	ND	ND	ND	0	0	ND	ND	ND	ND	ND	ND	4.5

LEAD (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	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.9	ND	3.2	ND	4.5	ND	4	ND	4.2	ND	4.2	2.8
2	ND	ND	ND	23	ND	ND	ND	ND	ND	ND	3.6	ND	4.7	ND	4.9	ND	2	ND	5.2	1.9	2.3	ND	ND	ND
3	ND	<18.0	ND	ND	ND	ND	ND	ND	ND	ND	5	1.9	ND	2.8	5.4	ND	2.3	ND	8.7	2	3	ND	3.3	ND
4	ND	ND	ND	ND	ND	ND	ND	18	ND	ND	6	ND	2.8	ND	6.3	ND	ND	ND	4.1	ND	2.9	ND	2	ND
Avg	6.3	0	ND	7.7	ND	ND	ND	4.5	ND	ND	3.7	0.5	4.5	ND	5	ND	3	ND	5.5	1.95	3.1	0	2	ND

LEAD (ug/L) 2005

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	1.5	ND	ND	ND	ND	ND	2.1	<1.4	5	ND	3.4	ND	3.5	ND	1.8	ND	4.7	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	ND	ND	ND	4.3	ND	3.3	ND	3.4	ND	1.6	ND	4	ND	2.6	ND	2.3	ND	2.3	ND	3.1
3	ND	ND	ND	ND	ND	ND	ND	2.9	ND	2.5	ND	2.8	ND	1.6	ND	3.9	ND	ND	ND	ND	3.4	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	ND	4.8	ND	3.3	ND	2.4	ND	ND	ND	6.1	ND	3.5	ND	5	ND	ND	ND	ND
Average	ND	0.4	ND	0.4	ND	ND	0	4	ND	2.8	0	3.4	ND	1.7	ND	4	ND	2.7	ND	3.6	ND	0.8	ND	ND

LEAD (ug/L) 2006

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	3.6	2.6	2.5	ND	2.3	ND	3.1	ND	6	ND	2.3	ND	2.2	ND	5.8	0	4.9	ND	3.7	ND	4.9	ND	2.8	ND
2	3.5	ND	2.7	ND	3.5	ND	7.5	1.9	4.2	1.9	3.2	1.8	11.7	1.8	5.7	1.5	5.7	ND	2.2	ND	3.2	ND	ND	ND
3	1.7	ND	3.4	2.1	ND	ND	5.1	ND	4.3	ND	4.9	ND	10.9	5.3	5.8	3	3.7	ND	ND	ND	1.9	ND	2.4	ND
4	3.1	2.3	3.4	ND	ND	ND	5.8	ND	3.8	ND	4.1	ND	4.1	ND	4.4	1.7	ND	ND	ND	ND	2.7	ND	ND	ND
Average	3.0	1.2	3.0	0.5	1.9	ND	5.4	0.5	4.6	0.5	3.9	0.5	7.2	1.8	5.4	1.6	4.8	ND	1.5	ND	3.2	ND	1.3	ND

LEAD (ug/L) 2007

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	4.6	ND	ND	ND	6.6	ND	3.1	ND	ND	ND	2.9	ND	ND	ND	3.7	ND	ND	ND	3.8	ND	2.9	ND	ND	ND
2	ND	ND	ND	ND	5.8	ND	2.2	ND	ND	ND	6.7	ND	ND	ND	2.7	ND	ND	ND	2.7	ND	2.1	ND	ND	ND
3	ND	ND	ND	ND	5.3	ND	4.2	ND	ND	ND	2.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.2	ND	ND	ND
4	5.6	ND	ND	ND	3.9	ND	2.5	ND	ND	ND	ND	ND	ND	2.2	ND	2.5	ND	ND	ND	ND	5.4	ND	ND	ND
Average	2.6	ND	ND	ND	5.4	ND	2.5	ND	2.2	ND	1	ND	2.4	ND	1.5	ND	2.5	ND	1.5	ND	3.2	ND	ND	ND

LEAD (ug/L) 2008

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	6.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.4	ND	2.4	ND	ND	3.4	ND	4.8	ND	ND	ND
2	2.9	ND	5.3	ND	ND	ND	ND	4.3	ND	ND	ND	ND	ND	2.9	ND	4	ND	3.3	ND	3.3	ND	4.2	ND	ND
3	ND	ND	ND	ND	ND	ND	ND	3	ND	ND	ND	ND	ND	3.3	ND	ND	ND	3	2.5	ND	<2.0	3.6	ND	ND
4	2.5	ND	ND	ND	ND	ND	ND	5.6	ND	ND	ND	ND	ND	3.3	ND	ND	ND	3	3	ND	4.9	3.3	ND	ND
Average	3	ND	1.3	ND	4.3	ND	4.3	ND	4.3	ND	0.6	ND	2.98	ND	2.98	ND	0.6	ND	3.23	ND	3.7	0	4.0	ND



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	ND	18	ND	ND	<14	ND	ND	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<14	ND	16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	<14	ND	ND	ND	<14	ND	ND	ND	ND	<14	18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	<14	ND	ND	ND	ND	<14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Avg	0	ND	0	0	0	0	0	0	9	ND	0	0	5	0	ND	0	0	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	ND	ND	9	14	10	11	8	12	8	14	10	10	15	12	9	6
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13	8	8	21	22	14	9	12	8	11	7	8	10	7
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15	7	14	17	11	9	17	11	10	10	10	7	11	6
4	19	22	ND	<14	ND	ND	17	ND	ND	ND	9	8	12	20	10	10	7	13	9	8	8	6	8	6
Avg	10	6	ND	0	ND	8	8	ND	ND	ND	12	13	9	17	14	12	8	14	9	11	11	8	10	6

NICKEL (ug/L) 2005

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	9	7	12	10	6	6	8	18	7	10	12	13	8	10	9	8	7	9	7	7	15	12	11	12
2	8	7	16	4	8	7	8	7	7	10	21	9	5	8	7	13	11	11	6	6	16	7	13	7
3	8	7	11	11	13	8	7	7	8	7	12	18	8	9	7	8	7	8	6	6	10	11	10	8
4	9	8	11	11	13	8	7	7	10	12	14	11	10	6	7	9	7	12	7	9	9	8	15	9
Average	9	8	11	9	9	7	8	9	9	9	12	16	9	8	8	13	8	10	7	12	12	9	12	9

NICKEL (ug/L) 2006

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	19	7	9	8	8	7	8	7	10	8	18	12	11	9	7	24	14	19	10	17	12	10	11	12
2	11	8	7	7	9	7	13	5	13	6	14	20	10	12	8	19	12	16	10	16	10	8	9	9
3	12	7	9	7	8	6	9	6	10	8	21	13	9	25	13	9	7	22	17	9	10	14	11	11
4	10	7	8	7	14	13	14	13	9	7	8	19	10	13	9	18	11	28	17	10	10	13	18	18
Average	13	7	9	7	8	7	8	8	11	7	17	17	10	15	9	17	11	21	14	13	10.5	12	12	12

NICKEL (ug/L) 2007

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	10	6	23	17	8	7	16	10	11	7	10	10	6	10	8	17	14	13	7	14	8	8	21	13
2	17	11	9	10	10	8	12	9	9	6	12	11	6	15	8	12	7	12	9	9	13	8	6	10
3	15	11	11	9	15	11	17	10	10	6	9	16	7	16	11	11	5	8	6	6	6	6	17	10
4	16	9	9	14	34	19	11	7	10	6	14	8	8	11	9	18	9	11	7	11	7	7	12	7
Average	15	9	14	12	17	11	14	9	10	6	11	13	7	13	8	15	9	11	7	12	7	7	17	10

NICKEL (ug/L) 2008

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	11	8	32	23	25	12	10	7	21	19	9	18	12	12	7	18	10	13	9	9	10	7	11	5
2	11	8	23	11	12	9	9	5	12	12	6	13	9	10	7	11	7	9	7	7	10	7	11	6
3	12	8	7	6	14	7	12	7	12	8	11	12	8	17	10	16	11	9	8	7	5	8	5	6
4	20	14	8	6	10	7	8	5	11	8	17	17	6	11	7	22	11	31	18	14	9	7	5	5
Average	14	10	18	12	15	9	10	6	15	12	15	13	9	13	8	17	10	16	11	11	10	7	9	5

MERCURY (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	0.25	ND	0.27	ND	0.51	ND	0.22	ND	0.23	ND	0.23	ND	0.23	ND	0.22	ND	0.22	ND	0.37	ND	0.12	ND	0.12	ND
2	0.13	ND	0.32	ND	0.11	ND	0.19	ND	0.64	0.2	0.16	ND	0.14	ND	0.25	ND	0.3	0.32	0.3	0.16	0.31	ND	0.28	ND
3	ND	ND	0.42	ND	0.51	ND	0.22	<0.09	1.14	0.7	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	0.36	ND	0.2	ND	0.29	ND	0.26	ND	ND	ND	ND	ND	ND	ND	NA	NA	0.1	ND
Avg	0.12	ND	0.25	ND	0.38	ND	0.25	0	0.5	0.23	0.17	ND	0.07	0.07	0.15	ND	0.64	0.11	0.08	ND	0.28	ND	0.1	ND

MERCURY (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	0.38	ND	0.77	ND	0.75	ND	0.23	ND	0.11	ND	0.22	ND	0.11	ND	0.11	ND	0.32	ND	0.41	ND	0.1	ND
2	0.26	ND	0.11	ND	0.11	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	0.2	ND	0.2	ND	0.11	ND	0.23	ND	0.23	ND	0.24	ND	0.24	ND	0.14	ND	0.15	ND	ND	ND	0.15	ND
4	0.24	ND	0.39	ND	0.18	ND	0.21	ND	0.11	ND	0.19	ND	0.19	ND	0.22	ND	0.22	ND	0.15	ND	0.21	ND	0.15	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	0.1	ND

MERCURY (ug/L) 2005

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	0.62	ND	0.16	ND	0.16	ND	0.27	ND	0.3	ND	0.11	ND	0.12	ND	ND	ND	1.03	ND	0.15	ND	0.15	ND
2	ND	ND	0.11	ND	0.11	ND	0.19	ND	ND	ND	0.13	ND	ND	ND	0.1	ND	0.22	ND	0.23	<0.09	0.23	ND	0.1	ND
3	ND	ND	0.27	ND	0.11	ND	0.19	ND	0.1	ND	0.25	ND	ND	ND	0.16	ND	ND	ND	0.39	ND	0.11	ND	0.3	ND
4	ND	ND	0.1	ND	0.1	ND	0.13	ND	0.71	ND	0.13	ND	0.89	ND	ND	ND	0.15	ND	0.21	ND	ND	ND	0.3	ND
Average	ND	ND	0.28	ND	0.03	ND	0.09	ND	0.27	ND	0.2	ND	0.25	ND	0.1	ND	0.09	ND	0.47	0	0.11	ND	0.14	ND

MERCURY (ug/L) 2006

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	0.87	ND	ND	ND	0.37	ND	0.11	ND	0.27	ND	ND	ND	ND	ND	0.1	ND	0.59	ND	ND	ND	0.18	ND	0.44	ND
2	0.14	ND	ND	ND	0.11	ND	0.11	ND	ND	ND	ND	ND	0.55	ND	0.13	<0.09	ND	ND	0.66	ND	0.22	ND	ND	ND
3	0.19	ND	0.35	ND	ND	ND	0.16	ND	0.23	ND	ND	ND	ND	0.28	ND	ND	ND	ND	0.15	ND	ND	ND	1.11	ND
4	ND	ND	0.11	ND	0.12	ND	0.12	ND	0.36	0.14	0.1	ND	0.12	ND	0.18	ND	0.2	ND	0.09	ND	0.25	ND	0.18	ND
Average	0.3	ND	0.12	ND	0.12	ND	0.12	ND	0.22	0.04	0.03	ND	0.16	ND	0.17	0	0.2	ND	0.30	ND	0.16	ND	0.43	ND

MERCURY (ug/L) 2007

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	0.13	ND	0.10	ND	0.27	ND	ND	ND	0.17	ND	0.11	ND	ND	ND	0.6	ND	0.12	ND	ND	ND
2	ND	ND	ND	ND	0.10	ND	0.10	ND	0.12	ND	ND	ND	0.32	ND	0.22	ND	0.20	ND	0.22	ND	0.11	ND	ND	ND
3	ND	ND	0.12	ND	0.1	ND	0.10	ND	0.17	ND	ND	ND	0.1	ND	ND	ND	0.26	ND	0.13	ND	ND	ND	ND	ND
4	ND	ND	0.16	ND	0.16	ND	0.13	ND	ND	ND	ND	0.24	ND	1.9	ND	0.20	0.20	ND	0.2	ND	ND	ND	ND	ND
Average	ND	ND	0.04	ND	0.1	ND	0.11	ND	0.14	ND	ND	ND	0.21	ND	0.13	ND	0.17	ND	0.29	ND	0.06	ND	ND	ND

MERCURY (ug/L) 2008

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	0.14	ND	ND	ND	0.14	ND	0.11	ND	0.24	ND	0.31	ND	0.13	ND	0.13	ND	0.12	ND	0.12	ND	ND	ND
2	0.11	ND	0.26	ND	ND	ND	0.14	ND	0.14	ND	ND	ND	0.14	ND	0.19	ND	0.21	ND	0.13	ND	ND	ND	0.1	ND
3	0.16	ND	0.25	ND	0.12	ND	0.19	ND	0.14	ND	0.16	ND	0.3	ND	0.25	ND	0.13	ND	0.56	ND	0.12	ND	ND	ND
4	0.21	ND	0.11	ND	<0.09	ND	0.79	ND	ND	ND	0.3	ND	0.25	0.13	0.12	0.28	0.28	ND	0.17	ND	0.12	ND	ND	
Average	0.12	ND	0.16	ND	0.06	ND	0.3	ND	0.08	ND	0.18	ND	0.25	0.03	0.17	ND	0.19	ND	0.25	ND	0.04	ND	0.03	ND

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	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	7.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Avg	ND	ND	ND	ND	ND	ND	ND	0	1.9	ND	ND	ND	ND	ND	ND	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	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	ND	0.2	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	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	0.4	1.9	ND	0.7	ND

SILVER (ug/L) 2005

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	2.1	ND	2.2	0.7	0.6	ND	1.3	ND	0.8	ND	2.7	ND	0.6	ND	0.6	ND
2	ND	ND	ND	ND	ND	ND	ND	0.3	2.3	0.3	2.1	ND	1.9	ND	2.1	ND	2.9	<-0.2	0.6	ND	1.3	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	ND	<-0.2	2.2	ND	2.7	ND	0.9	ND	0.6	ND	2.3	ND	ND	ND	1.5	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	ND	0.9	2.4	ND	1	ND	1	ND	0.6	ND	2.4	ND	1.2	ND	10	ND	ND	ND
Average	ND	ND	ND	ND	ND	ND	0.3	2.3	0.1	2.3	0.2	1.1	1.1	ND	1	ND	2.1	0	1.1	ND	1.3	ND	0.2	ND

SILVER (ug/L) 2006

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	1.6	ND	ND	ND	0.2	<-0.2	ND	ND	ND	ND	ND	ND	2.6	0.4	1.1	ND	1.1	ND	2.6	ND	2.1	0.3	3.6	ND
2	1.2	ND	ND	ND	0.3	0.2	ND	ND	3	ND	2.9	ND	4.1	ND	1.3	ND	0.4	ND	3.0	ND	1.4	ND	3.2	ND
3	0.7	ND	ND	ND	1.3	ND	1.5	ND	2.3	ND	1.7	0.4	1	0.2	1.8	ND	0.8	0.4	1.5	ND	1.2	ND	2.8	0.6
4	0.5	ND	ND	ND	0.2	ND	5.7	ND	1.8	0.9	0.4	0.9	0.2	ND	1.9	ND	0.8	0.4	3.3	0.2	3.1	0.2	4	0.5
Average	1.0	ND	0.1	ND	0.6	0.1	1.8	ND	1.8	0.2	1.3	0.3	2.0	0.2	1.5	ND	0.8	0.1	2.6	0.1	2.0	0.1	3.4	0.3

SILVER (ug/L) 2007

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	2.1	ND	0.5	ND	1.2	ND	2.4	ND	2.6	ND	3.6	ND	1.6	ND	1.4	ND	ND	ND	1.7	ND	1.6	ND	ND	ND
2	1.2	ND	ND	ND	1.1	ND	1.7	ND	2.4	ND	2.0	ND	2.1	ND	2.4	ND	1.9	ND	0.7	ND	1.9	ND	ND	ND
3	1.8	0.5	ND	ND	2.1	ND	2.1	ND	2.8	ND	1.2	ND	2.4	ND	1.2	ND	1.9	ND	ND	ND	ND	ND	ND	ND
4	1.2	ND	0.2	ND	3	ND	1.9	ND	3	0.6	1.9	ND	1.9	ND	1.1	ND	2.1	ND	1.8	ND	0.9	ND	0.6	ND
Average	1.6	0.1	0.2	ND	1.9	ND	1.3	ND	2.7	0.6	2.3	ND	2.0	ND	1.5	ND	1.5	ND	1.1	ND	1.1	ND	0.2	ND

SILVER (ug/L) 2008

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	1.9	0.7	ND	ND	0.8	ND	0.8	ND	2.2	ND	1.3	ND	1.1	ND	1.3	<-0.4	2.8	0.4	ND	0.4
2	1.3	ND	2.6	ND	1.3	0.8	1.6	ND	1.3	ND	1.9	ND	2.0	0.6	1.2	ND	1.8	ND	1.6	<-0.4	0.7	1.1	ND	ND
3	1.0	ND	1.4	ND	1.7	1.1	2.4	ND	1.3	ND	2.7	ND	1.4	ND	1.3	ND	0.6	0.0	0.9	ND	0.6	ND	1.0	ND
4	1.2	ND	0.9	ND	1.6	0.7	1.4	ND	0.5	ND	1.9	0.6	1.0	0.5	1.7	ND	1.9	0.6	1.4	ND	1.8	ND	0.8	ND
Average	0.9	ND	1.2	ND	1.6	0.8	1.4	ND	1.0	ND	1.8	0.2	1.7	0.3	1.4	ND	1.4	0.1	1.3	0.0	1.0	1.4	1.4	0.1

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	172	23	140	13	138	22	148	27	148	27
2	115	9	132	15	127	28	170	35	154	21	135	19	148	19	148	19	139	20	139	20	139	27	231	81
3	104	<4	105	11	153	29	144	45	145	26	142	12	158	26	124	25	132	22	152	22	135	23	135	22
4	88	<4	115	11	156	31	156	31	144	23	118	20	130	30	124	12	126	16	124	16	133	21	133	28
Avg	105	2	118	12	129	28	157	34	146	24	131	19	153	27	148	22	134	18	138	23	162	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	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	110	21	134	ND
4	183	53	135	33	138	49	171	23	128	22	16	16	130	16	191	17	98	21	120	17	120	17	105	ND
Avg	159	46	143	27	138	36	154	20	138	21	130	18	130	18	155	19	129	18	122	19	129	19	129	ND

ZINC (ug/L) 2005

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	96	25	124	29	97	28	144	46	133	22	121	48	116	16	149	25	138	24	188	14	148	23	148	31
2	97	20	196	18	130	22	144	28	118	19	127	58	68	24	146	18	131	17	74	22	129	29	121	19
3	116	25	90	27	117	24	134	24	142	26	122	28	128	25	71	16	145	20	150	23	120	19	118	19
4	103	23	137	24	112	25	141	31	133	22	125	50	111	21	125	20	146	21	138	19	168	23	134	23
Average	103	23	137	24	112	25	141	31	133	22	125	50	111	21	125	20	146	21	138	19	168	23	134	23

ZINC (ug/L) 2006

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	182	23	17	20	149	26	159	28	256	21	143	26	180	31	151	26	170	23	163	15	181	16	160	18
2	145	23	117	24	201	56	371	31	173	22	169	26	352	26	164	29	158	20	178	36	136	10	125	18
3	129	24	122	24	124	34	182	31	155	27	159	25	149	27	158	27	158	18	82	13	124	9	126	16
4	128	21	129	26	117	24	327	64	149	26	173	36	93	26	166	25	168	20	168	20	135	9	121	17
Average	146	23	121	24	158	39	260	39	183	24	161	28	194	28	160	27	162	20	148	21	144	11	133	17

ZINC (ug/L) 2007

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	163	18	87	21	149	22	176	18	140	13	183	17	166	17	149	22	152	27	180	24	144	16	129	19
2	153	17	82	21	137	18	167	25	153	13	178	16	195	40	172	20	150	25	166	26	159	16	129	17
3	149	19	91	22	146	17	164	19	170	15	154	14	191	21	178	24	159	19	130	17	113	20	127	17
4	159	29	87	21	159	17	164	22	154	12	168	23	146	22	168	23	187	17	134	18	170	25	126	16
Average	156	21	87	21	148	19	168	21	154	13	172	16	175	25	167	22	162	22	153	21	147	19	127	17

ZINC (ug/L) 2008

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	108	19	111	25	147	25	122	25	162	31	123	24	155	21	160	25	167	23	185	19	166	29	166	29
2	138	26	267	28	133	23	141	24	162	31	152	29	141	23	157	22	140	24	146	21	136	26	137	28
3	133	18	123	20	143	22	151	27	159	34	150	31	151	20	167	23	125	27	147	21	134	22	122	32
4	122	18	87	21	135	26	135	23	131	32	200	31	148	53	150	22	150	27	140	27	159	25	115	26
Average	125	20	147	24	140	24	137	25	151	32	159	29	149	29	162	23	146	24	155	22	143	24	135	29

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	26.9	28	27.4	28	30.8	31.1	29.7	30.2	28.6	28	27.7	28	28.8	29.7	26	26	28	26.9
2	27.4	27.7	26.6	25.5	20.2	20.4	30.2	30	29.7	30.2	30.2	30.2	29.4	28.8	27.4	28	28.6	28.6	26.9	28.3	28.3	28.3	28.6	29.1
3	23	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	25.5	25.5	26.3	26.6
4	27.2	26.9	24.9	24.6	28.8	30.5	28.8	30.5	30.5	30.5	27.7	29.1	28.8	28.6	27.7	27.2	27.2	29.4	26.9	27.4	*	*	29.4	28.3
Avg	26.3	26	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	29.1	29.4	25.2	25.5	27.7	26.6	28.2	26.5	28.8	29.1	28.6	28	29.4	29.1	28.3	27.2	30.2	30.2	23	24.1	26.9	26.6
2	29.7	29.4	27.7	28	27.2	28	27.2	27.4	29.7	30	27.4	28.3	26.9	27.4	29.1	29.3	26	27.4	26	27.4	28.3	28.3	27.7	27.4
3	26.9	26.6	30.5	27.4	28.3	24.8	24.9	26.6	28.6	30.8	30	28.8	28.6	28.3	30	28.6	26.9	28	22.1	23	27.2	26.6	28	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	28.3	28	28.3	28	19	19.3	27.4	27.2	25.2	24.6
Avg	29	28.6	26.7	25.7	27.4	27.5	26.3	26.8	29.5	29	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	26.7

AMMONIA (mg/L) 2005

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	21.6	21.3	28.5	27.7	17.4	17.4	27.7	28	28.3	28.3	28.3	28.3	27.7	29.1	28.8	28.6	28.3	29.1	29.1	28.6	28.6	28.6	31.4	30.5
2	25.2	24.6	26.6	27.4	28	26.6	29.1	28.6	28.6	27.4	30.8	30.2	28.6	28.3	29.4	28.6	29.4	29.1	29.7	30	28.6	28.3	29.7	29.4
3	27.1	26.6	21.6	21.3	26.9	26.6	27.1	26.9	28.3	28	29.7	29.4	29.1	27.4	27.4	27.7	27.4	28	27.7	27.7	27.4	30.2	29.7	29.4
4	27.1	26.6	21.6	21.3	26.9	26.6	27.1	26.9	28.3	28	29.7	29.4	29.1	27.4	27.7	27.7	29.3	28.8	NA	NA	27.7	30	29.7	29.4
Average	24.6	24.2	26.2	26	24.2	23.8	28	27.7	28.5	27.9	29.7	29.3	28.8	28.4	28.3	28.1	28.7	28.6	28.8	28.7	28.8	28.7	30.1	28.9

AMMONIA (mg/L) 2006

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	26.9	29.4	33.2	31.9	31.3	29.4	30.1	30.2	34.3	29.1	28.6	28.3	31.3	30.8	31.6	30.2	31.9	31.4	31.9	32.8	31.9	30.2	34.9	33.9
2	29.7	28.3	39.2	36.7	33	32.5	29.1	28.8	31.4	30.8	30.5	29.4	31.0	30.5	32.5	30.5	30.2	30.2	31.4	30.8	31.6	31.6	33.9	33.3
3	30.5	29.7	31.1	30.8	32.5	31.5	31.1	30.8	31.4	31.1	31.1	30.5	30.5	30.2	29.4	30	30	29.7	31.1	30.8	30.8	30.8	32.7	32.2
4	31	30.5	30	29.7	32.3	31.9	32.3	31.9	30.8	30.2	30.0	29.1	29.6	28.8	NA	NA	NA	30.4	NA	NA	NA	31.6	31.4	31.1
Average	29.5	29.5	33.4	32.3	32.3	31.1	30.7	30.4	32.0	30.3	30.1	29.3	30.6	30.1	31.2	30.2	30.7	30.4	31.5	31.5	31.5	30.9	33.2	32.6

AMMONIA (mg/L) 2007

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	31.9	31.6	33.3	33.0	29.7	30.0	33.6	33.3	32.7	31.4	32.9	32.5	30.8	30.5	31.4	30.5	29.4	29.7	32.5	31.6	32.8	31.9	8.3	27.4
2	31.1	31.1	31.6	31.4	30.4	30.5	NA	NA	32.2	31.6	33.3	32.8	31.9	31.4	33.3	31.6	31.9	31.4	31.4	30.8	34.4	32.8	8.3	27.4
3	31.4	32.2	29.4	28.6	32.4	31.1	33.5	32.8	30.8	30.8	32.2	31.6	34.4	33.3	31.1	29.7	33.6	32.8	34.4	33.3	29.4	29.4	30.7	29.4
4	29.4	29.7	33.3	33.3	32.5	32.5	31.9	32.8	NA	NA	32.9	32.9	33.0	33.0	30.9	30.0	32.4	31.6	32.5	31.1	28.3	28.3	28.6	28.6
Average	31.0	31.2	31.4	31.0	31.3	31.0	33.1	32.7	31.9	31.3	32.9	32.5	32.7	32.2	31.7	30.5	31.8	31.4	32.7	31.7	31.2	30.6	22.6	28.5

AMMONIA (mg/L) 2008

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	31.1	30.8	40.5	29.7	30.7	30.8	32.2	31.9	32.8	31.4	31.3	31.7	32.9	33.0	30.8	32.2	31.9	31.6	31.6	30.0	31.6	31.9	32.5	31.1
2	27.1	27.4	31.4	30.8	30.5	30.8	33.0	31.6	32.8	31.4	31.9	31.1	31.9	31.4	30.8	32.2	31.6	31.1	32.8	30.5	30.8	30.0	32.4	31.4
3	31.9	31.6	30.0	29.4	30.9	30.8	31.6	33.6	33.9	32.2	31.3	30.7	32.5	32.2	31.6	31.4	31.6	30.8	32.7	30.8	31.1	29.4	25.5	24.6
4	30.2	29.4	29.4	27.4	32.0	32.2	34.7	34.2	30.6	31.3	31.6	31.1	32.1	31.1	32.9	33.6	31.3	30.0	30.8	31.6	31.9	30.8	28.6	28.3
Average	30.1	29.8	32.8	29.3	31.0	31.2	32.9	32.8	32.4	31.6	31.5	31.2	32.4	31.9	31.5	32.4	31.6	30.9	32.0	30.7	31.3	30.1	29.8	28.9



EFFLUENT RADIATION (pCi/L) 2003

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta
1	1.2	13.4	3.5	20.8	1.4	20	3	16.2	1	20	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	3	16.2	1	20	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	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta
1	3	16.1	1.9	16.4	2.2	14.8	0.3	21.5	0.8	15.9	1	1	14.5	0.9	26.3	0.9	23.1	1.7	21.1	0.9	17	1.7	25.7	
2																								
3																								
4																								
Avg	3	16.1	1.9	16.4	2.2	14.8	0.3	21.5	0.8	15.9	1	1	14.5	0.9	26.3	0.9	23.1	1.7	21.1	0.9	17	1.7	25.7	

EFFLUENT RADIATION (pCi/L) 2005

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta
1	1.5	15	3.2	18.9	2.5	8.8	1.1	16.8	2.9	13.9	3	19.3	1.3	14.3	1.3	20.2	2	11.7	1.9	13.1	0.7	25.7	2.7	18.1
2																								
3																								
4																								
Average	1.5	15	3.2	18.9	2.5	8.8	1.1	16.8	2.9	13.9	3	19.3	1.3	14.3	1.3	20.2	2	11.7	1.9	13.1	0.7	25.7	2.7	18.1

EFFLUENT RADIATION (pCi/L) 2006

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta
1	0.7	12.3	0.7	38.3	2.7	10.5	2.7	10.9	1.5	16.3	1.0	12.1	1.6	14.6	1.5	13.3	0.7	10.7	0.2	13.4	2.7	17.7	1.9	12.8
2																								
3																								
4																								
Average	0.7	12.3	0.7	38.3	2.7	10.5	2.7	10.9	1.5	16.3	1.0	12.1	1.6	14.6	1.5	13.3	0.7	10.7	0.2	13.4	2.7	17.7	1.9	12.8

EFFLUENT RADIATION (pCi/L) 2007

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta
1	0.6	5.5	1.5	23.9	2.3	27.7	2.8	26.3	1.1	29.8	1.5	20.7	1.1	28.6	1.4	27.5	0.8	25.4	0.2	28.0	2.5	24.8	1.1	19.5
2																								
3																								
4																								
Average	0.6	5.5	1.5	23.9	2.3	27.7	2.8	26.3	1.1	29.8	1.5	20.7	1.1	28.6	1.4	27.5	0.8	25.4	0.2	28.0	2.5	24.8	1.1	19.5

EFFLUENT RADIATION (pCi/L) 2008

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta
1	1.3	25.3	1.7	22.8	1.8	21.8	2.3	28.6	1.3	23.4	1.4	30	0.5	30.3	6.1	31.3	4.5	28.1	2.7	22.2	3.6	30	6.4	24
2																								
3																								
4																								
Average	1.3	25.3	1.7	22.8	1.8	21.8	2.3	28.6	1.3	23.4	1.4	30	0.5	30.3	6.1	31.3	4.5	28.1	2.7	22.2	3.6	30	6.4	24







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	24	nd	24	nd	38	20	29	nd	38	30	nd	nd	nd	nd	61	27	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	15	8	32	nd	18	nd	29	21	32	nd	nd	nd	nd	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	16	nd	19	nd	nd	nd	14	nd	31	nd	16	11	29	ND	28	ND	24	16.5
2	14	nd	40	nd	nd	nd	nd	nd	11	nd	24.5	nd	26	nd	44	nd	16	12	41	ND	24	ND	20	ND
3	nd	nd	11	nd	15	nd	33	12	10	nd	29	nd	nd	20	nd	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	24.5	nd	18.9	nd	42.7	22.3	23.8	nd	14.3	5.8	20.3	ND	32	ND	23.8	4.1

HCH-HEXACHLOROCYCLOHEXANES (ng/L) 2005

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	15	ND	15	ND	36	15	17	ND	24	ND	40	41	25	13.5	30	ND	31	ND	31	ND	ND	10.5
2	13	ND	ND	ND	43	ND	43	16	33	17	22	11.5	29.7	13.5	35	20	32	ND	30	ND	30	ND	ND	ND
3	21	ND	30.5	ND	12	ND	30.3	13.8	25	ND	15	ND	27.3	ND	44	72.5	14	ND	29	ND	29	ND	ND	ND
4	28	ND	ND	ND	ND	ND	39	ND	29.3	16	20	13	17.3	20.8	0	23	11	ND	29	20	15	ND	28	ND
Average	20.7	ND	7.6	ND	6.8	ND	37.1	11.2	29.1	11	20.3	6.1	28.6	18.8	26	32.3	21.8	ND	29.8	5	5	ND	7	2.6

HCH-HEXACHLOROCYCLOHEXANES (ng/L) 2006

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	30	14	ND	ND	12	ND	ND	ND	11.0	ND	30	12.5	24.0	ND	ND	ND	ND	ND	ND	11	ND	ND
2	49	17	ND	ND	ND	ND	ND	ND	ND	ND	15.0	ND	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	18	ND	ND	ND	ND	ND	ND	ND	ND	ND	14.0	ND	28	ND	22.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	14	ND	17	ND	ND	ND	ND	ND	21	ND	0.0	ND	ND	ND	21.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	20.3	4.3	11.8	3.5	ND	ND	3	ND	5.3	ND	10.0	ND	22	3.1	20.3	ND	ND	ND	ND	ND	2.8	ND	2.8	ND

HCH-HEXACHLOROCYCLOHEXANES (ng/L) 2007

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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	17	ND	ND	ND	ND	ND	12.0	ND	ND	ND	ND	426.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	15	ND	ND	ND	ND	ND	7.0	ND	ND	ND	ND	14.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.0	ND	ND
4	0	ND	ND	ND	ND	ND	4.8	ND	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	12.0	ND	ND	ND	ND	ND	1.6	ND	2.5	ND	ND	3.5	ND	ND	ND	ND	ND	ND	ND	ND	2.3	ND	2.3	ND

HCH-HEXACHLOROCYCLOHEXANES (ng/L) 2008

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	10.5	ND	ND	ND	ND	ND	10	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	14.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	6.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	ND	ND	2.6	ND	ND	ND	1.6	ND	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	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	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	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	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	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	nd	nd	45	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	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	nd
4	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	131	139	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Avg	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	43.7	46.2	nd	nd	nd	nd	11.3	nd	nd	nd	nd	nd	nd	nd	nd

CHLORDANE & RELATED COMPOUNDS (ng/L) 2005

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	ND
2	ND	ND	ND	ND	ND	ND	63	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	178	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	ND
Average	ND	ND	ND	ND	ND	ND	15.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	44.5	ND

CHLORDANE & RELATED COMPOUNDS (ng/L) 2006

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	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	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	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	ND
Average	ND	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) 2007

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	ND
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	120.0	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	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	ND
Average	ND	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) 2008

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	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	ND
3	ND	ND	ND	15.0	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	ND
Average	ND	ND	ND	3.8	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) 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	24	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	6	nd	nd	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	nd	24	nd	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	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	6	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	18.5	nd

DDT AND DERIVATIVES (ng/L) 2005

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	23	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
Average	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.8	ND

DDT AND DERIVATIVES (ng/L) 2006

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	27.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	26	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
Average	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

DDT AND DERIVATIVES (ng/L) 2007

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	8.0	ND	24.0	8.0	15.0	ND	18.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	ND	ND	16.0	ND	14.0	ND	230.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	0.0	ND	15.0	ND	8.0	ND	11.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	22.0	4	16.0	ND	12.0	ND	16.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	ND	ND	ND	ND	ND	ND	11.5	1	17.3	2.0	12.3	ND	11.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

DDT AND DERIVATIVES (ng/L) 2008

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	13	ND	ND	ND	ND	ND	22.0	4.0	5.0	ND	15.0	ND	4.0	ND	ND	ND	ND	ND	ND	ND	4.5	ND
2	ND	ND	ND	ND	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	22	ND	ND	ND	ND	ND	7.0	ND	ND	ND	ND	ND	13.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	ND	ND	8.0	ND	11.0	ND	37.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	ND	ND	8.8	ND	1.5	ND	ND	5	5.5	2.8	10.5	1	3.8	ND	3.3	ND	ND	ND	ND	ND	ND	ND	1.1	ND





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	12.9	17.1	11.3	18.3	9.7	15	10.2	16	4.1	12.1	8.7	10.5	7.2	9.2	9.4	13.8	8.8	16.2	11
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	10.4	20.5	16.5
3	12.9	10	12.1	9.6	14	13.7	15.7	12	18.3	13.7	15.6	13	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	12.4	15.6	12.8	13.2	11.4	20.5	14.1	14.9	10.1	11.4	7.7	15	8.7	17.5	12.6	17.1	13
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	8.1	13.9	15.7	12.3	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	19.6	13.8	11	13.7	15.7	12.3	11	21.3	19.9	27.5	10.9	20.3	11.1	19	8.8	16.5	9.9	16.4	11.1	16.2	9.7	17.7	10.3
3	17.4	18	15.8	12	14.7	14.7	15.6	13.3	21	14.2	19.4	11.1	11.1	11.1	11.8	10.4	15	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	15	7.2	7.6	4.3	16.2	12.9	11.8	7.7
Avg	18	17.4	12.9	10.6	12.4	14.1	14.7	12.8	17.1	14	21.4	11.5	19.6	10.6	15	9.8	15.6	9.2	11.1	6.8	15	10.4	15	10.6

NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2005

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	11.3	8.1	11.3	7.6	11.6	9	14.8	12.5	18.7	11.5	16	12.2	15.4	11.6	11.7	8.1	12.9	11.6	14.7	11	16	12.9	16.5	11.4
2	7.5	6.1	10.9	6.3	11.2	9.6	13.1	12.5	17.9	11.6	15	13.1	18.7	12.7	13.6	10	13.1	8.3	13.3	9.39	14.3	13.1	15.3	10.7
3	9.1	5.9	15.2	10.2	14.6	12.6	14.9	13.5	20.4	13.5	17.2	13.6	17.8	11	15.5	8.4	9.4	12.3	11.6	11.4	14.7	13.7	14.1	8.3
4	17.3	12.2	7.9	5.6	16.1	10.8	16.7	10.2	17.7	9.3	15.5	10.6	7.9	11.6	8.2	8.4	15.5	12.5	19.5	11.9	16.2	12	16.8	10.8
Average	11.3	8.1	11.3	7.6	11.6	9	14.8	12.5	18.7	11.5	16	12.2	15.4	11.6	11.7	8.1	12.9	11.6	14.7	11	16	12.9	16.5	11.4

NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2006

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	15.8	12.4	14.1	12.9	16.5	15.9	27.3	19	22	10.5	14.6	13.2	26.9	13.5	20.3	13.4	21.3	15.2	14.9	10.4	16.3	7.7	19.3	13.6
2	17.4	12.4	14.3	10.7	16.4	13.6	22.1	15.6	40.5	21.8	21.9	16.3	16.4	13.1	17	12.7	11.7	10.9	19.3	13.2	19.5	13	18.2	11.9
3	12.2	10.7	15	12.1	31.5	25.6	26.7	18.8	23.5	17.7	21.6	17.3	20.9	13.5	22.5	15.6	11.6	9.9	17.1	13.4	16.9	11.5	17.6	13.7
4	12.6	11.6	15.1	10.4	11.1	10.4	21.6	18	19.9	12.4	14.7	14.4	18.2	11.9	21.8	11.4	11.4	11.2	8.2	10	21.3	14.9	26.2	22.5
Average	14.5	11.8	14.6	11.5	21.5	18.4	24.4	17.9	26.5	15.6	18.2	15.3	20.6	13.0	20.4	13.3	14.9	12.0	14.9	11.8	18.5	11.8	20.3	15.4

NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2007

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	18.8	15.1	16.2	12.9	16.2	12.9	19.9	17.5	20.3	15.7	16	13	14.3	9.3	16	10	16.2	9.4	19.4	8.7	18.5	12.3	14.2	8.8
2	16.9	15.4	15.7	12.7	16.4	14.5	17.9	16.4	21.1	12.5	20.2	13.2	12.4	10.2	14.6	8	14.7	8.7	17.7	10.5	21.6	14.5	15.5	11.6
3	19.6	20.1	29.9	15.2	17.8	13.4	12.8	11.3	20	12.6	16.8	9.3	16.9	12.4	16.3	7.9	15.4	8.9	13.7	8.1	20.3	13.3	16.4	12.2
4	11.1	16.7	16.3	13.5	16.1	13.4	19.6	14.2	16.6	11.1	12.7	7.5	12.7	7.5	12	6.6	15.3	17.6	17.9	10.5	17.1	12	16.4	12.2
Average	16.6	16.8	20.6	13.8	16.6	13.6	17.6	14.9	19.5	13.0	17.7	11.8	14.1	9.9	14.7	8.1	15.4	11.2	17.2	9.5	19.4	13.0	15.4	10.9

NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2008

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	18.8	15.0	17.4	11.1	18.9	13.3	19.8	11.6	18.4	12.0	16.8	11.5	14.6	11.2	14.3	9.9	14.3	9.9	15.2	12.3	15.2	11.8	15.2	13.1
2	16.8	10.7	15.4	9.5	17.9	13.7	23.0	16.7	17.8	15.4	21.9	15.3	21.8	12.8	18.7	13.8	19.4	11.5	11.2	9.1	16.7	11.8	16.3	16.4
3	18.9	13.0	17.2	13.5	20.0	11.3	22.6	15.4	19.5	17.4	27.0	10.1	16.7	8.3	16.5	14.4	12.2	10.4	14.3	10.3	14.2	12.5	4.8	6.1
4	17.7	9.4	17.4	13.0	16.4	12.9	21.1	17.7	19.6	13.3	22.4	12.1	13.6	9.7	19.3	11.3	11.2	8.9	14.4	12.9	16.5	15.0	14.9	13.7
Average	18.1	12.0	16.9	11.8	18.3	12.8	21.6	15.4	19.0	15.4	22.4	12.4	17.2	10.6	17.3	12.7	14.3	10.2	13.8	11.2	15.8	13.1	12.8	12.3



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