II. Influent and Effluent Data Summary.

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

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

Mass Emissions of Effluent Using 2001 Monthly Averages

| DISCHARGE SPECIFICATIONS from NPDES Permit No. CA0107409/RWQCB Order No. 95-106 effective on December 15, 1995 with limits on pollutant discharges. | | | | |
|---|---|---|---|---|
| **Constituent/Property** | **Benchmarks** | **2001 Mass Emissions** | **2001 Concentration** | |
| | **(mt/yr)** | **(mt/yr)** | | **Units** |
| Flow (MGD) | | | 174.8 | MGD |
| Suspended Solids | – | 10,392 | 43 | mg/L |
| BOD | – | 22,717 | 94 | mg/L |
| Arsenic | 0.88 | 0.19 | 0.8 | ug/L |
| Cadmium | 1.4 | 0.02 | 0.1 | ug/L |
| Chromium | 14.2 | 0.36 | 1.5 | ug/L |
| Copper | 26 | 28 | 114 | ug/L |
| Lead | 14.2 | 0.00 | 0 | ug/L |
| Mercury | 0.19 | 0.00 | 0 | ug/L |
| Nickel | 11.3 | 0.00 | 0 | ug/L |
| Selenium | 0.44 | 0.27 | 1.12 | ug/L |
| Silver | 2.8 | 0.15 | 0.6 | ug/L |
| Zinc | 18.3 | 7.7 | 32 | ug/L |
| cyanide | 0.57 | 0.63 | 0.0026 | mg/L |
| Residual Chlorine | -- | | | |
| Ammonia | 8018 | 6,767 | 28 | mg/L |
| Non-Chor. Phenols | 2.57 | 2.7 | 11.0 | ug/L |
| Chlorinated Phenols | 1.73 | 0.0 | 0.0 | ug/L |
| Endosulfan | 0.006 | 0 | 0 | ng/L |
| Endrin | 0.008 | 0 | 0 | ng/L |
| hexachlorocyclohexanes *(HCH) | 0.025 | 0.0039 | 16.0 | ng/L |
| * (all as Lindane) | | | | |
| | | | | |
| LIMITATIONS FOR PROTECTION OF HUMAN HEALTH--NONCARCINOGENS | | | | |
| Acrolein | 17.6 | 0.0000 | 0 | ug/L |
| Antimony | 56.6 | 5.32 | 22 | ug/L |
| Bis(2-chloroethoxy) methane | 1.5 | 0.0000 | 0 | ug/L |
| Bis(2-chloroisopropyl) ether | 1.61 | 0.0000 | 0 | ug/L |
| Chlorobenzene | 1.7 | 0.0000 | 0 | ug/L |
| Chromium (III) | -- | | | |
| di-n-butyl phthalate | 1.33 | 0.0000 | 0 | ug/L |
| dichlorobenzenes | 2.8 | 0.0000 | 0 | ug/L |
| 1,1-dichloroethylene | 0.79 | 0.0000 | 0 | ug/L |
| Diethyl phthalate | 6.23 | 0.9425 | 3.9 | ug/L |
| Dimethyl phthalate | 1.59 | 0.0000 | 0 | ug/L |
| 4,6-dinitro-2-methylphenol | 6.8 | 0.0000 | 0 | ug/L |
| 2,4-dinitrophenol | 11.9 | 0.0000 | 0 | ug/L |
| Ethylbenzene | 2.04 | 0.0000 | 0 | ug/L |
| Fluoranthene | 0.62 | 0.0000 | 0 | ug/L |
| Hexachlorocyclopentadiene | – | 0.0000 | 0 | ug/L |
| Isophorone | 0.71 | 0.0000 | 0 | ug/L |
| Nitrobenzene | 2.07 | 0.0000 | 0 | ug/L |
| Thallium | 36.8 | 0.0000 | 0 | ug/L |
| Toluene | 3.31 | 0.5075 | 2.1 | ug/L |
| 1,1,2,2-tetrachloroethane | 1.95 | 0.0000 | 0 | ug/L |
| Tributyltin | 0.001 | 0.0000 | 0 | ug/L |
| 1,1,1-trichloroethane | 2.51 | 0.0000 | 0 | ug/L |
| 1,1,2-trichloroethane | 1.42 | 0.0000 | 0 | ug/L |

| Constituent/Property | Benchmarks (mt/yr) | 2001 Mass Emissions (mt/yr) | 2001 Concentration | Units |
|---|---|---|---|---|
| LIMITATIONS FOR PROTECTION OF HUMAN HEALTH-- CARCINOGENS | | | | |
| Acrylonitrile | 5.95 | 0.0000 | 0 | ug/L |
| Aldrin | 0.006 | 0.0000 | 0 | ng/L |
| Benzene | 1.25 | 0.0000 | 0 | ug/L |
| Benzidine | 12.5 | 0.0000 | 0 | ug/L |
| Beryllium | 1.42 | 0.0000 | 0 | ug/L |
| Bis(2-chloroethyl)ether | 1.61 | 0.0000 | 0 | ug/L |
| Bis(2-ethylhexyl)phthalate | 2.89 | 0.41 | 1.7 | ug/L |
| Carbon Tetrachloride | 0.79 | 0.0000 | 0 | ug/L |
| Chlordane | 0.014 | 0.0000 | 0 | ng/L |
| Chloroform | 2.19 | 1.79 | 7.4 | ug/L |
| DDT | 0.043 | 0.0000 | 0 | ng/L |
| 1,4-dichlorobenzene | 1.25 | 0.0000 | 0 | ug/L |
| 3,3-dichlorobenzidine | 4.67 | 0.0000 | 0 | ug/L |
| 1,2-dichloroethane | 0.79 | 0.0000 | 0 | ug/L |
| Dichloromethane (methylene chloride) | 13.7 | 0.7250 | 3 | ug/L |
| 1,3-dichloropropene | 1.42 | 0.0000 | 0 | ug/L |
| Dieldrin | 0.011 | 0.0000 | 0 | ng/L |
| 2,4-dinitrotoluene | 1.61 | 0.0000 | 0 | ug/L |
| 1,2-diphenylhydrazine | 1.52 | 0.0000 | 0 | ug/L |
| Halomethanes | 5.86 | 1.0150 | 4.2 | ug/L |
| Heptachlor | 0.025 | 0.0000 | 0 | ng/L |
| Hexachlorobenzene | 0.54 | 0.0000 | 0 | ug/L |
| Hexachlorobutadiene | 0.054 | 0.0000 | 0 | ug/L |
| Hexachloroethane | 1.13 | 0.0000 | 0 | ug/L |
| N-nitrosodimethylamine | 0.76 | 0.0000 | 0 | ug/L |
| N-nitrosodiphenylamine | 1.47 | 0.0000 | 0 | ug/L |
| PAHs | 15.45 | 0.0000 | 0 | ug/L |
| PCBs | 0.275 | 0.0000 | 0 | ng/L |
| TCDD equivalents | -- | 0.0000000249 | 0.103 | pg/L |
| Tetrachloroethylene | 4 | 0.2900 | 1.2 | ug/L |
| Toxaphene | 0.068 | 0.0000 | 0 | ng/L |
| Trichloroethylene | 1.56 | 0.0000 | 0 | ug/L |
| 2,4,6-trichlorophenol | 0.96 | 0.0000 | 0 | ug/L |
| Vinyl Chloride | 0.4 | 0.0000 | 0 | ug/L |

A. Influent and Effluent Data Summaries.

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

Diagram of Pt. Loma WWTP

PT. LOMA WASTEWATER TREATMENT PLANT
SEWAGE ANNUAL
From 01-JAN-2001 To 31-DEC-2001

Biochemical Oxygen Demand Concentration
(24-hour composite)

| | 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 -2001 | 180.3 | 238 | 357881 | 82 | 123304 | 65.5 |
| FEBRUARY -2001 | 184.3 | 230 | 353524 | 96 | 147558 | 58.3 |
| MARCH -2001 | 184.1 | 235 | 360818 | 106 | 162752 | 54.9 |
| APRIL -2001 | 174.9 | 271 | 395298 | 95 | 138573 | 64.9 |
| MAY -2001 | 171.3 | 278 | 397162 | 101 | 144293 | 63.7 |
| JUNE -2001 | 170.6 | 251 | 357124 | 94 | 133744 | 62.5 |
| JULY -2001 | 171.8 | 266 | 381128 | 96 | 137550 | 63.9 |
| AUGUST -2001 | 173.4 | 263 | 380339 | 101 | 146062 | 61.6 |
| SEPTEMBER-2001 | 172.6 | 259 | 372826 | 94 | 135311 | 63.7 |
| OCTOBER -2001 | 170.2 | 255 | 361964 | 90 | 127752 | 64.7 |
| NOVEMBER -2001 | 171.9 | 258 | 369881 | 82 | 117559 | 68.2 |
| DECEMBER -2001 | 171.6 | 243 | 347768 | 88 | 125941 | 63.8 |
| Average | 174.8 | 254 | 369643 | 94 | 136700 | 63.0 |

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

Total Suspended Solids Concentration
(24-hour composite)

| | Flow | Daily Influent Value (mg/L) | Daily Influent Volatile (mg/L) | Percent Removal VSS (%) | Daily Influent Value (lbs/Day) | Daily Effluent Value (mg/L) | Daily Effluent Volatile (mg/L) | Percent Removal VSS (%) | Daily Effluent Value (lbs/Day) | Percent Removal TSS (%) | Percent Removal VSS (%) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| JANUARY -2001 | 180.3 | 286 | 233 | 81.5 | 430059 | 33 | 24 | 72.7 | 49622 | 88.5 | 89.7 |
| FEBRUARY -2001 | 184.3 | 273 | 222 | 81.3 | 419618 | 37 | 26 | 70.3 | 56871 | 86.4 | 88.3 |
| MARCH -2001 | 184.1 | 268 | 219 | 81.7 | 411486 | 40 | 28 | 70.0 | 61416 | 85.1 | 87.2 |
| APRIL -2001 | 174.9 | 275 | 226 | 82.2 | 401133 | 41 | 30 | 73.2 | 59805 | 85.1 | 86.7 |
| MAY -2001 | 171.3 | 281 | 232 | 82.6 | 401448 | 42 | 31 | 73.8 | 60003 | 85.1 | 86.6 |
| JUNE -2001 | 170.6 | 281 | 233 | 82.9 | 399808 | 44 | 33 | 75.0 | 62603 | 84.3 | 85.8 |
| JULY -2001 | 171.8 | 275 | 225 | 81.8 | 394023 | 46 | 35 | 76.1 | 65909 | 83.3 | 84.4 |
| AUGUST -2001 | 173.4 | 273 | 224 | 82.1 | 394801 | 47 | 36 | 76.6 | 67969 | 82.8 | 83.9 |
| SEPTEMBER-2001 | 172.6 | 272 | 224 | 82.4 | 391540 | 50 | 38 | 76.0 | 71974 | 81.6 | 83.0 |
| OCTOBER -2001 | 170.2 | 267 | 221 | 82.8 | 378998 | 50 | 39 | 78.0 | 70973 | 81.3 | 82.4 |
| NOVEMBER -2001 | 171.9 | 273 | 225 | 82.4 | 391385 | 43 | 34 | 79.1 | 61647 | 84.2 | 84.9 |
| DECEMBER -2001 | 171.6 | 275 | 225 | 81.8 | 393565 | 38 | 28 | 73.7 | 54383 | 86.2 | 87.6 |
| Average | 174.8 | 275 | 226 | | 400655 | 43 | 32 | | 61931 | 84.5 | 85.9 |

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

POINT LOMA WASTEWATER TREATMENT PLANT

Annual Systemwide BOD Removals

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

| Date | Pt. Loma Influent Mass Emis. Contribution | PS64 Influent Mass Emis. Contribution | Penasquitos Influent Mass Emis. Contribution | N_Return Stream Mass Emis. Contribution | Pt. Loma Effluent Mass Emis. Contribution | Monthly Systemwide Percent Removal | Pt. Loma Daily Percent Removal |
|---|---|---|---|---|---|---|---|
| JANUARY | 357881 | 32344 | 15734 | 24391 | 123304 | 67.7 | 65.5 |
| FEBRUARY | 353524 | 28003 | 11545 | 21632 | 147558 | 60.3 | 58.3 |
| MARCH | 360818 | 24559 | 14138 | 19444 | 162752 | 57.2 | 54.9 |
| APRIL | 395298 | 25288 | 13615 | 19955 | 138573 | 66.5 | 64.9 |
| MAY | 397162 | 27207 | 14221 | 20392 | 144293 | 65.5 | 63.7 |
| JUNE | 357124 | 28552 | 14880 | 15221 | 133744 | 65.3 | 62.5 |
| JULY | 381128 | 33165 | 8366 | 13588 | 137550 | 66.4 | 63.9 |
| AUGUST | 380339 | 27259 | 13033 | 9612 | 146062 | 64.5 | 61.6 |
| SEPTEMBER | 372826 | 28140 | 9755 | 10347 | 135311 | 66.2 | 63.7 |
| OCTOBER | 361964 | 27134 | 12521 | 14000 | 127752 | 67.0 | 64.7 |
| NOVEMBER | 369881 | 32778 | 8614 | 19042 | 117559 | 70.0 | 68.2 |
| DECEMBER | 347768 | 26927 | 11311 | 13742 | 125941 | 66.2 | 63.8 |
| Average | 369643 | 28446 | 12311 | 16780@ | 136700 | 65.2 | 63.0 |

@=These mass emissions may be as much as two times the actual amount returned. See the additional data in the “System Wide Removal Sampling System Evaluation Progress,” in this report.

Annual Systemwide TSS Removals

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

| Date | Pt. Loma Influent Mass Emis. Contribution | PS64 Influent Mass Emis. Contribution | Penasquitos Influent Mass Emis. Contribution | N_Return Stream Mass Emis. Contribution | Pt. Loma Effluent Mass Emis. Contribution | Monthly Systemwide Percent Removal | Pt. Loma Daily Percent Removal |
|---|---|---|---|---|---|---|---|
| JANUARY | 430059 | 35791 | 18345 | 32134 | 49622 | 89.0 | 88.5 |
| FEBRUARY | 419618 | 30470 | 13201 | 35991 | 56871 | 86.7 | 86.4 |
| MARCH | 411486 | 26554 | 16158 | 22232 | 61416 | 85.8 | 85.1 |
| APRIL | 401133 | 24411 | 15620 | 24803 | 59805 | 85.6 | 85.1 |
| MAY | 401448 | 27466 | 18420 | 26822 | 60003 | 85.7 | 85.1 |
| JUNE | 399808 | 29094 | 19103 | 26692 | 62603 | 85.1 | 84.3 |
| JULY | 394023 | 34919 | 11141 | 26671 | 65909 | 84.1 | 83.3 |
| AUGUST | 394801 | 30530 | 17859 | 19078 | 67969 | 84.0 | 82.8 |
| SEPTEMBER | 391540 | 29778 | 12861 | 18713 | 71974 | 82.7 | 81.6 |
| OCTOBER | 378998 | 28730 | 17352 | 18752 | 70973 | 82.5 | 81.3 |
| NOVEMBER | 391385 | 34953 | 10738 | 30104 | 61647 | 84.9 | 84.2 |
| DECEMBER | 393565 | 27500 | 14244 | 17411 | 54383 | 87.0 | 86.2 |
| Average | 400655 | 30016 | 15420 | 24950@ | 61931 | 85.3 | 84.5 |

@=These mass emissions may be as much as two times the actual amount returned. See the additional data in the “System Wide Removal Sampling System Evaluation Progress,” in this report.

POINT LOMA WASTEWATER TREATMENT PLANT

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

Effluent to Ocean Outfall (PLE)

| | pH | Settleable Solids (ml/L) | Biochemical Oxygen Demand (mg/L) | Oil & Grease (mg/L) | Temperature ( C ) | Floating Particulates (mg/L) | Turbidity (NTU) |
|---|---|---|---|---|---|---|---|
| JANUARY -2001 | 7.35 | <0.1 | 82 | 6.3 | 21.5 | 0.15 | 31 |
| FEBRUARY -2001 | 7.30 | <0.1 | 96 | 8.8 | 21.1 | 0.19 | 36 |
| MARCH -2001 | 7.30 | 0.1 | 106 | 8.2 | 21.7 | 0.21 | 38 |
| APRIL -2001 | 7.30 | 0.1 | 95 | 8.8 | 22.6 | 0.10 | 43 |
| MAY -2001 | 7.33 | 0.1 | 101 | 8.8 | 23.9 | 0.10 | 43 |
| JUNE -2001 | 7.31 | 0.2 | 94 | 9.4 | 25.3 | 0.11 | 43 |
| JULY -2001 | 7.32 | 0.1 | 96 | 10.3 | 26.2 | 0.17 | 42 |
| AUGUST -2001 | 7.36 | 0.2 | 101 | 9.6 | 26.6 | 0.12 | 42 |
| SEPTEMBER-2001 | 7.37 | 0.1 | 94 | 8.8 | 26.8 | <0.10 | 44 |
| OCTOBER -2001 | 7.36 | 0.1 | 90 | 8.6 | 26.0 | <0.10 | 44 |
| NOVEMBER -2001 | 7.32 | 0.1 | 82 | 7.9 | 24.4 | <0.10 | 39 |
| DECEMBER -2001 | 7.27 | 0.1 | 88 | 9.2 | 22.3 | <0.10 | 39 |
| Average | 7.32 | 0.1 | 94 | 8.7 | 24.0 | 0.10 | 40 |

Influent to Plant (PLR)

| | pH | Settleable Solids (ml/L) | Biochemical Oxygen Demand (mg/L) | Oil & Grease (mg/L) | Temperature ( C ) |
|---|---|---|---|---|---|
| JANUARY -2001 | 7.41 | 8.44 | 238 | 25.6 | 21.4 |
| FEBRUARY -2001 | 7.35 | 8.41 | 230 | 30.0 | 20.9 |
| MARCH -2001 | 7.34 | 9.48 | 235 | 27.7 | 21.7 |
| APRIL -2001 | 7.34 | 8.76 | 271 | 30.2 | 22.4 |
| MAY -2001 | 7.33 | 9.58 | 278 | 33.9 | 23.8 |
| JUNE -2001 | 7.36 | 9.75 | 251 | 36.5 | 25.1 |
| JULY -2001 | 7.35 | 9.37 | 266 | 33.6 | 25.8 |
| AUGUST -2001 | 7.36 | 10.50 | 263 | 39.8 | 26.8 |
| SEPTEMBER-2001 | 7.37 | 10.10 | 259 | 30.9 | 26.6 |
| OCTOBER -2001 | 7.41 | 9.34 | 255 | 35.2 | 25.6 |
| NOVEMBER -2001 | 7.42 | 8.96 | 258 | 30.8 | 24.3 |
| DECEMBER -2001 | 7.36 | 8.26 | 243 | 27.9 | 22.0 |
| Average | 7.37 | 9.2 | 254 | 31.8 | 23.9 |

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

POINT LOMA WASTEWATER TREATMENT PLANT
ANNUAL SEWAGE
Trace Metals

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

Sampled by: NDL,A4A,UFH,M5U
Analyzed by: BOA,G8C,JRF,IEN,LXP,SCV,JRV

| Analyte: | Antimony | Antimony | Arsenic | Arsenic | Beryllium | Beryllium | Cadmium | Cadmium |
|---|---|---|---|---|---|---|---|---|
| MDL Units: | 23 UG/L | 23 UG/L | 0.18 UG/L | 0.18 UG/L | 0.39 UG/L | 0.39 UG/L | 1 UG/L | 1 UG/L |
| Source: | PLR | PLE | PLR | PLE | PLR | PLE | PLR | PLE |
| Lowest/Limit: | | | | 1030 | | 6.77 | | 205 |
| JANUARY -2001 | 23 | <23 | 1.18 | 0.79 | ND | ND | <1.0 | <1.0 |
| FEBRUARY -2001 | ND | 26 | 1.22 | 0.79 | ND | ND | 2.0 | ND |
| MARCH -2001 | 27 | <23 | 0.93 | 0.60 | ND | ND | <1.0 | 1.1 |
| APRIL -2001 | <23 | <23 | 0.85 | 0.38 | ND | ND | <1.0 | <1.0 |
| MAY -2001 | <23 | <23 | 1.14 | 0.90 | ND | ND | 2.6 | <1.0 |
| JUNE -2001 | <23 | ND | 2.08 | 0.89 | ND | ND | 1.0 | <1.0 |
| JULY -2001 | ND | ND | 1.19 | 0.76 | ND | ND | <1.0 | ND |
| AUGUST -2001 | ND | ND | 1.53 | 1.06 | ND | ND | 1.6 | <1.0 |
| SEPTEMBER-2001 | ND | ND | 1.06 | 0.84 | <0.39 | ND | ND | ND |
| OCTOBER -2001 | <23 | <23 | 1.40 | 0.83 | ND | ND | <1.0 | <1.0 |
| NOVEMBER -2001 | <23 | <23 | 1.50 | 1.03 | ND | ND | <1.0 | <1.0 |
| DECEMBER -2001 | <23 | <23 | 1.34 | 0.77 | ND | ND | ND | ND |
| AVERAGE | 4 | 2 | 1.29 | 0.80 | 0.00 | ND | 0.6 | 0.1 |

| Analyte: | Chromium | Chromium | Copper | Copper | Iron | Iron | Lead | Lead |
|---|---|---|---|---|---|---|---|---|
| MDL Units: | 5 UG/L | 5 UG/L | 4 UG/L | 4 UG/L | 30 UG/L | 30 UG/L | 18 UG/L | 18 UG/L |
| Source: | PLR | PLE | PLR | PLE | PLR | PLE | PLR | PLE |
| Lowest/Limit: | | 410 | | 207 | | | | 410 |
| JANUARY -2001 | 10.9 | 17.5 | 194 | 115 | 6510 | 3800 | <18.0 | ND |
| FEBRUARY -2001 | 5.5 | <5.0 | 180 | 153 | 6610 | 4150 | ND | ND |
| MARCH -2001 | 6.7 | <5.0 | 176 | 100 | 4990 | 4120 | ND | ND |
| APRIL -2001 | <5.0 | ND | 188 | 90 | 6300 | 4330 | ND | ND |
| MAY -2001 | 7.1 | <5.0 | 198 | 126 | 6840 | 4460 | ND | ND |
| JUNE -2001 | 7.0 | <5.0 | 192 | 119 | 8690 | 4550 | ND | ND |
| JULY -2001 | 8.8 | ND | 167 | 105 | 7050 | 4150 | ND | ND |
| AUGUST -2001 | <5.0 | <5.0 | 248 | 145 | 6720 | 3850 | ND | ND |
| SEPTEMBER-2001 | 6.5 | ND | 215 | 117 | 6370 | 4130 | ND | ND |
| OCTOBER -2001 | 6.2 | ND | 226 | 133 | 6350 | 4210 | ND | ND |
| NOVEMBER -2001 | <5.0 | <5.0 | 142 | 85 | 6580 | 3820 | <18.0 | ND |
| DECEMBER -2001 | ND | ND | 190 | 85 | 6070 | 4310 | ND | ND |
| AVERAGE | 4.9 | 1.5 | 193 | 114 | 6590 | 4157 | 0.0 | ND |

| Analyte: | Mercury | Mercury | Nickel | Nickel | Selenium | Selenium | Silver | Silver |
|---|---|---|---|---|---|---|---|---|
| MDL Units: | 0.27 UG/L | 0.27 UG/L | 14 UG/L | 14 UG/L | 0.4 UG/L | 0.4 UG/L | 6.6 UG/L | 6.6 UG/L |
| Source: | PLR | PLE | PLR | PLE | PLR | PLE | PLR | PLE |
| Lowest/Limit: | | 8.1 | | 1030 | | 3080 | | 111 |
| JANUARY -2001 | ND | ND | <14 | <14 | 1.68 | 1.25 | ND | ND |
| FEBRUARY -2001 | ND | ND | <14 | <14 | 1.60 | 1.25 | ND | 6.7 |
| MARCH -2001 | ND | ND | <14 | ND | 1.26 | 1.18 | <6.6 | <6.6 |
| APRIL -2001 | ND | ND | <14 | <14 | 1.61 | 1.08 | ND | ND |
| MAY -2001 | 0.36 | <0.27 | <14 | ND | 1.34 | 1.10 | <6.6 | <6.6 |
| JUNE -2001 | 0.32 | ND | ND | <14 | 1.50 | 1.10 | ND | ND |
| JULY -2001 | <0.27 | ND | 18 | <14 | 1.57 | 1.12 | 9.3 | <6.6 |
| AUGUST -2001 | <0.27 | <0.27 | ND | ND | 1.53 | 1.13 | 6.7 | ND |
| SEPTEMBER-2001 | <0.27 | <0.27 | <14 | ND | 1.19 | 0.92 | ND | ND |
| OCTOBER -2001 | <0.27 | ND | ND | ND | 1.25 | 0.86 | ND | ND |
| NOVEMBER -2001 | <0.27 | <0.27 | ND | ND | 1.40 | 1.19 | 8.0 | ND |
| DECEMBER -2001 | <0.27 | ND | ND | ND | 1.61 | 1.26 | ND | ND |
| AVERAGE | 0.06 | 0.00 | 2 | 0 | 1.46 | 1.12 | 2.0 | 0.6 |

POINT LOMA WASTEWATER TREATMENT PLANT
ANNUAL SEWAGE
Trace Metals

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

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

| Analyte: | Thallium | Thallium | Zinc | Zinc |
|---|---|---|---|---|
| MDL Units: | 40 UG/L | 40 UG/L | 4 UG/L | 4 UG/L |
| Source: | PLR | PLE | PLR | PLE |
| Lowest/Limit: | | 2870 | | 2470 |
| JANUARY -2001 | ND | ND | 128 | 30 |
| FEBRUARY -2001 | ND | ND | 136 | 35 |
| MARCH -2001 | ND | ND | 123 | 33 |
| APRIL -2001 | ND | ND | 168 | 41 |
| MAY -2001 | <40.0 | ND | 151 | 42 |
| JUNE -2001 | ND | ND | 156 | 43 |
| JULY -2001 | ND | ND | 139 | 26 |
| AUGUST -2001 | ND | ND | 225 | 29 |
| SEPTEMBER-2001 | ND | ND | 137 | 29 |
| OCTOBER -2001 | ND | ND | 137 | 23 |
| NOVEMBER -2001 | ND | ND | 145 | 26 |
| DECEMBER -2001 | ND | ND | 123 | 24 |
| AVERAGE | 0.0 | ND | 147 | 32 |

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

POINT LOMA WASTEWATER TREATMENT PLANT
ANNUAL SEWAGE
Ammonia-Nitrogen and Total Cyanides

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

Sampled by: NDL,A4A,UFH,M5U
Analyzed by: JJI,HHD,JRV

| | Ammonia-N .2 MG/L PLR | Ammonia-N .2 MG/L PLE | Cyanides,Total .002 MG/L PLR | Cyanides,Total .002 MG/L PLE |
|---|---|---|---|---|
| Limit: | | 492 | | 0.82 |
| JANUARY -2001 | 27.7 | 26.5 | 0.0038 | 0.0038 |
| FEBRUARY -2001 | 27.0 | 27.9 | 0.0053 | 0.0048 |
| MARCH -2001 | 26.0 | 26.1 | 0.0043 | 0.0039 |
| APRIL -2001 | 29.9 | 29.5 | 0.0028 | 0.0034 |
| MAY -2001 | 28.9 | 28.9 | 0.0033 | 0.0044 |
| JUNE -2001 | 29.0 | 28.5 | 0.0033 | 0.0030 |
| JULY -2001 | 29.6 | 27.7 | 0.0030 | 0.0028 |
| AUGUST -2001 | 28.8 | 28.2 | 0.0020 | 0.0020 |
| SEPTEMBER-2001 | 28.8 | 28.3 | <0.0020 | <0.0020 |
| OCTOBER -2001 | 28.8 | 28.4 | <0.0020 | <0.0020 |
| NOVEMBER -2001 | 29.0 | 28.8 | 0.0030 | 0.0029 |
| DECEMBER -2001 | 28.0 | 27.5 | 0.0020 | <0.0020 |
| Average: | 28.5 | 28.0 | 0.0027 | 0.0026 |

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

POINT LOMA WASTEWATER TREATMENT PLANT
ANNUAL SEWAGE
Radioactivity

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

Sampled by: NDL,A4A,UFH,M5U
Analyzed by: Truesdail Labs Inc.

| Source | Month | Gross Alpha Radiation | Gross Beta Radiation |
|---|---|---|---|
| PLE | JANUARY -2001 | 0.3 ± 1.2 | 28.0 ± 4.5 |
| PLE | FEBRUARY -2001 | 2.1 ± 1.3 | 37.0 ± 4.5 |
| PLE | MARCH -2001 | 2.6 ± 1.5 | 30.7 ± 4.4 |
| PLE | APRIL -2001 | 1.6 ± 1.5 | 26.3 ± 3.8 |
| PLE | MAY -2001 | 1.7 ± 1.4 | 37.2 ± 4.9 |
| PLE | JUNE -2001 | 0.8 ± 1.2 | 31.2 ± 4.8 |
| PLE | JULY -2001 | 0.9 ± 0.9 | 33.4 ± 4.7 |
| PLE | AUGUST -2001 | 0.6 ± 1.4 | 31.1 ± 4.1 |
| PLE | SEPTEMBER-2001 | 1.0 ± 1.2 | 37.4 ± 4.7 |
| PLE | OCTOBER -2001 | 1.8 ± 1.5 | 35.3 ± 4.6 |
| PLE | NOVEMBER -2001 | 1.4 ± 1.1 | 29.9 ± 4.8 |
| PLE | DECEMBER -2001 | 2.9 ± 1.5 | 28.5 ± 4.2 |
| AVERAGE | | 1.5 ± 1.3 | 32.2 ± 4.5 |

| Source | Month | Gross Alpha Radiation | Gross Beta Radiation |
|---|---|---|---|
| PLR | JANUARY -2001 | 0.6 ± 1.3 | 26.3 ± 4.7 |
| PLR | FEBRUARY -2001 | 0.6 ± 1.3 | 34.6 ± 4.6 |
| PLR | MARCH -2001 | -0.2 ± 1.2 | 30.0 ± 4.5 |
| PLR | APRIL -2001 | 0.5 ± 1.3 | 31.3 ± 4.7 |
| PLR | MAY -2001 | -0.3 ± 1.2 | 39.2 ± 5.0 |
| PLR | JUNE -2001 | 0.3 ± 1.1 | 33.1 ± 5.3 |
| PLR | JULY -2001 | 1.9 ± 1.1 | 29.0 ± 4.5 |
| PLR | AUGUST -2001 | -1.0 ± 1.1 | 26.3 ± 4.1 |
| PLR | SEPTEMBER-2001 | 1.3 ± 1.1 | 36.6 ± 4.5 |
| PLR | OCTOBER -2001 | 0.9 ± 1.4 | 37.4 ± 4.7 |
| PLR | NOVEMBER -2001 | 3.5 ± 1.6 | 28.0 ± 4.7 |
| PLR | DECEMBER -2001 | 3.8 ± 1.7 | 35.3 ± 4.6 |
| AVERAGE | | 1.0 ± 1.3 | 32.3 ± 4.6 |

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-2001 To 31-DEC-2001

| Analyte | MDL | Units | PLE JAN Avg | PLE FEB Avg | PLE MAR Avg | PLE APR Avg | PLE MAY Avg | PLE JUN Avg | PLE JUL Avg | PLE AUG Avg | PLE SEP Avg | PLE OCT Avg | PLE NOV Avg | PLE DEC Avg | PLE Avg | Average |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aldrin | 20 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Dieldrin | 40 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| BHC, Alpha isomer | 20 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| BHC, Beta isomer | 30 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| BHC, Gamma isomer | 10 | NG/L | 13 | 10 | 13 | 15 | 18 | 21 | 23 | 19 | 18 | 16 | 15 | 15 | 16 | |
| BHC, Delta isomer | 30 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| p,p-DDD | 30 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| p,p-DDE | 20 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| p,p-DDT | 20 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| o,p-DDD | 20 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| o,p-DDE | 40 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| o,p-DDT | 20 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Heptachlor | 3 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Heptachlor epoxide | 30 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Alpha (cis) Chlordane | 14 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Gamma (trans) Chlordane | 14 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Alpha Chlordene | | NG/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Gamma Chlordene | | NG/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Oxychlordane | 10 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Trans Nonachlor | 10 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Cis Nonachlor | | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Alpha Endosulfan | 20 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Beta Endosulfan | | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Endosulfan Sulfate | | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Endrin | 30 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Endrin aldehyde | 23 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Mirex | 20 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Methoxychlor | | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Toxaphene | 240 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| PCB 1016 | 600 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| PCB 1221 | | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| PCB 1232 | | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| PCB 1242 | 70 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| PCB 1248 | | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| PCB 1254 | | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| PCB 1260 | 300 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| PCB 1262 | | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Aldrin + Dieldrin | 40 | NG/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Hexachlorocyclohexanes | 30 | NG/L | 13 | 10 | 13 | 15 | 18 | 21 | 23 | 19 | 18 | 16 | 15 | 15 | 16 | |
| DDT and derivatives | 40 | NG/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Chlordane + related cmpds. | 14 | NG/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Polychlorinated biphenyls | 600 | NG/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Endosulfans | 20 | NG/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Heptachlors | 30 | NG/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Chlorinated Hydrocarbons | 600 | NG/L | 13 | 10 | 13 | 15 | 18 | 21 | 23 | 19 | 18 | 16 | 15 | 15 | 16 | |

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

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

POINT LOMA WASTEWATER TREATMENT PLANT
SEWAGE ANNUAL - Chlorinated Pesticide Analysis

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

| Analyte | MDL | Units | PLR JAN Avg | PLR FEB Avg | PLR MAR Avg | PLR APR Avg | PLR MAY Avg | PLR JUN Avg | PLR JUL Avg | PLR AUG Avg | PLR SEP Avg | PLR OCT Avg | PLR NOV Avg | PLR DEC Avg | PLR Average |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aldrin | 20 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Dieldrin | 40 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| BHC, Alpha isomer | 20 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| BHC, Beta isomer | 30 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| BHC, Gamma isomer | 10 | NG/L | 41 | 35 | 26 | 50 | 44 | 37 | 27 | 46 | 54 | 43 | 45 | 41 | 41 |
| BHC, Delta isomer | 30 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| p,p-DDD | 30 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| p,p-DDE | 20 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| p,p-DDT | 20 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| o,p-DDD | 20 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| o,p-DDE | 40 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| o,p-DDT | 20 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Heptachlor | 3 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Heptachlor epoxide | 30 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Alpha (cis) Chlordane | 14 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Gamma (trans) Chlordane | 14 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Alpha Chlordene | | NG/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Gamma Chlordene | | NG/L | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Oxychlordane | 10 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Trans Nonachlor | 10 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Cis Nonachlor | | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Alpha Endosulfan | 20 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Beta Endosulfan | | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Endosulfan Sulfate | | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Endrin | 30 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Endrin aldehyde | 23 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Mirex | 20 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Methoxychlor | | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Toxaphene | 240 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| PCB 1016 | 600 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| PCB 1221 | | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| PCB 1232 | | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| PCB 1242 | 70 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| PCB 1248 | | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| PCB 1254 | | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| PCB 1260 | 300 | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| PCB 1262 | | NG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Aldrin + Dieldrin | 40 | NG/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hexachlorocyclohexanes | 30 | NG/L | 41 | 35 | 26 | 50 | 44 | 37 | 27 | 46 | 54 | 43 | 45 | 41 | 41 |
| DDT and derivatives | 40 | NG/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chlordane + related cmpds. | 14 | NG/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Polychlorinated biphenyls | 600 | NG/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Endosulfans | 20 | NG/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Heptachlors | 30 | NG/L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Chlorinated Hydrocarbons | 600 | NG/L | 41 | 35 | 26 | 50 | 44 | 37 | 27 | 46 | 54 | 43 | 45 | 41 | 41 |

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

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

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

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

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

| Analyte | MDL | Units | PLE 09-OCT-2001 P120742 | PLR 09-OCT-2001 P120747 |
|---|---|---|---|---|
| Demeton O | .09 | UG/L | ND | ND |
| Demeton S | .05 | UG/L | ND | ND |
| Diazinon | .07 | UG/L | 0.2 | 0.1 |
| Guthion | .21 | UG/L | ND | ND |
| Malathion | .04 | UG/L | 0.1 | 0.1 |
| Parathion | .03 | UG/L | ND | ND |
| Thiophosphorus Pesticides | .21 | UG/L | 0.1 | 0.1 |
| Demeton -O, -S | .09 | UG/L | 0.0 | 0.0 |
| Total Organophosphorus Pesticides | .21 | UG/L | 0.4 | 0.4 |

Additional Analytes.....

| | | | | |
|---|---|---|---|---|
| Tetraethylpyrophosphate | | UG/L | ND | ND |
| Dichlorvos | | UG/L | ND | ND |
| Dibrom | | UG/L | ND | ND |
| Ethoprop | | UG/L | ND | ND |
| Phorate | | UG/L | ND | ND |
| Sulfotepp | | UG/L | ND | ND |
| Disulfoton | | UG/L | 0.1 | 0.1 |
| Monocrotophos | | UG/L | ND | ND |
| Dimethoate | | UG/L | ND | ND |
| Ronnel | | UG/L | ND | ND |
| Trichloronate | | UG/L | ND | ND |
| Merphos | | UG/L | ND | ND |
| Dichlofenthion | | UG/L | ND | ND |
| Tokuthion | | UG/L | ND | ND |
| Stirophos | | UG/L | ND | ND |
| Bolstar | | UG/L | ND | ND |
| Fensulfothion | | UG/L | ND | ND |
| EPN | | UG/L | ND | ND |
| Coumaphos | | UG/L | ND | ND |
| Mervinphos, e isomer | | UG/L | ND | ND |
| Mervinphos, z isomer | | UG/L | ND | ND |
| Chlorpyrifos | .05 | UG/L | ND | 0.1 |

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

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

From 01-JAN-2001 To 31-DEC-2001
Sampling: LC,JF,JM,KW,PG,BGB  Analysis:

| Analyte | MDL | Units | PLE JAN | PLE FEB | PLE MAR | PLE APR | PLE MAY | PLE JUN | PLE JUL | PLE AUG | PLE SEP | PLE OCT | PLE NOV | PLE DEC | Average |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dibutyl tin | .007 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Monobutyl Tin | .01 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Tributyl tin | .005 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

| Analyte | MDL | Units | PLR JAN | PLR FEB | PLR MAR | PLR APR | PLR MAY | PLR JUN | PLR JUL | PLR AUG | PLR SEP | PLR OCT | PLR NOV | PLR DEC | Average |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Dibutyl tin | .007 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Monobutyl Tin | .01 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Tributyl tin | .005 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

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

POINT LOMA WASTEWATER TREATMENT PLANT
SEWAGE ANNUAL - Acid Extractables

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

| Analyte | MDL | Units | PLE JAN Avg | PLE FEB Avg | PLE MAR Avg | PLE APR Avg | PLE MAY Avg | PLE JUN Avg | PLE JUL Avg | PLE AUG Avg | PLE SEP Avg | PLE OCT Avg | PLE NOV Avg | PLE DEC Avg | Avg | Average |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2-chlorophenol | 3.6 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 2,4-dichlorophenol | 6.1 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 4-chloro-3-methylphenol | 3.6 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 2,4,6-trichlorophenol | 3.4 | UG/L | ND | 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 | ND |
| Phenol | 2.53 | UG/L | 12.0 | 14.9 | 9.1 | 16.8 | 12.5 | 10.7 | 8.5 | 10.0 | 7.6 | 8.7 | 12.0 | 9.6 | 11.0 | |
| 2-nitrophenol | 4.5 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 2,4-dimethylphenol | 4.6 | UG/L | ND | 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 | ND |
| 4-nitrophenol | 6.1 | UG/L | ND | 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 | ND |
| Total Chlorinated Phenols | 6.1 | 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 | |
| Total Non-Chlorinated Phenols | 6.1 | UG/L | 12.0 | 14.9 | 9.1 | 16.8 | 12.5 | 10.7 | 8.5 | 10.0 | 7.6 | 8.7 | 12.0 | 9.6 | 11.0 | |
| Phenols | 6.1 | UG/L | 12.0 | 14.9 | 9.1 | 16.8 | 12.5 | 10.7 | 8.5 | 10.0 | 7.6 | 8.7 | 12.0 | 9.6 | 11.0 | |
| Additional analytes determined; | | | | | | | | | | | | | | | | |
| 2-methylphenol | 5.1 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 3-methylphenol(4-MP is unresolved) | 4.4 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 4-methylphenol(3-MP is unresolved) | 4.4 | UG/L | 39.8 | 43.9 | 27.3 | 56.1 | 37.4 | 25.6 | 24.3 | 23.6 | 14.8 | 22.1 | 29.5 | 31.9 | 31.4 | |
| 2,4,5-trichlorophenol | 3.6 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

| Analyte | MDL | Units | PLR JAN Avg | PLR FEB Avg | PLR MAR Avg | PLR APR Avg | PLR MAY Avg | PLR JUN Avg | PLR JUL Avg | PLR AUG Avg | PLR SEP Avg | PLR OCT Avg | PLR NOV Avg | PLR DEC Avg | Avg | Average |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2-chlorophenol | 3.6 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 2,4-dichlorophenol | 6.1 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 4-chloro-3-methylphenol | 3.6 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 2,4,6-trichlorophenol | 3.4 | UG/L | ND | 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 | ND |
| Phenol | 2.53 | UG/L | 15.4 | 16.6 | 15.0 | 22.2 | 17.2 | 18.3 | 16.6 | 16.2 | 16.1 | 12.4 | 20.0 | 16.2 | 16.9 | |
| 2-nitrophenol | 4.5 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 2,4-dimethylphenol | 4.6 | UG/L | ND | 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 | ND |
| 4-nitrophenol | 6.1 | UG/L | ND | 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 | ND |
| Total Chlorinated Phenols | 6.1 | 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 | |
| Total Non-Chlorinated Phenols | 6.1 | UG/L | 15.4 | 16.6 | 15.0 | 22.2 | 17.2 | 18.3 | 16.6 | 16.2 | 16.1 | 12.4 | 20.0 | 16.2 | 16.9 | |
| Phenols | 6.1 | UG/L | 15.4 | 16.6 | 15.0 | 22.2 | 17.2 | 18.3 | 16.6 | 16.2 | 16.1 | 12.4 | 20.0 | 16.2 | 16.9 | |
| Additional analytes determined; | | | | | | | | | | | | | | | | |
| 2-methylphenol | 5.1 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 3-methylphenol(4-MP is unresolved) | 4.4 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 4-methylphenol(3-MP is unresolved) | 4.4 | UG/L | 53.2 | 51.1 | 49.0 | 76.9 | 57.6 | 56.8 | 47.4 | 39.7 | 38.7 | 35.7 | 52.8 | 60.0 | 51.6 | |
| 2,4,5-trichlorophenol | 3.6 | UG/L | ND | 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-2001 To 31-DEC-2001

| Analyte | MDL | Units | PLE JAN Avg | PLE FEB Avg | PLE MAR Avg | PLE APR Avg | PLE MAY Avg | PLE JUN Avg | PLE JUL Avg | PLE AUG Avg | PLE SEP Avg | PLE OCT Avg | PLE NOV Avg | PLE DEC Avg | PLE Avg | Average |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| bis(2-chloroethyl) ether | 2.62 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,3-dichlorobenzene | 2.7 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-dichlorobenzene | 2.8 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,4-dichlorobenzene | 2.8 | UG/L | <2.8 | <2.8 | <2.8 | <2.3 | <2.3 | <2.3 | <2.3 | <2.3 | <2.3 | <2.3 | <2.3 | <2.3 | <2.3 | 0.0 |
| Bis-(2-chloroisopropyl) ether | 8.95 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| N-nitrosodi-n-propylamine | 5 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Nitrobenzene | 7.3 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Hexachloroethane | 4 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Isophorone | 2.5 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| bis(2-chloroethoxy)methane | 2.1 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2,4-trichlorobenzene | 1.44 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Naphthalene | 1.6 | UG/L | ND | 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 | ND |
| Hexachlorocyclopentadiene | | UG/L | ND | 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 | ND |
| Dimethyl phthalate | 5.6 | UG/L | ND | 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 | ND |
| Acenaphthene | 2.2 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 2,4-dinitrotoluene | 1.7 | UG/L | ND | 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 | ND |
| 4-chlorophenyl phenyl ether | 5.1 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Diethyl phthalate | 8 | UG/L | <8.0 | 12.5 | ND | <7.0 | 13.6 | ND | 8.5 | 12.2 | ND | ND | ND | ND | ND | 3.9 |
| N-nitrosodiphenylamine | 5.2 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 4-bromophenyl phenyl ether | 4.4 | UG/L | ND | 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 | ND |
| Phenanthrene | 4.15 | UG/L | ND | 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 | ND |
| Di-n-butyl phthalate | 6.49 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| N-nitrosodimethylamine | 2.7 | UG/L | ND | 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 | ND |
| Pyrene | 5.19 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Benzidine | 1.7 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Butyl benzyl phthalate | 5.2 | UG/L | ND | 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 | ND |
| Benzo[A]anthracene | 7.68 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Bis-(2-ethylhexyl) phthalate | 10.43 | UG/L | 8.6 | ND | 11.3 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1.7 |
| Di-n-octyl phthalate | 10.7 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 3,3-dichlorobenzidine | 2.43 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Benzo[K]fluoranthene | 7.36 | UG/L | ND | 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 | ND |
| Benzo[A]pyrene | 7.4 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Indeno(1,2,3-CD)pyrene | 7.4 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Dibenzo(A,H)anthracene | 7.8 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Benzo[G,H,I]perylene | 7 | UG/L | ND | 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 | ND |
| Total Dichlorobenzenes | 2.8 | 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 |
| Polynuc. Aromatic Hydrocarbons | 7.8 | 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 |
| Base/Neutral Compounds | 10.7 | UG/L | 8.6 | 12.5 | 11.3 | 0.0 | 13.6 | 0.0 | 8.5 | 12.2 | 0.0 | 0.0 | 0.0 | 0.0 | 5.6 | |
| Additional analytes determined; | | | | | | | | | | | | | | | | |
| 1-methylnaphthalene | 2.18 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 2-methylnaphthalene | 2.25 | UG/L | ND | 1.3 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.1 |
| 2,6-dimethylnaphthalene | 3.31 | UG/L | ND | 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 | ND |
| 1-methylphenanthrene | 6.29 | UG/L | ND | 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 | ND |
| Perylene | 6.61 | UG/L | ND | 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 |

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

POINT LOMA WASTEWATER TREATMENT PLANT
SEWAGE ANNUAL Priority Pollutants Base/Neutrals
From 01-JAN-2001 To 31-DEC-2001

| Analyte | MDL | Units | PLR JAN Avg | PLR FEB Avg | PLR MAR Avg | PLR APR Avg | PLR MAY Avg | PLR JUN Avg | PLR JUL Avg | PLR AUG Avg | PLR SEP Avg | PLR OCT Avg | PLR NOV Avg | PLR DEC Avg | PLR Avg | Average |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| bis(2-chloroethyl) ether | 2.62 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,3-dichlorobenzene | 2.7 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-dichlorobenzene | 2.8 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,4-dichlorobenzene | 2.8 | UG/L | <2.8 | <2.8 | <2.8 | <2.3 | <2.3 | <2.3 | <2.3 | <2.3 | <2.3 | <2.3 | 2.5 | <2.3 | 0.2 | |
| Bis-(2-chloroisopropyl) ether | 8.95 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| N-nitrosodi-n-propylamine | 5 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Nitrobenzene | 7.3 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Hexachloroethane | 4 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Isophorone | 2.5 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| bis(2-chloroethoxy)methane | 2.1 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2,4-trichlorobenzene | 1.44 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Naphthalene | 1.6 | UG/L | ND | 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 | ND |
| Hexachlorocyclopentadiene | | UG/L | ND | 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 | ND |
| Dimethyl phthalate | 5.6 | UG/L | ND | 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 | ND |
| Acenaphthene | 2.2 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 2,4-dinitrotoluene | 1.7 | UG/L | ND | 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 | ND |
| 4-chlorophenyl phenyl ether | 5.1 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Diethyl phthalate | 8 | UG/L | ND | 10.8 | ND | ND | 13.0 | ND | ND | ND | ND | ND | ND | ND | 2.0 | |
| N-nitrosodiphenylamine | 5.2 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 4-bromophenyl phenyl ether | 4.4 | UG/L | ND | 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 | ND |
| Phenanthrene | 4.15 | UG/L | ND | 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 | ND |
| Di-n-butyl phthalate | 6.49 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| N-nitrosodimethylamine | 2.7 | UG/L | ND | 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 | ND |
| Pyrene | 5.19 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Benzidine | 1.7 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Butyl benzyl phthalate | 5.2 | UG/L | ND | ND | ND | ND | ND | <4.8 | ND | ND | ND | ND | ND | ND | ND | <0.0 |
| Chrysene | 7.49 | UG/L | ND | 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 | ND |
| Bis-(2-ethylhexyl) phthalate | 10.43 | UG/L | 24.3 | 15.3 | 20.5 | 10.7 | 32.4 | 20.6 | ND | 11.2 | 10.6 | ND | ND | 14.6 | 13.4 | |
| Di-n-octyl phthalate | 10.7 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 3,3-dichlorobenzidine | 2.43 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Benzo[K]fluoranthene | 7.36 | UG/L | ND | 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 | ND |
| Benzo[A]pyrene | 7.4 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Indeno(1,2,3-CD)pyrene | 7.4 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Dibenzo(A,H)anthracene | 7.8 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Benzo[G,H,I]perylene | 7 | UG/L | ND | 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 | ND |
| Total Dichlorobenzenes | 2.8 | UG/L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Polynuc. Aromatic Hydrocarbons | 7.8 | 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 | 10.7 | UG/L | 24.3 | 26.1 | 20.5 | 10.7 | 45.4 | <20.6 | 0.0 | 11.2 | 10.6 | 0.0 | 2.5 | 14.6 | 15.5 | |
| Additional dtermined determined; | | | | | | | | | | | | | | | | |
| 1-methylnaphthalene | 2.18 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 2-methylnaphthalene | 2.25 | UG/L | ND | 1.3 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.1 | |
| 2,6-dimethylnaphthalene | 3.31 | UG/L | ND | 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 | ND |
| 1-methylphenanthrene | 6.29 | UG/L | ND | 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 | ND |
| Perylene | 6.61 | UG/L | ND | 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 |

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

POINT LOMA WASTEWATER TREATMENT PLANT
SEWAGE ANNUAL Priority Pollutants Purgeables

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

| Analyte | MDL | Units | PLE JAN Avg | PLE FEB Avg | PLE MAR Avg | PLE APR Avg | PLE MAY Avg | PLE JUN Avg | PLE JUL Avg | PLE AUG Avg | PLE SEP Avg | PLE OCT Avg | PLE NOV Avg | PLE DEC Avg | PLE Avg | Average |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | 3.23 | UG/L | ND | ND | ND | ND | ND | 1.2 | ND | ND | ND | ND | ND | ND | 0.1 |
| Bromomethane | 1.39 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | <1.0 | <1.0 | 0.0 |
| Vinyl chloride | 1.04 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Chloroethane | 3 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1-dichloroethene | 1.09 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Trichlorofluoromethane | 3.92 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Methylene chloride | 1.29 | UG/L | 2.3 | 3.5 | 1.5 | 5.5 | 2.9 | 2.7 | 1.6 | 3.0 | 2.9 | 4.0 | 3.6 | 2.2 | 3.0 |
| 1,1-dichloroethane | 1 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| trans-1,2-dichloroethene | 1 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Chloroform | 1 | UG/L | 5.8 | 7.0 | 8.3 | 7.8 | 9.3 | 8.1 | 6.3 | 5.6 | 9.2 | 9.1 | 7.0 | 5.6 | 7.4 |
| 1,2-dichloroethane | 2.24 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,1-trichloroethane | 1 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Carbon tetrachloride | 1.92 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Bromodichloromethane | 1.79 | UG/L | 1.5 | 3.4 | 3.3 | ND | 1.2 | 1.7 | 1.3 | ND | 1.9 | 1.8 | ND | 2.1 | 1.5 |
| 1,2-dichloropropane | 1 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| trans-1,3-dichloropropene | 1.27 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Trichloroethene | 1.32 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Benzene | 1 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Dibromochloromethane | 1.99 | UG/L | 1.2 | 2.8 | 2.5 | ND | ND | 1.3 | 18.4 | ND | 1.4 | 1.3 | ND | 1.9 | 2.6 |
| 1,1,2-trichloroethane | 3.02 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| cis-1,3-dichloropropene | 1.01 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 2-chloroethylvinyl ether | 5 | UG/L | ND | * | ND | ND | ND | * | ND | ND | ND | ND | ND | ND | ND |
| Bromoform | 6.1 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2,2-tetrachloroethane | 3.13 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Tetrachloroethene | 1.04 | UG/L | ND | 2.0 | ND | 1.5 | ND | 2.2 | ND | ND | 5.0 | 3.6 | ND | ND | 1.2 |
| Toluene | 1.01 | UG/L | 1.5 | 2.4 | 1.5 | 1.3 | 2.6 | 1.5 | ND | 1.5 | 1.5 | 7.5 | 2.2 | 1.4 | 2.1 |
| Chlorobenzene | 1 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Ethylbenzene | 1.46 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Acrylonitrile | 13.8 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND* | ND | ND | ND | ND |
| Acrolein | 11.4 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND* | ND | ND | ND | ND |
| Halomethane Purgeable Cmpnds | 6.1 | UG/L | 2.7 | 6.2 | 5.8 | 0.0 | 1.2 | 4.2 | 19.7 | 0.0 | 3.3 | 3.1 | 0.0 | 4.0 | 4.2 |
| Purgeable Compounds | 13.8 | UG/L | 12.3 | 21.1 | 17.1 | 16.1 | 16.0 | 18.7 | 27.6 | 10.1 | 21.9 | 27.3 | 12.8 | 13.2 | 17.9 |
| Additional analytes determined; | | | | | | | | | | | | | | | | |
| Allyl chloride | 1.4 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND* | ND | ND | ND | ND |
| 4-methyl-2-pentanone | 6.1 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND* | ND | ND | ND | ND |
| meta,para xylenes | 3.1 | UG/L | ND | ND | ND | ND | ND | 1.1 | ND | ND | ND* | ND | ND | ND | 0.1 |
| Styrene | 4.7 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND* | ND | ND | ND | ND |
| 1,2,4-trichlorobenzene | 1.44 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND* | ND | ND | ND | ND |
| Methyl Iodide | 1.3 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND* | ND | ND | ND | ND |
| Chloroprene | 1.4 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND* | ND | ND | ND | ND |
| Methyl methacrylate | 4.6 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND* | ND | ND | ND | ND |
| 2-nitropropane | 10 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND* | ND | ND | ND | ND |
| 1,2-dibromoethane | 3.3 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND* | ND | ND | ND | ND |
| Isopropylbenzene | 4.4 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND* | ND | ND | ND | ND |
| Benzyl chloride | 7.2 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND* | ND | ND | ND | ND |
| ortho-xylene | 3.4 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND* | ND | ND | ND | ND |
| Acetone | 20 | UG/L | 613 | 1070 | 1410 | 2940 | 795 | 871 | 1150 | 1380 | ND* | 689 | 1465** | 635 | 1155 |
| Carbon disulfide | 1 | UG/L | 1.2 | 5.7 | 2.1 | 21.6 | 1.9 | 1.7 | 1.5 | 2.0 | ND* | 2.5 | 2.0 | 1.5 | 4.0 |
| 2-butanone | 4 | UG/L | ND | ND | ND | ND | ND | ND | ND | ND | ND* | ND | ND | ND | ND |
| Methyl tert-butyl ether | 1 | UG/L | 2.2 | 5.3 | 2.7 | 5.4 | 17.6 | 8.8 | ND | 2.8 | ND* | 3.1 | ND | 3.1 | 4.6 |

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

* = Not reportable(Did not satisfy quality control criteria)
** = Not reportable(value exceeded calibration range)

POINT LOMA WASTEWATER TREATMENT PLANT
SEWAGE ANNUAL Priority Pollutants Purgeables

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

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

Additional analytes determined;

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

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

* = Not reportable(Did not satisfy quality control criteria)
** = Not reportable(value exceeded calibration range)

POINT LOMA WASTEWATER TREATMENT PLANT
Annual Sewage Dioxin and Furan Analysis

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

Sampled by: M. Slattery
Analyzed by: Pacific Analytical Inc.

| Analyte | MDL | Units | Equiv | PLE JAN P94772 | PLE FEB P96934 | PLE MAR P99402 | PLE APR P101845 | PLE MAY P106670 | PLE JUN P109842 |
|---|---|---|---|---|---|---|---|---|---|
| 2,3,7,8-tetra CDD | 10 | PG/L | 1.000 | ND | ND | ND | ND | ND | ND |
| 1,2,3,7,8-penta CDD | 50 | PG/L | 0.500 | ND | ND | ND | ND | ND | ND |
| 1,2,3,4,7,8_hexa_CDD | 50 | PG/L | 0.100 | ND | ND | ND | ND | ND | ND |
| 1,2,3,6,7,8-hexa CDD | 50 | PG/L | 0.100 | ND | ND | ND | ND | ND | ND |
| 1,2,3,7,8,9-hexa CDD | 50 | PG/L | 0.100 | ND | ND | ND | ND | ND | ND |
| 1,2,3,4,6,7,8-hepta CDD | 50 | PG/L | 0.010 | ND | ND | ND | ND | ND | ND |
| octa CDD | 100 | PG/L | 0.001 | ND | ND | 780.000 | <100.000 | ND | ND |
| 2,3,7,8-tetra CDF | 10 | PG/L | 0.100 | ND | ND | ND | ND | ND | ND |
| 1,2,3,7,8-penta CDF | 50 | PG/L | 0.050 | ND | ND | ND | ND | ND | ND |
| 2,3,4,7,8-penta CDF | 50 | PG/L | 0.500 | ND | ND | ND | ND | ND | ND |
| 1,2,3,4,7,8-hexa CDF | 50 | PG/L | 0.100 | ND | ND | ND | ND | ND | ND |
| 1,2,3,6,7,8-hexa CDF | 50 | PG/L | 0.100 | ND | ND | ND | ND | ND | ND |
| 1,2,3,7,8,9-hexa CDF | 50 | PG/L | 0.100 | ND | ND | ND | ND | ND | ND |
| 2,3,4,6,7,8-hexa CDF | 50 | PG/L | 0.100 | ND | ND | ND | ND | ND | ND |
| 1,2,3,4,6,7,8-hepta CDF | 50 | PG/L | 0.010 | ND | ND | ND | ND | ND | ND |
| 1,2,3,4,7,8,9-hepta CDF | 50 | PG/L | 0.010 | ND | ND | ND | ND | ND | ND |
| octa CDF | 100 | PG/L | 0.001 | ND | ND | ND | ND | ND | ND |

| Analyte | MDL | Units | Equiv | PLE JUL P112083 | PLE AUG P115641 | PLE SEP P117992 | PLE OCT P120742 | PLE NOV P123281 | PLE DEC P125689 |
|---|---|---|---|---|---|---|---|---|---|
| 2,3,7,8-tetra CDD | 10 | PG/L | 1.000 | ND | ND | ND | ND | ND | ND |
| 1,2,3,7,8-penta CDD | 50 | PG/L | 0.500 | ND | ND | ND | ND | ND | ND |
| 1,2,3,4,7,8_hexa_CDD | 50 | PG/L | 0.100 | ND | ND | ND | ND | ND | ND |
| 1,2,3,6,7,8-hexa CDD | 50 | PG/L | 0.100 | ND | ND | ND | ND | ND | ND |
| 1,2,3,7,8,9-hexa CDD | 50 | PG/L | 0.100 | ND | ND | ND | ND | ND | ND |
| 1,2,3,4,6,7,8-hepta CDD | 50 | PG/L | 0.010 | ND | ND | ND | ND | ND | ND |
| octa CDD | 100 | PG/L | 0.001 | ND | 200.000 | ND | ND | <100.000 | <100.000 |
| 2,3,7,8-tetra CDF | 10 | PG/L | 0.100 | ND | ND | ND | ND | ND | ND |
| 1,2,3,7,8-penta CDF | 50 | PG/L | 0.050 | ND | ND | ND | ND | ND | ND |
| 2,3,4,7,8-penta CDF | 50 | PG/L | 0.500 | ND | ND | ND | ND | ND | ND |
| 1,2,3,4,7,8-hexa CDF | 50 | PG/L | 0.100 | ND | ND | ND | ND | ND | ND |
| 1,2,3,6,7,8-hexa CDF | 50 | PG/L | 0.100 | ND | ND | ND | ND | ND | ND |
| 1,2,3,7,8,9-hexa CDF | 50 | PG/L | 0.100 | ND | ND | ND | ND | ND | ND |
| 2,3,4,6,7,8-hexa CDF | 50 | PG/L | 0.100 | ND | ND | ND | ND | ND | ND |
| 1,2,3,4,6,7,8-hepta CDF | 50 | PG/L | 0.010 | ND | ND | ND | ND | ND | ND |
| 1,2,3,4,7,8,9-hepta CDF | 50 | PG/L | 0.010 | ND | ND | ND | ND | ND | ND |
| octa CDF | 100 | PG/L | 0.001 | ND | ND | ND | ND | ND | ND |

Above are permit required CDD/CDF isomers.

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

POINT LOMA WASTEWATER TREATMENT PLANT
Annual Sewage Dioxin and Furan Analysis

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

Sampled by: M. Slattery
Analyzed by: Pacific Analytical Inc.

| Analyte | MDL | Units | PLE TCDD JAN P94772 | PLE TCDD FEB P96934 | PLE TCDD MAR P99402 | PLE TCDD APR P101845 | PLE TCDD MAY P106670 | PLE TCDD JUN P109842 |
|---|---|---|---|---|---|---|---|---|
| 2,3,7,8-tetra CDD | 10 | PG/L | ND | ND | ND | ND | ND | ND |
| 1,2,3,7,8-penta CDD | 50 | PG/L | ND | ND | ND | ND | ND | ND |
| 1,2,3,4,7,8_hexa_CDD | 50 | PG/L | ND | ND | ND | ND | ND | ND |
| 1,2,3,6,7,8-hexa CDD | 50 | PG/L | ND | ND | ND | ND | ND | ND |
| 1,2,3,7,8,9-hexa CDD | 50 | PG/L | ND | ND | ND | ND | ND | ND |
| 1,2,3,4,6,7,8-hepta CDD | 50 | PG/L | ND | ND | ND | ND | ND | ND |
| octa CDD | 100 | PG/L | ND | ND | 0.780 | 0.065 | ND | ND |
| 2,3,7,8-tetra CDF | 10 | PG/L | ND | ND | ND | ND | ND | ND |
| 1,2,3,7,8-penta CDF | 50 | PG/L | ND | ND | ND | ND | ND | ND |
| 2,3,4,7,8-penta CDF | 50 | PG/L | ND | ND | ND | ND | ND | ND |
| 1,2,3,4,7,8-hexa CDF | 50 | PG/L | ND | ND | ND | ND | ND | ND |
| 1,2,3,6,7,8-hexa CDF | 50 | PG/L | ND | ND | ND | ND | ND | ND |
| 1,2,3,7,8,9-hexa CDF | 50 | PG/L | ND | ND | ND | ND | ND | ND |
| 2,3,4,6,7,8-hexa CDF | 50 | PG/L | ND | ND | ND | ND | ND | ND |
| 1,2,3,4,6,7,8-hepta CDF | 50 | PG/L | ND | ND | ND | ND | ND | ND |
| 1,2,3,4,7,8,9-hepta CDF | 50 | PG/L | ND | ND | ND | ND | ND | ND |
| octa CDF | 100 | PG/L | ND | ND | ND | ND | ND | ND |

| Analyte | MDL | Units | PLE TCDD JUL P112083 | PLE TCDD AUG P115641 | PLE TCDD SEP P117992 | PLE TCDD OCT P120742 | PLE TCDD NOV P123281 | PLE TCDD DEC P125689 |
|---|---|---|---|---|---|---|---|---|
| 2,3,7,8-tetra CDD | 10 | PG/L | ND | ND | ND | ND | ND | ND |
| 1,2,3,7,8-penta CDD | 50 | PG/L | ND | ND | ND | ND | ND | ND |
| 1,2,3,4,7,8_hexa_CDD | 50 | PG/L | ND | ND | ND | ND | ND | ND |
| 1,2,3,6,7,8-hexa CDD | 50 | PG/L | ND | ND | ND | ND | ND | ND |
| 1,2,3,7,8,9-hexa CDD | 50 | PG/L | ND | ND | ND | ND | ND | ND |
| 1,2,3,4,6,7,8-hepta CDD | 50 | PG/L | ND | ND | ND | ND | ND | ND |
| octa CDD | 100 | PG/L | ND | 0.200 | ND | ND | 0.095 | 0.095 |
| 2,3,7,8-tetra CDF | 10 | PG/L | ND | ND | ND | ND | ND | ND |
| 1,2,3,7,8-penta CDF | 50 | PG/L | ND | ND | ND | ND | ND | ND |
| 2,3,4,7,8-penta CDF | 50 | PG/L | ND | ND | ND | ND | ND | ND |
| 1,2,3,4,7,8-hexa CDF | 50 | PG/L | ND | ND | ND | ND | ND | ND |
| 1,2,3,6,7,8-hexa CDF | 50 | PG/L | ND | ND | ND | ND | ND | ND |
| 1,2,3,7,8,9-hexa CDF | 50 | PG/L | ND | ND | ND | ND | ND | ND |
| 2,3,4,6,7,8-hexa CDF | 50 | PG/L | ND | ND | ND | ND | ND | ND |
| 1,2,3,4,6,7,8-hepta CDF | 50 | PG/L | ND | ND | ND | ND | ND | ND |
| 1,2,3,4,7,8,9-hepta CDF | 50 | PG/L | ND | ND | ND | ND | ND | ND |
| octa CDF | 100 | PG/L | ND | ND | ND | ND | ND | ND |

Above are permit required CDD/CDF isomers.

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

POINT LOMA WASTEWATER TREATMENT PLANT
Annual Sewage Dioxin and Furan Analysis

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

Sampled by: M. Slattery

| Analyte | MDL | Units | Equiv | PLR JAN P94775 | PLR FEB P96939 | PLR MAR P99405 | PLR APR P101848 | PLR MAY P106675 | PLR JUN P109845 |
|---|---|---|---|---|---|---|---|---|---|
| 2,3,7,8-tetra CDD | 10 | PG/L | 1.000 | ND | NA | ND | ND | ND | ND |
| 1,2,3,7,8-penta CDD | 50 | PG/L | 0.500 | ND | NA | ND | ND | ND | ND |
| 1,2,3,4,7,8_hexa_CDD | 50 | PG/L | 0.100 | ND | NA | ND | ND | ND | ND |
| 1,2,3,6,7,8-hexa CDD | 50 | PG/L | 0.100 | ND | NA | ND | ND | ND | ND |
| 1,2,3,7,8,9-hexa CDD | 50 | PG/L | 0.100 | ND | NA | ND | ND | ND | ND |
| 1,2,3,4,6,7,8-hepta CDD | 50 | PG/L | 0.010 | ND | NA | <50.000 | ND | ND | ND |
| octa CDD | 100 | PG/L | 0.001 | ND | NA | 630.000 | 220.000 | 180.000 | 580.000 |
| 2,3,7,8-tetra CDF | 10 | PG/L | 0.100 | ND | NA | ND | ND | ND | ND |
| 1,2,3,7,8-penta CDF | 50 | PG/L | 0.050 | ND | NA | ND | ND | ND | ND |
| 2,3,4,7,8-penta CDF | 50 | PG/L | 0.500 | ND | NA | ND | ND | ND | ND |
| 1,2,3,4,7,8-hexa CDF | 50 | PG/L | 0.100 | ND | NA | ND | ND | ND | ND |
| 1,2,3,6,7,8-hexa CDF | 50 | PG/L | 0.100 | ND | NA | ND | ND | ND | ND |
| 1,2,3,7,8,9-hexa CDF | 50 | PG/L | 0.100 | ND | NA | ND | ND | ND | ND |
| 2,3,4,6,7,8-hexa CDF | 50 | PG/L | 0.100 | ND | NA | ND | ND | ND | ND |
| 1,2,3,4,6,7,8-hepta CDF | 50 | PG/L | 0.010 | ND | NA | ND | ND | ND | ND |
| 1,2,3,4,7,8,9-hepta CDF | 50 | PG/L | 0.010 | ND | NA | ND | ND | ND | ND |
| octa CDF | 100 | PG/L | 0.001 | ND | NA | ND | ND | ND | ND |

| Analyte | MDL | Units | Equiv | PLR JUL P112086 | PLR AUG P115646 | PLR SEP P117995 | PLR OCT P120747 | PLR NOV P123284 | PLR DEC P125692 |
|---|---|---|---|---|---|---|---|---|---|
| 2,3,7,8-tetra CDD | 10 | PG/L | 1.000 | ND | ND | ND | ND | ND | ND |
| 1,2,3,7,8-penta CDD | 50 | PG/L | 0.500 | ND | ND | ND | ND | ND | ND |
| 1,2,3,4,7,8_hexa_CDD | 50 | PG/L | 0.100 | ND | ND | ND | ND | ND | ND |
| 1,2,3,6,7,8-hexa CDD | 50 | PG/L | 0.100 | ND | ND | ND | ND | ND | ND |
| 1,2,3,7,8,9-hexa CDD | 50 | PG/L | 0.100 | ND | ND | ND | ND | ND | ND |
| 1,2,3,4,6,7,8-hepta CDD | 50 | PG/L | 0.010 | ND | ND | ND | ND | 430.000 | ND |
| octa CDD | 100 | PG/L | 0.001 | ND | 170.000 | ND | ND | 3800.000 | ND |
| 2,3,7,8-tetra CDF | 10 | PG/L | 0.100 | ND | ND | ND | ND | ND | ND |
| 1,2,3,7,8-penta CDF | 50 | PG/L | 0.050 | ND | ND | ND | ND | ND | ND |
| 2,3,4,7,8-penta CDF | 50 | PG/L | 0.500 | ND | ND | ND | ND | ND | ND |
| 1,2,3,4,7,8-hexa CDF | 50 | PG/L | 0.100 | ND | ND | ND | ND | ND | ND |
| 1,2,3,6,7,8-hexa CDF | 50 | PG/L | 0.100 | ND | ND | ND | ND | ND | ND |
| 1,2,3,7,8,9-hexa CDF | 50 | PG/L | 0.100 | ND | ND | ND | ND | ND | ND |
| 2,3,4,6,7,8-hexa CDF | 50 | PG/L | 0.100 | ND | ND | ND | ND | ND | ND |
| 1,2,3,4,6,7,8-hepta CDF | 50 | PG/L | 0.010 | ND | ND | ND | ND | 73.000 | ND |
| 1,2,3,4,7,8,9-hepta CDF | 50 | PG/L | 0.010 | ND | ND | ND | ND | ND | ND |
| octa CDF | 100 | PG/L | 0.001 | ND | ND | ND | ND | 330.000 | ND |

Above are permit required CDD/CDF isomers.

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

POINT LOMA WASTEWATER TREATMENT PLANT
Annual Sewage Dioxin and Furan Analysis

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

| Analyte | MDL | Units | PLR TCDD JAN P94775 | PLR TCDD FEB P96939 | PLR TCDD MAR P99405 | PLR TCDD APR P101848 | PLR TCDD MAY P106675 | PLR TCDD JUN P109845 |
|---|---|---|---|---|---|---|---|---|
| 2,3,7,8-tetra CDD | 10 | PG/L | ND | NA | ND | ND | ND | ND |
| 1,2,3,7,8-penta CDD | 50 | PG/L | ND | NA | ND | ND | ND | ND |
| 1,2,3,4,7,8_hexa_CDD | 50 | PG/L | ND | NA | ND | ND | ND | ND |
| 1,2,3,6,7,8-hexa CDD | 50 | PG/L | ND | NA | ND | ND | ND | ND |
| 1,2,3,7,8,9-hexa CDD | 50 | PG/L | ND | NA | ND | ND | ND | ND |
| 1,2,3,4,6,7,8-hepta CDD | 50 | PG/L | ND | NA | 0.370 | ND | ND | ND |
| octa CDD | 100 | PG/L | ND | NA | 0.630 | 0.220 | 0.180 | 0.580 |
| 2,3,7,8-tetra CDF | 10 | PG/L | ND | NA | ND | ND | ND | ND |
| 1,2,3,7,8-penta CDF | 50 | PG/L | ND | NA | ND | ND | ND | ND |
| 2,3,4,7,8-penta CDF | 50 | PG/L | ND | NA | ND | ND | ND | ND |
| 1,2,3,4,7,8-hexa CDF | 50 | PG/L | ND | NA | ND | ND | ND | ND |
| 1,2,3,6,7,8-hexa CDF | 50 | PG/L | ND | NA | ND | ND | ND | ND |
| 1,2,3,7,8,9-hexa CDF | 50 | PG/L | ND | NA | ND | ND | ND | ND |
| 2,3,4,6,7,8-hexa CDF | 50 | PG/L | ND | NA | ND | ND | ND | ND |
| 1,2,3,4,6,7,8-hepta CDF | 50 | PG/L | ND | NA | ND | ND | ND | ND |
| 1,2,3,4,7,8,9-hepta CDF | 50 | PG/L | ND | NA | ND | ND | ND | ND |
| octa CDF | 100 | PG/L | ND | NA | ND | ND | ND | ND |

| Analyte | MDL | Units | PLR TCDD JUL P112086 | PLR TCDD AUG P115646 | PLR TCDD SEP P117995 | PLR TCDD OCT P120747 | PLR TCDD NOV P123284 | PLR TCDD DEC P125692 |
|---|---|---|---|---|---|---|---|---|
| 2,3,7,8-tetra CDD | 10 | PG/L | ND | ND | ND | ND | ND | ND |
| 1,2,3,7,8-penta CDD | 50 | PG/L | ND | ND | ND | ND | ND | ND |
| 1,2,3,4,7,8_hexa_CDD | 50 | PG/L | ND | ND | ND | ND | ND | ND |
| 1,2,3,6,7,8-hexa CDD | 50 | PG/L | ND | ND | ND | ND | ND | ND |
| 1,2,3,7,8,9-hexa CDD | 50 | PG/L | ND | ND | ND | ND | ND | ND |
| 1,2,3,4,6,7,8-hepta CDD | 50 | PG/L | ND | ND | ND | ND | 4.300 | ND |
| octa CDD | 100 | PG/L | ND | 0.170 | ND | ND | 3.800 | ND |
| 2,3,7,8-tetra CDF | 10 | PG/L | ND | ND | ND | ND | ND | ND |
| 1,2,3,7,8-penta CDF | 50 | PG/L | ND | ND | ND | ND | ND | ND |
| 2,3,4,7,8-penta CDF | 50 | PG/L | ND | ND | ND | ND | ND | ND |
| 1,2,3,4,7,8-hexa CDF | 50 | PG/L | ND | ND | ND | ND | ND | ND |
| 1,2,3,6,7,8-hexa CDF | 50 | PG/L | ND | ND | ND | ND | ND | ND |
| 1,2,3,7,8,9-hexa CDF | 50 | PG/L | ND | ND | ND | ND | ND | ND |
| 2,3,4,6,7,8-hexa CDF | 50 | PG/L | ND | ND | ND | ND | ND | ND |
| 1,2,3,4,6,7,8-hepta CDF | 50 | PG/L | ND | ND | ND | ND | 0.730 | ND |
| 1,2,3,4,7,8,9-hepta CDF | 50 | PG/L | ND | ND | ND | ND | ND | ND |
| octa CDF | 100 | PG/L | ND | ND | ND | ND | 0.330 | ND |

Above are permit required CDD/CDF isomers.

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

**2001**
**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 2, 2001 | 17,000,000 |
| February 1, 2001 | 8,000,000 |
| March 21, 2001 | 8,000,000 |
| April 2, 2001 | 8,000,000 |
| May 1, 2001 | 5,000,000 |
| June 4, 2001 | 50,000,000 |
| July 5, 2001 | 5,000,000 |
| August 6, 2001 | 5,000,000 |
| September 7, 2001 | 30,000,000 |
| October 1, 2001 | 8,000,000 |
| November 1, 2001 | 30,000,000 |
| December 3, 2001 | 17,000,000 |
| Average | 15,916,667 |

POINT LOMA WASTEWATER TREATMENT PLANT
From 01-JAN-2001 To 31-DEC-2001

SAMPLED BY: NL,JC,GR,MS,MC
ANALYZED BY: HD,JC,MC,GR,GS,JW,FM

| | Total Hardness | | Calcium Hardness | | Magnesium Hardness | | Calcium | | Magnesium | |
|---|---|---|---|---|---|---|---|---|---|---|
| MDL: | .22 | mg/L | .2 | mg/L | .08 | mg/L | .08 | mg/L | .02 | mg/L |
| | Inf. | Eff. | Inf. | Eff. | Inf. | Eff. | Inf. | Eff. | Inf. | Eff. |
| JANUARY -2001 | 430 | 399 | 221 | 198 | 208 | 200 | 89 | 79 | 51 | 49 |
| FEBRUARY -2001 | 394 | 391 | 207 | 202 | 187 | 189 | 83 | 81 | 45 | 46 |
| MARCH -2001 | 408 | 400 | 211 | 199 | 197 | 200 | 85 | 80 | 48 | 49 |
| APRIL -2001 | 421 | 405 | 221 | 208 | 200 | 197 | 89 | 83 | 49 | 48 |
| MAY -2001 | 440 | 406 | 228 | 207 | 212 | 199 | 91 | 83 | 52 | 48 |
| JUNE -2001 | 422 | 394 | 220 | 200 | 202 | 194 | 88 | 80 | 49 | 47 |
| JULY -2001 | 406 | 381 | 217 | 196 | 189 | 185 | 87 | 78 | 46 | 45 |
| AUGUST -2001 | 423 | 392 | 226 | 210 | 198 | 182 | 90 | 84 | 48 | 44 |
| SEPTEMBER-2001 | 424 | 395 | 216 | 202 | 208 | 193 | 87 | 81 | 50 | 47 |
| OCTOBER -2001 | 431 | 413 | 219 | 205 | 212 | 207 | 88 | 82 | 52 | 50 |
| NOVEMBER -2001 | 408 | 398 | 206 | 198 | 201 | 200 | 83 | 79 | 49 | 49 |
| DECEMBER -2001 | 392 | 358 | 199 | 178 | 193 | 180 | 80 | 71 | 47 | 44 |
| Average: | 417 | 394 | 216 | 200 | 201 | 194 | 87 | 80 | 49 | 47 |

| | Alkalinity | | Total Solids | | Total Vol. Solids | | Conductivity | | Fluoride | |
|---|---|---|---|---|---|---|---|---|---|---|
| MDL: | 8 | mg/L | 100 | mg/L | 100 | mg/L | 10umhos/cm | | .03 | mg/L |
| | Inf. | Eff. | Inf. | Eff. | Inf. | Eff. | Inf. | Eff. | Inf. | Eff. |
| JANUARY -2001 | 284 | 256 | 1730 | 1510 | 431 | 263 | 2520 | 2520 | 0.61 | 0.55 |
| FEBRUARY -2001 | 283 | 259 | 1790 | 1590 | 460 | 261 | 2560 | 2630 | 0.55 | 0.63 |
| MARCH -2001 | 291 | 271 | 1840 | 1590 | 444 | 278 | 2680 | 2690 | 0.74 | 0.75 |
| APRIL -2001 | 297 | 272 | 1840 | 1610 | 502 | 291 | 2660 | 2680 | 0.70 | 0.69 |
| MAY -2001 | 291 | 269 | 1860 | 1630 | 510 | 311 | 2690 | 2700 | 0.74 | 0.67 |
| JUNE -2001 | 290 | 265 | 1730 | 1530 | 440 | 259 | 2510 | 2540 | 0.93 | 0.90 |
| JULY -2001 | 288 | 263 | 1690 | 1460 | 443 | 270 | 2460 | 2480 | 0.84 | 0.82 |
| AUGUST -2001 | 287 | 263 | 1720 | 1510 | 439 | 252 | 2470 | 2480 | 0.85 | 0.85 |
| SEPTEMBER-2001 | 290 | 266 | 1820 | 1590 | 413 | 230 | 2650 | 2670 | 0.86 | 0.81 |
| OCTOBER -2001 | 286 | 265 | 1810 | 1620 | 478 | 310 | 2660 | 2660 | 0.71 | 0.76 |
| NOVEMBER -2001 | 284 | 235 | 1760 | 1530 | 457 | 269 | 2550 | 2570 | 0.84 | 0.80 |
| DECEMBER -2001 | 278 | 231 | 1730 | 1530 | 436 | 274 | 2520 | 2550 | 0.65 | 0.68 |
| Average: | 287 | 260 | 1777 | 1558 | 454 | 272 | 2578 | 2598 | 0.75 | 0.74 |

| | Chloride | | Bromide | | Sulfate | | Nitrate | | Ortho Phosphate | |
|---|---|---|---|---|---|---|---|---|---|---|
| MDL: | .8 | mg/L | .02 | mg/L | .5 | mg/L | .03 | mg/L | .05 | mg/L |
| | Inf. | Eff. | Inf. | Eff. | Inf. | Eff. | Inf. | Eff. | Inf. | Eff. |
| JANUARY -2001 | 493 | 511 | 1.28 | 1.29 | 258 | 253 | 0.29 | 0.38 | 5.22 | ND |
| FEBRUARY -2001 | 500 | 524 | 1.11 | 1.17 | 278 | 274 | 0.42 | ND | 5.84 | ND |
| MARCH -2001 | 520 | 535 | 1.78 | 1.44 | 292 | 287 | 0.52 | 0.79 | 5.98 | 0.33 |
| APRIL -2001 | 527 | 540 | 1.34 | 1.34 | 286 | 279 | 0.51 | 0.10 | 5.04 | ND |
| MAY -2001 | 562 | 572 | 1.55 | 1.54 | 291 | 281 | 0.59 | 0.67 | 5.91 | 1.02 |
| JUNE -2001 | 520 | 526 | 1.45 | 1.38 | 290 | 276 | 0.50 | 1.04 | 5.11 | ND |
| JULY -2001 | 549 | 564 | 1.35 | 1.36 | 304 | 292 | 0.53 | 0.43 | 7.82 | 1.71 |
| AUGUST -2001 | 529 | 538 | 1.38 | 1.36 | 277 | 265 | 0.29 | 0.26 | 6.89 | 1.40 |
| SEPTEMBER-2001 | 588 | 592 | 1.57 | 1.53 | 275 | 265 | ND | ND | 6.09 | 1.79 |
| OCTOBER -2001 | 542 | 553 | 1.39 | 1.40 | 281 | 272 | 1.00 | 1.04 | 6.46 | 1.90 |
| NOVEMBER -2001 | 523 | 528 | 1.42 | 1.26 | 259 | 254 | 0.07 | 0.79 | 6.33 | 1.26 |
| DECEMBER -2001 | 509 | 519 | 1.17 | 1.14 | 252 | 249 | 0.20 | 0.68 | 5.47 | ND |
| Average: | 530 | 542 | 1.40 | 1.35 | 279 | 271 | 0.41 | 0.52 | 6.01 | 0.78 |

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

POINT LOMA WASTEWATER TREATMENT PLANT
From 01-JAN-2001 To 31-DEC-2001

SAMPLED BY: NL,JC,GR,MS,MC
ANALYZED BY: HD,JC,MC,GR,GS,JW,FM

| | Lithium | | Sodium | | Potassium | | Chemical Oxygen Demand | | Soluble BOD | |
|---|---|---|---|---|---|---|---|---|---|---|
| MDL: | .01 | mg/L | .3 | mg/L | 2 | mg/L | 22 | mg/L | 2 | mg/L |
| | Inf. | Eff. | Inf. | Eff. | Inf. | Eff. | Inf. | Eff. | Inf. | Eff. |
| JANUARY -2001 | 0.05 | 0.04 | 336 | 322 | 26.4 | 23.5 | 529 | 205 | 74 | 62 |
| FEBRUARY -2001 | 0.05 | 0.03 | 296 | 314 | 27.7 | 28.6 | 572 | 224 | 80 | 70 |
| MARCH -2001 | 0.05 | 0.05 | 320 | 324 | 28.1 | 26.8 | 550 | 232 | 81 | 71 |
| APRIL -2001 | 0.04 | 0.04 | 325 | 329 | 28.4 | 27.8 | 592 | 228 | 93 | 65 |
| MAY -2001 | 0.04 | 0.06 | 342 | 334 | 33.2 | 30.4 | 596 | 239 | 96 | 66 |
| JUNE -2001 | 0.05 | 0.05 | 309 | 310 | 29.4 | 28.4 | 562 | 240 | 75 | 57 |
| JULY -2001 | 0.06 | 0.05 | 308 | 302 | 25.6 | 25.4 | 600 | 249 | 82 | 52 |
| AUGUST -2001 | 0.06 | 0.05 | 314 | 285 | 28.3 | 27.0 | 574 | 238 | 85 | 50 |
| SEPTEMBER-2001 | 0.06 | 0.05 | 338 | 314 | 31.1 | 28.4 | 579 | 231 | 88 | 51 |
| OCTOBER -2001 | 0.06 | 0.06 | 348 | 337 | 34.0 | 32.9 | 561 | 214 | 93 | 50 |
| NOVEMBER -2001 | 0.04 | 0.05 | 323 | 327 | 25.7 | 26.0 | 530 | 207 | 84 | 47 |
| DECEMBER -2001 | 0.05 | 0.04 | 300 | 290 | 25.2 | 25.1 | 563 | 215 | 80 | 54 |
| Average: | 0.05 | 0.05 | 322 | 316 | 28.6 | 27.5 | 567 | 227 | 84 | 58 |

| | Total Disolved Solids | | Floatables | | Turbidity | | Aluminum | | Barium | |
|---|---|---|---|---|---|---|---|---|---|---|
| MDL: | 42 | mg/L | .1 | mg/L | | NTU | 50 | ug/L | 10 | ug/L |
| | Inf. | Eff. | Inf. | Eff. | Inf. | Eff. | Inf. | Eff. | Inf. | Eff. |
| JANUARY -2001 | 1440 | 1440 | 2.5 | 0.1 | 120 | 31 | 1920 | 85 | 107 | 30 |
| FEBRUARY -2001 | 1460 | 1460 | 2.6 | 0.2 | 120 | 36 | 1790 | 191 | 112 | 34 |
| MARCH -2001 | 1510 | 1510 | 2.2 | 0.2 | 120 | 38 | 1830 | 154 | 114 | 37 |
| APRIL -2001 | 1520 | 1520 | 2.6 | 0.1 | 140 | 43 | 1760 | 68 | 123 | 33 |
| MAY -2001 | 1540 | 1550 | 2.0 | 0.1 | 140 | 43 | 1730 | 86 | 118 | 34 |
| JUNE -2001 | 1430 | 1440 | 1.4 | 0.1 | 140 | 43 | 1790 | 113 | 123 | 36 |
| JULY -2001 | 1400 | 1400 | 1.4 | 0.2 | 140 | 42 | 1860 | 157 | 119 | 33 |
| AUGUST -2001 | 1410 | 1420 | 1.5 | 0.1 | 140 | 42 | 1730 | 260 | 123 | 37 |
| SEPTEMBER-2001 | 1500 | 1500 | 1.2 | 0.1 | 140 | 44 | 4210 | 256 | 124 | 39 |
| OCTOBER -2001 | 1510 | 1530 | 1.0 | 0.1 | 140 | 44 | 1730 | 270 | 115 | 38 |
| NOVEMBER -2001 | 1470 | 1500 | 1.2 | 0.1 | 140 | 39 | 1800 | 246 | 120 | 35 |
| DECEMBER -2001 | 1450 | 1460 | 1.8 | 0.1 | 140 | 39 | 1770 | 208 | 117 | 35 |
| Average: | 1470 | 1478 | 1.8 | 0.1 | 135 | 40 | 1993 | 175 | 118 | 35 |

| | Boron | | Cobalt | | Molybdenum | | Manganese | | Vanadium | |
|---|---|---|---|---|---|---|---|---|---|---|
| MDL: | 15 | ug/L | 4 | ug/L | 3 | ug/L | 4 | ug/L | 7 | ug/L |
| | Inf. | Eff. | Inf. | Eff. | Inf. | Eff. | Inf. | Eff. | Inf. | Eff. |
| JANUARY -2001 | 533 | 505 | ND | ND | 5 | 6 | 155 | 164 | ND | ND |
| FEBRUARY -2001 | 497 | 492 | ND | ND | 9 | <3 | 149 | 166 | ND | ND |
| MARCH -2001 | 532 | 543 | NR | NR | NR | NR | 140 | 157 | NR | NR |
| APRIL -2001 | 484 | 409 | NR | NR | NR | NR | 155 | 153 | NR | NR |
| MAY -2001 | 537 | 462 | ND | ND | 11 | 12 | 146 | 161 | ND | ND |
| JUNE -2001 | 499 | 501 | NR | NR | NR | NR | 205 | 175 | NR | NR |
| JULY -2001 | 458 | 354 | ND | ND | 7 | 12 | 146 | 153 | ND | ND |
| AUGUST -2001 | 493 | 458 | ND | <4 | 8 | 7 | 156 | 160 | <7 | ND |
| SEPTEMBER-2001 | 1500 | 470 | ND | ND | 13 | 8 | 149 | 165 | <7 | ND |
| OCTOBER -2001 | 535 | 486 | ND | ND | 9 | 7 | 160 | 171 | <7 | ND |
| NOVEMBER -2001 | 474 | 383 | NR | NR | NR | NR | 155 | 146 | NR | NR |
| DECEMBER -2001 | 515 | 440 | <4 | ND | <3 | ND | 148 | 156 | <7 | ND |
| Average: | 588 | 459 | 0 | 0 | 8 | 7 | 155 | 161 | 0 | ND |

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

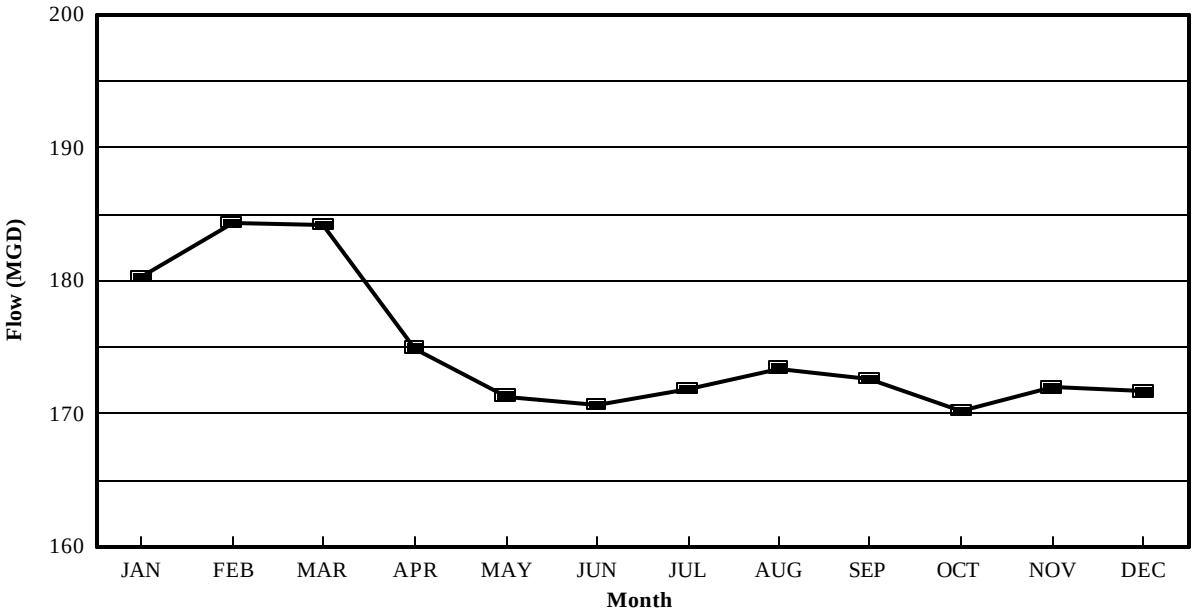
B. Influent and Effluent Graphs.

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

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

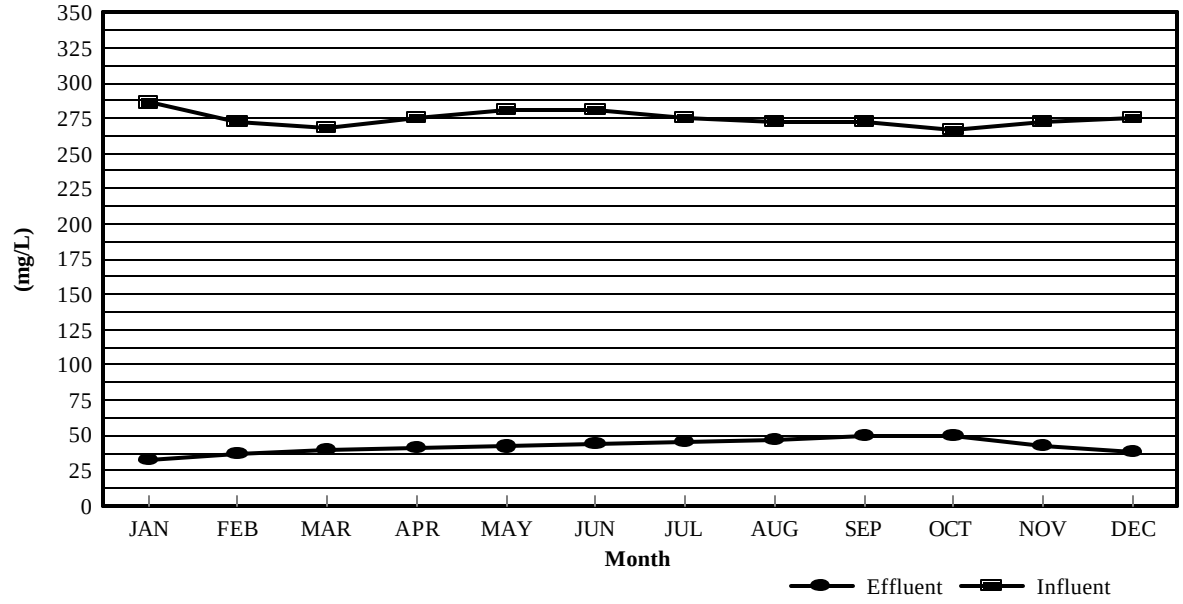
**Flows (MGD)**

## 2001 Monthly Averages



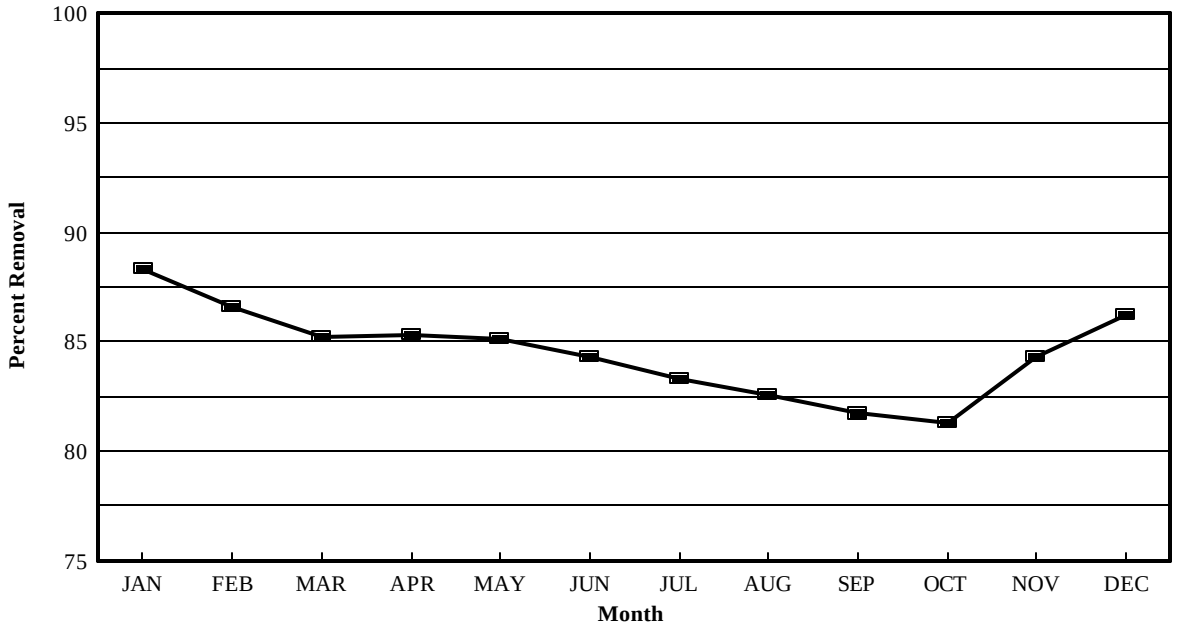

**Total Suspended Solids (mg/L)**

## 2001 Monthly Averages



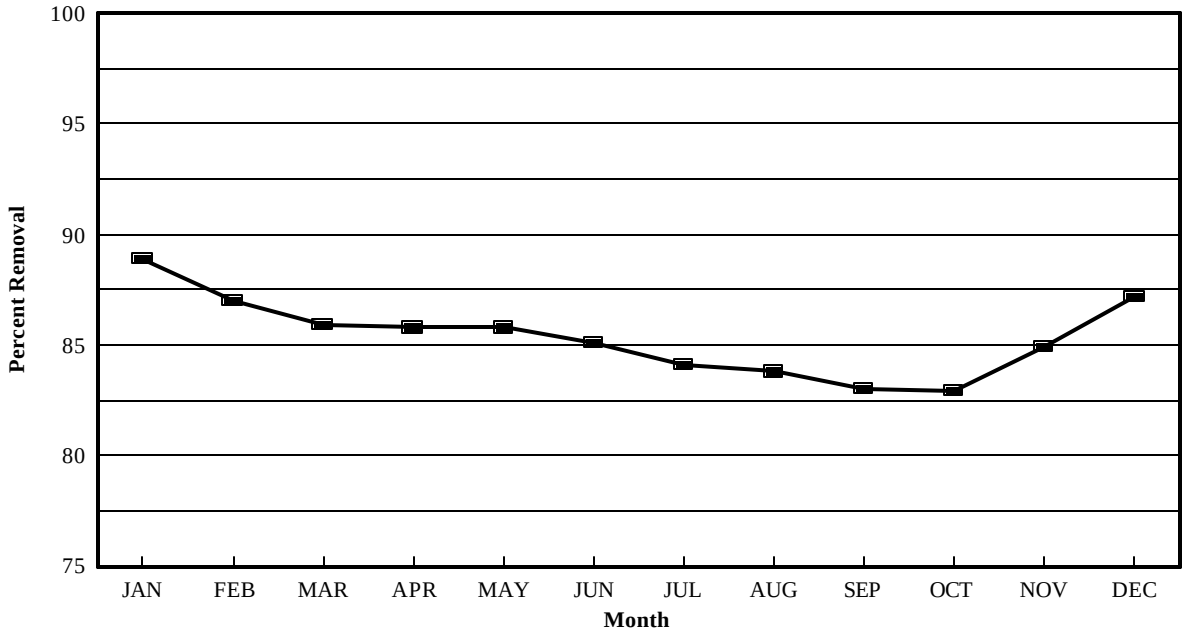
**Total Suspended Solids (%) Removal**

**2001 Monthly Averages at Point Loma**



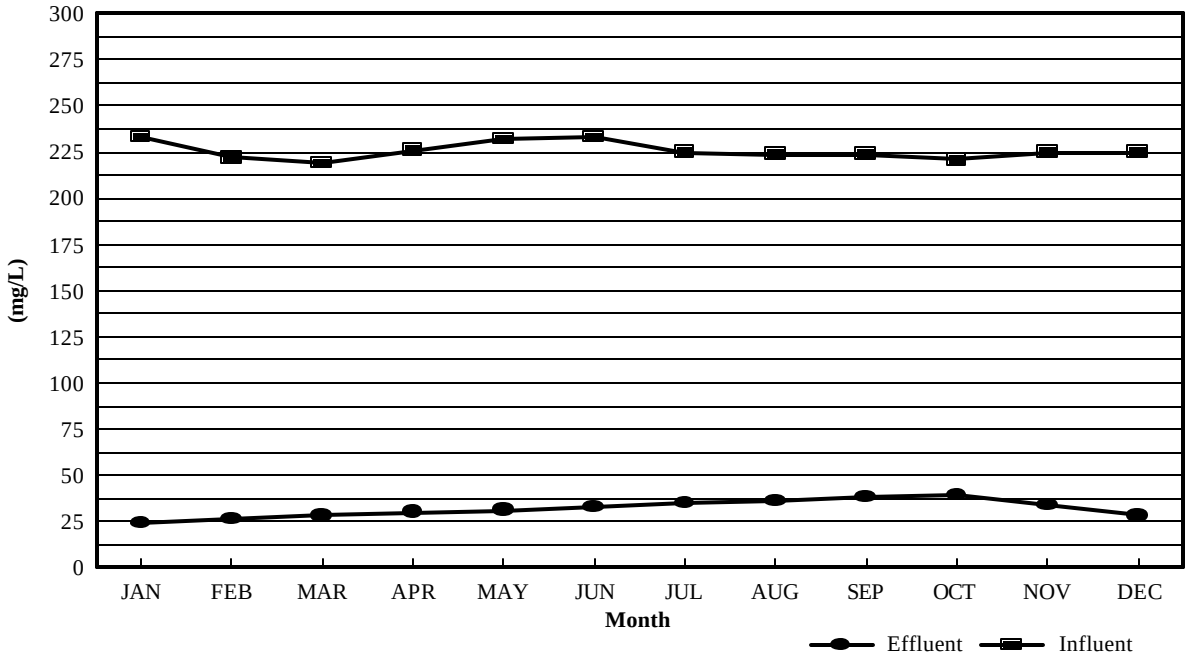

**Total Suspended Solids (%) Removal**

**2001 Monthly Averages Systemwide**



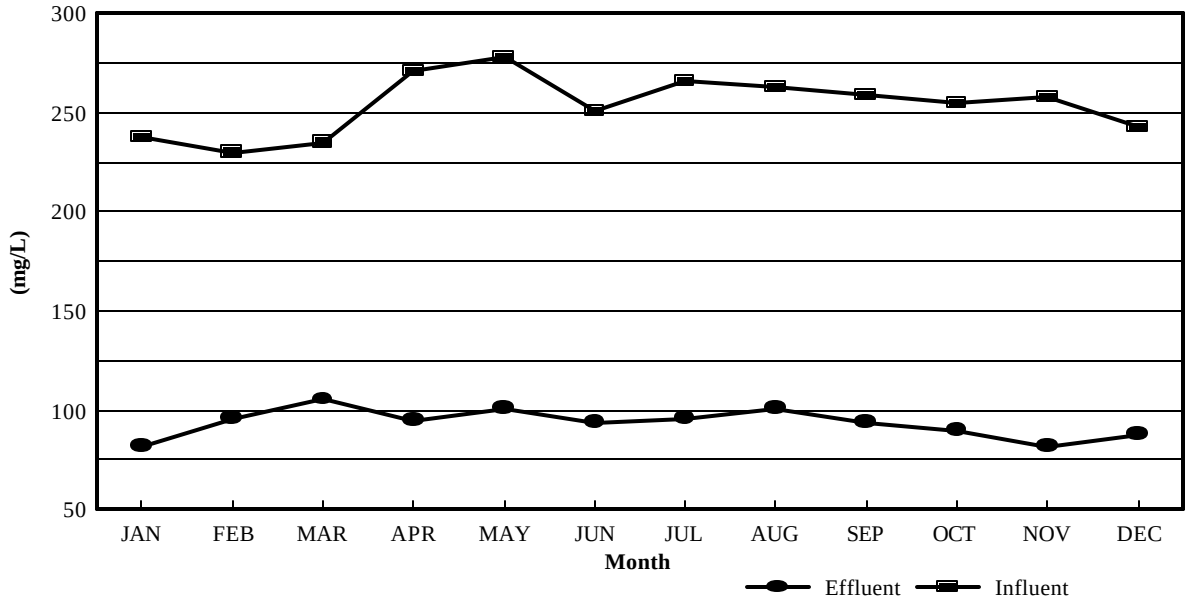
**Volatile Suspended Solids (mg/L)**

## 2001 Monthly Averages



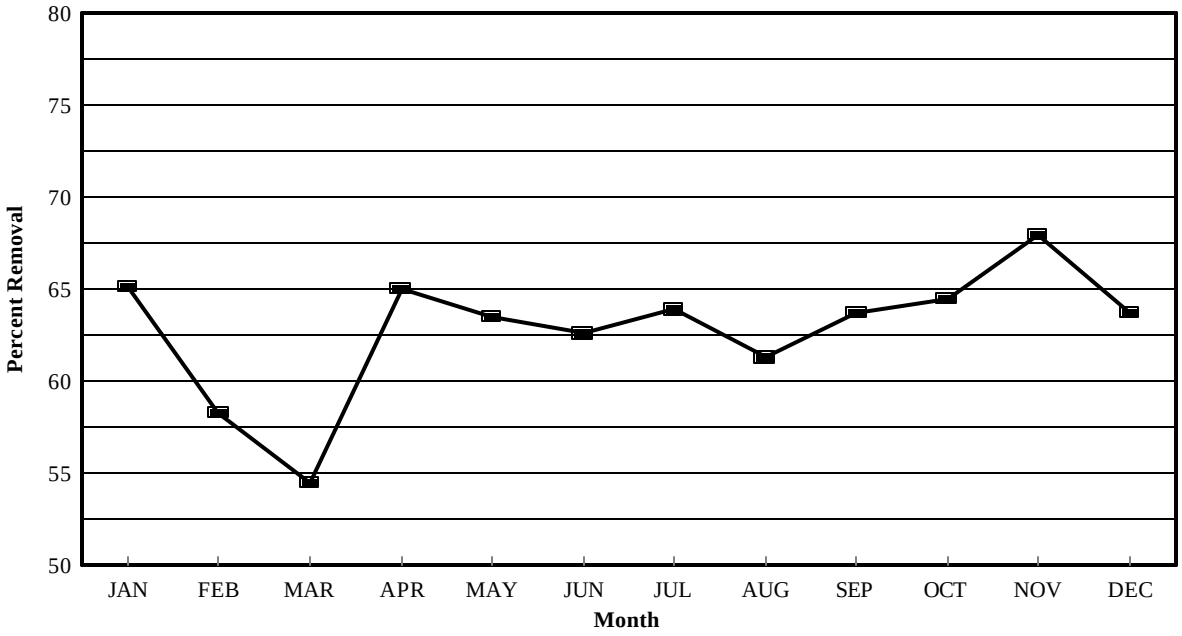

**Biochemical Oxygen Demand (mg/L)**

## 2001 Monthly Averages



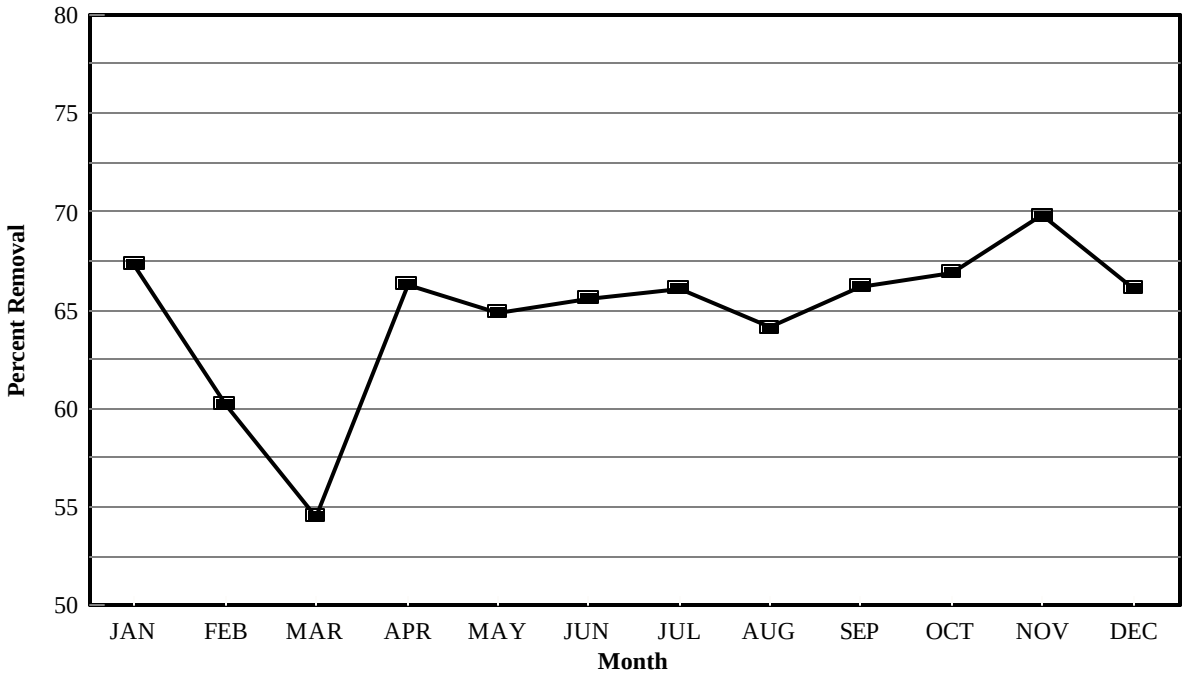
**Biochemical Oxygen Demand (%) Removal**

**2001 Monthly Averages at Point Loma**



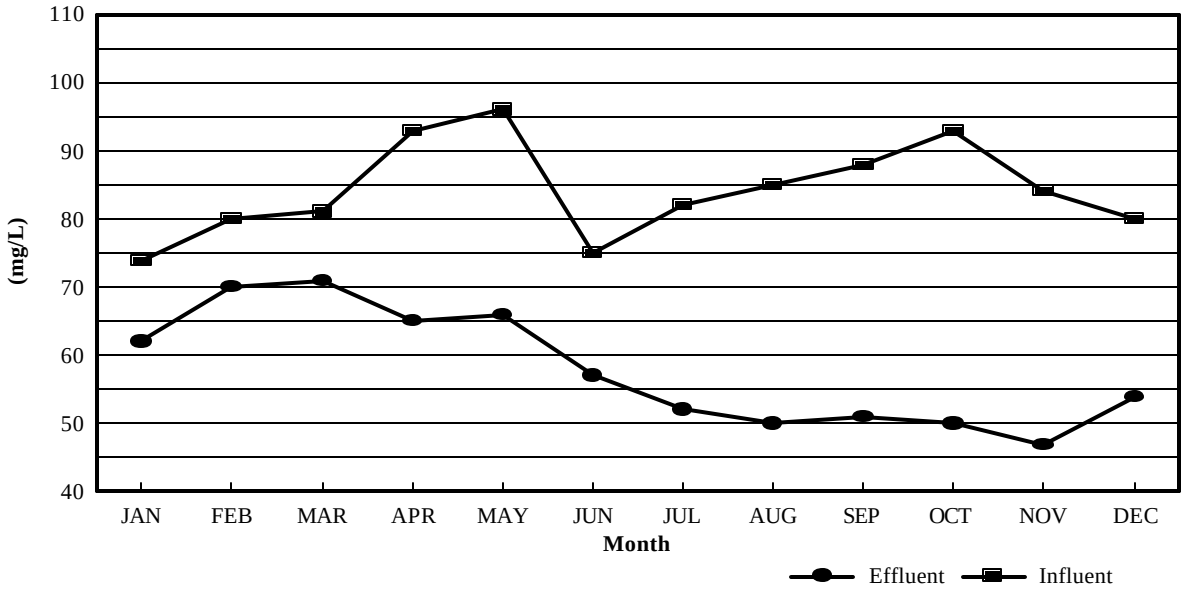

**Biochemical Oxygen Demand (%) Removal**

**2001 Monthly Averages Systemwide**



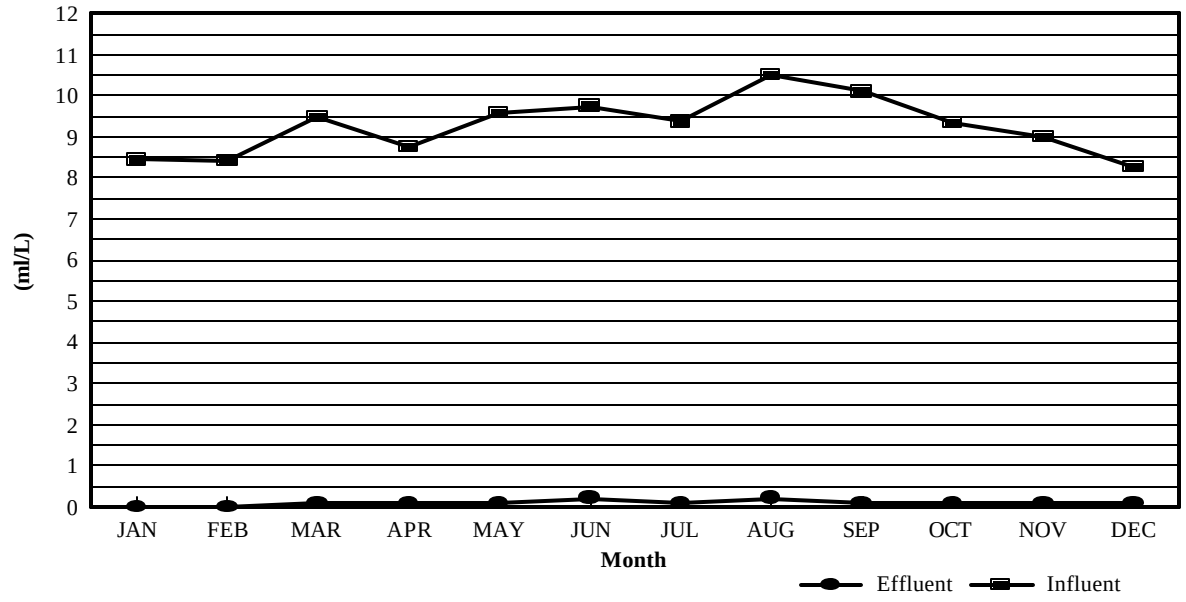
**Soluble Biochemical Oxygen Demand**

## 2001 Monthly Averages

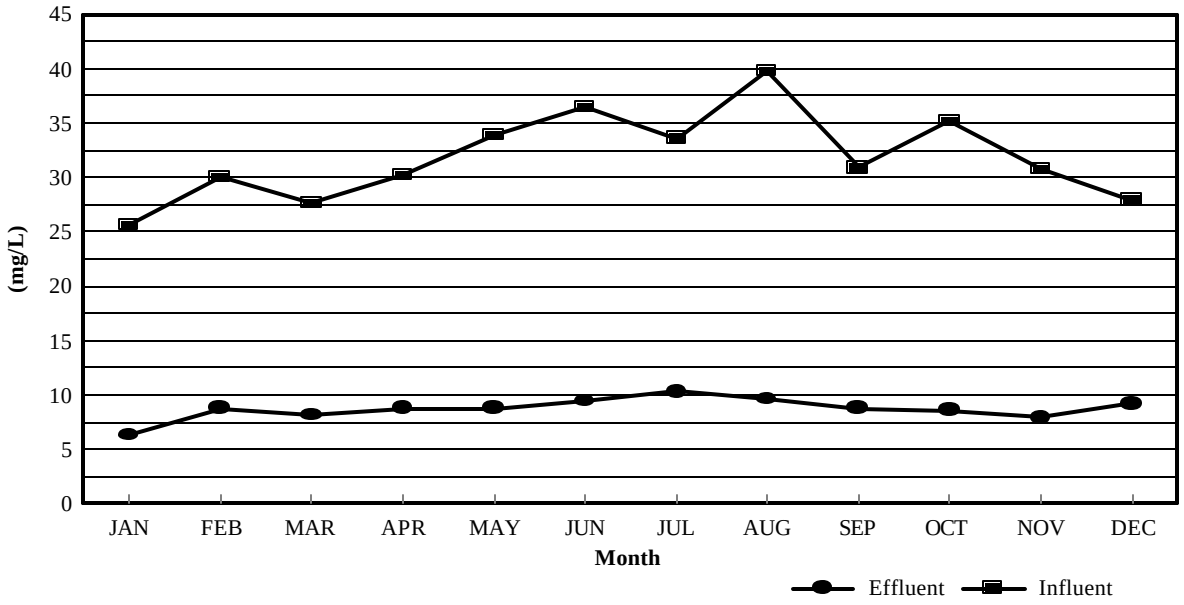



**Settleable Solids (ml/L)**

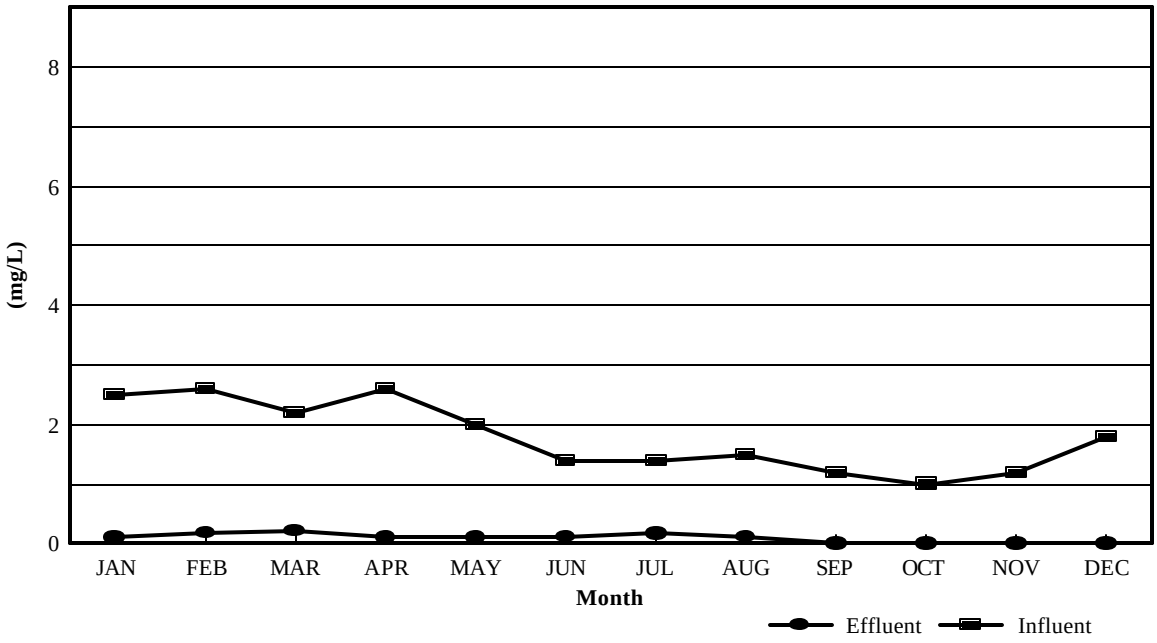
## 2001 Monthly Averages



**Oil and Grease (mg/L)**
**2001 Monthly Averages**

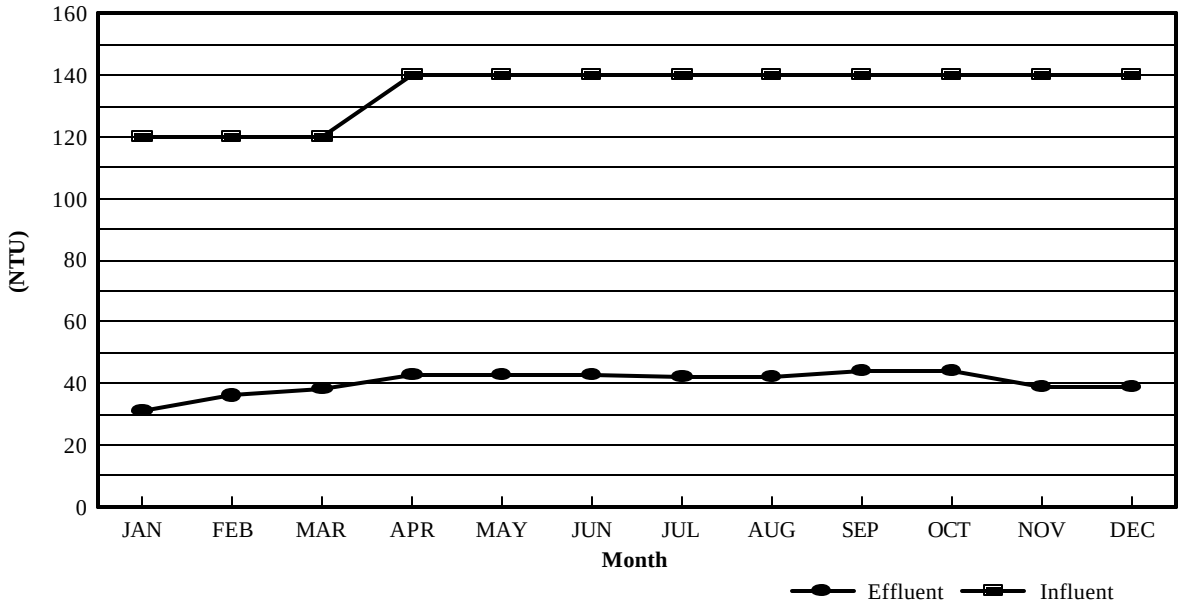



**Floatables (mg/L)**
**2001 Monthly Averages**



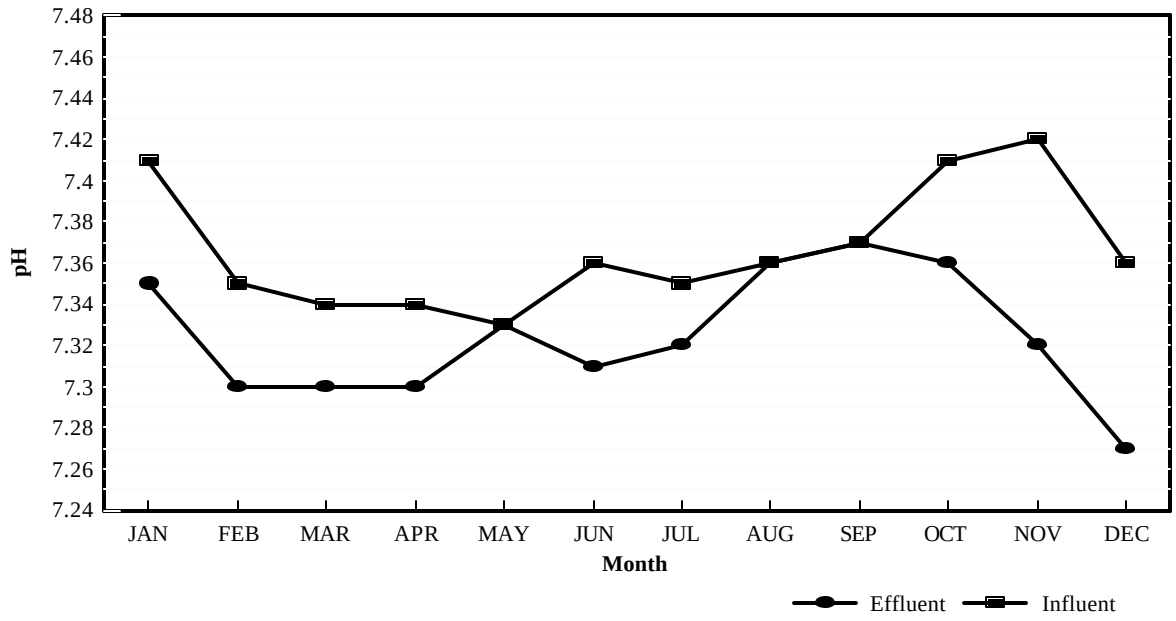
**Turbidity (NTU)**

## 2001 Monthly Averages



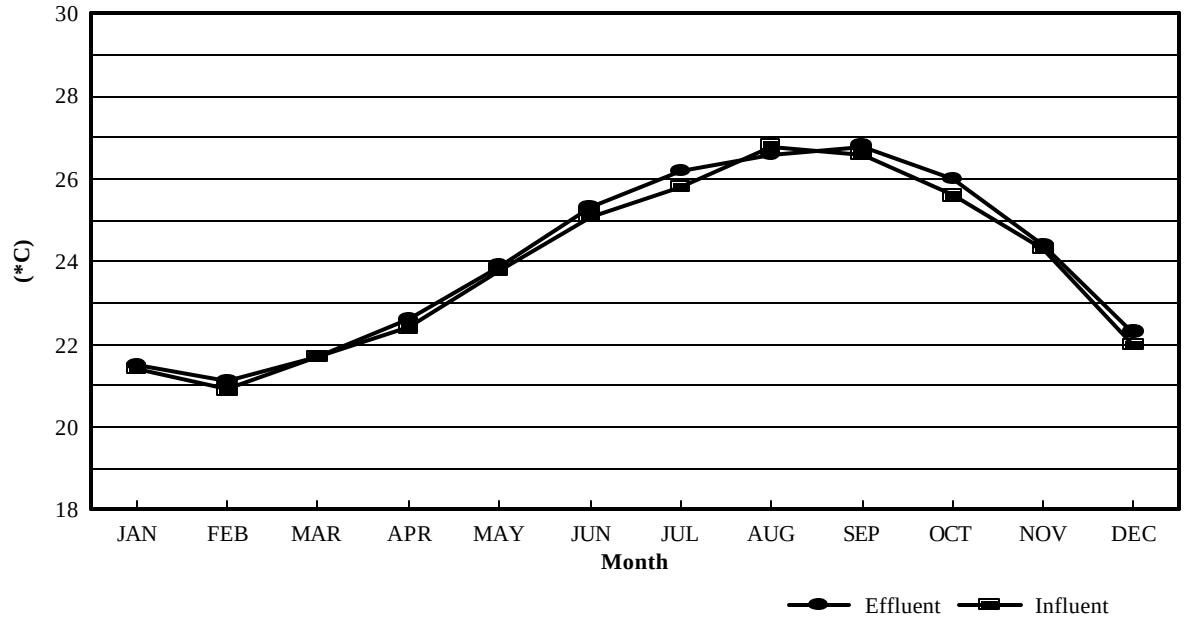

**pH**

## 2001 Monthly Averages



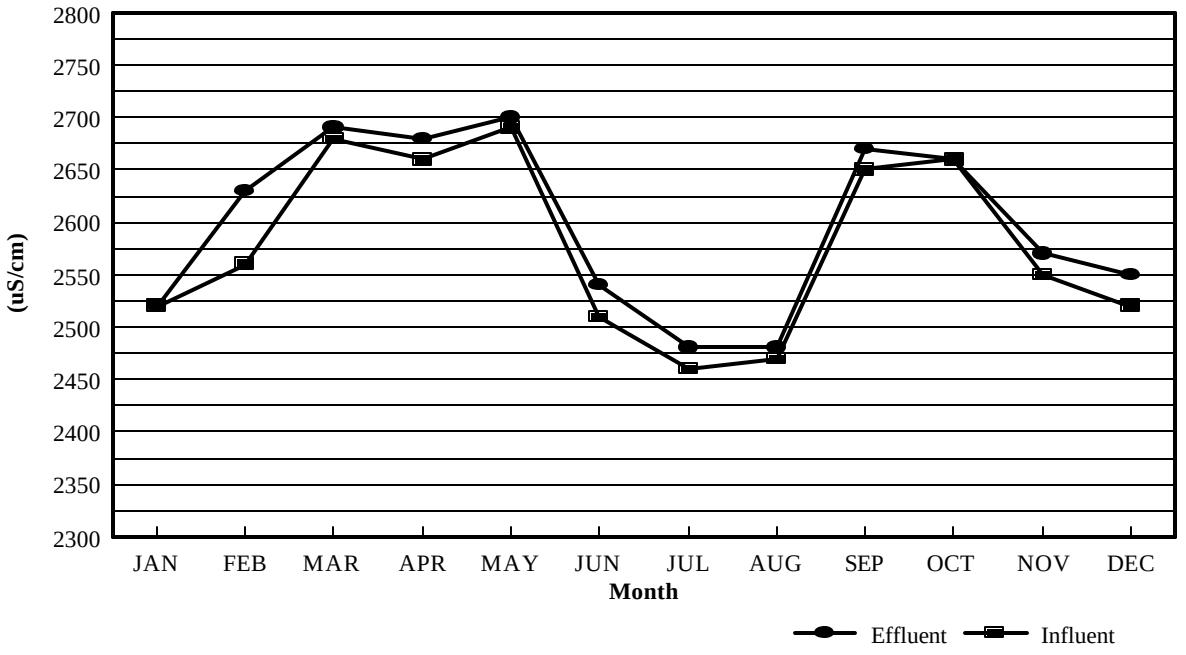
**Temperature (*C)**

**2001 Monthly Averages**

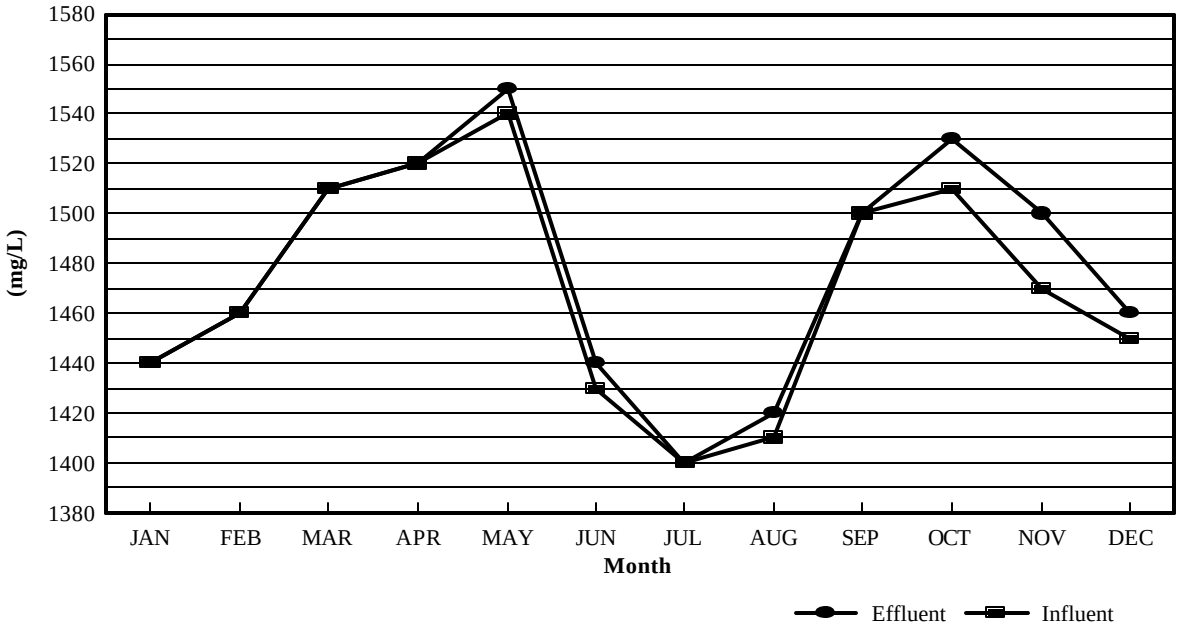



**Conductivity (uS/cm)**

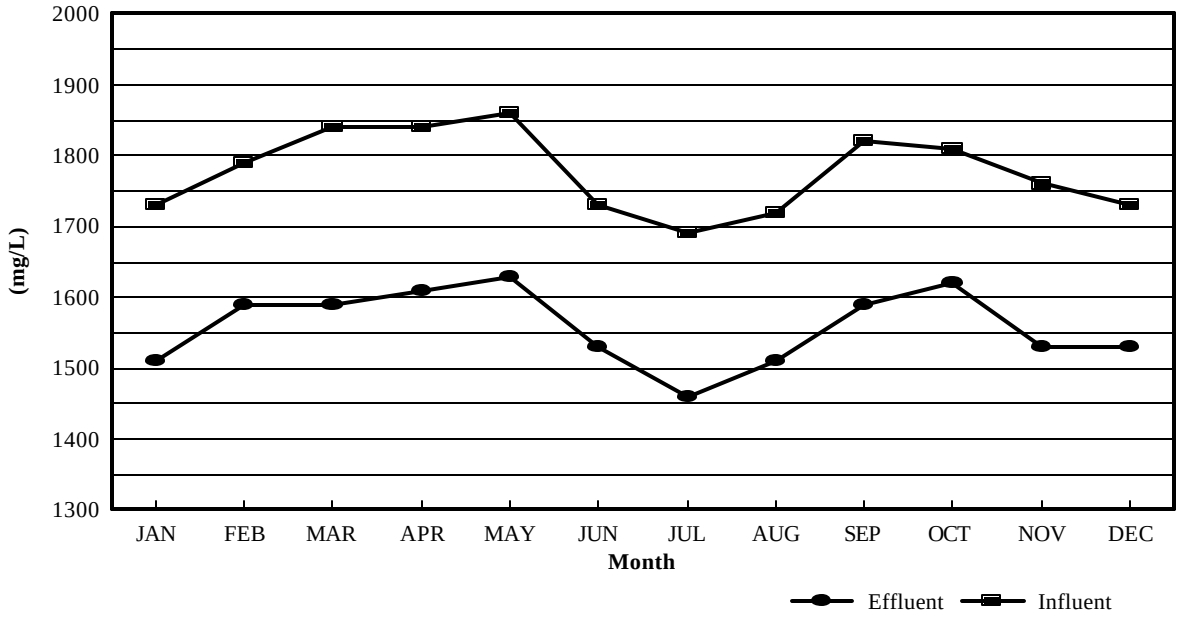
**2001 Monthly Averages**



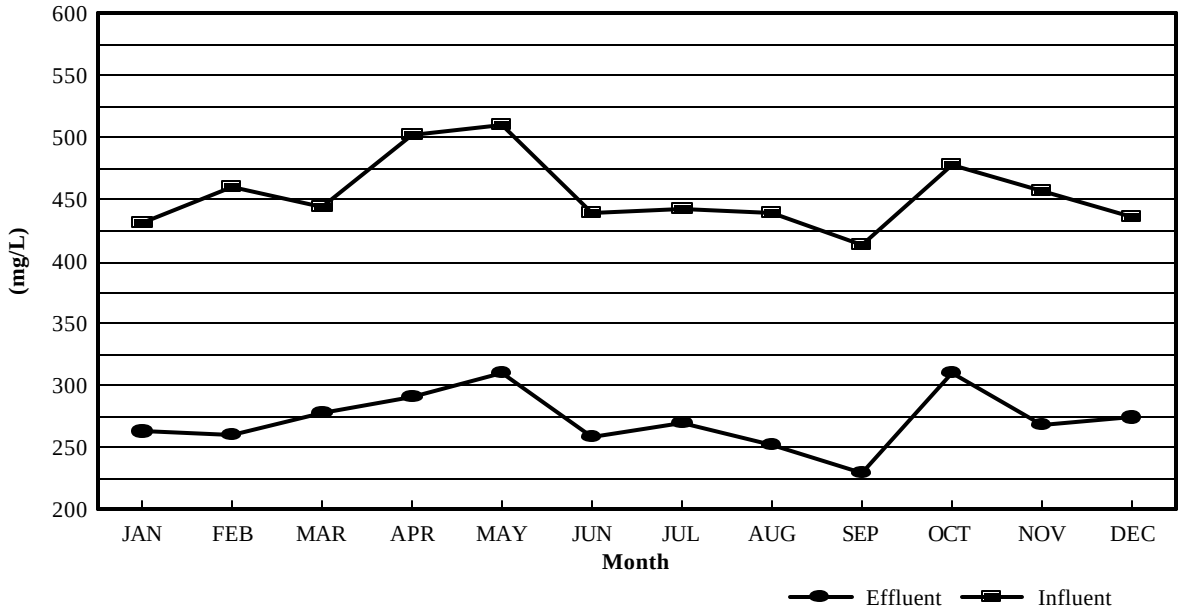
**Total Dissolved Solids (mg/L)**
**2001 Monthly Averages**



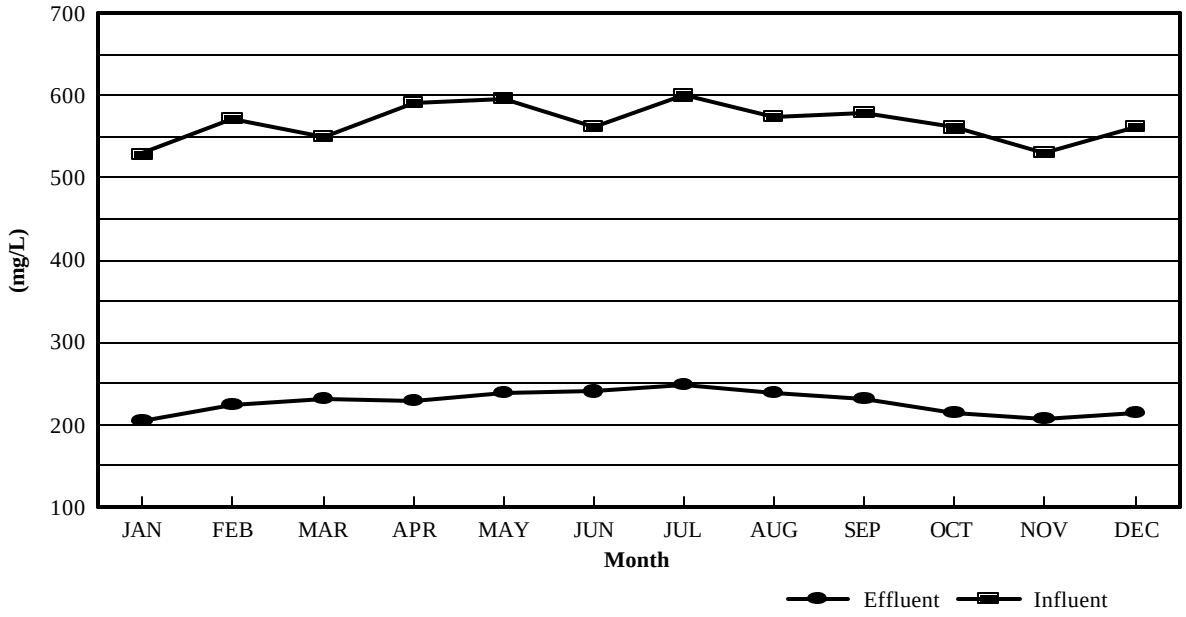

**Total Solids (mg/L)**
**2001 Monthly Averages**



**Total Volatile Solids (mg/L)**
**2001 Monthly Averages**

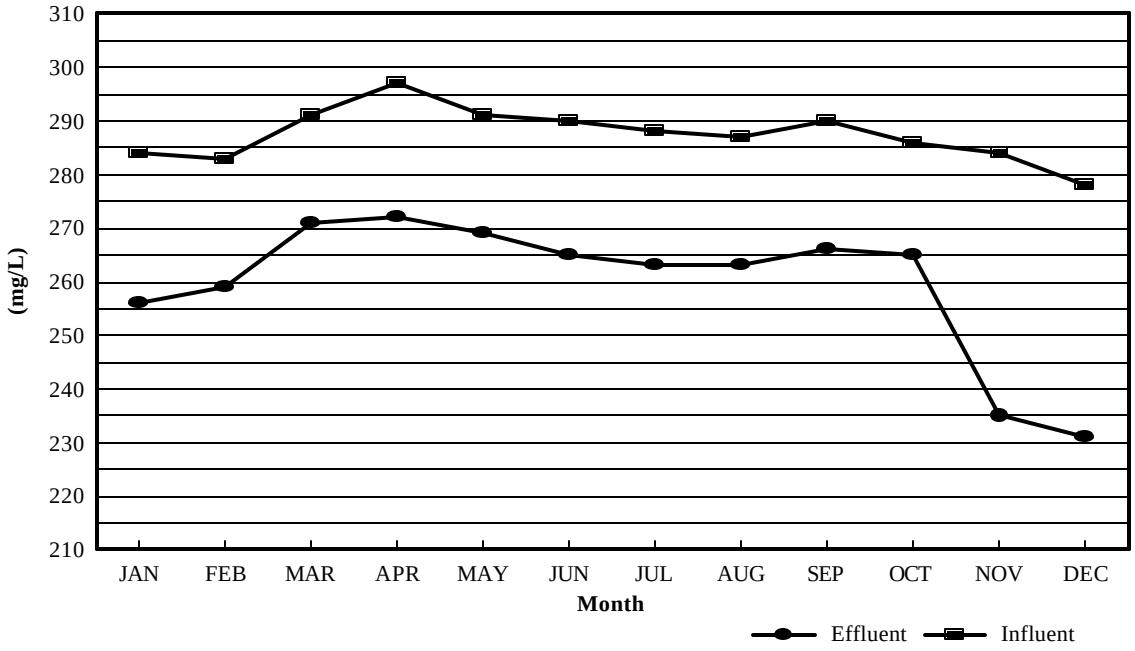



**Chemical Oxygen Demand (mg/L)**
**2001 Monthly Averages**



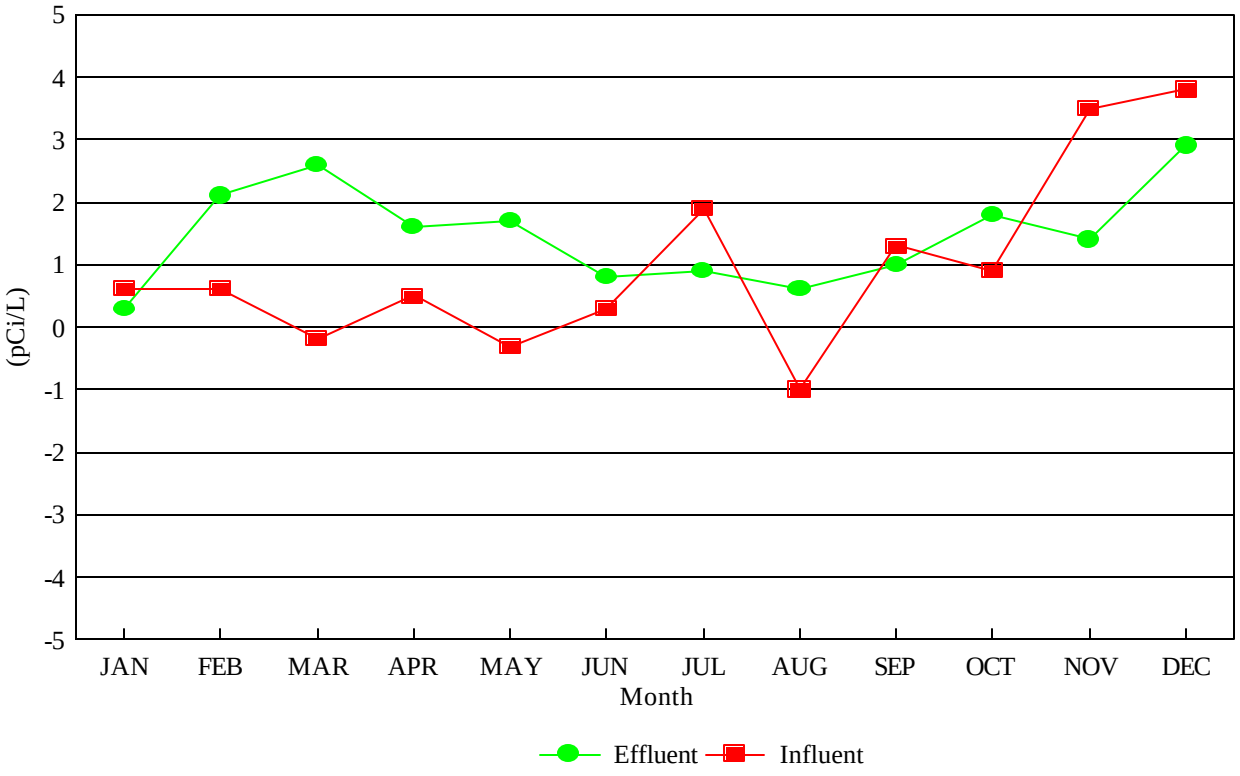
**Alkalinity (mg/L)**

**2001 Monthly Averages**



Point Loma Wastewater Treatment Plant

## 2001 MONTHLY AVERAGES -Alpha Radiation

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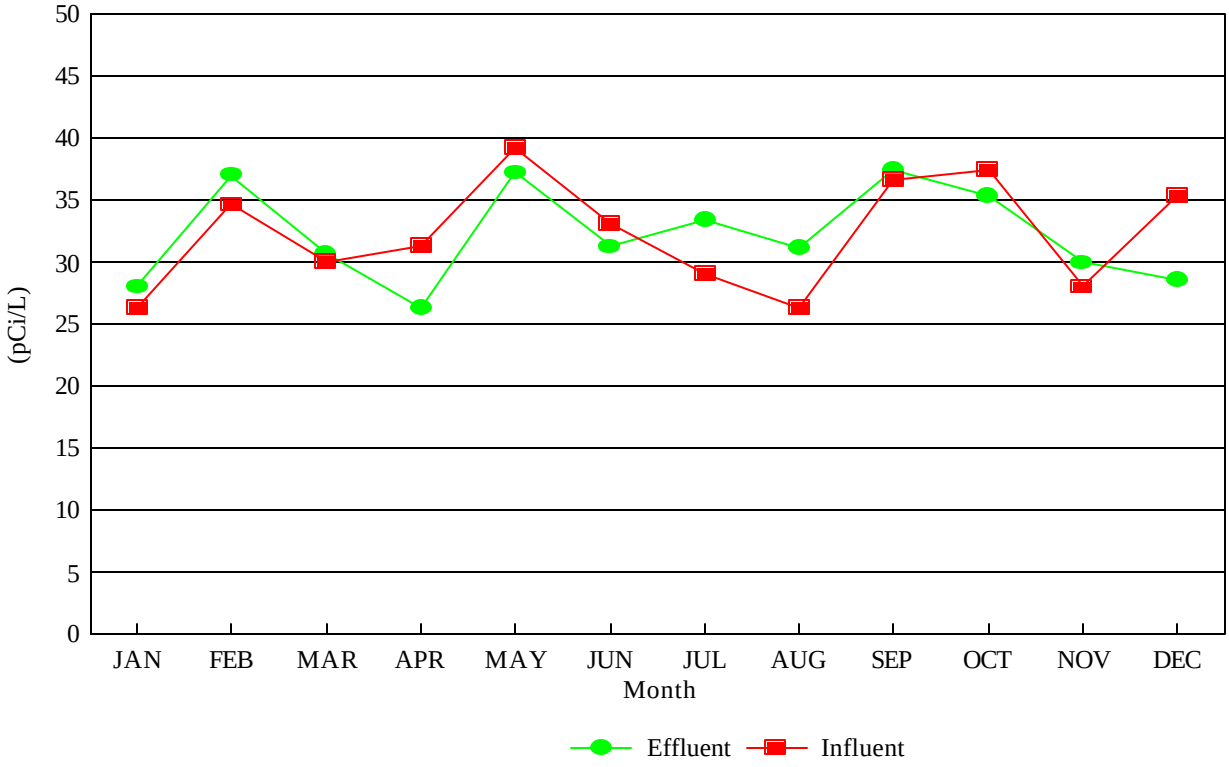
## 2001 MONTHLY AVERAGES -Beta Radiation



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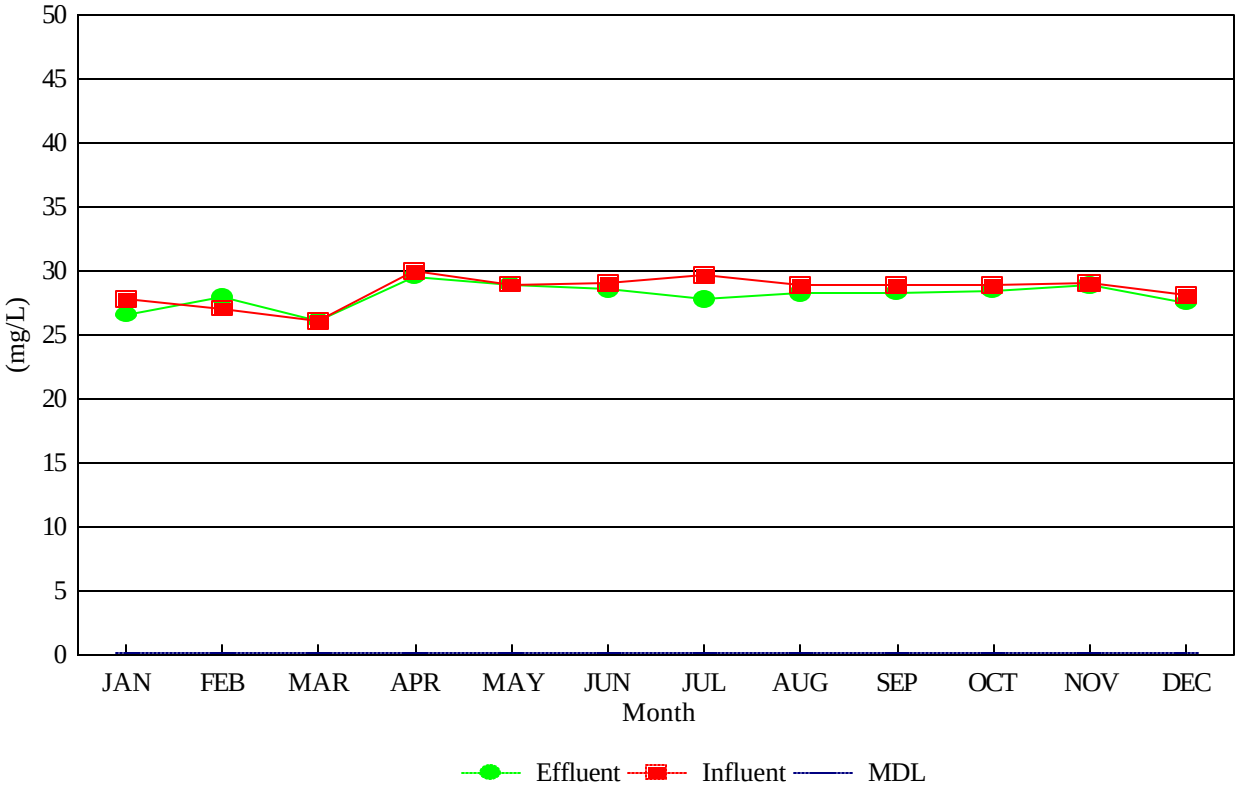
## 2001 MONTHLY AVERAGES - Ammonia-N

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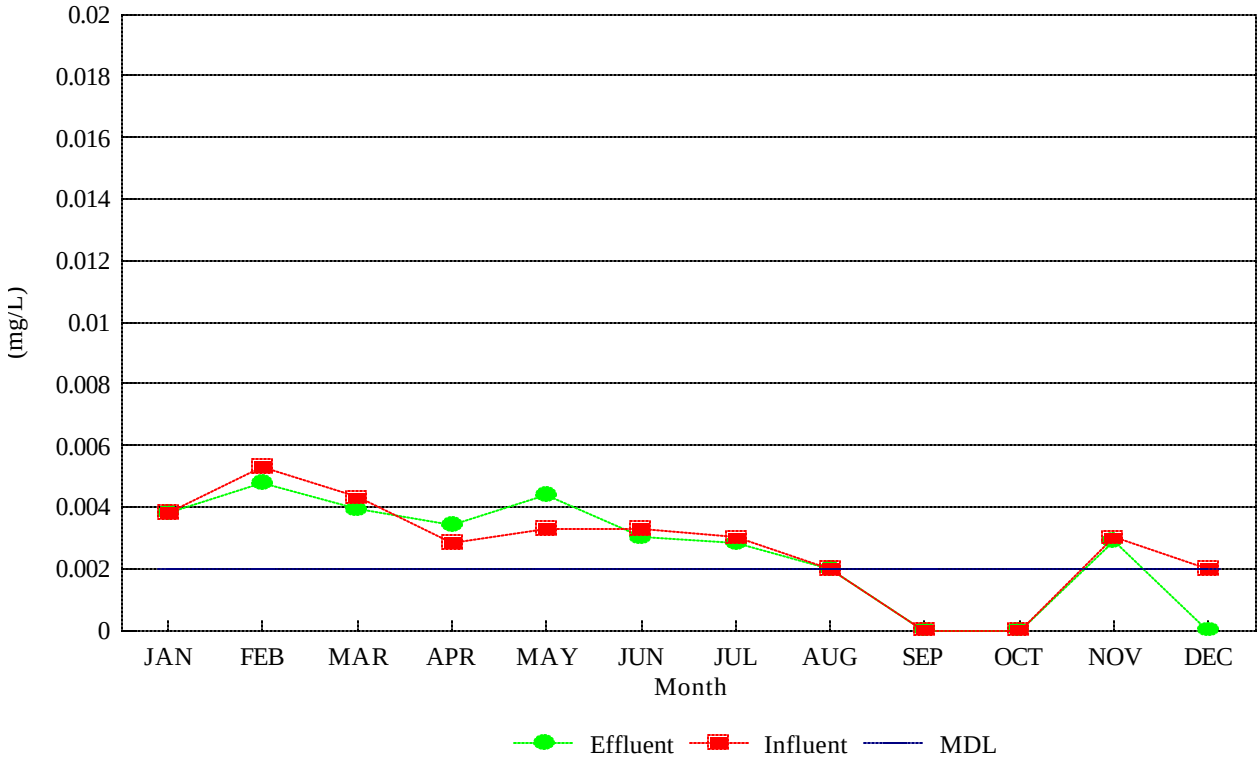
## 2001 MONTHLY AVERAGES - Total Cyanides



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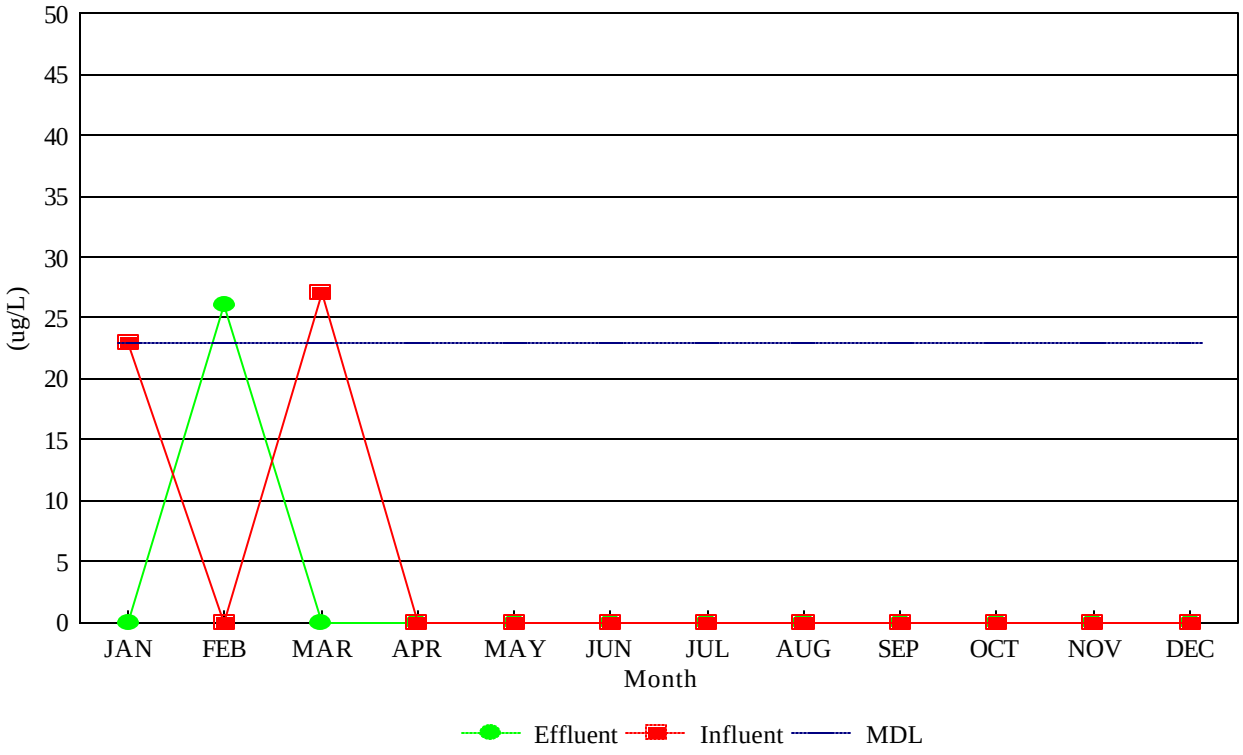
## 2001 MONTHLY AVERAGES - Antimony

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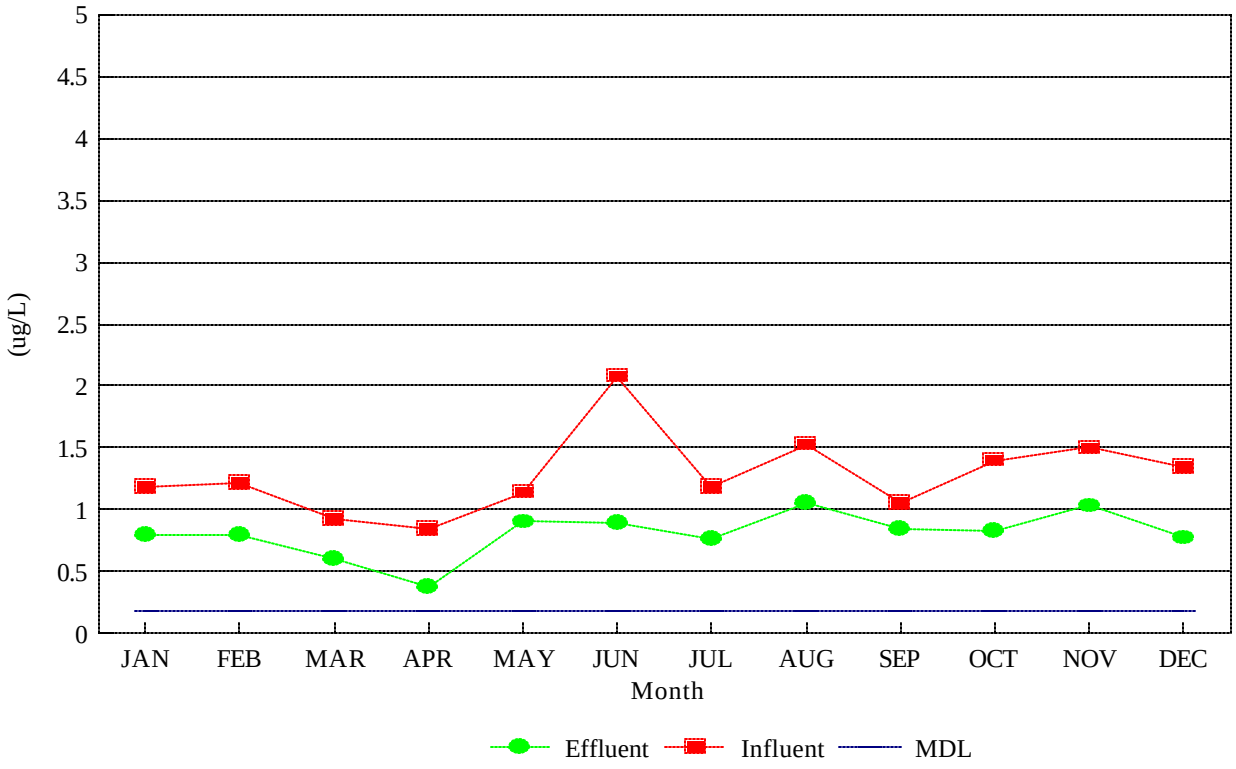
## 2001 MONTHLY AVERAGES - Arsenic



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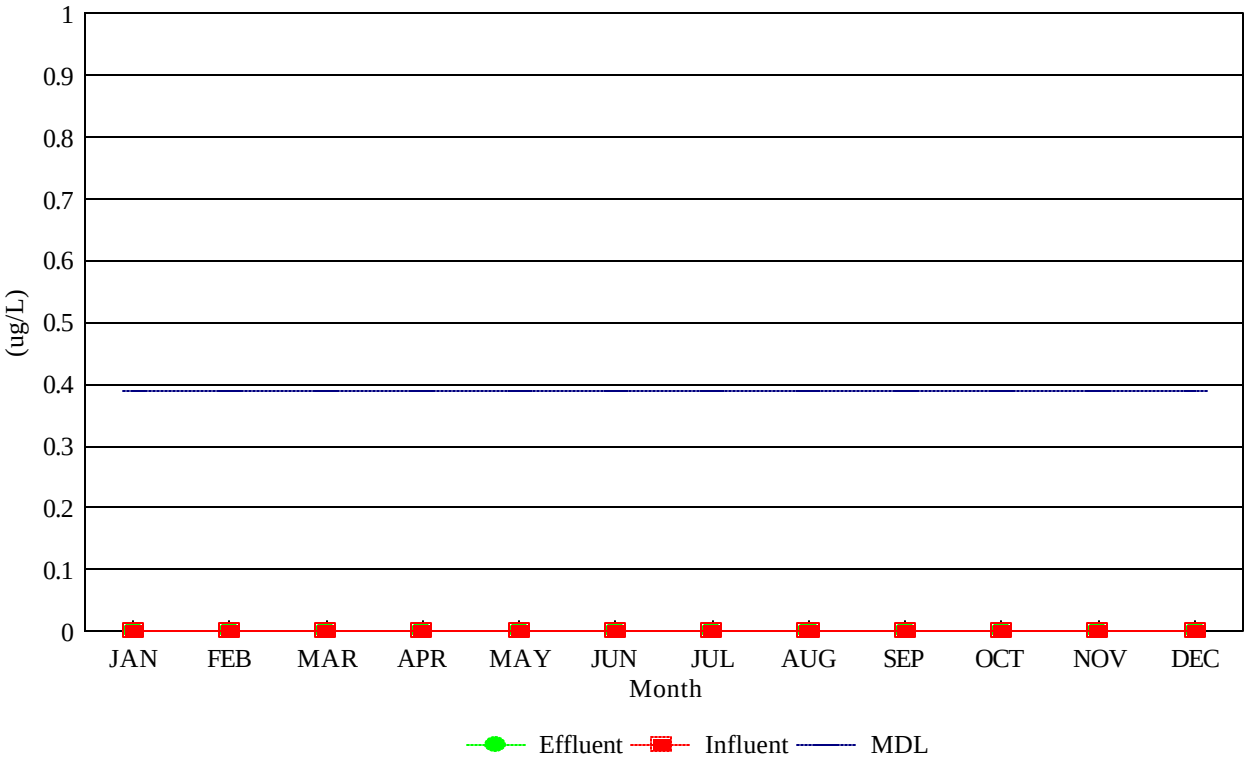
## 2001 MONTHLY AVERAGES - Beryllium

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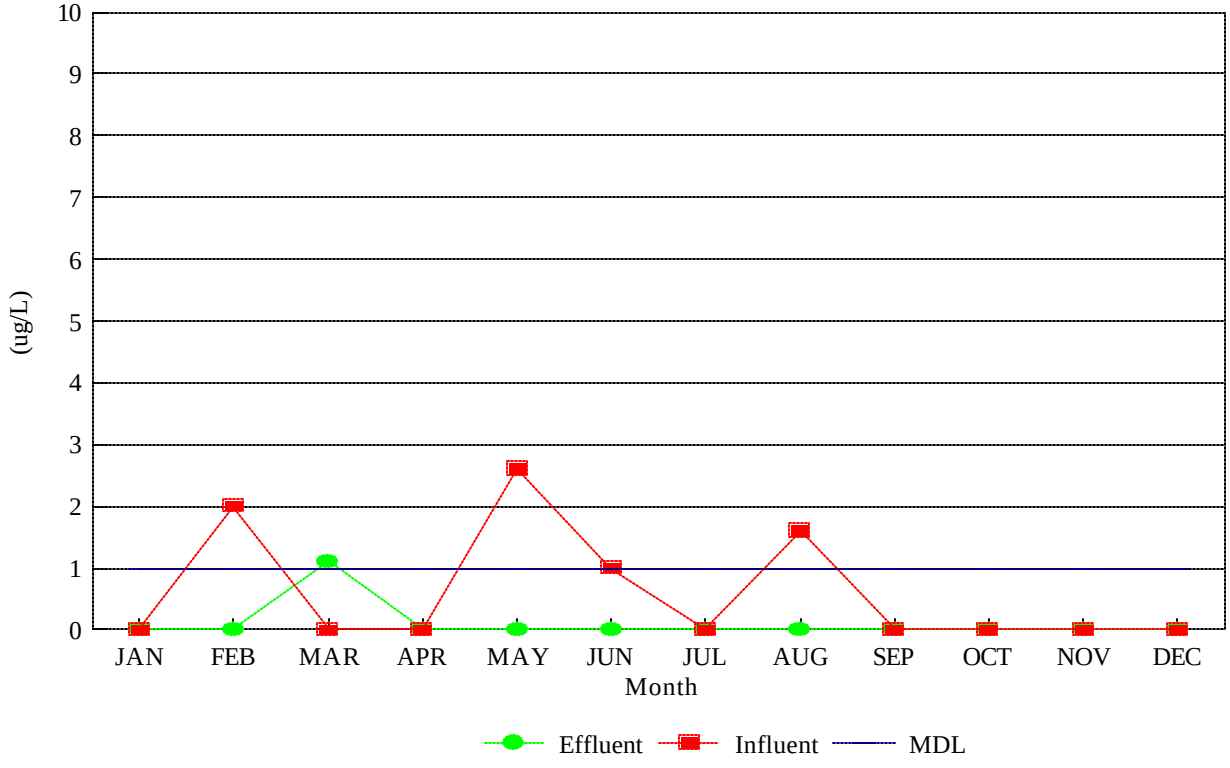
## 2001 MONTHLY AVERAGES - Cadmium



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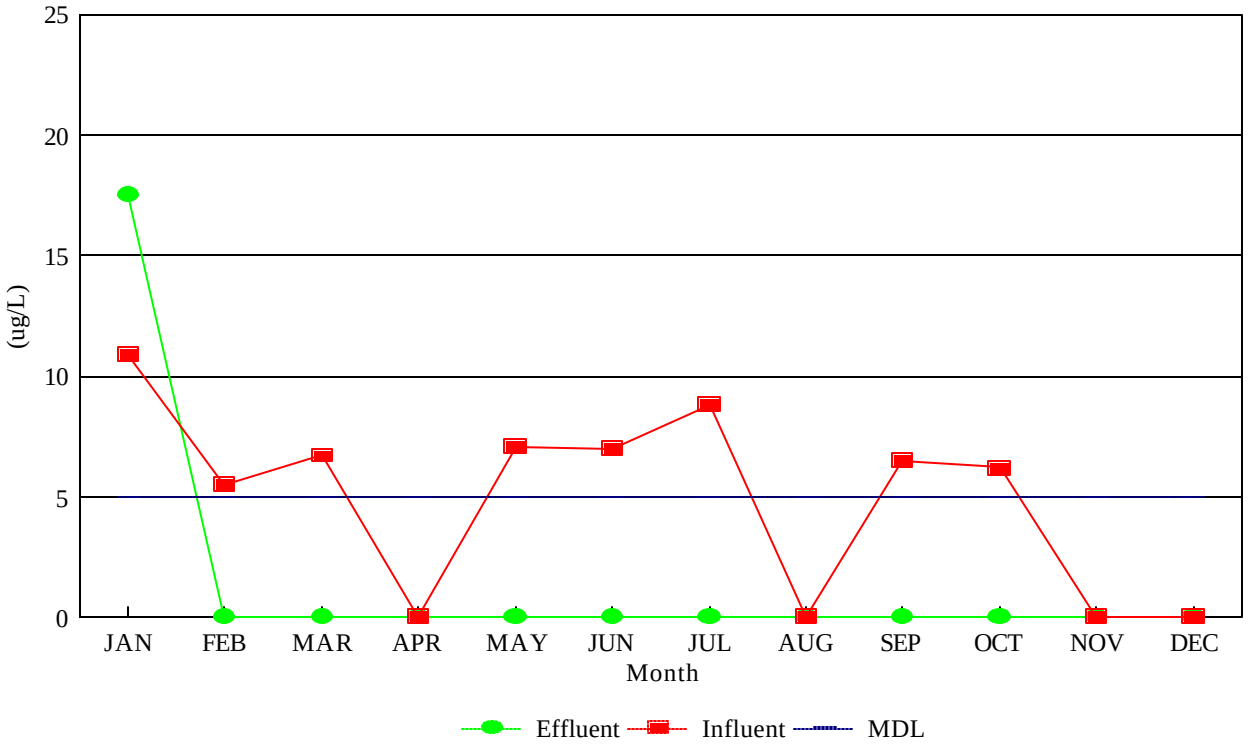
## 2001 MONTHLY AVERAGES - Chromium

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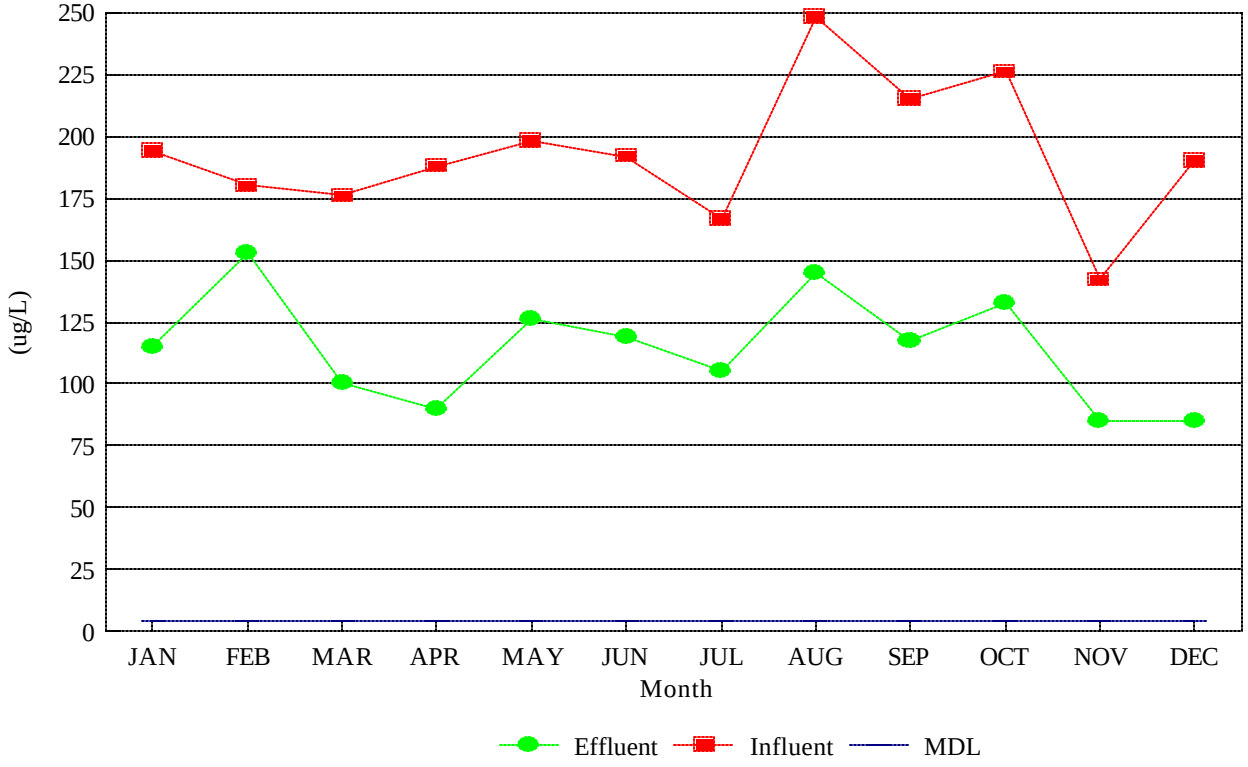
## 2001 MONTHLY AVERAGES - Copper



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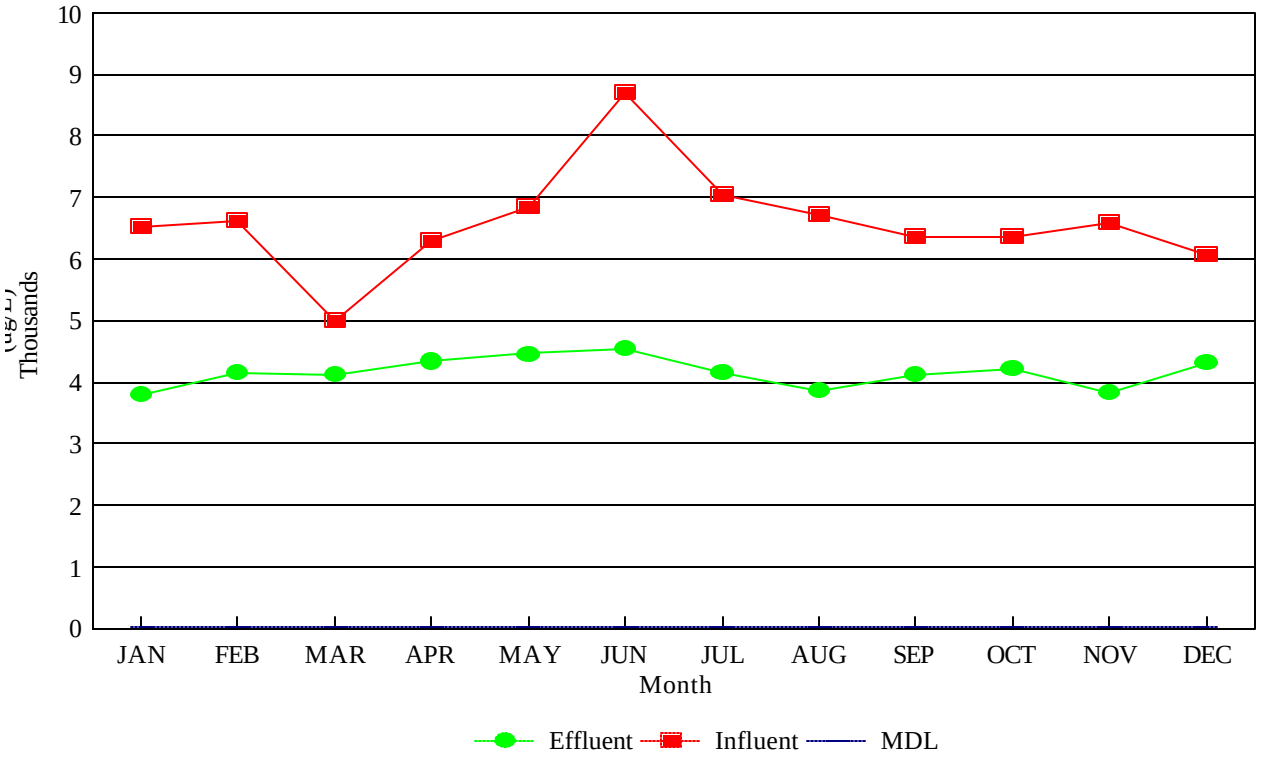
## 2001 MONTHLY AVERAGES - Iron

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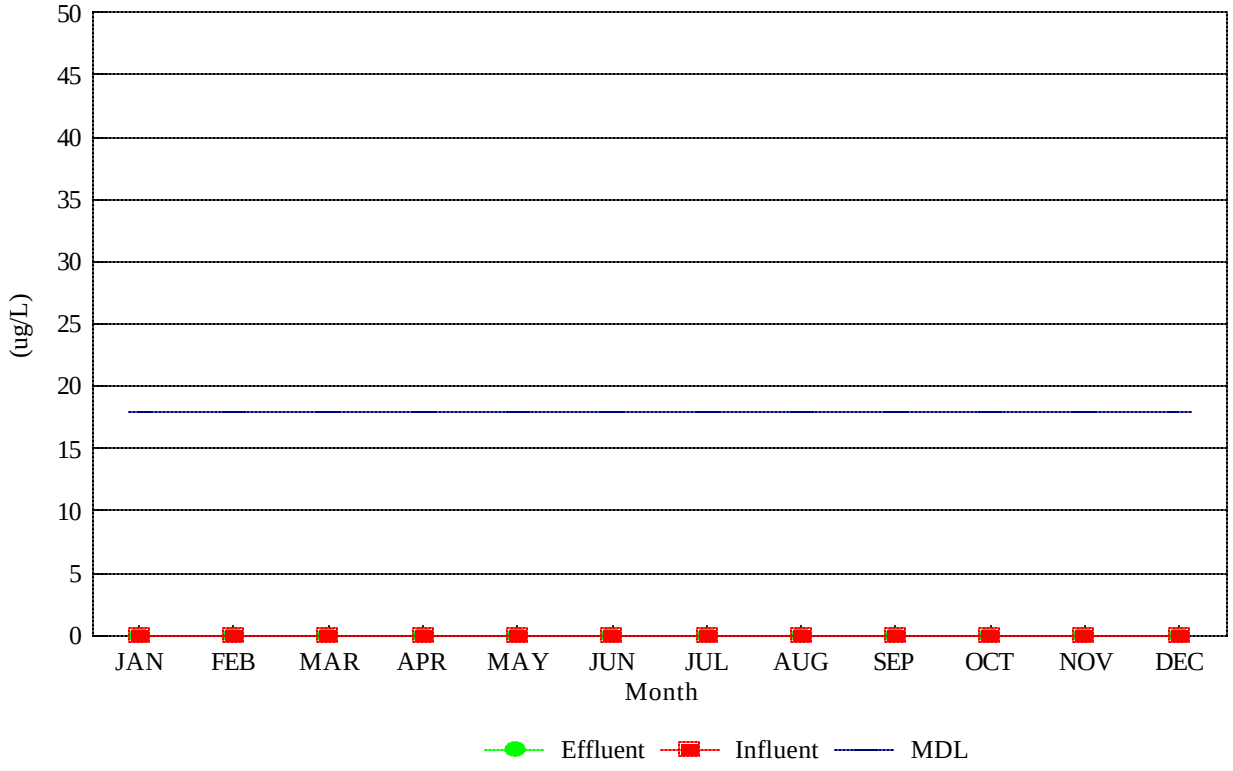
## 2001 MONTHLY AVERAGES - Lead



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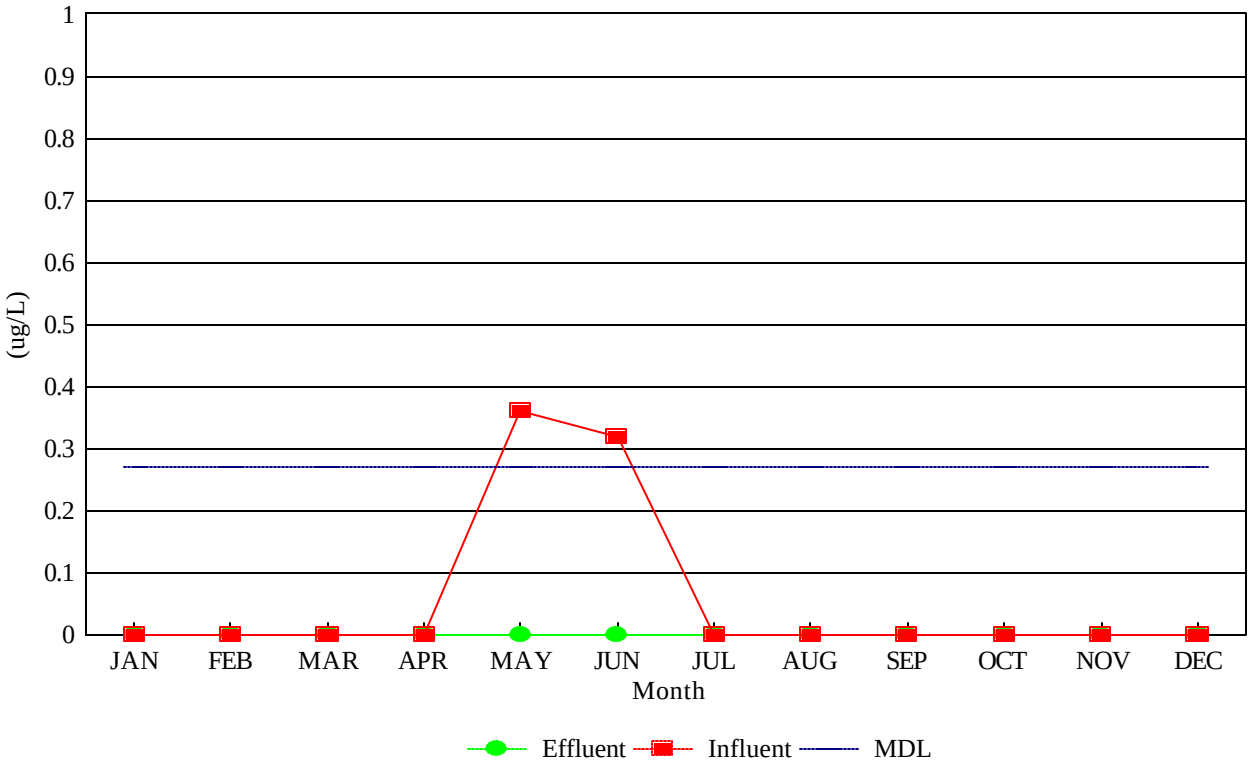
## 2001 MONTHLY AVERAGES - Mercury

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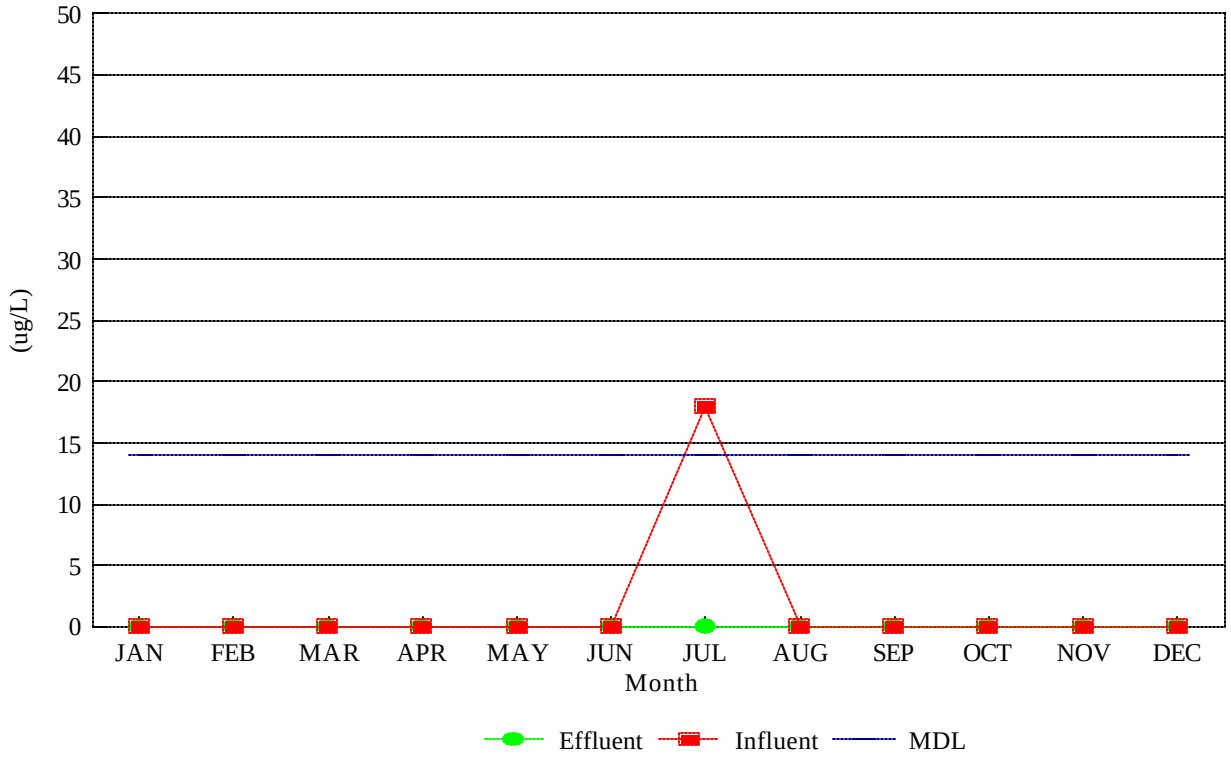
## 2001 MONTHLY AVERAGES - Nickel



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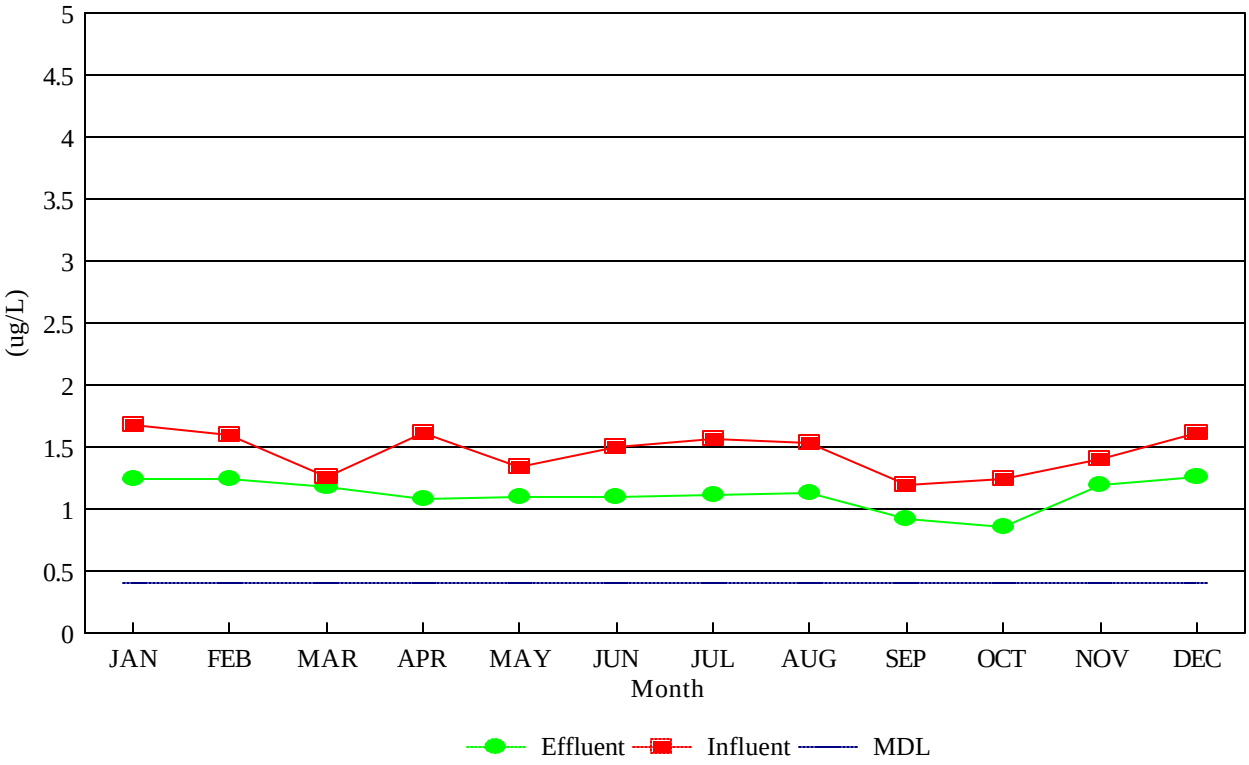
## 2001 MONTHLY AVERAGES - Selenium

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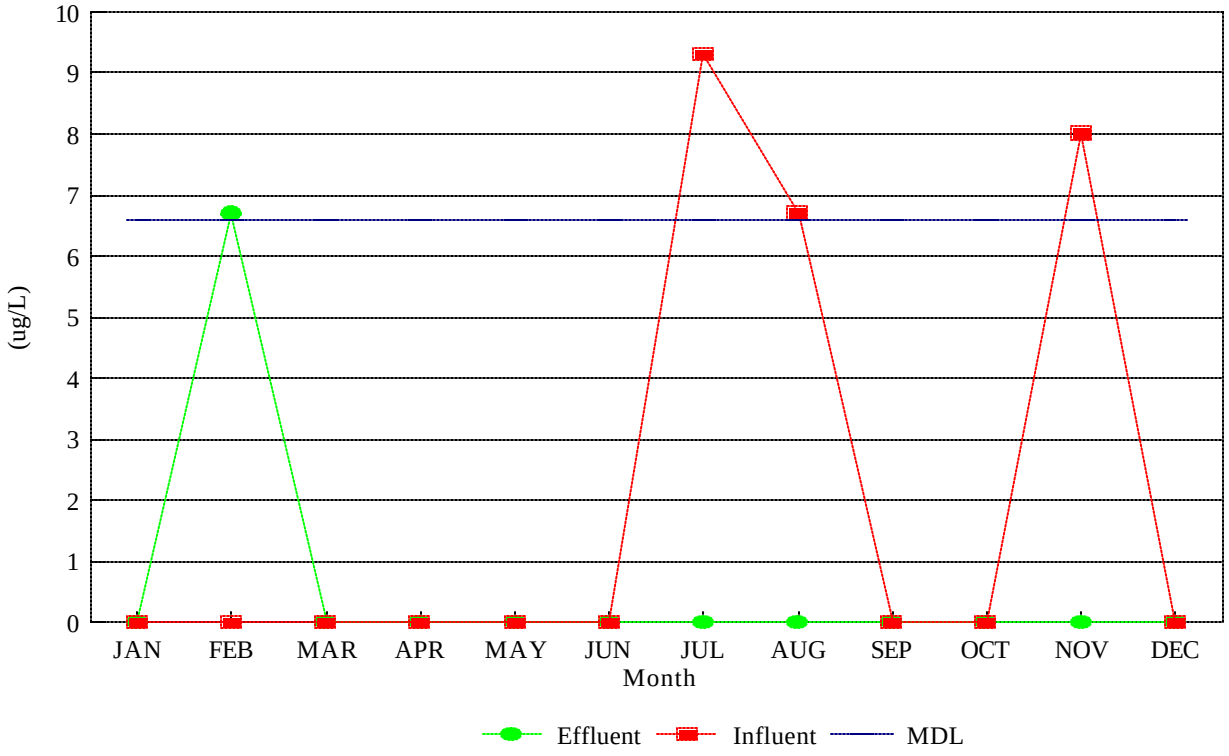
## 2001 MONTHLY AVERAGES - Silver



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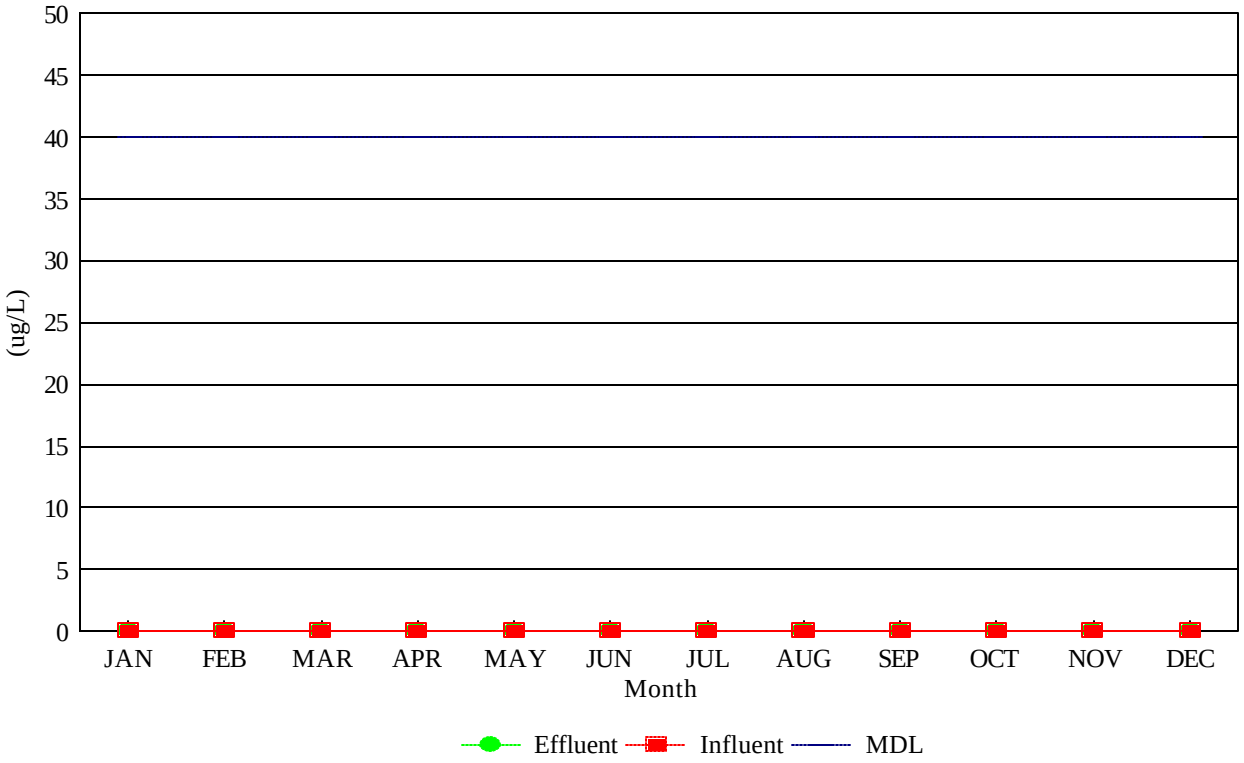
## 2001 MONTHLY AVERAGES - Thallium

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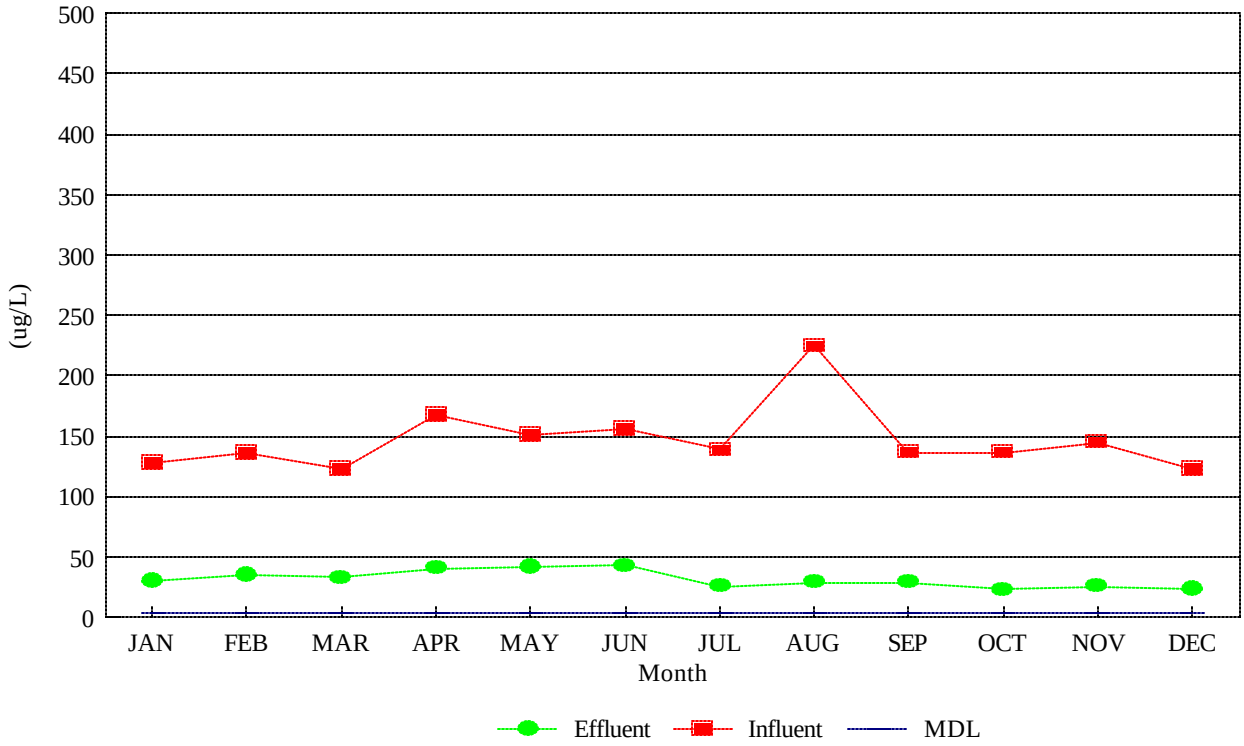
## 2001 MONTHLY AVERAGES - Zinc



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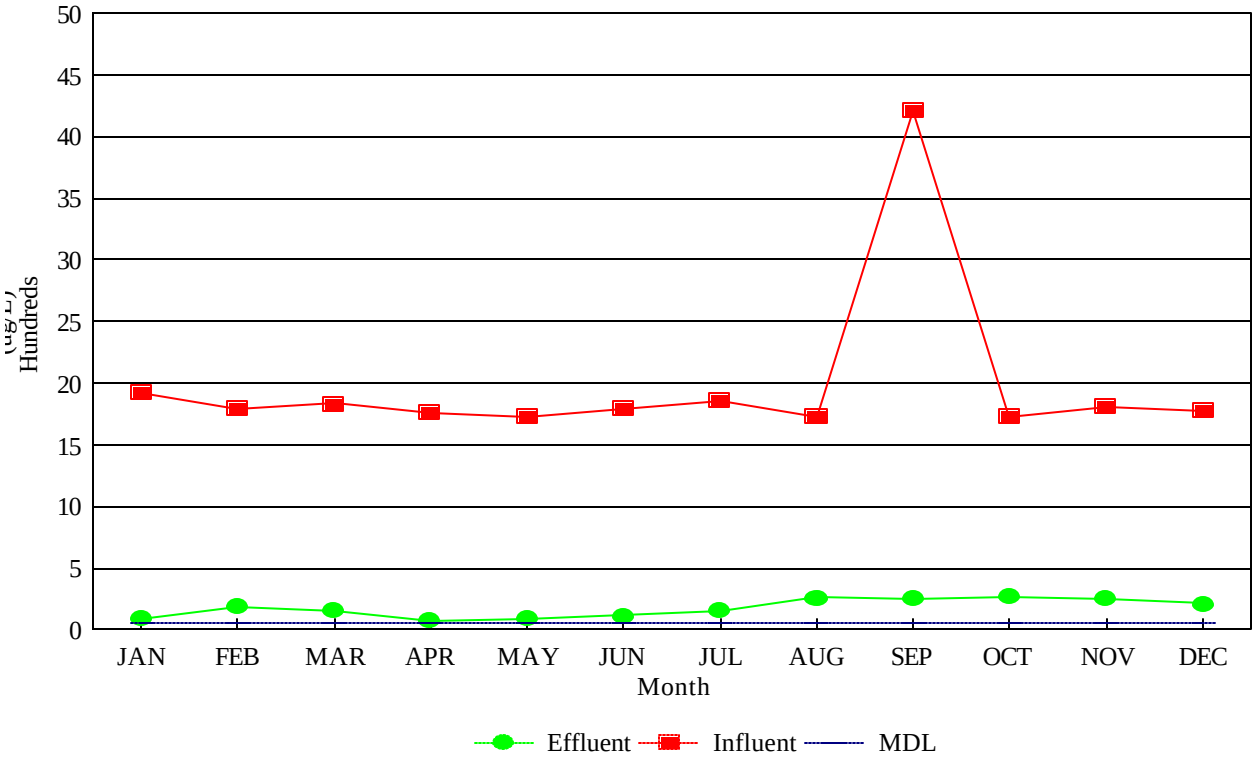
## 2001 MONTHLY AVERAGES - Aluminum

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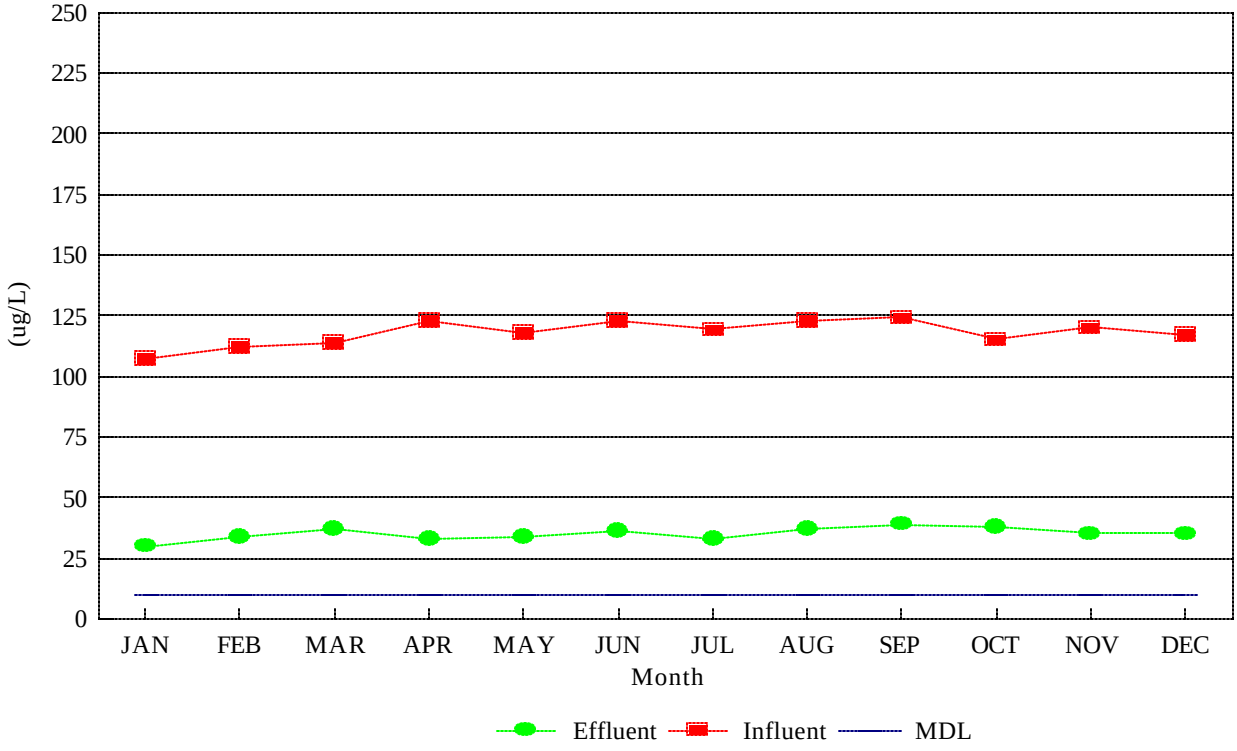
## 2001 MONTHLY AVERAGES - Barium



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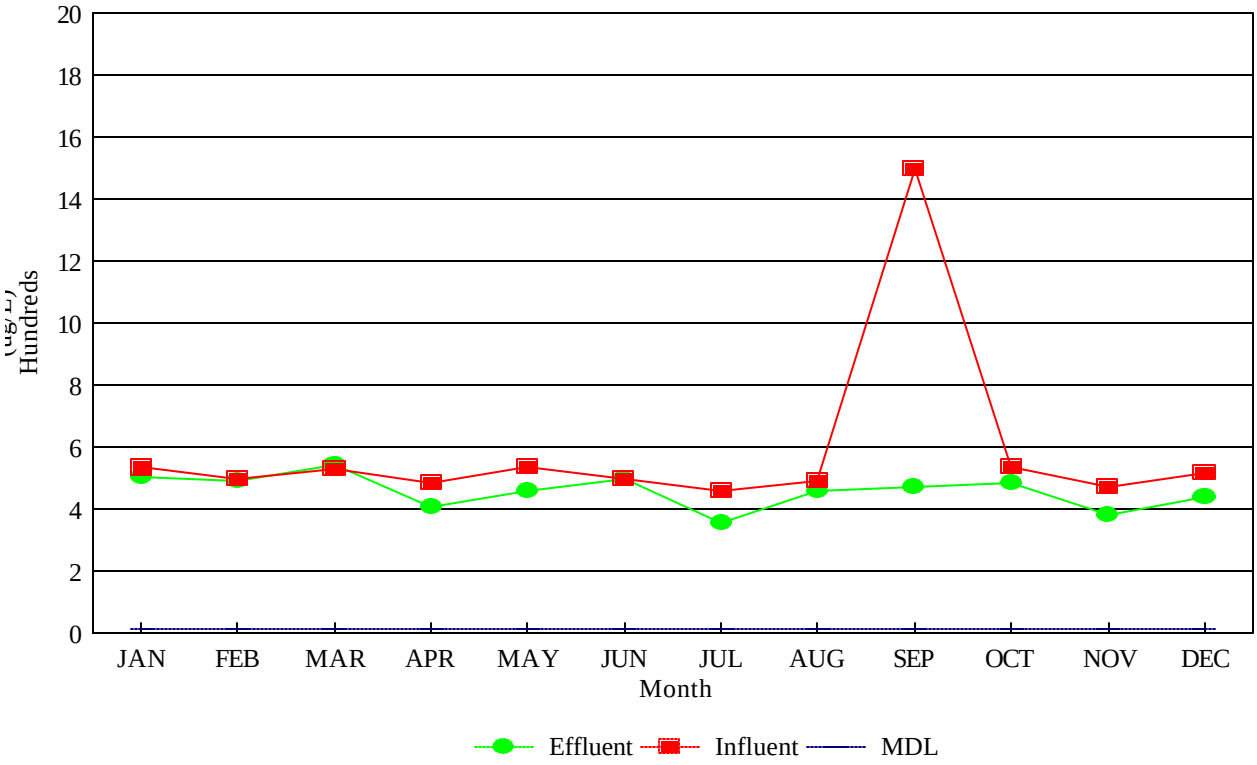
## 2001 MONTHLY AVERAGES - Boron

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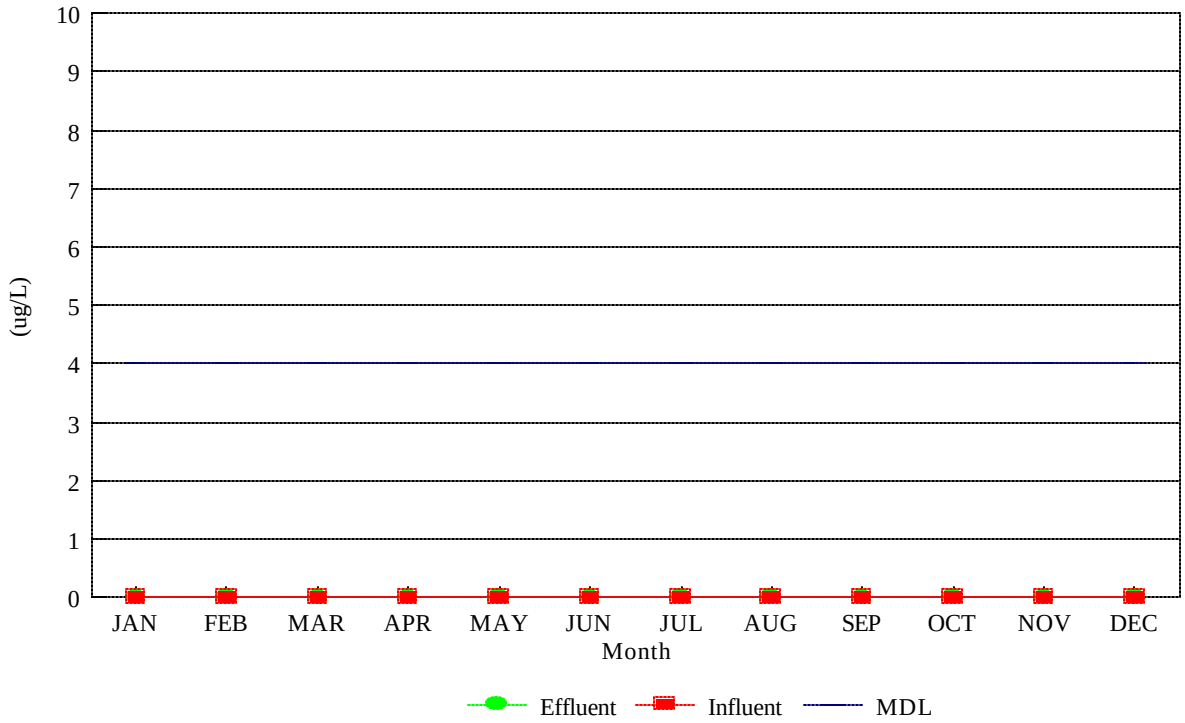
## 2001 MONTHLY AVERAGES - Cobalt



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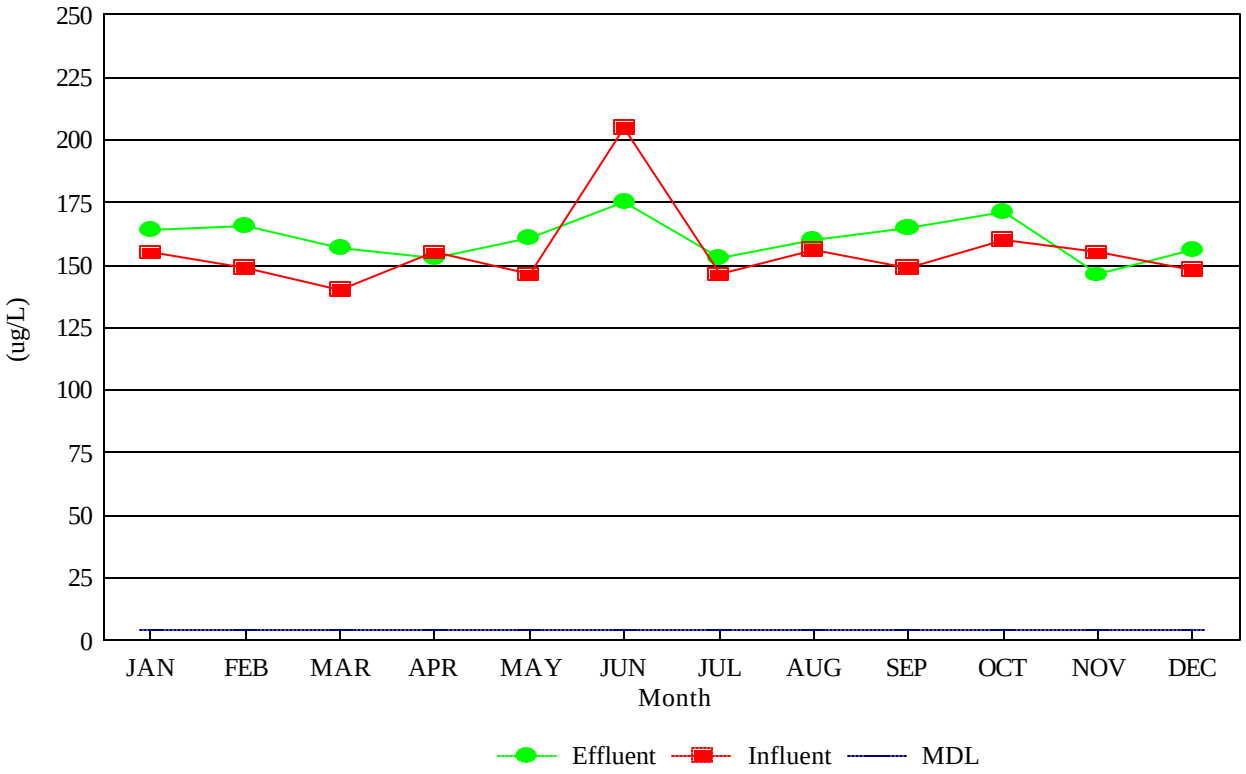
## 2001 MONTHLY AVERAGES - Manganese

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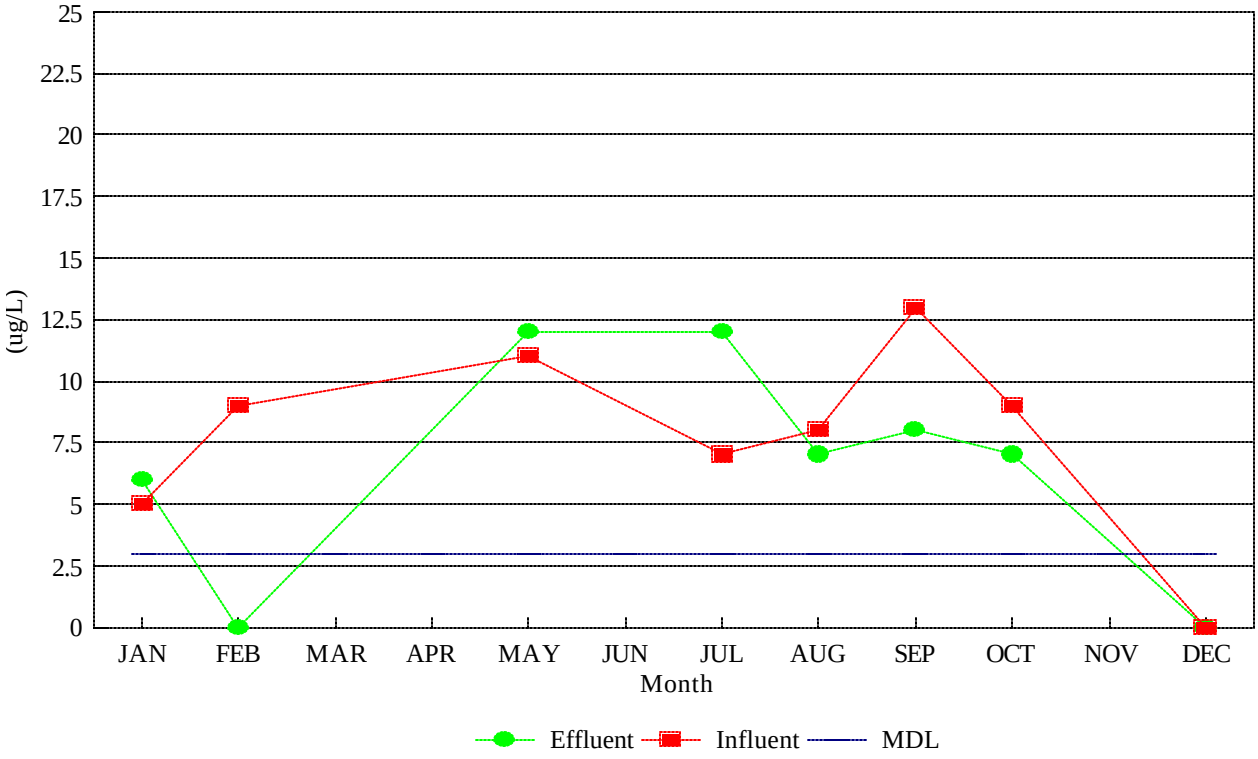
## 2001 MONTHLY AVERAGES - Molybdenum



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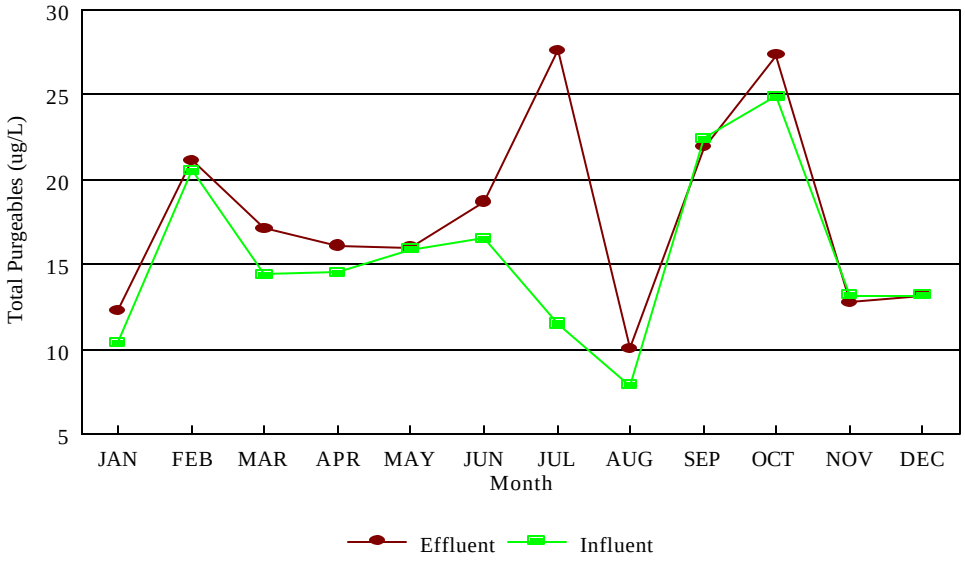
## 2001 MONTHLY AVERAGES - Purgeables

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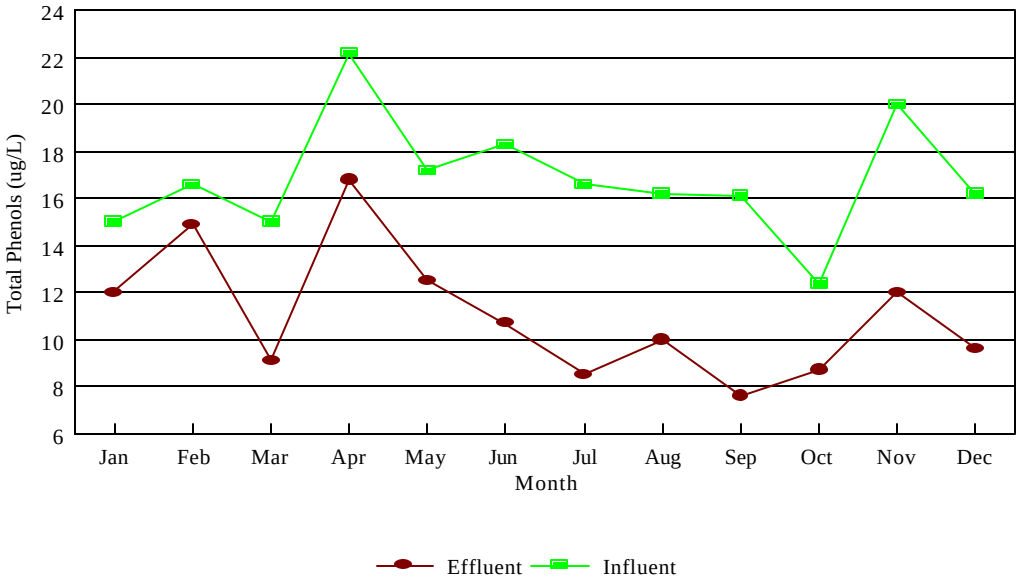
## 2001 MONTHLY AVERAGES - Phenols (ug/L)



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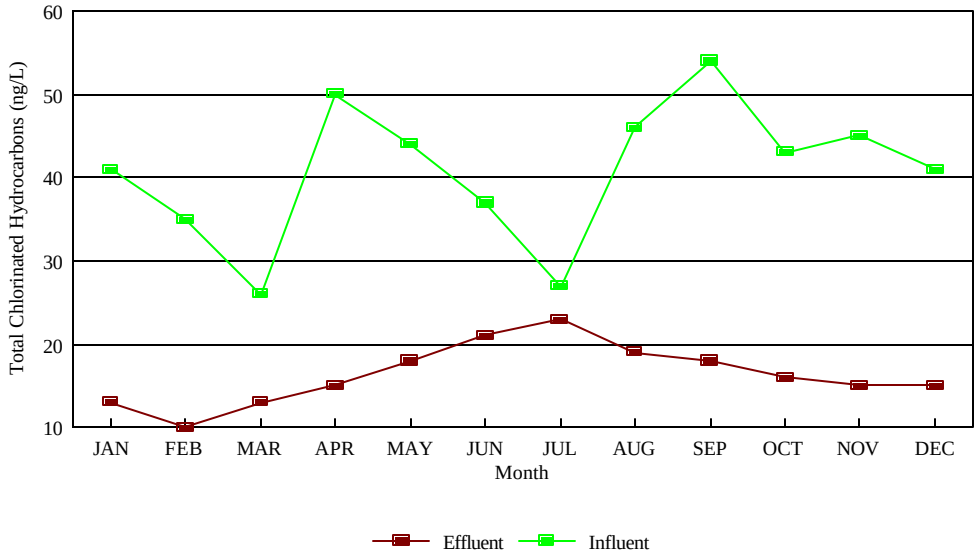
## 2001 MONTHLY AVERAGES - TCH (ng/L)

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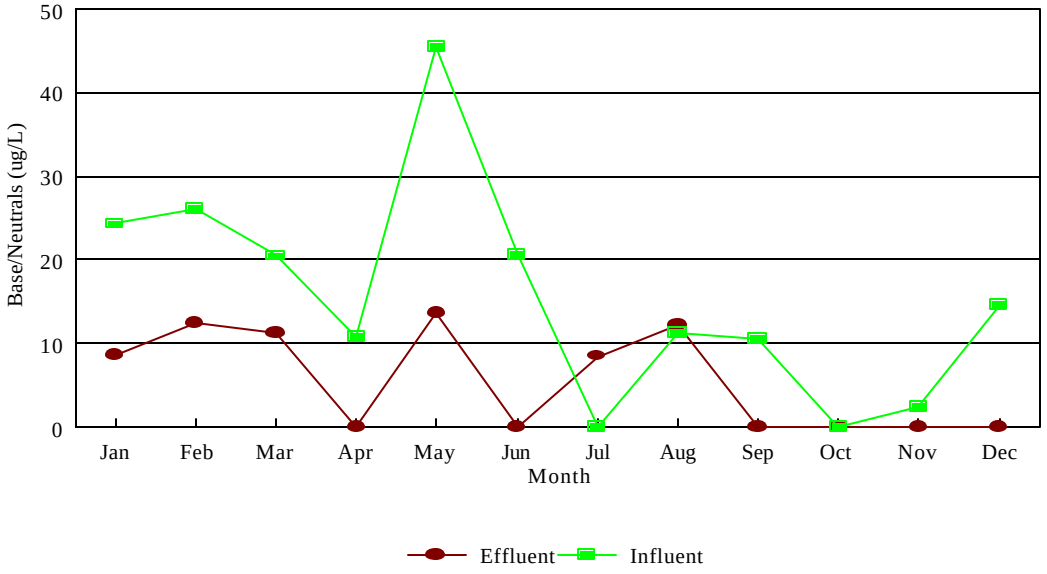
## 2001 MONTHLY AVERAGES - Base/Neutrals



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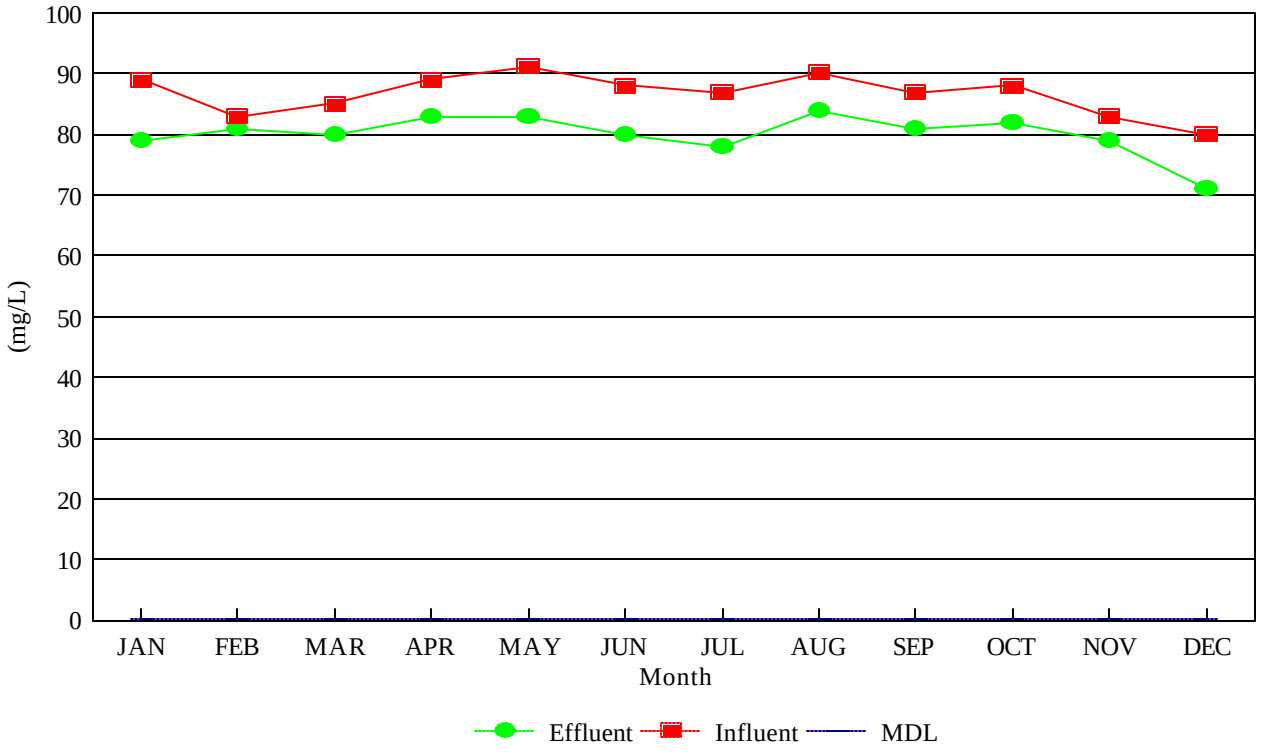
## 2001 MONTHLY AVERAGES - Calcium

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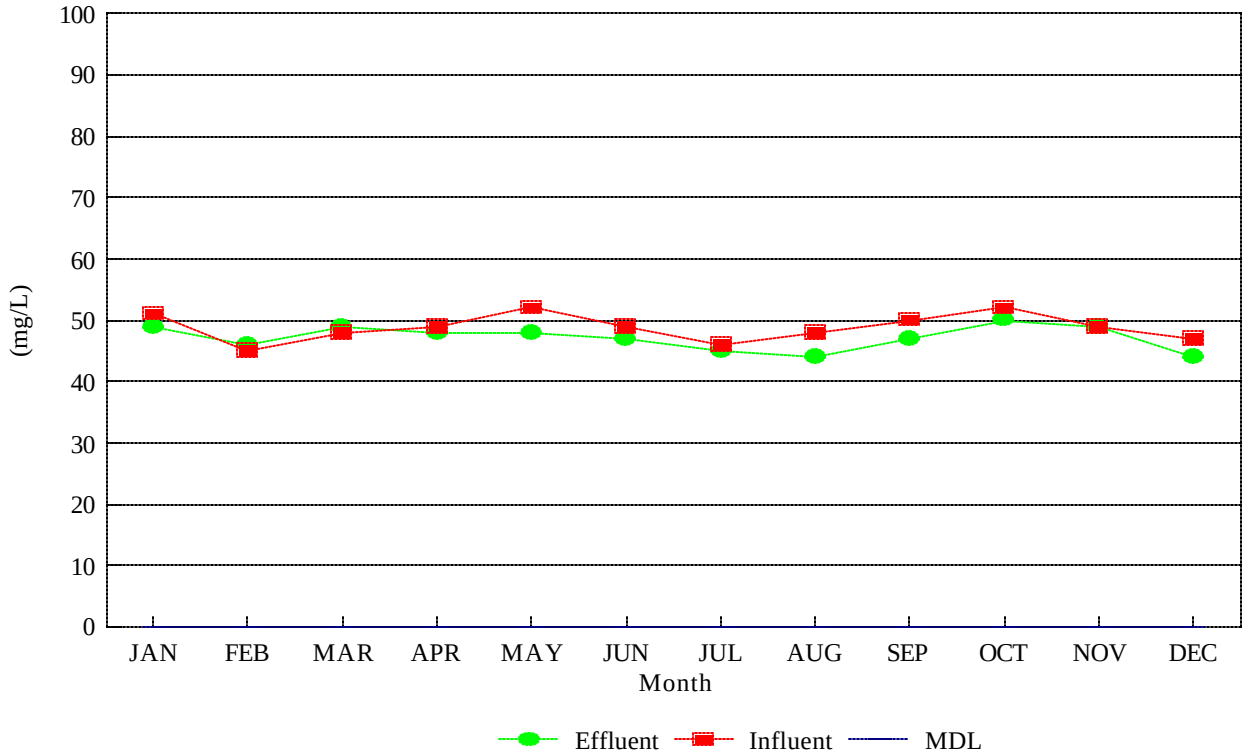
## 2001 MONTHLY AVERAGES - Magnesium



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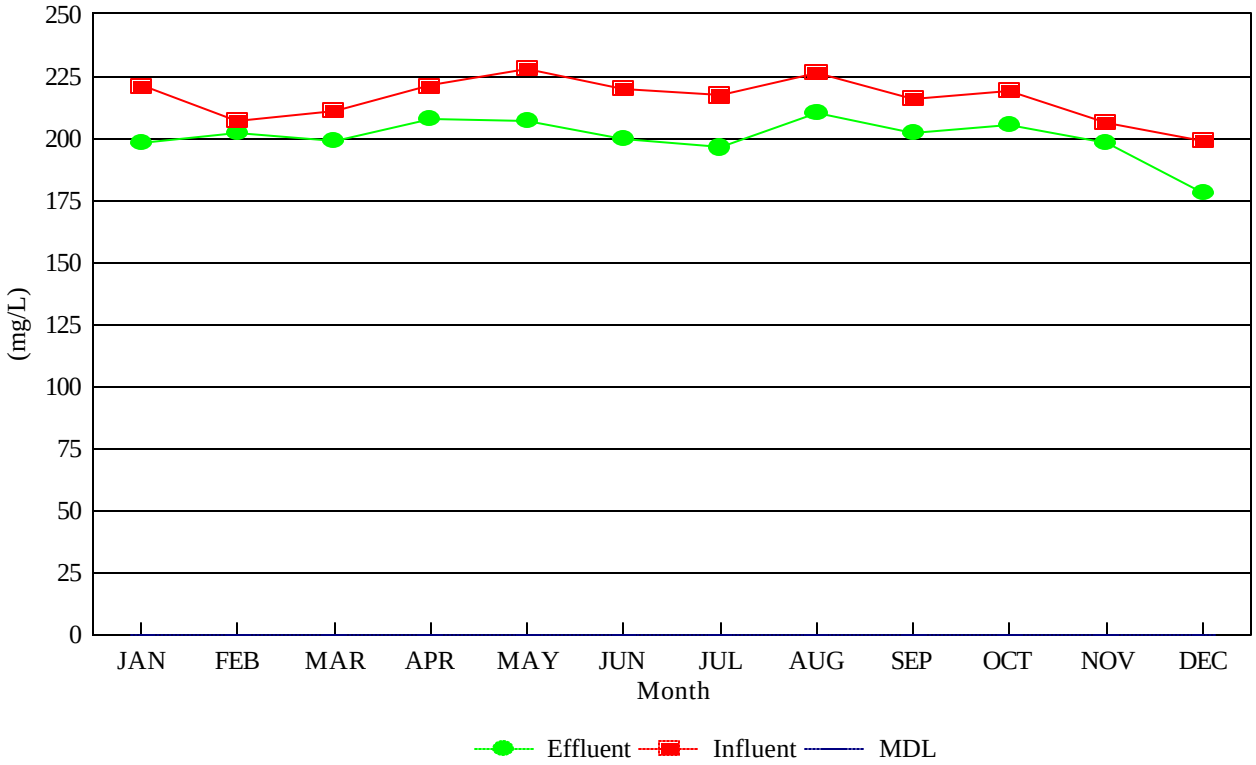
## 2001 MONTHLY AVERAGES-Calcium Hardness

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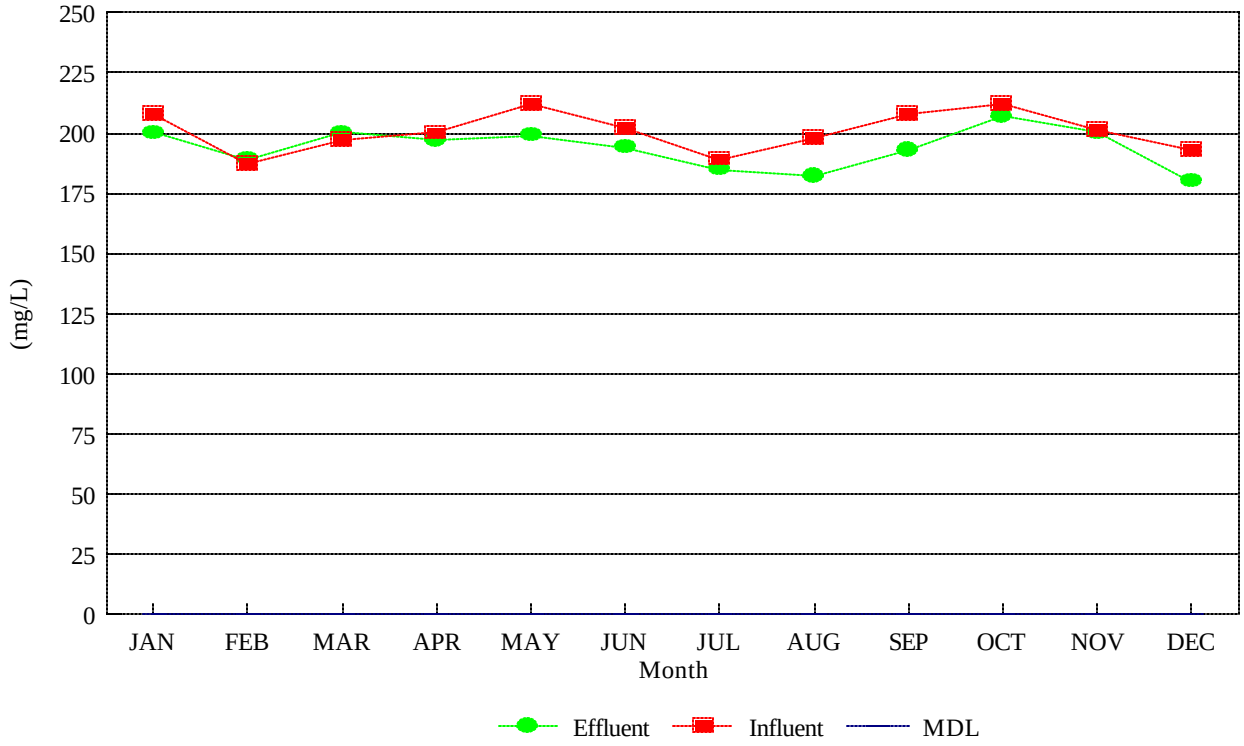
## 2001 MONTHLY AVERAGES-Magnesium Hard



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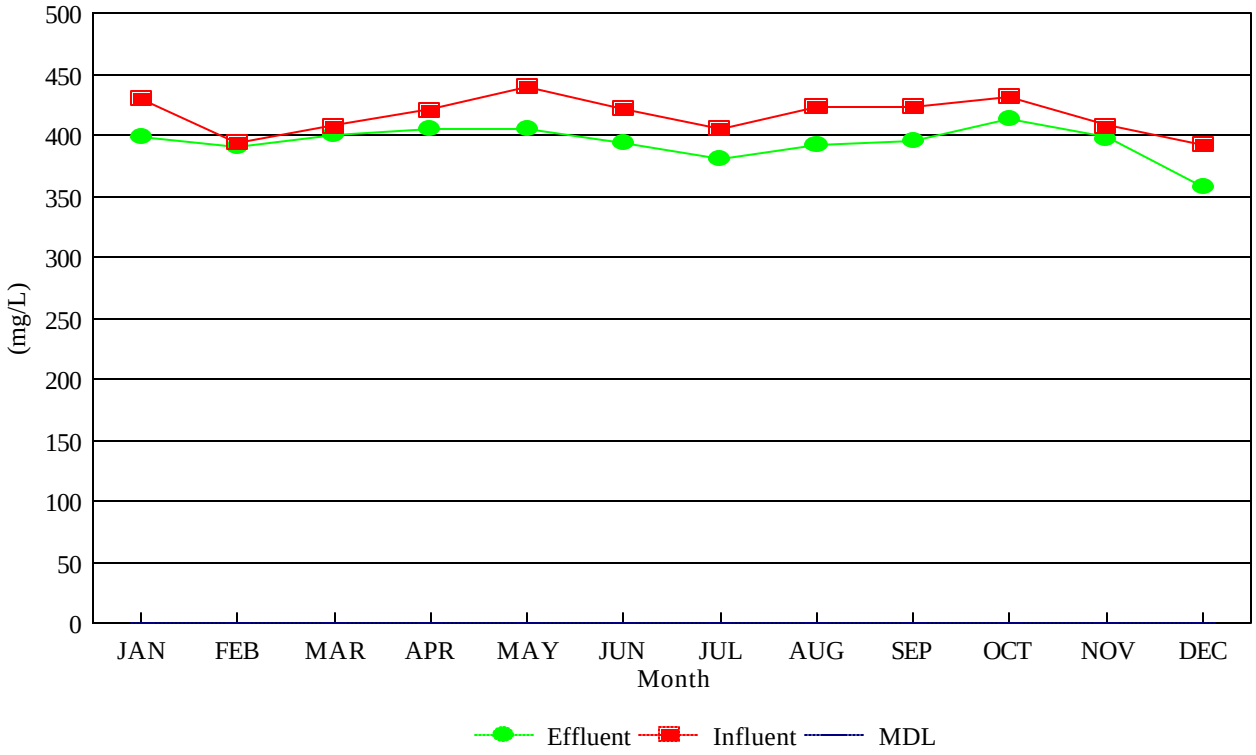
## 2001 MONTHLY AVERAGES - Total Hardness

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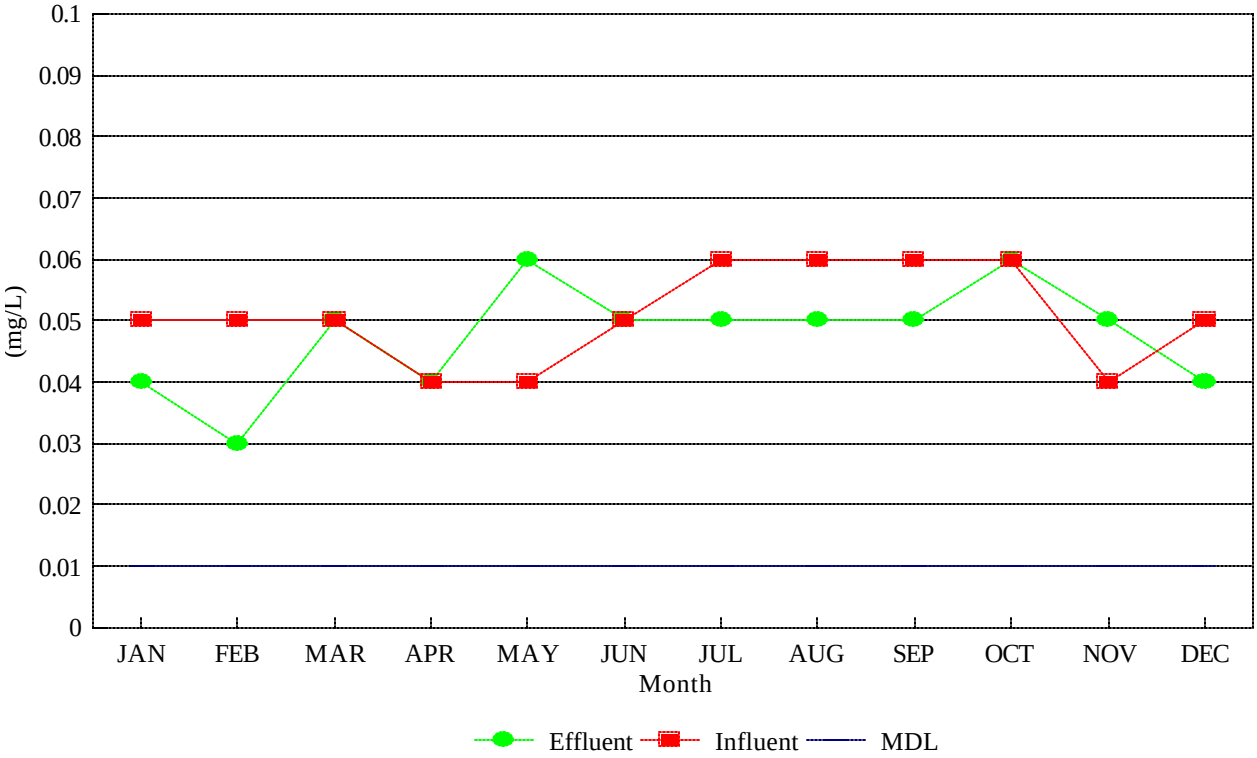
## 2001 MONTHLY AVERAGES - Lithium



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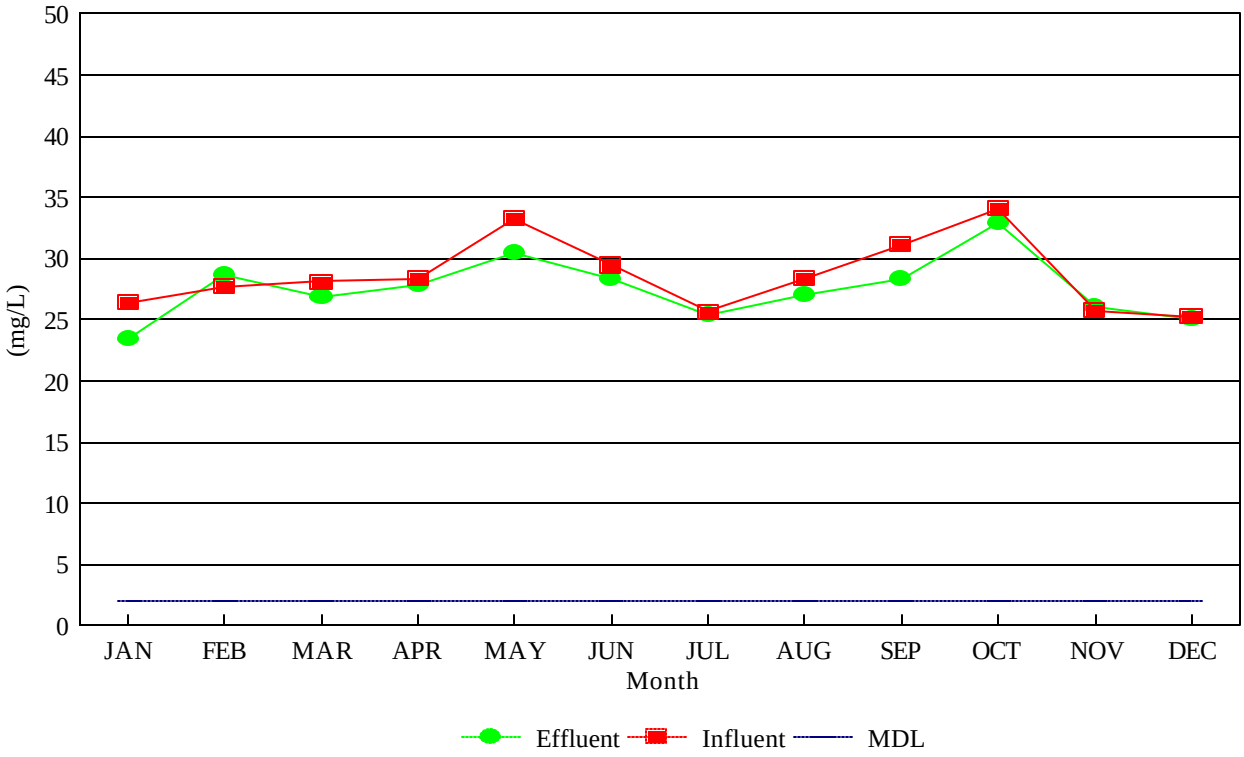
## 2001 MONTHLY AVERAGES - Potassium

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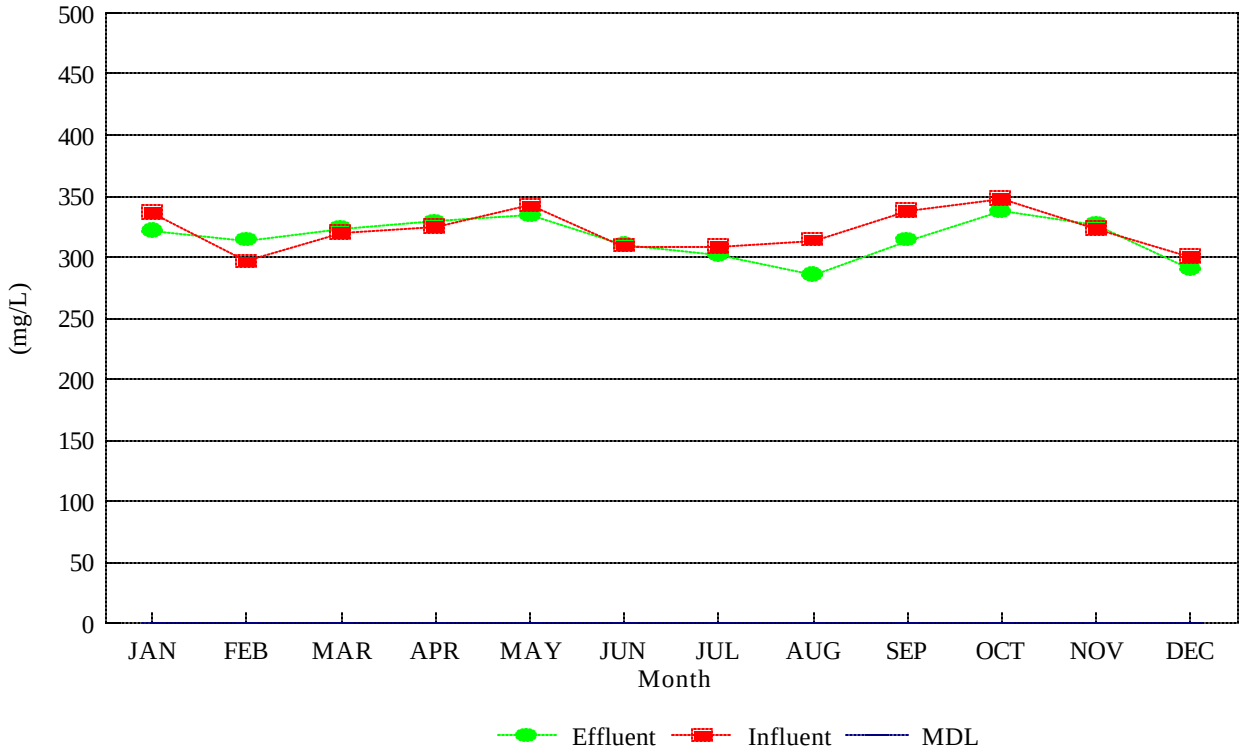
## 2001 MONTHLY AVERAGES - Sodium



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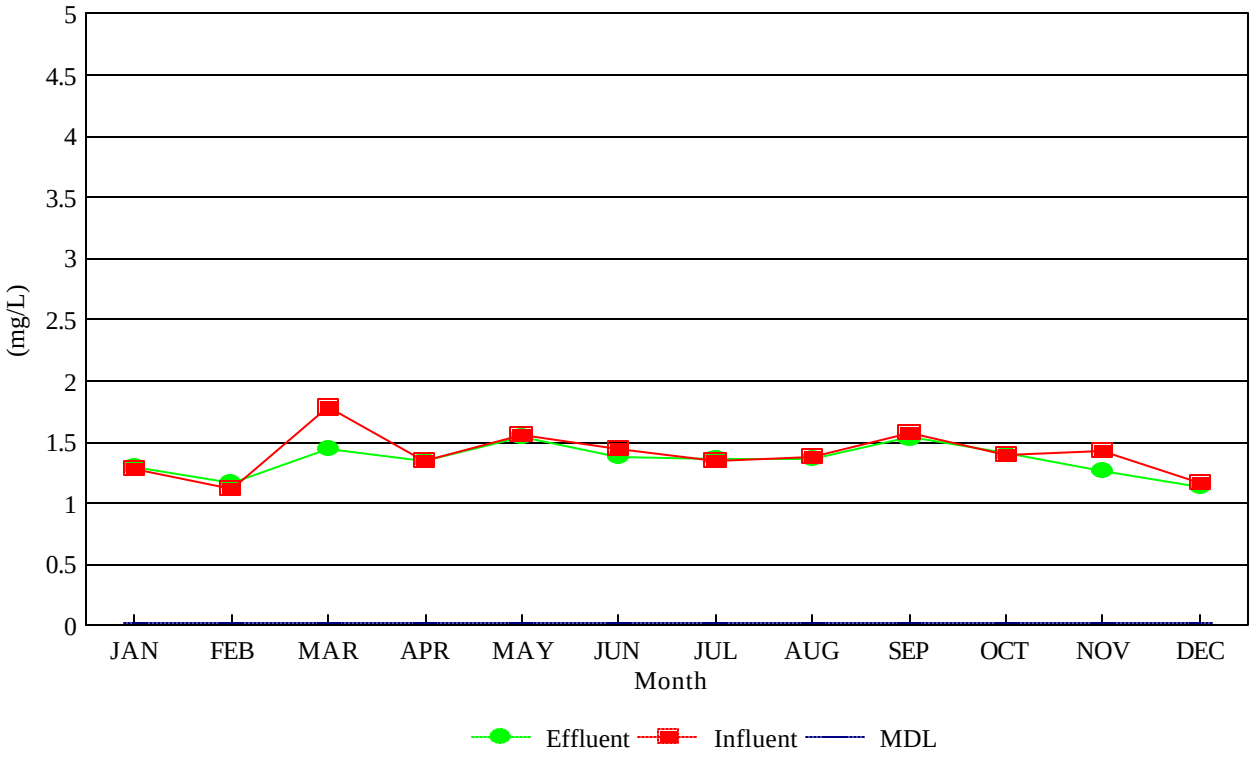
## 2001 MONTHLY AVERAGES - Bromide

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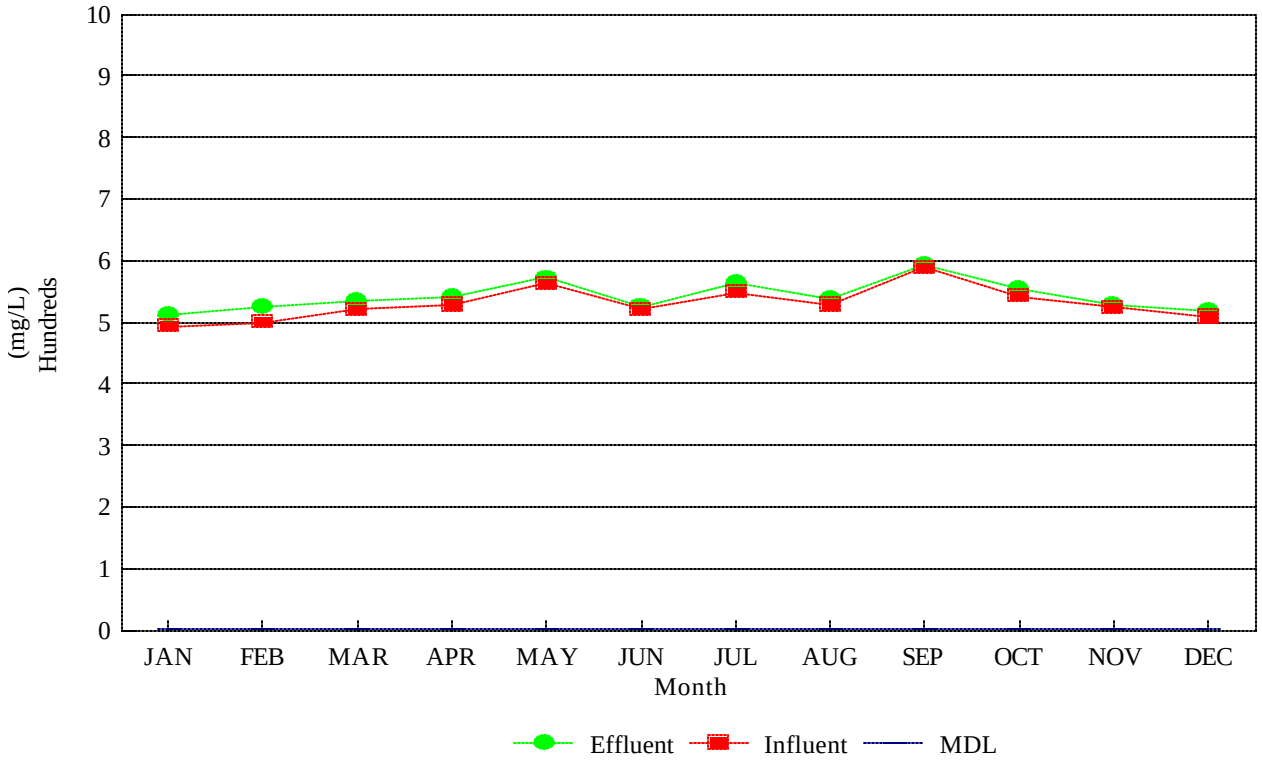
## 2001 MONTHLY AVERAGES - Chloride



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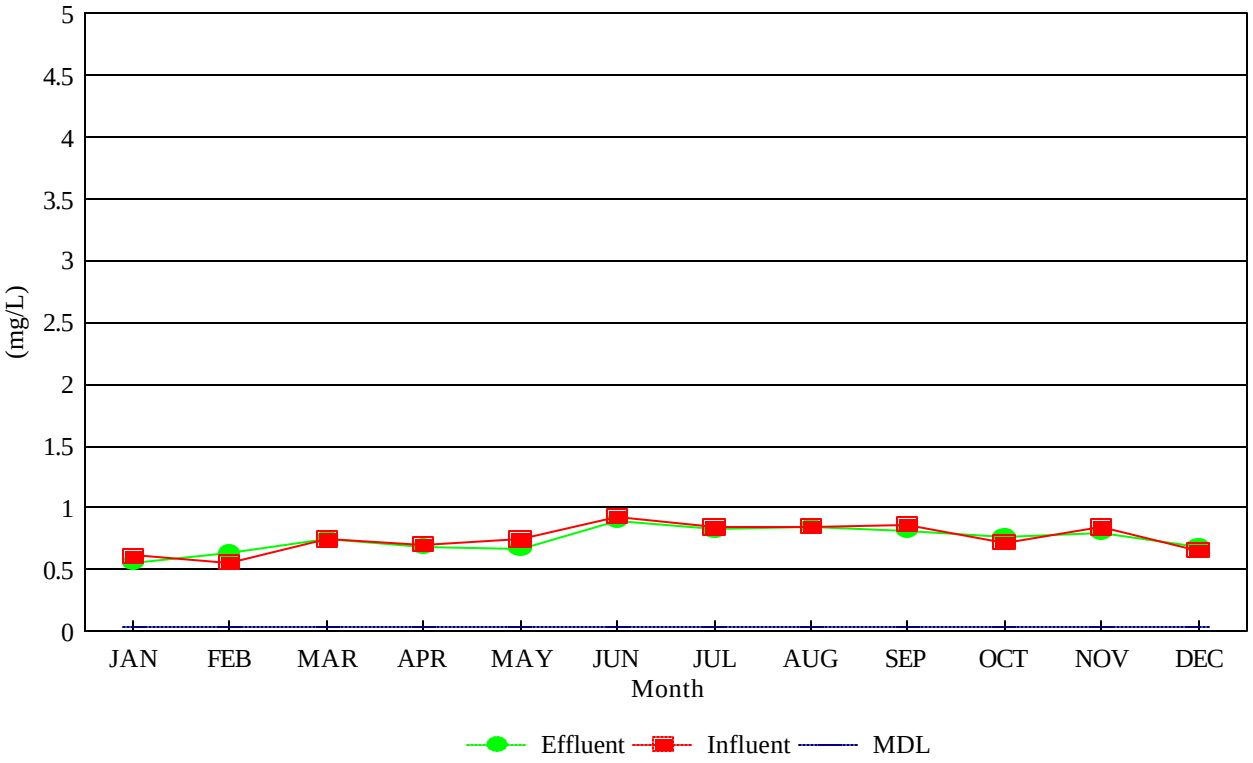
## 2001 MONTHLY AVERAGES - Fluoride

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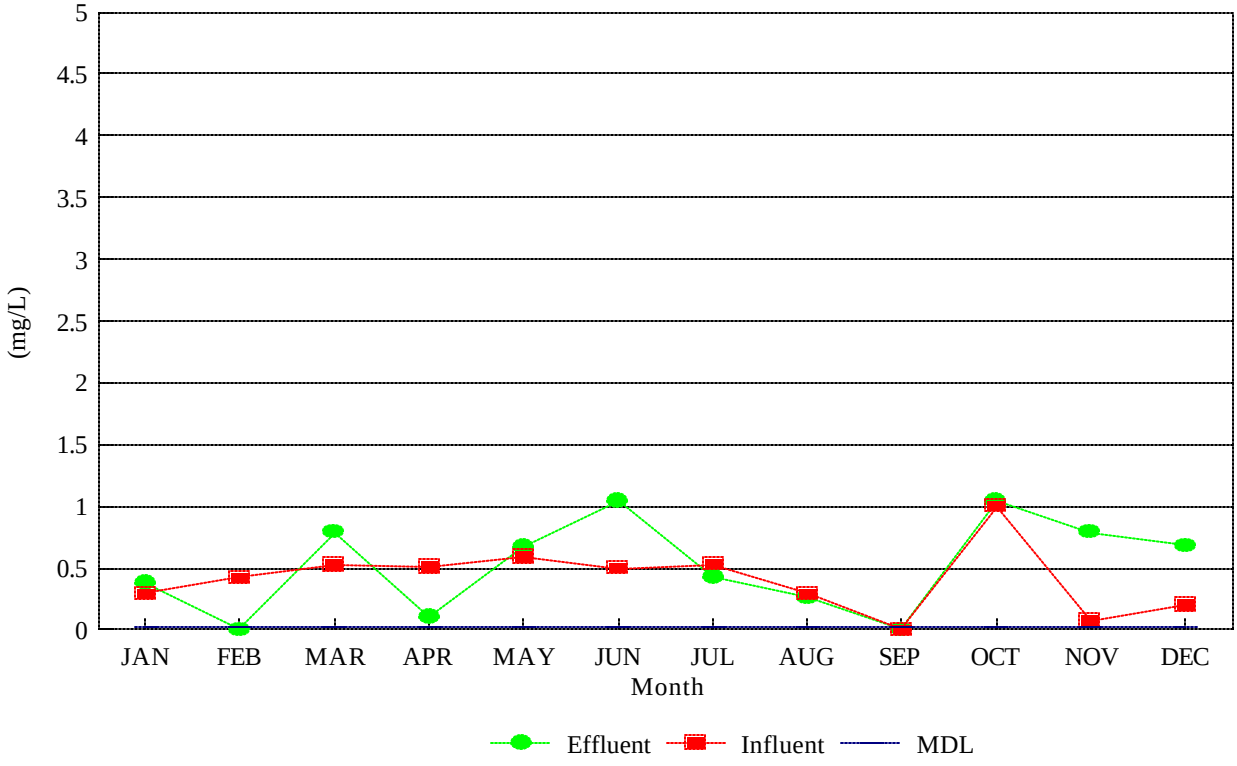
## 2001 MONTHLY AVERAGES - Nitrate



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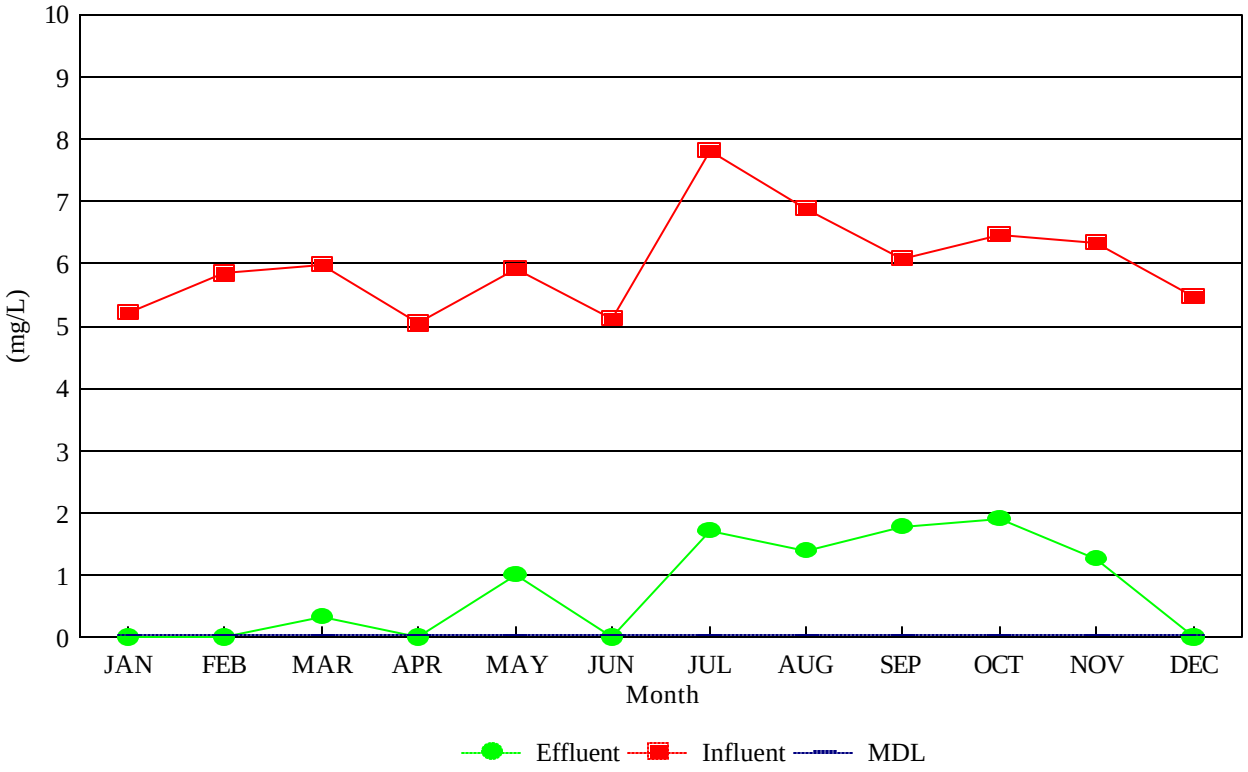
## 2001 MONTHLY AVERAGES - O-Phosphate

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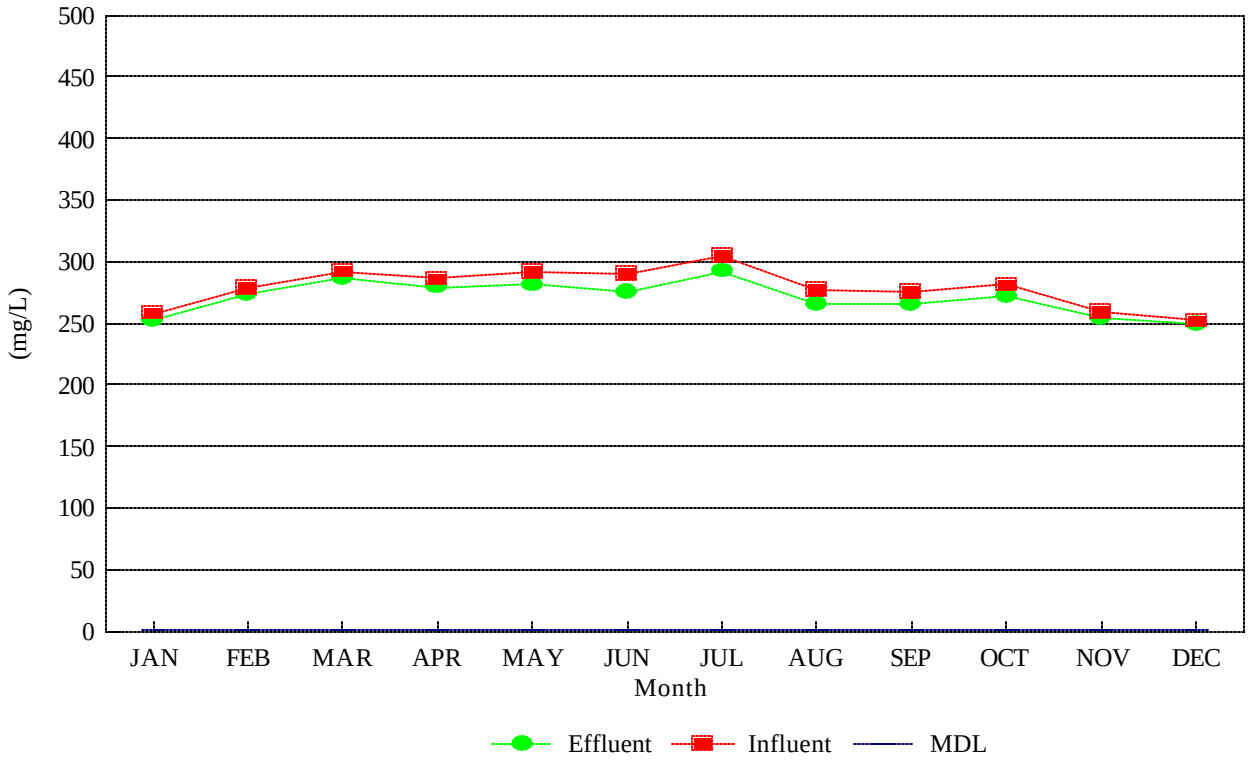
## 2001 MONTHLY AVERAGES - Sulfate



C. 6-Year Tables.

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

ARSENIC (ug/L) 1996

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | 1.8 | 1.1 | 1.4 | 1.1 | 1.2 | 0.9 | 2.0 | 1.3 | 1.9 | 1.1 | 2.7 | 1.6 | 2.1 | 1.4 | 2.8 | 1.3 | 2.0 | 1.3 | 2.6 | 2.1 | 1.7 | 1.2 | 1.6 | 1.1 |
| 2 | 2.2 | 1.2 | 1.1 | 1.0 | 1.3 | 0.8 | 1.9 | 1.5 | 2.0 | 1.0 | 1.9 | 1.2 | 2.4 | 1.5 | 2.0 | 1.1 | 1.5 | 1.1 | 2.2 | 1.9 | 2.3 | 1.8 | 1.9 | 1.5 |
| 3 | 3.4 | 1.1 | 1.3 | 0.6 | 1.3 | 0.7 | 2.2 | 1.9 | 1.8 | 1.2 | 2.1 | 1.5 | 2.4 | 1.4 | 2.1 | 1.7 | 1.5 | 1.2 | 3.5 | 2.7 | 3.0 | 1.4 | 2.3 | 1.5 |
| 4 | | | 1.4 | 0.7 | 1.6 | 1.2 | 2.1 | 1.6 | 1.8 | 1.3 | | | 1.7 | 1.4 | 2.5 | 1.6 | 1.9 | 1.3 | 3.2 | 2.1 | | | 1.6 | 1.0 |
| Average | 2.4 | 1.1 | 1.3 | 0.8 | 1.3 | 0.9 | 2.0 | 1.6 | 1.9 | 1.1 | 2.3 | 1.4 | 2.2 | 1.4 | 2.4 | 1.4 | 1.7 | 1.2 | 2.9 | 2.2 | 2.3 | 1.5 | 1.8 | 1.3 |

ARSENIC (ug/L) 1997

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | 1.3 | 2.3 | 1.3 | 1.4 | 1.1 | 1.8 | 1.3 | 2.6 | 1.3 | 2.1 | 1.6 | 2.8 | 2.2 | 2.1 | 0.7 | 2.7 | 2.0 | 2.8 | 1.6 | 2.8 | 1.6 | 1.3 | 1.1 |
| 2 | 2.2 | 1.4 | 2.6 | 1.2 | 2.0 | 2.3 | 2.2 | 1.4 | 2.1 | 1.6 | 2.2 | 1.9 | 3.5 | 1.5 | 1.4 | 0.8 | 2.6 | 2.6 | 2.3 | 1.4 | 2.2 | 1.6 | 1.0 | 1.0 |
| 3 | 2.5 | 1.5 | 1.7 | 1.1 | 2.0 | 2.4 | 2.4 | 1.8 | 2.6 | 1.8 | 2.0 | 1.6 | 2.9 | 1.5 | 1.2 | 0.8 | 2.6 | 1.7 | 2.1 | 1.9 | 2.1 | 1.5 | 1.4 | 1.0 |
| 4 | 4.6 | 1.8 | 2.1 | 1.4 | 1.6 | 1.2 | | | 2.3 | 2.1 | 2.1 | 1.4 | 2.7 | 1.4 | 1.3 | 1.1 | | | 3.2 | 1.8 | 2.4 | 1.7 | 1.5 | 0.7 |
| Average | 2.8 | 1.5 | 2.2 | 1.3 | 1.7 | 1.8 | 2.1 | 1.5 | 2.4 | 1.7 | 2.1 | 1.6 | 2.9 | 1.6 | 1.5 | 0.8 | 2.6 | 2.1 | 2.6 | 1.6 | 2.4 | 1.6 | 1.3 | 1.0 |

ARSENIC (ug/L) 1998

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | 1.8 | 1.0 | 2.6 | 1.3 | 2.1 | 1.6 | 2.0 | 1.2 | 1.9 | 0.9 | 1.5 | 0.9 | 1.7 | 1.2 | 2.3 | 1.3 | 2.2 | 1.2 | 2.1 | 1.2 | 1.9 | 1.3 | 3.6 | 1.2 |
| 2 | 1.8 | 0.8 | 3.3 | 1.3 | 1.9 | 1.2 | 1.8 | 1.1 | 2.2 | 1.2 | 1.3 | 1.1 | 1.9 | 1.2 | 2.4 | 1.5 | 3.2 | 1.3 | 2.2 | 1.0 | 1.5 | 1.2 | 2.1 | 1.6 |
| 3 | 1.8 | 0.8 | 2.8 | 2.3 | 1.9 | 1.4 | 1.4 | 0.9 | 1.6 | 0.9 | 1.3 | 1.1 | 1.7 | 1.2 | 2.2 | 1.4 | 2.9 | 1.4 | 2.3 | 1.6 | 2.1 | 1.1 | 1.3 | 0.8 |
| 4 | 2.8 | 1.1 | | | 2.1 | 1.0 | 1.4 | 0.8 | 1.4 | 1.1 | 1.8 | 0.7 | | | 2.4 | 1.4 | 1.9 | 1.2 | 2.0 | 1.1 | 1.8 | 1.1 | 1.4 | 0.7 |
| Average | 2.0 | 0.9 | 2.9 | 1.6 | 2.0 | 1.3 | 1.7 | 1.0 | 1.8 | 1.0 | 1.5 | 1.0 | 1.7 | 1.2 | 2.3 | 1.4 | 2.6 | 1.3 | 2.1 | 1.2 | 1.9 | 1.2 | 2.1 | 1.1 |

ARSENIC (ug/L) 1999

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | 1.5 | 0.8 | 1.8 | 1.0 | 1.4 | 0.8 | 1.3 | 0.8 | 1.3 | 0.9 | 1.7 | 1.0 | 1.6 | 1.1 | 1.7 | 1.1 | 1.8 | 1.1 | 1.9 | 1.5 | 1.5 | 0.7 | 1.7 | 0.9 |
| 2 | 1.6 | 0.8 | 1.7 | 0.8 | 1.6 | 0.9 | 1.6 | 1.0 | 1.6 | 0.9 | 1.9 | 1.2 | 2.0 | 1.2 | 2.0 | 1.1 | 1.7 | 1.1 | 1.6 | 1.2 | 1.9 | 1.0 | 1.5 | 1.0 |
| 3 | 1.6 | 0.9 | 1.6 | 0.8 | 1.4 | 0.8 | 1.7 | 0.7 | 1.5 | 1.2 | 1.5 | 1.0 | 1.6 | 1.1 | 1.9 | 1.1 | 1.8 | 1.2 | 2.1 | 1.4 | 2.0 | 1.2 | 1.2 | 1.0 |
| 4 | | | 1.7 | 1.1 | 2.9 | 1.3 | 2.0 | 1.1 | | | 1.5 | 1.0 | 1.5 | 1.4 | 1.7 | 1.1 | 1.4 | 1.0 | 2.1 | 1.0 | | | 1.1 | 0.9 |
| Average | 1.6 | 0.8 | 1.7 | 0.9 | 2.0 | 1.3 | 1.7 | 0.9 | 1.5 | 1.0 | 1.6 | 1.1 | 1.7 | 1.2 | 1.8 | 1.1 | 1.7 | 1.1 | 1.9 | 1.3 | 1.8 | 1.0 | 1.4 | 0.9 |

ARSENIC (ug/L) 2000

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | 1.4 | 0.6 | 1.6 | 0.9 | 1.1 | 1.2 | 1.5 | 0.8 | 2.1 | <0.2 | 0.3 | <0.2 | 1.2 | 0.7 | 1.2 | 0.9 | 1.2 | 1.0 | 1.3 | 1.1 | 1.6 | 0.9 | 1.0 | 0.4 |
| 2 | 1.5 | 0.7 | 1.4 | 1.0 | 1.2 | 0.8 | 1.5 | 0.9 | 1.5 | <0.2 | 1.4 | 1.1 | 1.5 | 0.8 | 1.1 | 1.0 | 1.3 | 1.0 | 1.3 | 0.8 | 1.2 | 1.1 | 1.2 | 0.7 |
| 3 | 1.3 | 0.8 | 1.5 | 1.1 | 0.9 | 0.7 | 1.4 | 0.9 | 2.3 | 0.2 | 1.1 | 0.9 | 1.3 | 0.8 | 1.0 | 0.7 | 0.8 | 0.7 | 1.4 | 1.0 | 1.3 | 0.9 | 1.0 | 0.7 |
| 4 | 1.2 | 0.7 | 1.4 | 0.8 | 1.1 | 0.6 | | | 0.2 | 0.7 | 1.5 | 0.8 | 1.3 | 1.2 | 2.2 | 1.4 | | | 1.5 | 1.1 | 0.9 | 0.8 | 1.2 | 0.9 |
| Average | 1.3 | 0.8 | 1.5 | 0.9 | 1.1 | 0.8 | 1.5 | 0.9 | 1.5 | 0.2 | 1.1 | 0.7 | 1.3 | 0.9 | 1.8 | 1.1 | 1.1 | 0.9 | 1.4 | 1.0 | 1.2 | 0.9 | 1.1 | 0.7 |

ARSENIC (ug/L) 2001

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff |
| 1 | 1.1 | 0.7 | 1.3 | 0.8 | 1.3 | 1.0 | 0.9 | <0.2 | 1.2 | 0.8 | 4.3 | 1.0 | 1.2 | 0.7 | 1.6 | 1.1 | 1.6 | 1.1 | 2.0 | 0.9 | 1.0 | 1.1 | 1.7 | 0.9 |
| 2 | 1.5 | 0.8 | 1.5 | 0.9 | 0.7 | 1.0 | 0.7 | 0.5 | 1.2 | 1.0 | 1.1 | 0.7 | 1.1 | 0.7 | 1.4 | 0.9 | 0.7 | 1.2 | 1.0 | 0.3 | 1.7 | 1.1 | 1.3 | 0.6 |
| 3 | 0.8 | 0.6 | 0.9 | 0.6 | 1.1 | <0.2 | 1.1 | 0.6 | 1.0 | 1.0 | 1.4 | 1.0 | 1.3 | 0.9 | 1.6 | 1.1 | 1.4 | 0.8 | 1.1 | 1.0 | 1.8 | 1.1 | 1.1 | 0.8 |
| 4 | 1.4 | 1.0 | | | 0.6 | 0.4 | 0.8 | 0.4 | 1.2 | 0.8 | 1.4 | 1.0 | | | 1.5 | 1.1 | 0.6 | 0.2 | 1.5 | 1.1 | 1.5 | 0.9 | 1.4 | 0.8 |
| Average | 1.2 | 0.8 | 1.2 | 0.8 | 0.9 | 0.6 | 0.9 | 0.4 | 1.1 | 0.9 | 2.1 | 0.9 | 1.2 | 0.8 | 1.5 | 1.1 | 1.1 | 0.8 | 1.4 | 0.8 | 1.5 | 1.0 | 1.3 | 0.8 |

CADMIUM (ug/L) 1996

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff |
| 1 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.2 | <1.0 | <1.0 | 1.9 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 4.3 | 1.9 | 1.6 | 4.0 | 1.2 | <1.0 | <1.0 | <1.0 | <1.0 |
| 2 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.5 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.1 | <1.0 | <1.0 | 1.1 | 1.3 | 2.7 | 3.2 | 1.4 | <1.0 | <1.0 | <1.0 | <1.0 |
| 3 | <1.0 | <1.0 | 1.8 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.8 | 1.7 | <1.0 | <1.0 | <1.0 | <1.0 | 1.2 | 3.1 | 2.6 | <1.0 | 6.1 | 3.6 | <1.0 | <1.0 | <1.0 | <1.0 |
| 4 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 2.4 | 1.2 | | | <1.0 | 1.1 | <1.0 | 1.1 | 3.8 | 1.5 | 4.4 | 6.1 | | | <1.0 | <1.0 |
| Average | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.5 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 2.4 | 2.4 | 1.5 | 4.4 | 3.1 | <1.0 | <1.0 | <1.0 | <1.0 |

CADMIUM (ug/L) 1997

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff |
| 1 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.2 | <1.0 | <1.0 | 1.2 | <1.0 | 2.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.7 |
| 2 | <1.0 | <1.0 | 3.0 | <1.0 | 1.1 | 1.5 | 1.9 | <1.0 | <1.0 | <1.0 | 1.7 | 1.0 | <1.0 | 1.5 | <1.0 | <1.0 | 1.1 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 2.1 |
| 3 | <1.0 | <1.0 | 1.3 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.6 |
| 4 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | | | <1.0 | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | | | <1.0 | <1.0 | 1.7 | <1.0 | <1.0 | <1.0 |
| Average | <1.0 | <1.0 | 1.1 | <1.0 | 0.3 | <1.0 | <1.0 | <1.0 | 0.3 | 0.3 | 0.9 | 0.3 | <1.0 | 0.4 | <1.0 | <1.0 | 0.4 | <1.0 | <1.0 | <1.0 | 0.4 | <1.0 | <1.0 | 1.4 |

CADMIUM (ug/L) 1998

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff |
| 1 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.2 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.5 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 2 | <1.0 | <1.0 | <1.0 | <1.0 | 2.1 | 1.6 | <1.0 | <1.0 | <1.0 | <1.0 | 1.3 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.7 | 2.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.9 | <1.0 |
| 3 | <1.0 | <1.0 | <1.0 | <1.0 | 1.2 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.4 | 1.4 | <1.0 | <1.0 | <1.0 | <1.0 | 2.4 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.3 | <1.0 |
| 4 | <1.0 | <1.0 | | | 1.5 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 2.1 | <1.0 | | | <1.0 | <1.0 | 2.4 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Average | <1.0 | <1.0 | <1.0 | <1.0 | 1.2 | 0.4 | <1.0 | <1.0 | <1.0 | <1.0 | 1.5 | 0.4 | <1.0 | <1.0 | <1.0 | <1.0 | 1.6 | 0.9 | <1.0 | <1.0 | <1.0 | <1.0 | 0.8 | <1.0 |

CADMIUM (ug/L) 1999

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

CADMIUM (ug/L) 2000

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff |
| 1 | 1.0 | 1.1 | 1.7 | <1.0 | 1.0 | <1.0 | <1.0 | <1.0 | 1.2 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.6 | 1.3 | <1.0 | 1.6 | <1.0 | <1.0 | <1.0 |
| 2 | 1.1 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.5 | 1.5 | <1.0 | <1.0 | 1.7 | <1.0 | 1.4 | <1.0 | <1.0 | <1.0 |
| 3 | 1.2 | <1.0 | 1.0 | <1.0 | 2.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.6 | 1.4 | <1.0 | 1.3 | <1.0 | <1.0 | <1.0 | 1.2 | <1.0 | 2.8 | <1.0 |
| 4 | 1.7 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | | | <1.0 | <1.0 | 14.6 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | | | <1.0 | 1.4 | <1.0 | <1.0 | <1.0 | <1.0 |
| Average | 1.3 | 0.3 | 0.7 | <1.0 | 0.8 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 3.7 | <1.0 | <1.0 | 0.4 | 0.7 | 0.4 | 0.4 | 0.5 | 0.8 | 0.4 | <1.0 | <1.0 | 0.7 | <1.0 |

CADMIUM (ug/L) 2001

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff |
| 1 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.5 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 2 | <1.0 | <1.0 | 2.8 | <1.0 | <1.0 | 2.2 | 1.3 | <1.0 | 2.8 | <1.0 | 2.2 | <1.0 | <1.0 | <1.0 | 2.5 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 3 | <1.0 | 2.5 | 2.6 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 3.7 | 2.8 | <1.0 | <1.0 | <1.0 | <1.0 | 1.1 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 4 | <1.0 | <1.0 | | | <1.0 | 2.3 | 1.4 | <1.0 | 2.5 | <1.0 | 1.8 | 1.3 | | | 2.8 | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.4 | <1.0 | <1.0 |
| Average | <1.0 | 0.6 | 1.8 | <1.0 | <1.0 | 1.10 | 0.7 | <1.0 | 2.6 | 0.7 | 1.0 | 0.3 | <1.0 | <1.0 | 1.6 | 0.3 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 0.4 | <1.0 | <1.0 |

CHROMIUM (ug/L) 1996

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | <5 | 11 | <5 | 7 | <5 | 8 | <5 | 9 | <5 | 14 | <5 | 12 | 7 | <5 | <5 | 9 | <5 | <5 | <5 | 6 | <5 | <5 | <5 |
| 2 | <5 | <5 | 7 | <5 | <5 | <5 | 6 | <5 | 6 | <5 | <5 | <5 | 11 | <5 | <5 | <5 | <5 | 5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 3 | 8 | <5 | 8 | <5 | <5 | <5 | 8 | <5 | <5 | <5 | 7 | <5 | 13 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | 7 | <5 | <5 | <5 |
| 4 | | | <5 | <5 | <5 | <5 | 11 | <5 | 9 | <5 | | | 11 | 7 | <5 | <5 | 8 | <5 | 10 | <5 | | | <5 | <5 |
| Average | <5 | <5 | 6 | <5 | <5 | <5 | 8 | <5 | 6 | <5 | 7 | <5 | 12 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |

CHROMIUM (ug/L) 1997

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | <5 | 10 | <5 | 10 | <5 | <5 | <5 | 7 | <5 | 7 | <5 | 12 | <5 | <5 | <5 | <5 | <5 | 10 | <5 | 21 | 6 | 11 | <5 |
| 2 | 8 | 6 | 16 | <5 | 13 | <5 | <5 | <5 | <5 | <5 | 12 | <5 | 8 | <5 | <5 | <5 | 5 | <5 | 9 | <5 | 7 | <5 | 10 | <5 |
| 3 | 9 | <5 | 12 | <5 | 7 | <5 | <5 | <5 | 7 | <5 | 12 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | 11 | <5 | 7 | <5 | 12 | <5 |
| 4 | 8 | <5 | 10 | <5 | <5 | <5 | | | <5 | <5 | 10 | <5 | 10 | <5 | <5 | <5 | | | 26 | <5 | 18 | <5 | 5 | <5 |
| Average | 6 | 2 | 12 | <5 | 8 | <5 | <5 | <5 | 6 | <5 | 10 | <5 | 7 | <5 | <5 | <5 | 2 | <5 | 14 | <5 | 13 | 2 | 10 | <5 |

CHROMIUM (ug/L) 1998

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | <5 | 7 | <5 | 7 | <5 | <5 | <5 | 58 | <5 | <5 | <5 | 13 | <5 | <5 | <5 | 16 | <5 | 7 | <5 | 12 | <5 | 13 | <5 |
| 2 | 14 | <5 | 10 | <5 | <5 | 9 | <5 | <5 | 6 | <5 | <5 | <5 | 13 | <5 | 8 | <5 | 12 | <5 | <5 | <5 | 11 | <5 | 10 | <5 |
| 3 | 11 | <5 | 9 | 9 | 10 | 8 | <5 | <5 | <5 | <5 | <5 | <5 | 14 | <5 | 14 | <5 | 12 | <5 | 9 | <5 | 15 | <5 | 14 | <5 |
| 4 | 15 | <5 | | | 11 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | | | 12 | <5 | 14 | 5 | 12 | <5 | 9 | <5 | 8 | <5 |
| Average | 12 | <5 | 9 | 3 | 7 | 4 | <5 | <5 | 16 | <5 | <5 | <5 | 13 | <5 | 9 | <5 | 14 | 1 | 7 | <5 | 11 | <5 | 11 | <5 |

CHROMIUM (ug/L) 1999

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | 65 | <5 | 8 | <5 | 18 | <5 | <5 | <5 | <5 | <5 | 8 | <5 | 7 | <5 | 10 | 6 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 2 | 13 | <5 | 17 | <5 | 9 | 6 | <5 | <5 | <5 | <5 | 12 | <5 | <5 | <5 | 14 | <5 | 8 | 8 | <5 | <5 | <5 | <5 | 7 | <5 |
| 3 | 10 | <5 | 12 | <5 | 13 | <5 | <5 | <5 | 8 | <5 | 11 | <5 | 5 | <5 | 9 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | 7 | <5 |
| 4 | | | 9 | <5 | 10 | <5 | <5 | <5 | | | 6 | <5 | <5 | <5 | 14 | 7 | <5 | <5 | <5 | <5 | | | 7 | <5 |
| Average | 29 | <5 | 11 | <5 | 13 | 2 | <5 | <5 | 3 | <5 | 9 | <5 | 3 | <5 | 12 | 3 | 2 | 2 | <5 | <5 | <5 | <5 | 5 | <5 |

CHROMIUM (ug/L) 2000

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | <5 | <5 | <5 | <5 | <5 | 14 | <5 | 11 | <5 | 12 | <5 | <5 | <5 | 6 | <5 | 8 | <5 | 7 | <5 | 6 | <5 | 15 | <5 |
| 2 | 8 | <5 | <5 | <5 | <5 | <5 | 7 | <5 | 9 | <5 | 7 | <5 | <5 | <5 | <5 | <5 | 11 | <5 | 13 | <5 | 9 | <5 | 16 | <5 |
| 3 | 10 | <5 | 8 | <5 | <5 | <5 | 7 | <5 | 9 | <5 | 8 | <5 | <5 | 30 | 9 | <5 | 11 | <5 | 7 | <5 | <5 | <5 | 16 | 9 |
| 4 | <5 | <5 | <5 | <5 | <5 | <5 | | | 13 | <5 | 10 | <5 | <5 | <5 | 7 | <5 | | | <5 | <5 | <5 | <5 | 17 | 7 |
| Average | 6 | <5 | 2 | <5 | <5 | <5 | 9 | <5 | 10 | <5 | 9 | <5 | <5 | 7 | 6 | <5 | 10 | <5 | 7 | <5 | <5 | <5 | 16 | 4 |

CHROMIUM (ug/L) 2001

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | 32 | 16 | 12 | <5 | <5 | <5 | <5 | 11 | <5 | 8 | <5 | <5 | <5 | 5 | <5 | 14 | <5 | 8 | <5 | 15 | <5 | <5 | <5 |
| 2 | 9 | 9 | <5 | <5 | 9 | <5 | <5 | <5 | <5 | <5 | 11 | <5 | 12 | <5 | 6 | <5 | 7 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 3 | <5 | 8 | <5 | <5 | 7 | <5 | <5 | <5 | 11 | <5 | 9 | <5 | 11 | <5 | <5 | <5 | <5 | <5 | 6 | <5 | <5 | <5 | <5 | <5 |
| 4 | 16 | 21 | | | 11 | 6 | <5 | <5 | 6 | <5 | <5 | 6 | | | <5 | <5 | 6 | <5 | 8 | <5 | <5 | <5 | <5 | <5 |
| Average | 11 | 18 | 5 | 4 | 7 | 2 | <5 | <5 | 7 | <5 | 7 | 1 | 8 | <5 | 3 | <5 | 7 | <5 | <5 | <5 | 4 | <5 | <5 | <5 |

COPPER (ug/L) 1996

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | 73 | 28 | 107 | 70 | 80 | 27 | 82 | 59 | 88 | 29 | 81 | 59 | 100 | 69 | 78 | 31 | 92 | 89 | 67 | 79 | 88 | 71 | 35 | 70 |
| 2 | 134 | 80 | 123 | 26 | 90 | 24 | 81 | 53 | 106 | 30 | 76 | 55 | 98 | 27 | 55 | 31 | 75 | 51 | 83 | 91 | 74 | 21 | 123 | 42 |
| 3 | 91 | 26 | 99 | NA | 110 | 29 | 60 | 37 | 111 | 40 | 100 | 44 | 105 | 24 | 52 | 23 | 78 | 53 | 94 | 80 | 86 | 26 | 59 | 32 |
| 4 | | | 91 | 40 | 120 | 23 | 102 | 29 | 93 | 42 | | | 100 | 24 | 87 | 66 | 117 | 58 | 99 | 22 | | | 38 | 17 |
| Average | 99 | 45 | 105 | 34 | 100 | 26 | 81 | 45 | 100 | 35 | 86 | 53 | 101 | 36 | 68 | 38 | 91 | 63 | 86 | 68 | 83 | 39 | 64 | 40 |

COPPER (ug/L) 1997

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | 60 | 95 | 49 | 69 | 27 | 121 | 69 | 166 | 108 | 169 | 115 | 139 | 72 | 166 | 123 | 100 | 145 | 89 | 37 | 87 | 54 | 165 | 306 |
| 2 | 73 | 33 | 117 | 67 | 77 | 26 | 128 | 79 | 207 | 68 | 127 | 64 | 115 | 83 | 123 | 99 | 92 | 39 | 76 | 60 | 117 | 53 | 118 | 103 |
| 3 | 67 | 26 | 102 | 48 | 69 | 39 | 113 | 45 | 151 | 21 | 135 | 80 | 116 | 52 | 65 | 54 | 93 | 64 | 87 | 87 | 61 | 43 | 135 | 95 |
| 4 | 79 | 48 | 112 | 46 | 131 | 28 | | | 108 | 45 | 166 | 234 | 104 | 63 | 64 | 151 | | | 94 | 29 | 130 | 59 | 124 | 100 |
| Average | 55 | 42 | 107 | 53 | 87 | 30 | 121 | 64 | 158 | 61 | 149 | 123 | 119 | 68 | 105 | 107 | 95 | 83 | 87 | 53 | 99 | 52 | 136 | 151 |

COPPER (ug/L) 1998

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | 97 | 198 | 99 | 31 | 75 | 48 | 74 | 56 | 192 | 51 | 88 | 46 | 122 | 62 | 96 | 82 | 132 | 48 | 81 | 58 | 121 | 49 | 107 | 68 |
| 2 | 117 | 66 | 129 | 36 | 165 | 40 | 111 | 38 | 85 | 18 | 76 | 40 | 123 | 57 | 93 | 69 | 108 | 58 | 87 | 45 | 114 | 41 | 116 | 44 |
| 3 | 159 | 59 | 126 | 63 | 98 | 49 | 101 | 96 | 131 | 27 | 100 | 30 | 94 | 35 | 137 | 48 | 150 | 55 | 111 | 29 | 95 | 30 | 127 | 74 |
| 4 | 114 | 28 | | | 103 | 49 | 89 | 70 | 92 | 43 | 142 | 222 | | | 113 | 32 | 129 | 29 | 104 | 16 | 83 | 29 | 113 | 21 |
| Average | 122 | 88 | 118 | 43 | 110 | 47 | 94 | 65 | 125 | 35 | 102 | 85 | 113 | 51 | 110 | 58 | 130 | 48 | 96 | 37 | 103 | 37 | 116 | 52 |

COPPER (ug/L) 1999

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

COPPER (ug/L) 2000

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

COPPER (ug/L) 2001

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

LEAD (ug/L) 1996

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 |
| 2 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | 38 | <18 | <18 |
| 3 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | 24 | <18 | <18 |
| 4 | | | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | | | <18 | <18 | <18 | <18 | 176 | 34 | <18 | <18 | | | <18 | <18 |
| Average | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | 44 | <18 | <18 | <18 | <18 | 21 | <18 | <18 |

LEAD (ug/L) 1997

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 |
| 2 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 |
| 3 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | 26 | <18 |
| 4 | <18 | <18 | <18 | <18 | <18 | <18 | | | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | | | <18 | <18 | <18 | <18 | <18 | <18 |
| Average | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | 7 | <18 |

LEAD (ug/L) 1998

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | <18 | <18 | <18 | <18 | <18 | <18 | 25 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 |
| 2 | <18 | <18 | <18 | <18 | 29 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 |
| 3 | <18 | <18 | <18 | <18 | 19 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | 46 | <18 | <18 | <18 | <18 |
| 4 | <18 | <18 | | | 41 | <18 | 28 | <18 | <18 | <18 | <18 | <18 | | | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 |
| Average | <18 | <18 | <18 | <18 | 22 | <18 | 7 | 6 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | 12 | <18 | <18 | <18 | <18 |

LEAD (ug/L) 1999

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 |
| 2 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 |
| 3 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 |
| 4 | | | <18 | <18 | <18 | <18 | <18 | <18 | | | <18 | <18 | 26 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | | | <18 | <18 |
| Average | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | 6 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 |

LEAD (ug/L) 2000

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 |
| 2 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 |
| 3 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 |
| 4 | <18 | <18 | <18 | <18 | <18 | <18 | | | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | | | <18 | <18 | <18 | <18 | <18 | <18 |
| Average | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 |

LEAD (ug/L) 2001

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 |
| 2 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 |
| 3 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 |
| 4 | <18 | <18 | | | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | | | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 |
| Average | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 | <18 |

NICKEL (ug/L) 1996

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff |
| 1 | <14 | <14 | 17 | 20 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 |
| 2 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | 16 | 15 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 |
| 3 | <14 | <14 | 32 | 23 | <14 | <14 | <14 | <14 | 18 | 17 | <14 | <14 | 17 | <14 | <14 | <14 | <14 | <14 | 30 | <14 | <14 | <14 | <14 | 17 |
| 4 | | | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | | | 16 | <14 | <14 | <14 | <14 | <14 | 19 | <14 | | | <14 | <14 |
| Average | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 |

NICKEL (ug/L) 1997

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff |
| 1 | <14 | <14 | 18 | <14 | 25 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | 22 | 20 | <14 | <14 | <14 | 16 | 17 | <14 | <14 | <14 |
| 2 | <14 | <14 | 20 | 19 | 18 | <14 | <14 | <14 | <14 | <14 | 24 | <14 | <14 | <14 | 23 | 22 | 28 | <14 | <14 | 18 | <14 | <14 | 18 | <14 |
| 3 | <14 | <14 | 20 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | 24 | <14 | <14 | <14 | <14 | <14 | 20 | <14 | <14 | <14 | <14 | <14 | <14 | <14 |
| 4 | <14 | <14 | <14 | <14 | <14 | 17 | | | <14 | <14 | 17 | <14 | <14 | <14 | <14 | <14 | | | 32 | <14 | <14 | 17 | <14 | <14 |
| Average | <14 | <14 | 15 | 5 | 11 | 4 | <14 | <14 | <14 | <14 | 16 | <14 | <14 | <14 | 11 | 11 | <14 | <14 | 8 | 9 | 4 | 4 | 5 | <14 |

NICKEL (ug/L) 1998

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff |
| 1 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | 29 | 20 | <14 | <14 | 29 | <14 | <14 | <14 |
| 2 | 19 | <14 | <14 | <14 | 21 | <14 | 31 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | 26 | <14 | <14 | <14 | <14 | <14 | <14 | <14 |
| 3 | 20 | <14 | <14 | <14 | 17 | <14 | <14 | <14 | 18 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | <14 | 22 | <14 | 31 | <14 | <14 | <14 |
| 4 | <14 | <14 | | | <14 | <14 | 16 | <14 | 14 | <14 | <14 | <14 | | | 20 | <14 | <14 | 17 | <14 | <14 | 25 | <14 | <14 | <14 |
| Average | 10 | <14 | <14 | <14 | 10 | <14 | 12 | <14 | 8 | <14 | <14 | <14 | <14 | <14 | 5 | <14 | 14 | 9 | 6 | <14 | 21 | <14 | <14 | <14 |

NICKEL (ug/L) 1999

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

NICKEL (ug/L) 2000

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

NICKEL (ug/L) 2001

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

MERCURY (ug/L) 1996

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | <0.27 | <0.27 | 0.46 | <0.27 | <0.27 | <0.27 | 0.48 | <0.27 | 0.37 | <0.27 | <0.27 | <0.27 | 0.39 | <0.27 | 0.29 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | 0.32 | <0.27 | <0.27 | <0.27 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | <0.27 | <0.27 | 0.49 | <0.27 | 0.37 | <0.27 | <0.27 | <0.27 | 0.39 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 |
| 3 | <0.27 | <0.27 | 0.87 | <0.27 | 0.40 | <0.27 | <0.27 | <0.27 | 0.32 | <0.27 | <0.27 | <0.27 | 0.59 | <0.27 | <0.27 | <0.27 | NA | NA | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 |
| 4 | | | <0.27 | <0.27 | 0.65 | <0.27 | 0.47 | <0.27 | <0.27 | <0.27 | | | <0.27 | <0.27 | 0.36 | <0.27 | 0.38 | <0.27 | 0.47 | <0.27 | | | <0.27 | <0.27 |
| Average | <0.27 | <0.27 | 0.32 | <0.27 | 0.36 | <0.27 | <0.27 | <0.27 | 0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0027 | <0.27 |

MERCURY (ug/L) 1997

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | <0.27 | <0.27 | 0.50 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | 0.40 | <0.27 | 0.27 | <0.27 | <0.27 | <0.27 | 0.32 | <0.27 | <0.27 | <0.27 | 0.33 | <0.27 | 0.32 | <0.27 | 0.48 | <0.27 |
| 2 | <0.27 | <0.27 | 0.36 | <0.27 | <0.27 | <0.27 | 0.52 | 0.32 | 0.37 | <0.27 | NA | NA | 0.57 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | 0.46 | <0.27 |
| 3 | 0.53 | 0.38 | 0.48 | 0.38 | <0.27 | <0.27 | 0.53 | 0.40 | 0.38 | <0.27 | 0.44 | <0.27 | 0.55 | <0.27 | <0.27 | <0.27 | 0.39 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 |
| 4 | 0.32 | <0.27 | 0.38 | <0.27 | <0.27 | <0.27 | | | 0.41 | <0.27 | <0.27 | <0.27 | 0.58 | <0.27 | 0.36 | <0.27 | | | 0.47 | <0.27 | 0.70 | <0.27 | <0.27 | <0.27 |
| Average | 0.21 | <0.27 | 0.43 | 0.10 | <0.27 | <0.27 | 0.35 | 0.24 | 0.39 | <0.27 | 0.24 | <0.27 | 0.43 | <0.27 | 0.08 | <0.27 | 0.13 | <0.27 | 0.08 | <0.27 | 0.18 | <0.27 | 0.24 | <0.27 |

MERCURY (ug/L) 1998

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | <0.27 | <0.27 | <0.27 | <0.27 | 0.42 | 0.38 | 0.66 | 0.43 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | 0.64 | <0.27 | 0.77 | 0.51 |
| 2 | <0.27 | <0.27 | 0.37 | <0.27 | 0.30 | <0.27 | 0.48 | <0.27 | 0.51 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | 0.37 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 |
| 3 | 0.89 | <0.27 | <0.27 | <0.27 | 0.48 | <0.27 | <0.27 | <0.27 | 0.57 | <0.27 | <0.27 | <0.27 | 0.30 | <0.27 | 0.37 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 |
| 4 | 0.39 | <0.27 | | | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | 0.99 | <0.27 | | | 0.33 | <0.27 | <0.27 | <0.27 | 0.32 | 0.45 | <0.27 | <0.27 | <0.27 | <0.27 |
| Average | 0.32 | <0.27 | 0.12 | <0.27 | 0.30 | 0.10 | 0.29 | 0.11 | 0.27 | <0.27 | 0.25 | <0.27 | 0.10 | <0.27 | 0.18 | <0.27 | 0.09 | <0.27 | 0.08 | 0.11 | 0.16 | <0.27 | 0.19 | 0.13 |

MERCURY (ug/L) 1999

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | 0.34 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 |
| 2 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | 0.54 | 0.44 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | 0.41 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 |
| 3 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | 0.48 | <0.27 | <0.27 | <0.27 | 0.55 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | 0.45 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 |
| 4 | | | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | | | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | 0.42 | <0.27 | | | <0.27 | <0.27 |
| Average | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | 0.26 | 0.11 | <0.27 | <0.27 | 0.14 | <0.27 | <0.27 | <0.27 | 0.19 | <0.27 | 0.11 | <0.27 | 0.11 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 |

MERCURY (ug/L) 2000

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | <0.27 | <0.27 | 0.54 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | 0.86 | <0.27 | <0.27 | <0.27 | 0.33 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | 0.71 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 |
| 2 | <0.27 | <0.27 | <0.27 | <0.27 | 0.46 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | 0.27 | <0.27 | <0.27 | <0.27 | <0.27 |
| 3 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | 0.35 | <0.27 | 0.38 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | 1.08 | <0.27 | 0.37 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 |
| 4 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | | | 0.46 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | | | <0.27 | <0.27 | <0.27 | <0.27 | 0.40 | <0.27 |
| Average | <0.27 | <0.27 | 0.14 | <0.27 | 0.12 | <0.27 | 0.12 | <0.27 | 0.43 | <0.27 | <0.27 | <0.27 | 0.08 | <0.27 | <0.27 | <0.27 | 0.36 | <0.27 | 0.27 | 0.07 | <0.27 | <0.27 | 0.10 | <0.27 |

MERCURY (ug/L) 2001

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | 0.36 | <0.27 | <0.27 | <0.27 | 0.46 | <0.27 | 0.28 | <0.27 | 0.39 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 |
| 2 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | 0.42 | <0.27 | 0.30 | <0.27 | <0.27 | <0.27 | 0.34 | <0.27 | 0.39 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 |
| 3 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | 0.59 | <0.27 | 0.34 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | 0.32 | <0.27 | <0.27 | <0.27 |
| 4 | <0.27 | <0.27 | | | <0.27 | <0.27 | <0.27 | <0.27 | 0.41 | <0.27 | 0.29 | <0.27 | | | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | 0.47 | <0.27 | <0.27 | <0.27 |
| Average | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | <0.27 | 0.36 | <0.27 | 0.32 | <0.27 | <0.27 | <0.27 | 0.20 | <0.27 | 0.17 | <0.27 | 0.10 | <0.27 | 0.20 | <0.27 | <0.27 | <0.27 |

SILVER (ug/L) 1996

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff |
| 1 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | 9 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 |
| 2 | <6.6 | <6.6 | 10 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 |
| 3 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | 7 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 |
| 4 | | | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | | | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | | | <6.6 | <6.6 |
| Average | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 |

SILVER (ug/L) 1997

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff |
| 1 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | 7.9 | <6.6 | <6.6 | <6.6 | 13.2 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | 8.1 | <6.6 |
| 2 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | 8.3 | <6.6 | <6.6 | <6.6 | 9.5 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | 10.1 | <6.6 |
| 3 | <6.6 | 7.0 | <6.6 | <6.6 | <6.6 | <6.6 | 17.5 | <6.6 | <6.6 | <6.6 | 8.6 | <6.6 | 8.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 |
| 4 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | | | <6.6 | <6.6 | 10.0 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | | | <6.6 | <6.6 | 7.4 | <6.6 | <6.6 | <6.6 |
| Average | <6.6 | 1.8 | <6.6 | <6.6 | <6.6 | <6.6 | 8.6 | <6.6 | <6.6 | <6.6 | 9.0 | <6.6 | 2.2 | <6.6 | 3.3 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | 1.9 | <6.6 | 4.6 | <6.6 |

SILVER (ug/L) 1998

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff |
| 1 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | 27.2 | 10.8 | <6.6 | <6.6 | <6.6 |
| 2 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 |
| 3 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | 6.7 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | 13.1 | 8.8 | <6.6 | 9.0 | <6.6 |
| 4 | <6.6 | <6.6 | | | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | 9.4 | <6.6 | | | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | 11.1 | <6.6 | <6.6 |
| Average | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | 1.7 | <6.6 | 2.4 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | 10.1 | 4.9 | 2.8 | 2.3 | <6.6 |

SILVER (ug/L) 1999

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff |
| 1 | <6.6 | <6.6 | <6.6 | <6.6 | 9.9 | <6.6 | <6.6 | <6.6 | 8.3 | <6.6 | <6.6 | 7.9 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | 27.2 | <6.6 | <6.6 | <6.6 | <6.6 |
| 2 | <6.6 | <6.6 | <6.6 | <6.6 | 16.0 | 7.6 | <6.6 | <6.6 | 6.6 | <6.6 | <6.6 | 8.8 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | 9.0 | <6.6 | <6.6 | <6.6 |
| 3 | <6.6 | <6.6 | <6.6 | <6.6 | 11.9 | <6.6 | <6.6 | <6.6 | 14.2 | <6.6 | <6.6 | 11.2 | <6.6 | <6.6 | 10.9 | <6.6 | <6.6 | <6.6 | <6.6 | 13.1 | <6.6 | <6.6 | <6.6 | <6.6 |
| 4 | | | <6.6 | <6.6 | <6.6 | 14.2 | <6.6 | <6.6 | | | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | 6.7 | <6.6 | <6.6 | <6.6 | <6.6 | | | <6.6 | <6.6 |
| Average | <6.6 | <6.6 | <6.6 | <6.6 | 9.5 | 5.5 | <6.6 | <6.6 | 9.7 | <6.6 | <6.6 | 7.0 | <6.6 | <6.6 | 2.7 | 1.7 | <6.6 | <6.6 | <6.6 | 10.1 | 3.0 | <6.6 | <6.6 | <6.6 |

SILVER (ug/L) 2000

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff |
| 1 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | 27.2 | <6.6 | <6.6 | 9.8 | <6.6 |
| 2 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 |
| 3 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | 12.3 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | 13.1 | <6.6 | <6.6 | 6.7 | <6.6 |
| 4 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | | | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | 7.8 | <6.6 | <6.6 | | | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 |
| Average | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | 5.0 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | 10.1 | <6.6 | <6.6 | 4.1 | <6.6 |

SILVER (ug/L) 2001

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff |
| 1 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | 1.0 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | 12.1 | <6.6 | 7.4 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | 7.0 | <6.6 | <6.6 | <6.6 |
| 2 | <6.6 | <6.6 | <6.6 | 9.1 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | 15.7 | <6.6 | 8.1 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | 20.9 | <6.6 | <6.6 | <6.6 |
| 3 | <6.6 | <6.6 | <6.6 | 11.0 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | 11.5 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 |
| 4 | <6.6 | <6.6 | | | 13.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | | | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 |
| Average | <6.6 | <6.6 | <6.6 | 6.7 | 3.4 | 2.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | 9.3 | <6.6 | 6.8 | <6.6 | <6.6 | <6.6 | <6.6 | <6.6 | 7.0 | <6.6 | <6.6 | <6.6 |

ZINC (ug/L) 1996

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | 190 | 118 | 214 | 348 | 155 | 126 | 108 | 26 | 165 | 212 | 158 | 56 | 451 | 181 | 104 | 26 | 103 | 16 | 57 | <4 | 117 | 26 | 81 | 64 |
| 2 | 180 | 68 | 268 | 201 | 188 | 57 | 108 | 24 | 214 | 77 | 177 | 71 | 259 | 167 | 128 | 38 | 197 | 39 | 68 | 80 | 102 | 24 | 113 | 52 |
| 3 | 182 | 99 | 310 | 148 | 400 | 52 | 314 | 14 | 165 | 74 | 179 | 79 | 301 | 179 | 61 | 26 | 202 | <4 | 92 | 14 | 128 | 24 | 99 | 51 |
| 4 | | | 249 | 167 | 229 | 47 | 143 | 22 | 167 | 72 | | | 292 | 173 | 117 | 20 | 90 | 133 | 165 | 13 | | | 80 | 61 |
| Average | 184 | 95 | 260 | 216 | 243 | 71 | 168 | 22 | 178 | 109 | 171 | 69 | 326 | 175 | 103 | 28 | 148 | 47 | 96 | 27 | 116 | 25 | 93 | 57 |

ZINC (ug/L) 1997

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | 89 | 38 | 131 | 81 | 238 | 170 | 126 | 21 | 148 | 40 | 186 | 89 | 183 | 171 | 164 | 96 | 115 | 57 | 128 | 40 | 105 | 18 | 148 | 52 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 99 | 34 | 147 | 54 | 185 | 169 | 131 | 13 | 159 | 45 | 226 | 93 | 225 | 187 | 167 | 45 | 143 | 48 | 119 | 26 | 144 | 28 | 159 | 43 |
| 3 | 71 | 36 | 135 | 30 | 258 | 151 | 117 | 17 | 196 | 50 | 218 | 93 | 188 | 70 | 139 | 51 | 663 | 152 | 115 | 27 | 98 | 23 | 169 | 59 |
| 4 | 115 | 34 | 161 | 37 | 323 | 154 | | | 129 | 43 | 194 | 91 | 176 | 70 | 118 | 40 | | | 276 | 21 | 193 | 25 | 120 | 31 |
| Average | 94 | 36 | 144 | 51 | 251 | 161 | 125 | 17 | 158 | 45 | 206 | 92 | 193 | 125 | 147 | 58 | 307 | 86 | 160 | 29 | 135 | 24 | 149 | 46 |

ZINC (ug/L) 1998

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | 116 | 45 | 134 | 29 | 117 | 4 | 124 | 241 | 148 | 15 | 127 | 52 | 128 | 32 | 135 | 40 | 179 | 38 | 126 | 154 | 158 | 33 | 196 | 44 |
| 2 | 174 | 36 | 147 | 43 | 168 | 40 | 132 | 33 | 132 | 27 | 131 | 63 | 127 | 31 | 124 | 35 | 327 | 27 | 157 | 75 | 155 | 33 | 148 | 40 |
| 3 | 129 | 44 | 146 | 60 | 148 | 57 | 130 | 31 | 160 | 20 | 148 | 54 | 132 | 30 | 184 | 29 | 169 | 29 | 186 | 61 | 184 | 108 | 163 | 42 |
| 4 | 185 | 32 | | | 144 | 50 | 132 | 33 | 138 | 104 | 173 | 60 | | | 175 | 30 | 207 | 31 | 180 | 56 | 141 | 46 | 143 | 60 |
| Average | 151 | 39 | 142 | 44 | 144 | 38 | 130 | 85 | 145 | 42 | 145 | 57 | 129 | 31 | 155 | 34 | 221 | 31 | 162 | 87 | 160 | 55 | 163 | 47 |

ZINC (ug/L) 1999

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

ZINC (ug/L) 2000

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

ZINC (ug/L) 2001

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

AMMONIA (mg/L) 1996

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff |
| 1 | 28.0 | 27.3 | 21.6 | 20.7 | 28.8 | 26.0 | 24.8 | 26.2 | 25.5 | 27.6 | 26.2 | 26.5 | 26.3 | 25.7 | 26.0 | 26.9 | 24.5 | 24.3 | 24.0 | 23.9 | 28.1 | 27.7 | 31.8 | 30.6 |
| 2 | 26.0 | 25.5 | 30.4 | 30.3 | 26.0 | 24.3 | 27.0 | 26.5 | 25.9 | 24.2 | 27.9 | 27.5 | 26.3 | 26.0 | 26.7 | 27.1 | 25.4 | 25.2 | 28.0 | 27.7 | 29.6 | 30.3 | 28.5 | 27.6 |
| 3 | 26.4 | 29.2 | 28.6 | 30.2 | 27.3 | 26.5 | 27.8 | 28.2 | 26.9 | 27.2 | 27.3 | 27.1 | 26.7 | 27.5 | 26.5 | 25.5 | 27.0 | 26.1 | 25.5 | 26.2 | 24.4 | 25.9 | 28.9 | 28.5 |
| 4 | | | 25.8 | 24.1 | 28.3 | 27.6 | 28.5 | 30.3 | 26.9 | 27.8 | | | 25.8 | 27.9 | 23.8 | 24.2 | 24.9 | 24.3 | 23.3 | 24.5 | | | 28.9 | 27.6 |
| Average | 26.8 | 27.3 | 26.6 | 26.3 | 27.6 | 26.1 | 27.0 | 27.8 | 26.3 | 26.7 | 27.1 | 27.0 | 26.3 | 26.8 | 25.8 | 25.9 | 25.5 | 25.0 | 25.2 | 25.6 | 27.4 | 28.0 | 29.5 | 28.6 |

AMMONIA (mg/L) 1997

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | 29.3 | 28.2 | 29.9 | 29.7 | 30.5 | 29.1 | | | 28.5 | 28.3 | 28.5 | 27.1 | 27.9 | 27.4 | 26.0 | 24.5 | | | 22.6 | 20.8 | 24.4 | 24.0 | 24.7 | 24.3 |
| 2 | 30.2 | 29.0 | 27.5 | 26.6 | 30.3 | 30.2 | 31.5 | 30.3 | 30.0 | 31.1 | 27.1 | 26.0 | 26.6 | 29.2 | 30.9 | 27.0 | 23.5 | 20.9 | 23.3 | 22.8 | 24.4 | 24.7 | 25.3 | 25.3 |
| 3 | 28.0 | 27.6 | 27.8 | 26.3 | 28.8 | 29.4 | 30.5 | 29.7 | 26.7 | 27.1 | 31.5 | 30.3 | 23.6 | 22.9 | 23.5 | 24.8 | 22.8 | 22.9 | 24.5 | 22.0 | 24.8 | 23.8 | 24.7 | 26.2 |
| 4 | 18.3 | 19.1 | 30.4 | 29.4 | 31.1 | 29.6 | 30.5 | 30.0 | 27.5 | 27.6 | 27.2 | 26.9 | 30.6 | 30.4 | 24.4 | 24.6 | 22.4 | 22.2 | 26.0 | 26.8 | 25.1 | 25.0 | 25.3 | 24.7 |
| Average | 26.5 | 26.0 | 28.9 | 28.0 | 30.2 | 29.6 | 30.8 | 30.0 | 28.2 | 28.5 | 28.6 | 27.6 | 27.2 | 27.5 | 26.2 | 25.2 | 22.9 | 22.0 | 24.1 | 23.1 | 24.7 | 24.4 | 25.0 | 25.1 |

AMMONIA (mg/L) 1998

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff |
| 1 | 25.4 | 25.6 | 20.5 | 20.8 | 24.3 | 25.9 | NA | NA | 28.2 | 27.0 | 28.3 | 28.1 | 25.9 | 25.4 | 26.9 | 25.3 | 21.3 | 22.6 | 18.7 | 19.1 | 28.1 | 29.2 | 27.3 | 27.4 |
| 2 | 23.5 | 22.7 | 19.7 | 21.5 | 25.4 | 24.6 | 24.1 | 24.1 | 26.0 | 25.4 | 27.5 | 27.2 | 27.5 | 27.9 | 22.9 | 20.2 | 22.6 | 21.3 | 23.0 | 21.1 | 23.3 | 24.4 | 27.4 | 25.7 |
| 3 | 22.5 | 22.1 | 17.5 | 17.5 | 23.1 | 26.2 | 26.7 | 27.1 | 27.6 | 27.5 | 28.0 | 28.3 | 26.2 | 26.1 | 27.2 | 27.1 | 24.0 | 23.8 | 26.7 | 26.6 | 26.6 | 24.5 | 25.9 | 25.8 |
| 4 | 25.6 | 25.2 | | | 23.9 | 24.8 | 27.9 | 28.1 | 26.8 | 26.8 | 23.7 | 22.4 | | | 26.9 | 26.1 | 20.6 | 22.4 | 24.3 | 24.6 | 25.8 | 25.6 | 28.1 | 25.0 |
| Average | 24.3 | 23.9 | 19.2 | 19.9 | 24.2 | 25.4 | 19.7 | 19.8 | 27.2 | 26.7 | 26.9 | 26.5 | 26.5 | 26.5 | 26.0 | 24.7 | 22.1 | 22.5 | 23.2 | 22.9 | 26.0 | 25.9 | 27.2 | 26.0 |

AMMONIA (mg/L) 1999

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff |
| 1 | 25.4 | 24.1 | 25.0 | 24.4 | 27.5 | 25.1 | 24.5 | 23.8 | 26.3 | 25.0 | 30.5 | 28.7 | 31.5 | 30.7 | 26.7 | 23.1 | 15.1 | 34.0 | 27.1 | 27.7 | 28.5 | 27.8 | 31.4 | 31.0 |
| 2 | 32.2 | 27.2 | 27.3 | 26.7 | 24.1 | 25.5 | 28.3 | 28.0 | 26.5 | 26.3 | 27.3 | 25.4 | 26.4 | 26.1 | 27.9 | 27.1 | 26.2 | 24.9 | 28.2 | 27.7 | 30.4 | 30.4 | 28.4 | 28.5 |
| 3 | 27.7 | 28.4 | 24.4 | 20.3 | 28.6 | 28.7 | 27.8 | 27.9 | 30.1 | 27.8 | 30.7 | 27.8 | 26.2 | 27.6 | 29.7 | 27.9 | 27.8 | 28.9 | 26.1 | 26.6 | 29.3 | 29.1 | 26.4 | 26.4 |
| 4 | | | 30.9 | 28.4 | 26.5 | 25.9 | 28.7 | 27.3 | | | 28.8 | 26.3 | 28.8 | 26.3 | 25.8 | 25.3 | 27.8 | 20.5 | 25.3 | 24.5 | | | 29.4 | 26.7 |
| Average | 28.4 | 26.6 | 26.9 | 24.9 | 26.7 | 26.3 | 27.3 | 26.8 | 27.6 | 26.4 | 29.3 | 27.1 | 28.2 | 27.7 | 27.5 | 25.9 | 24.2 | 27.1 | 26.7 | 26.6 | 29.4 | 29.1 | 28.9 | 28.2 |

AMMONIA (mg/L) 2000

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | 27.0 | 27.2 | 28.4 | 28.2 | 26.3 | 25.9 | 27.5 | 28.6 | 26.9 | 27.2 | 28.2 | 28.6 | 28.0 | 27.9 | 28.9 | 28.3 | 27.5 | 28.1 | 26.9 | 26.3 | 27.3 | 26.3 | 28.3 | 28.8 |
| 2 | 28.1 | 26.9 | 29.3 | 29.1 | 28.0 | 27.6 | 27.7 | 28.6 | 29.0 | 29.4 | 29.7 | 28.0 | 29.0 | 27.4 | 27.0 | 26.5 | 27.0 | 28.1 | 26.7 | 27.4 | 26.0 | 26.9 | 29.1 | 29.4 |
| 3 | 26.1 | 25.6 | 27.2 | 25.8 | 26.9 | 29.4 | 28.0 | 27.9 | 30.1 | 29.1 | 28.4 | 28.1 | 28.5 | 28.8 | 25.9 | 25.0 | 27.0 | 26.3 | 27.2 | 27.0 | 25.4 | 27.0 | 28.7 | 28.8 |
| 4 | 28.1 | 28.0 | 27.7 | 27.4 | 28.9 | 30.4 | | | 28.2 | 27.7 | 29.6 | 26.3 | 28.5 | 26.6 | 27.5 | 27.9 | | | 29.1 | 28.0 | 28.0 | 26.9 | 29.9 | 29.7 |
| Average | 27.3 | 26.9 | 28.2 | 27.6 | 27.5 | 28.3 | 27.3 | 28.4 | 28.6 | 28.4 | 29.0 | 27.8 | 28.5 | 27.7 | 27.3 | 26.9 | 24.2 | 27.5 | 27.5 | 27.2 | 26.7 | 26.8 | 29.0 | 29.2 |

AMMONIA (mg/L) 2001

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff |
| 1 | 30.2 | 28.8 | 29.9 | 32.5 | 26.6 | 26.0 | 30.3 | 28.7 | 29.1 | 29.1 | 28.8 | 28.0 | 29.4 | 25.2 | 30.5 | 29.7 | 28.2 | 27.9 | 29.8 | 29.1 | 28.1 | 26.9 | 28.3 | 27.7 |
| 2 | 24.4 | 23.0 | 24.2 | 24.4 | 23.5 | 24.4 | 27.6 | 27.9 | 29.9 | 29.4 | 29.8 | 29.4 | 30.0 | 29.7 | 28.6 | 29.1 | 28.4 | 27.6 | 28.6 | 28.6 | 28.4 | 27.4 | 26.3 | 26.9 |
| 3 | 27.7 | 27.2 | 27.0 | 26.7 | 26.9 | 26.6 | 30.1 | 30.0 | 29.2 | 29.7 | 29.1 | 28.6 | 29.4 | 28.3 | 28.4 | 28.1 | 30.0 | 29.4 | 27.7 | 27.6 | 28.9 | 31.2 | 29.7 | 28.3 |
| 4 | 28.5 | 26.9 | | | 27.2 | 27.2 | 31.4 | 31.5 | 27.5 | 27.4 | 28.3 | 28.0 | | | 27.9 | 25.8 | 28.8 | 28.3 | 29.3 | 28.1 | 30.5 | 29.7 | 27.6 | 26.9 |
| Average | 27.7 | 26.5 | 27.0 | 27.9 | 26.1 | 26.1 | 29.9 | 29.5 | 28.9 | 28.9 | 29.0 | 28.5 | 29.6 | 27.7 | 28.9 | 28.2 | 28.9 | 28.3 | 28.9 | 28.4 | 29.0 | 28.8 | 28.0 | 27.4 |

CYANIDE (mg/L) 1996

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | 0.005 | 0.003 | 0.003 | 0.004 | 0.002 | 0.002 | 0.003 | 0.002 | 0.003 | 0.003 | 0.002 | 0.008 | <0.002 | 0.007 | 0.002 | 0.002 | 0.003 | 0.003 | <0.002 | 0.012 | 0.002 | 0.003 | 0.002 | 0.012 |
| 2 | 0.002 | 0.002 | 0.003 | 0.003 | 0.007 | 0.007 | 0.002 | 0.003 | 0.002 | 0.003 | 0.002 | 0.006 | 0.003 | 0.005 | <0.002 | 0.003 | 0.003 | 0.003 | <0.002 | <0.002 | 0.003 | 0.013 | 0.002 | 0.003 |
| 3 | 0.003 | 0.004 | 0.003 | 0.002 | <0.002 | 0.003 | <0.002 | 0.002 | 0.003 | 0.003 | 0.002 | 0.009 | 0.005 | 0.002 | 0.002 | 0.003 | 0.002 | 0.004 | 0.003 | <0.002 | 0.002 | 0.019 | 0.003 | 0.016 |
| 4 | | | 0.002 | 0.002 | 0.004 | 0.005 | 0.005 | 0.004 | 0.003 | 0.011 | | | 0.002 | 0.003 | 0.003 | 0.003 | <0.002 | 0.006 | 0.003 | 0.002 | | | <0.002 | 0.002 |
| Average | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.004 | 0.003 | 0.003 | 0.003 | 0.005 | 0.002 | 0.008 | 0.003 | 0.004 | 0.002 | 0.003 | 0.002 | 0.004 | 0.002 | 0.004 | 0.002 | 0.012 | 0.002 | 0.008 |

CYANIDE (mg/L) 1997

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | 0.002 | 0.002 | 0.003 | 0.006 | 0.003 | 0.005 | 0.002 | <0.002 | 0.004 | 0.090 | 0.004 | 0.005 | 0.002 | 0.006 | 0.003 | 0.002 | 0.006 | 0.015 | 0.003 | 0.008 | 0.003 | 0.007 | 0.008 | 0.005 |
| 2 | <0.002 | 0.003 | 0.003 | 0.003 | 0.002 | 0.003 | 0.003 | 0.003 | <0.002 | 0.003 | 0.005 | 0.015 | 0.003 | 0.034 | 0.003 | 0.003 | 0.003 | 0.002 | 0.004 | 0.018 | 0.002 | 0.007 | 0.008 | 0.007 |
| 3 | 0.002 | 0.007 | 0.003 | 0.005 | 0.003 | 0.003 | 0.004 | 0.003 | 0.004 | 0.003 | 0.004 | 0.007 | 0.002 | 0.006 | 0.003 | 0.005 | 0.004 | 0.004 | 0.005 | 0.013 | 0.006 | 0.007 | 0.004 | 0.005 |
| 4 | 0.002 | 0.003 | 0.003 | 0.005 | 0.004 | 0.005 | | | 0.003 | 0.005 | 0.003 | 0.006 | 0.004 | 0.008 | 0.004 | 0.008 | | | 0.005 | 0.008 | 0.007 | 0.007 | 0.005 | 0.005 |
| Average | 0.002 | 0.004 | 0.003 | 0.005 | 0.003 | 0.004 | 0.003 | 0.002 | 0.003 | 0.025 | 0.004 | 0.008 | 0.003 | 0.013 | 0.003 | 0.004 | 0.004 | 0.007 | 0.004 | 0.012 | 0.005 | 0.007 | 0.006 | 0.005 |

CYANIDE (mg/L) 1998

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | 0.003 | 0.004 | 0.002 | <0.002 | 0.003 | 0.004 | 0.008 | 0.009 | 0.004 | 0.004 | 0.004 | 0.012 | 0.003 | 0.007 | 0.007 | 0.008 | 0.003 | 0.003 | 0.004 | 0.010 | 0.004 | 0.004 | 0.004 | 0.004 |
| 2 | 0.003 | 0.005 | 0.003 | 0.003 | 0.004 | 0.004 | 0.002 | 0.003 | 0.005 | 0.005 | 0.004 | 0.007 | 0.004 | 0.004 | 0.009 | 0.006 | 0.003 | 0.002 | 0.004 | 0.003 | 0.009 | 0.006 | 0.005 | 0.005 |
| 3 | 0.005 | 0.003 | 0.002 | 0.003 | 0.007 | 0.013 | 0.002 | <0.002 | 0.004 | 0.005 | 0.004 | 0.003 | 0.004 | 0.004 | 0.004 | 0.009 | 0.026 | 0.018 | 0.010 | 0.008 | 0.004 | 0.003 | 0.005 | 0.005 |
| 4 | 0.004 | 0.004 | | | 0.008 | 0.009 | 0.003 | 0.002 | 0.005 | 0.008 | 0.006 | 0.004 | | | 0.005 | 0.004 | 0.006 | 0.009 | 0.004 | 0.004 | 0.003 | 0.003 | 0.004 | 0.006 |
| Average | 0.004 | 0.004 | 0.002 | 0.002 | 0.006 | 0.007 | 0.004 | 0.004 | 0.005 | 0.005 | 0.005 | 0.006 | 0.004 | 0.005 | 0.006 | 0.007 | 0.010 | 0.008 | 0.006 | 0.006 | 0.005 | 0.004 | 0.005 | 0.005 |

CYANIDE (mg/L) 1999

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | 0.004 | 0.009 | 0.004 | 0.006 | 0.005 | 0.005 | 0.003 | 0.003 | 0.004 | 0.003 | 0.003 | 0.004 | 0.003 | 0.007 | 0.004 | 0.004 | <0.002 | <0.002 | 0.013 | 0.014 | 0.003 | 0.010 | 0.003 | 0.004 |
| 2 | 0.003 | 0.007 | 0.005 | 0.007 | 0.008 | 0.011 | 0.003 | 0.003 | 0.003 | 0.003 | 0.004 | 0.004 | 0.003 | <0.002 | 0.004 | 0.004 | 0.004 | 0.004 | 0.005 | 0.004 | 0.004 | 0.006 | 0.005 | 0.004 |
| 3 | 0.003 | 0.007 | 0.004 | 0.005 | 0.002 | 0.003 | 0.003 | 0.005 | 0.003 | 0.004 | 0.006 | 0.007 | 0.004 | 0.004 | <0.002 | 0.005 | 0.004 | 0.001 | 0.004 | 0.004 | 0.003 | 0.005 | 0.006 | 0.007 |
| 4 | | | 0.005 | 0.007 | 0.003 | 0.002 | 0.007 | 0.005 | | | 0.019 | 0.017 | 0.005 | 0.003 | <0.002 | <0.002 | 0.008 | 0.006 | 0.003 | 0.003 | | | 0.004 | 0.003 |
| Average | 0.003 | 0.008 | 0.005 | 0.006 | 0.005 | 0.005 | 0.004 | 0.004 | 0.003 | 0.003 | 0.008 | 0.008 | 0.004 | 0.003 | 0.002 | 0.003 | 0.004 | 0.003 | 0.006 | 0.006 | 0.003 | 0.007 | 0.005 | 0.005 |

CYANIDE (mg/L) 2000

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | 0.006 | 0.005 | 0.004 | 0.003 | 0.005 | 0.005 | 0.005 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.005 | 0.006 | 0.004 | 0.004 | 0.004 | 0.003 | 0.013 | 0.014 | 0.004 | 0.003 | 0.002 | 0.003 |
| 2 | 0.004 | 0.004 | 0.007 | 0.006 | 0.004 | 0.003 | 0.004 | 0.003 | 0.005 | 0.004 | 0.004 | 0.004 | 0.002 | 0.003 | 0.003 | 0.003 | 0.005 | 0.003 | 0.005 | 0.004 | 0.004 | 0.004 | 0.003 | 0.003 |
| 3 | 0.003 | 0.003 | 0.003 | 0.013 | 0.005 | 0.004 | 0.004 | 0.003 | 0.003 | 0.005 | 0.003 | 0.006 | 0.003 | 0.003 | 0.004 | 0.003 | 0.003 | 0.003 | 0.004 | 0.004 | 0.004 | 0.003 | 0.007 | 0.006 |
| 4 | 0.004 | 0.003 | 0.004 | 0.003 | 0.005 | 0.005 | | | 0.003 | 0.002 | 0.004 | 0.006 | 0.039 | 0.003 | 0.002 | 0.003 | | | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 |
| Average | 0.004 | 0.004 | 0.005 | 0.006 | 0.005 | 0.004 | 0.004 | 0.003 | 0.004 | 0.004 | 0.004 | 0.005 | 0.012 | 0.004 | 0.003 | 0.003 | 0.004 | 0.003 | 0.006 | 0.006 | 0.004 | 0.003 | 0.004 | 0.005 |

CYANIDE (mg/L) 2001

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | 0.005 | 0.005 | 0.006 | 0.006 | 0.006 | 0.005 | 0.003 | 0.004 | 0.002 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.002 | 0.003 | <0.002 | 0.002 | < 0.002 | 0.003 | 0.003 | 0.004 | 0.003 |
| 2 | 0.004 | 0.004 | 0.004 | 0.003 | 0.003 | 0.004 | 0.004 | 0.004 | 0.002 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.005 | 0.005 | 0.003 | 0.003 | <0.002 | <0.002 | 0.003 | 0.003 | 0.004 | 0.003 |
| 3 | 0.003 | 0.003 | 0.006 | 0.006 | 0.004 | 0.004 | 0.002 | 0.003 | 0.007 | 0.009 | 0.003 | 0.003 | 0.003 | 0.003 | <0.002 | <0.002 | <0.002 | 0.002 | 0.003 | 0.003 | 0.003 | 0.003 | <0.002 | <0.002 |
| 4 | 0.003 | 0.003 | | | 0.004 | 0.003 | 0.002 | 0.003 | 0.002 | 0.003 | 0.004 | 0.003 | | | <0.002 | <0.002 | <0.002 | 0.002 | <0.002 | <0.002 | 0.003 | 0.003 | <0.002 | <0.002 |
| Average | 0.004 | 0.004 | 0.005 | 0.005 | 0.004 | 0.004 | 0.003 | 0.004 | 0.003 | 0.005 | 0.003 | 0.003 | 0.003 | 0.003 | 0.002 | 0.003 | 0.003 | 0.002 | 0.001 | 0.003 | 0.003 | 0.003 | 0.002 | 0.002 |

EFFLUENT RADIATION (pCi/L) 1996

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | 23.9 | 0.3 | 20.3 | | | | | | | 1.6 | 32.8 | | | | | 1.1 | 27.8 | 0.8 | 26.3 | | | | |
| 2 | | | | | 1.9 | 26.7 | 0.4 | 29.2 | | | | | 0.6 | 35.7 | 1.1 | 20.7 | 1.5 | 28.8 | | | 1.7 | 33.1 | 0.6 | 33.7 |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | 1.5 | 37.6 | | | | | | | | | | | | | | |
| Average | 0.6 | 23.9 | 0.3 | 20.3 | 1.9 | 26.7 | 0.4 | 29.2 | 1.5 | 37.6 | 1.6 | 32.8 | 0.6 | 35.7 | 1.1 | 20.7 | 1.3 | 28.3 | 0.8 | 26.3 | 1.7 | 33.1 | 0.6 | 33.7 |

EFFLUENT RADIATION (pCi/L) 1997

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2.2 | 23.8 | 0.9 | 25.4 | 1.3 | 28.9 | 1.2 | 28.2 | 0.2 | 31.2 | 0.9 | 23.9 | 2.6 | 32.1 | 0.7 | 33.9 | 2.9 | 33.2 | 6.7 | 25.3 | 2.2 | 27.9 | 2.9 | 30.0 |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| Average | 2.2 | 23.8 | 0.9 | 25.4 | 1.3 | 28.9 | 1.2 | 28.2 | 0.2 | 31.2 | 0.9 | 23.9 | 2.6 | 32.1 | 0.7 | 33.9 | 2.9 | 33.2 | 6.7 | 25.3 | 2.2 | 27.9 | 2.9 | 30.0 |

EFFLUENT RADIATION (pCi/L) 1998

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2.3 | 33.1 | 1.4 | 23.4 | 1.5 | 21.5 | 2.8 | 19.2 | 3.3 | 48.0 | 4.8 | 28.6 | 2.8 | 32.5 | 3.8 | 21.0 | 0.3 | 33.7 | 1.5 | 16.7 | 1.4 | 26.0 | 1.4 | 27.0 |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| Average | 2.3 | 33.1 | 1.4 | 23.4 | 1.5 | 21.5 | 2.8 | 19.2 | 3.3 | 48.0 | 4.8 | 28.6 | 2.8 | 32.5 | 3.8 | 21.0 | 0.3 | 33.7 | 1.5 | 16.7 | 1.4 | 26.0 | 1.4 | 27.0 |

EFFLUENT RADIATION (pCi/L) 1999

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | | | 1.4 | 26.1 | 2.8 | 18.7 | 4.2 | 28.9 | | | 1.7 | 29.2 | 0.7 | 21.7 | 0.7 | 21.7 | | | 2.0 | 43.4 | | | 4.3 | 31.8 |
| 2 | 1.5 | 30.1 | | | | | | | -0.2 | 41.5 | | | | | | | 0.3 | 36.7 | | | 1.0 | 34.0 | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| Average | 1.5 | 30.1 | 1.4 | 26.1 | 2.8 | 18.7 | 4.2 | 28.9 | -0.2 | 41.5 | 1.7 | 29.2 | 0.7 | 21.7 | 0.7 | 21.7 | 0.3 | 36.7 | 2.0 | 43.4 | 1.0 | 34.0 | 4.3 | 31.8 |

EFFLUENT RADIATION (pCi/L) 2000

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | 3.1 | 29.6 | | | 2.5 | 32.9 | | | 2.8 | 36.4 | 1.8 | 28.1 | 3.3 | 33.7 | | | 1.3 | 36.2 | | | 0.7 | 25.2 | 1.7 | 29.2 |
| 2 | | | 1.9 | 35.8 | | | 2.0 | 30.4 | | | | | | | 2.5 | 34.6 | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | 1.8 | 31.9 | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| Average | 3.1 | 29.6 | 1.9 | 35.8 | 2.5 | 32.9 | 2.0 | 30.4 | 2.8 | 36.4 | 1.8 | 28.1 | 3.3 | 33.7 | 2.5 | 34.6 | 1.3 | 36.2 | 1.8 | 31.9 | 0.7 | 25.2 | 1.7 | 29.2 |

EFFLUENT RADIATION (pCi/L) 1995

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | 0.3 | 28.0 | 2.1 | 37.0 | 2.6 | 30.7 | 1.6 | 26.3 | | | 0.8 | 31.2 | | | 0.6 | 31.1 | 1.0 | 37.4 | | | 1.4 | 29.9 | 2.9 | 29.2 |
| 2 | | | | | | | | | 1.7 | 37.2 | | | 0.9 | 33.4 | | | | | 1.8 | 35.3 | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| Average | 0.3 | 28.0 | 2.1 | 37.0 | 2.6 | 30.7 | 1.6 | 26.3 | 1.7 | 37.2 | 0.8 | 31.2 | 0.9 | 33.4 | 0.6 | 31.1 | 1.0 | 37.4 | 1.8 | 35.3 | 1.4 | 29.9 | 2.9 | 29.2 |

ALDRIN AND DIELDRIN (ng/L) 1996

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

ALDRIN AND DIELDRIN (ng/L) 1997

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

ALDRIN AND DIELDRIN (ng/L) 1998

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

ALDRIN AND DIELDRIN (ng/L) 1999

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

ALDRIN AND DIELDRIN (ng/L) 2000

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

ALDRIN AND DIELDRIN (ng/L) 2001

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | NA | nd | nd | nd | nd | nd | nd | nd |
| 2 | NA | NA | nd | nd | NA | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| 3 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| 4 | nd | nd | | | nd | nd | nd | nd | nd | nd | nd | nd | | | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| 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 |

ENDRIN (ng/L) 1996

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

ENDRIN (ng/L) 1997

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

ENDRIN (ng/L) 1998

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

ENDRIN (ng/L) 1999

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

ENDRIN (ng/L) 2000

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

ENDRIN (ng/L) 2001

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | NA | nd | nd | nd | nd | nd | nd | nd |
| 2 | NA | NA | nd | nd | NA | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| 3 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| 4 | nd | nd | | | nd | nd | nd | nd | nd | nd | nd | nd | | | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| 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 |

HCH-HEXACHLOROCYCLOHEXANES (ng/L) 1996

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | 79 | 57 | 73 | 59 | 41 | 43 | 49 | 45 | 81 | 37 | 67 | 34 | 56 | 39 | 70 | 36 | 93 | 48 | 29 | 36 | 42 | 37 | 31 | 41 |
| 2 | 64 | 57 | 73 | 67 | 66 | 59 | 51 | 47 | 76 | 44 | 30 | 27 | 62 | 42 | 51 | 38 | 72 | 49 | 43 | 34 | 33 | 36 | 36 | 23 |
| 3 | 76 | 55 | 66 | 68 | 63 | 52 | 45 | 37 | 54 | 31 | 53 | 32 | 85 | 46 | 51 | 42 | 76 | 38 | 73 | 43 | 38 | 30 | 50 | 28 |
| 4 | | | 76 | 58 | 47 | 45 | 48 | 45 | 72 | 39 | | | 72 | 44 | 80 | 44 | 55 | 41 | 47 | 40 | | | 25 | 27 |
| Average | 73 | 56 | 72 | 63 | 54 | 50 | 48 | 44 | 71 | 38 | 50 | 31 | 69 | 43 | 63 | 40 | 74 | 44 | 48 | 38 | 38 | 34 | 36 | 30 |

HCH-HEXACHLOROCYCLOHEXANES (ng/L) 1997

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | 71 | 67 | 51 | 47 | 59 | 61 | 50 | 30 | nd | nd | 60 | 28 | 65 | 39 | 62 | 36 | 57 | 48 | 50 | 39 | 55 | 33 | 57 | 36 |
| 2 | 68 | 78 | 72 | 50 | 51 | 50 | 44 | 36 | nd | nd | 76 | 25 | 80 | 40 | 63 | 58 | 64 | 44 | 53 | 35 | 54 | 30 | 47 | 27 |
| 3 | 85 | 50 | 76 | 63 | 70 | 62 | 47 | 27 | 60 | 24 | 83 | 31 | 73 | 35 | 59 | 32 | 160 | 120 | 69 | 33 | 50 | 43 | 71 | 43 |
| 4 | 52 | 41 | 97 | 85 | 41 | 59 | | | 47 | 13 | 75 | 33 | 70 | 34 | 65 | 40 | | | 47 | 31 | 64 | 40 | 41 | 29 |
| Average | 69 | 59 | 74 | 61 | 55 | 58 | 47 | 31 | 27 | 9 | 74 | 29 | 72 | 37 | 62 | 42 | 94 | 71 | 55 | 35 | 56 | 37 | 54 | 34 |

HCH-HEXACHLOROCYCLOHEXANES (ng/L) 1998

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff |
| 1 | 45 | 30 | 37 | 26 | 37 | 29 | 46 | 24 | 24 | 34 | 28 | 32 | 46 | 48 | 66 | 33 | 44 | 26 | 68 | 27 | 43 | 24 | 32 | 27 |
| 2 | 61 | 37 | 45 | 29 | 39 | 33 | 28 | 21 | 32 | 27 | 53 | 32 | 45 | 34 | 55 | 31 | 42 | 31 | 53 | 35 | 49 | 27 | 32 | 21 |
| 3 | 54 | 39 | 29 | 25 | 49 | 27 | 30 | 26 | 39 | 42 | 37 | 36 | 42 | 37 | 56 | 30 | 42 | 25 | 57 | 25 | 43 | 29 | 30 | 21 |
| 4 | 47 | 32 | | | 46 | 25 | 42 | 30 | 36 | 32 | | | | | 54 | 34 | 45 | 28 | 50 | 25 | 31 | 21 | 34 | 26 |
| Average | 52 | 35 | 37 | 27 | 43 | 29 | 37 | 25 | 33 | 34 | 39 | 33 | 44 | 40 | 58 | 32 | 43 | 28 | 57 | 28 | 42 | 25 | 32 | 24 |

HCH-HEXACHLOROCYCLOHEXANES (ng/L) 1999

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

HCH-HEXACHLOROCYCLOHEXANES (ng/L) 2000

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

HCH-HEXACHLOROCYCLOHEXANES (ng/L) 2001

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

CHLORDANE & RELATED COMPOUNDS (ng/L) 1996

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

CHLORDANE & RELATED COMPOUNDS (ng/L) 1997

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | 50 | nd | nd | nd | nd | nd | nd | nd | nd | nd |
| 3 | nd | nd | 100 | 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 |
| Average | nd | nd | 25 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | 13 | nd | nd | nd | nd | nd | nd | nd | nd | nd |

CHLORDANE & RELATED COMPOUNDS (ng/L) 1998

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

CHLORDANE & RELATED COMPOUNDS (ng/L) 1999

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

CHLORDANE & RELATED COMPOUNDS (ng/L) 2000

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

CHLORDANE & RELATED COMPOUNDS (ng/L) 2001

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

PCBs-POLYCHLORINATED BIPHENYLS (ng/L) 1996

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

PCBs-POLYCHLORINATED BIPHENYLS (ng/L) 1997

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

PCBs-POLYCHLORINATED BIPHENYLS (ng/L) 1998

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

PCBs-POLYCHLORINATED BIPHENYLS (ng/L) 1999

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

PCBs-POLYCHLORINATED BIPHENYLS (ng/L) 2000

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

PCBs-POLYCHLORINATED BIPHENYLS (ng/L) 2001

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

DDT AND DERIVATIVES (ng/L) 1996

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | 27 | nd | 38 | 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 | 37 | nd | nd | nd | nd | nd | nd | 36 | nd | nd |
| 3 | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | 33 | nd | nd | nd | 27 | nd | nd | nd | nd | nd | nd | nd |
| 4 | | | nd | nd | nd | nd | nd | nd | nd | nd | | | 26 | | 32 | nd | nd | nd | nd | nd | | | nd | nd |
| Average | nd | nd | nd | nd | nd | nd | nd | nd | nd | nd | 9 | nd | 24 | nd | 17 | nd | 7 | nd | nd | nd | nd | 12 | nd | nd |

DDT AND DERIVATIVES (ng/L) 1997

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

DDT AND DERIVATIVES (ng/L) 1998

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

DDT AND DERIVATIVES (ng/L) 1999

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

DDT AND DERIVATIVES (ng/L) 2000

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

DDT AND DERIVATIVES (ng/L) 2001

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

TOXAPHENE (ng/L) 1996

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

TOXAPHENE (ng/L) 1997

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

TOXAPHENE (ng/L) 1998

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

TOXAPHENE (ng/L) 1999

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

TOXAPHENE (ng/L) 2000

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

TOXAPHENE (ng/L) 2001

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

CHLORINATED PHENOLIC COMPOUNDS (ug/L) 1996

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

CHLORINATED PHENOLIC COMPOUNDS (ug/L) 1997

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | NA | 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 |

CHLORINATED PHENOLIC COMPOUNDS (ug/L) 1998

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

CHLORINATED PHENOLIC COMPOUNDS (ug/L) 1999

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

CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2000

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

CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2001

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 |
| 4 | 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 |

NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 1996

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | 21.9 | 20.2 | 20.2 | 20.7 | 29.8 | 16.4 | 16.8 | 16.4 | 16.8 | 18.0 | 18.0 | 16.0 | 27.0 | 19.1 | 17.8 | 16.2 | 17.2 | 17.7 | 17.6 | 19.0 | 10.8 | 15.9 | 15.5 | 11.0 |
| 2 | 33.2 | 20.5 | 26.1 | 19.5 | 14.8 | 11.2 | 21.7 | 19.0 | 20.1 | 9.1 | 16.2 | 17.3 | 17.5 | 19.6 | 16.0 | 16.8 | 14.1 | 16.9 | 16.0 | 18.2 | 24.9 | 25.1 | 18.7 | 17.8 |
| 3 | 28.8 | 25.4 | 20.4 | 19.0 | 7.9 | 21.4 | 19.7 | 15.4 | 25.2 | 24.0 | 13.1 | 14.8 | 28.1 | 27.5 | 18.3 | 17.9 | 12.0 | 18.8 | 16.3 | 19.0 | 16.5 | 14.2 | 21.4 | 10.5 |
| 4 | 9.1 | 6.5 | 20.1 | 18.1 | 17.4 | 15.5 | 17.6 | 21.3 | | | 21.5 | 17.5 | 15.1 | 20.9 | 24.4 | 21.9 | 15.5 | 18.1 | 16.6 | 18.1 | | | 22.5 | 20.9 |
| Average | 23.3 | 18.2 | 21.7 | 19.3 | 17.5 | 16.1 | 19.0 | 18.0 | 20.7 | 17.0 | 17.2 | 16.4 | 21.9 | 21.8 | 19.1 | 18.2 | 14.7 | 17.9 | 16.6 | 18.6 | 17.4 | 18.4 | 19.5 | 15.1 |

NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 1997

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | 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 | 21.0 | 14.5 | 16.3 | 16.8 | 9.4 | 12.5 | 14.5 | nd | 14.2 | 11.4 | 17.1 | 16.1 | 12.7 | 10.1 | 20.9 | 8.6 | 14.4 | 12.8 | 12.1 | 15.4 | 23.1 | 17.0 | 16.3 | 14.4 |
| 2 | 12.3 | 5.9 | 19.9 | 14.4 | 18.2 | 16.5 | 6.1 | 3.8 | 13.8 | 12.4 | 19.1 | 16.0 | 12.1 | 11.6 | 22.0 | 20.9 | nd | 18.9 | 16.7 | 15.9 | 13.5 | 13.6 | 16.2 | 16.7 |
| 3 | 13.1 | 10.3 | 3.0 | 6.6 | 8.4 | 6.7 | 21.6 | 15.2 | 21.6 | 15.4 | 14.5 | 12.8 | 12.0 | 9.3 | 12.5 | 12.3 | 18.2 | 17.8 | 12.8 | 11.9 | 23.6 | 18.4 | 12.0 | 12.4 |
| 4 | 8.8 | 7.4 | 12.0 | 13.2 | 6.5 | 6.1 | | | 17.9 | 15.9 | NA | 9.0 | 14.2 | 15.3 | 20.2 | 21.4 | | | 12.8 | 13.4 | 16.4 | 14.4 | 16.2 | 15.2 |
| Average | 13.8 | 9.5 | 12.8 | 12.8 | 10.6 | 10.5 | 14.1 | 6.3 | 16.9 | 13.8 | 16.9 | 13.5 | 12.8 | 11.6 | 18.9 | 15.8 | 10.9 | 16.5 | 13.6 | 14.2 | 19.2 | 15.9 | 15.2 | 14.7 |

NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 1998

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff |
| 1 | 13.3 | 15.9 | 9.1 | 10.9 | 14.9 | 14.6 | 11.7 | 12.3 | 15.9 | 18.0 | 19.0 | 13.1 | 15.0 | 16.5 | 11.1 | 7.6 | 10.5 | 9.4 | 11.0 | 9.2 | 12.0 | 9.2 | 15.1 | 12.5 |
| 2 | 15.7 | 17.4 | 7.1 | 5.6 | 16.9 | 14.5 | 15.7 | 14.9 | 14.0 | 15.6 | 15.0 | 15.9 | 14.9 | 13.1 | 5.2 | 3.4 | 5.8 | 9.1 | 13.8 | 9.4 | 13.4 | 10.1 | 12 | 11.8 |
| 3 | 27.1 | 21.3 | 11.3 | 13.3 | 18.9 | 17.8 | 14.1 | 16.8 | 11.9 | 13.1 | 18.7 | 19.9 | 14.3 | 12.8 | 12.2 | 8.8 | 16.4 | 12.6 | 10.1 | 8.8 | 16.2 | 12.8 | 15.9 | 10.2 |
| 4 | 25.2 | 22.4 | | | 14.3 | 10.2 | 26.9 | 25.0 | 17.4 | 16.5 | 16.6 | 17.2 | | | 13.0 | 12.3 | 12.6 | 11.5 | 11.9 | 10.1 | 11.5 | 7.8 | 12.3 | 8.7 |
| Average | 20.3 | 19.3 | 9.2 | 9.9 | 16.3 | 14.3 | 17.1 | 17.3 | 14.8 | 15.8 | 17.3 | 16.5 | 14.7 | 14.1 | 10.4 | 8.0 | 11.3 | 10.7 | 11.7 | 9.4 | 13.3 | 10.0 | 13.8 | 10.8 |

NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 1999

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff |
| 1 | 15.1 | 11.1 | 14.8 | 11.9 | 15.5 | 11.6 | 17.1 | 11.8 | 12.7 | 8.0 | 19.9 | 10.6 | 24.3 | 15.6 | 21.5 | 8.1 | 16.1 | 11.3 | 13.8 | 12.0 | 18.2 | 10.8 | 13.2 | 9.9 |
| 2 | 15.6 | 10.8 | 23.6 | 13.4 | 13.9 | 9.6 | 15.6 | 11.4 | 14.6 | 7.8 | 21.6 | 13.1 | 16.9 | 10.8 | 22.7 | 14.5 | 19.2 | 15.3 | 17.9 | 15.7 | 15.9 | 12.3 | 21.3 | 17.0 |
| 3 | 15.9 | 11.0 | 18.9 | 13.8 | 13.5 | 8.3 | 19.5 | 12.4 | 6.5 | 10.9 | 18.0 | 11.1 | 21.8 | 13.8 | 17.0 | 14.9 | 16.4 | 14.3 | 16.6 | 8.9 | 19.4 | 12.0 | 16.1 | 11.7 |
| 4 | | | 16.7 | 8.6 | 24.4 | 14.2 | 15.5 | 12.0 | | | 15.8 | 8.7 | 18.6 | 14.5 | 15.5 | 12.3 | 16.1 | 14.5 | 15.5 | 8.5 | | | 18.6 | 11.1 |
| Average | 15.5 | 11.0 | 18.5 | 11.9 | 16.8 | 10.9 | 16.9 | 11.9 | 11.3 | 8.9 | 18.8 | 10.9 | 20.4 | 13.7 | 19.2 | 12.5 | 17.0 | 13.9 | 16.0 | 11.3 | 17.8 | 11.7 | 17.3 | 12.4 |

NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2000

| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff |
| 1 | 13.8 | 9.0 | 20.7 | 12.6 | 13.1 | 10.4 | 13.8 | 8.2 | 12.9 | 11.3 | 7.7 | 6.3 | 24.3 | 20.3 | 22.9 | 16.1 | 15.2 | 10.3 | 15.6 | 10.9 | 21.5 | 14.4 | 11.0 | 8.5 |
| 2 | 26.6 | 16.9 | 18.5 | 14.1 | 11.9 | 10.0 | 13.9 | 7.8 | 12.9 | 10.0 | 8.8 | 6.7 | 21.4 | 18.9 | 16.5 | 10.8 | 13.6 | 10.3 | 16.6 | 10.6 | * | 7.7 | 13.8 | 11.5 |
| 3 | 18.9 | 14.9 | 15.9 | 9.9 | 10.4 | 9.1 | 15.3 | 12.1 | 17.2 | 15.4 | 24.3 | 11.6 | 20.2 | 18.0 | 18.2 | 11.2 | 21.4 | 15.4 | 16.2 | 11.9 | 18.7 | 14.4 | 20.3 | 14.6 |
| 4 | 19.1 | 12.0 | 13.9 | 9.1 | 16.8 | 10.5 | | | 6.9 | 7.7 | 16.9 | 13.4 | 21.5 | 12.7 | 12.1 | 9.5 | | | 15.2 | 11.1 | 11.6 | 8.6 | 19.6 | 14 |
| Average | 19.6 | 13.2 | 17.3 | 11.4 | 13.1 | 10.0 | 14.3 | 9.4 | 12.5 | 11.1 | 14.4 | 9.5 | 21.6 | 17.5 | 17.4 | 11.9 | 16.7 | 12.0 | 15.9 | 11.1 | 17.3 | 11.3 | 16.2 | 12.2 |

NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2001

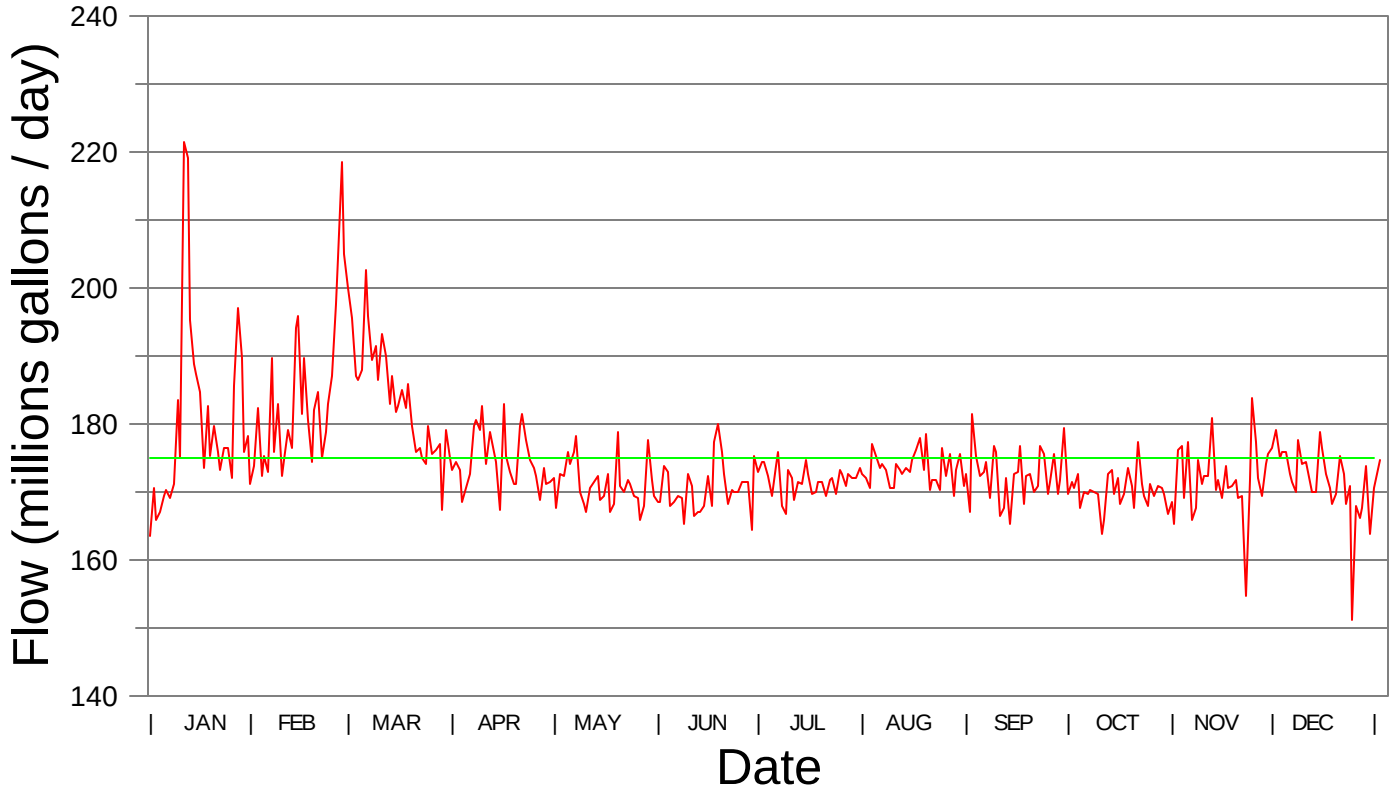
| | JAN | | FEB | | MAR | | APR | | MAY | | JUN | | JUL | | AUG | | SEP | | OCT | | NOV | | DEC | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Week | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff | Inf | Eff |
| 1 | 17.3 | 13.7 | 22.9 | 23.0 | 12.1 | 7.0 | 21.6 | 24.3 | 17.9 | 18.4 | 25.8 | 15.5 | 19.1 | 10.5 | 16.4 | 11.5 | 14.8 | 6.3 | 13.3 | 8.5 | 15.2 | 12.4 | 19.1 | 8.4 |
| 2 | 11.5 | 8.5 | 11.6 | 6.6 | 11.3 | 8.0 | 22.0 | 12.4 | 14.7 | 9.8 | 17.9 | 12.0 | 15.2 | 5.0 | 18.9 | 8.9 | 15.8 | 8.5 | 10.4 | 10.3 | 16.6 | 11.6 | 13.6 | 9.8 |
| 3 | 13.9 | 9.5 | 15.4 | 15.1 | 15.1 | 13.7 | | 13.7 | 19.1 | 13.1 | 12.7 | 7.4 | 15.5 | 10.1 | 14.8 | 9.9 | 16.1 | 6.6 | 12.9 | 6.1 | 25.1 | 10.3 | 12.2 | 7.8 |
| 4 | 19.5 | 16.1 | | | 21.3 | 7.8 | | | | 8.8 | 16.7 | 7.9 | | | 14.5 | 9.7 | 17.5 | 9.2 | 12.8 | 10.0 | 23.1 | 13.6 | 19.8 | 12.5 |
| Average | 15.6 | 12.0 | 16.6 | 14.9 | 15.0 | 9.1 | 21.8 | 16.8 | 17.2 | 12.5 | 18.3 | 10.7 | 16.6 | 8.5 | 16.2 | 10.0 | 16.1 | 7.7 | 12.4 | 8.7 | 20.0 | 12.0 | 16.2 | 9.6 |

D. Daily Values of Selected Parameters.

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

# Point Loma Wastewater Treatment Plant

## 2001 Daily Flows (mgd)

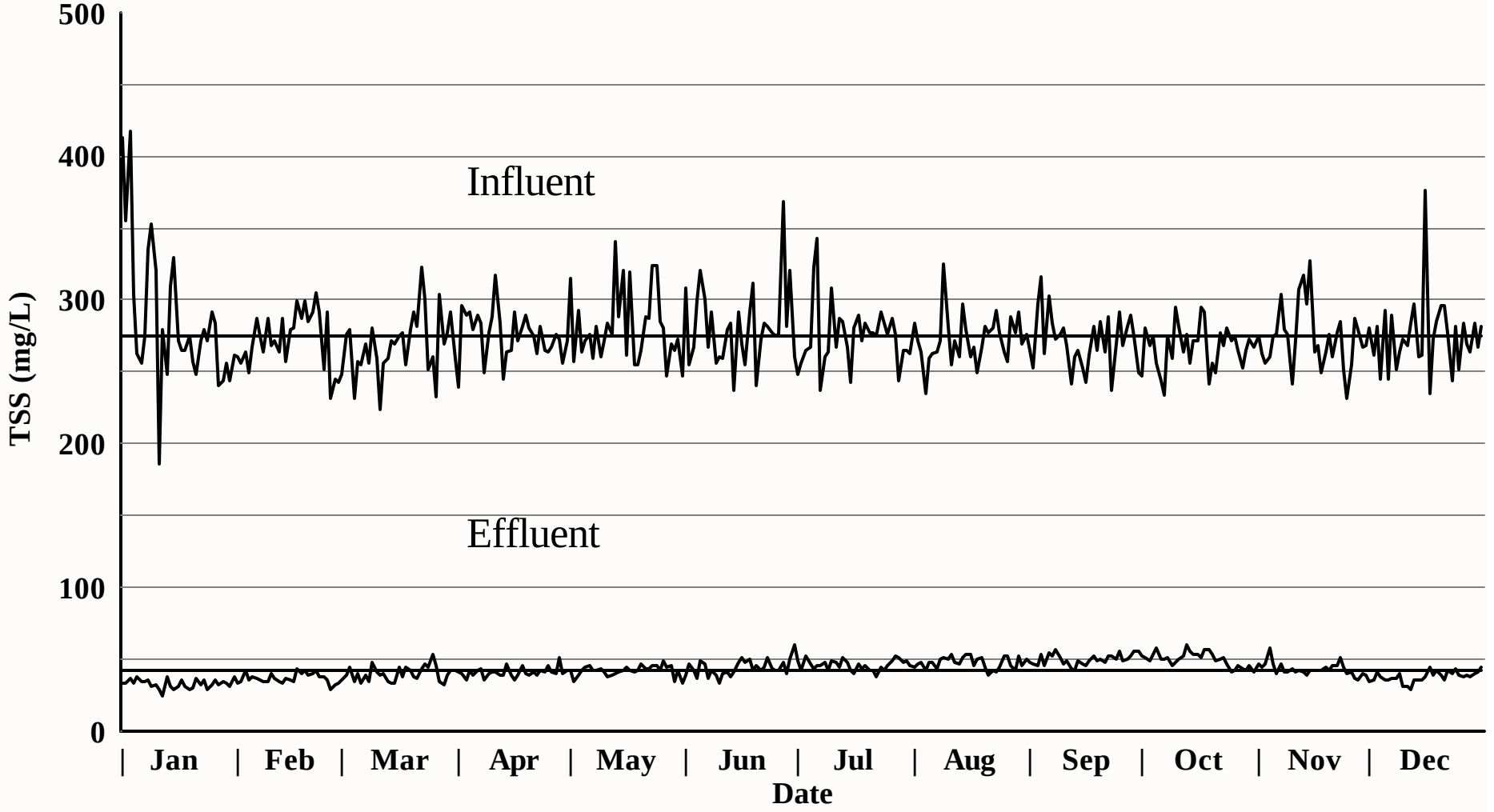


Daily Flows.

| Day | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 163.72 | 173.86 | 200.2 | 173.37 | 172.2 | 168.55 | 172.9 | 172.57 | 172.5 | 169.78 | 168.6 | 176.4 | |
| 2 | 170.7 | 182.36 | 195.7 | 174.44 | 167.6 | 168.46 | 174.5 | 172 | 167.2 | 171.43 | 165.4 | 179.08 | |
| 3 | 165.9 | 172.25 | 187.0 | 173.26 | 172.7 | 173.94 | 174.6 | 170.74 | 181.5 | 170.78 | 176.4 | 175.08 | |
| 4 | 167.1 | 175.33 | 186.5 | 168.69 | 172.3 | 172.86 | 172.4 | 177.11 | 175.2 | 172.56 | 177.0 | 176.08 | |
| 5 | 169.6 | 172.93 | 188.1 | 170.78 | 175.8 | 168.04 | 169.6 | 175.41 | 172.3 | 167.78 | 169.2 | 175.8 | |
| 6 | 170.5 | 189.74 | 202.8 | 172.65 | 174.1 | 168.63 | 173.9 | 173.61 | 173.0 | 169.93 | 177.6 | 172.79 | |
| 7 | 169.3 | 175.87 | 195.9 | 179.87 | 176.0 | 169.42 | 175.8 | 174.06 | 174.4 | 169.63 | 166.0 | 171.53 | |
| 8 | 171.2 | 183.1 | 189.6 | 180.75 | 178.2 | 169.15 | 167.9 | 173.41 | 169.2 | 170.37 | 167.7 | 170.22 | |
| 9 | 183.6 | 172.29 | 191.5 | 179.05 | 170.1 | 165.48 | 166.7 | 170.71 | 176.8 | 169.97 | 174.7 | 177.82 | |
| 10 | 175.1 | 174.71 | 186.5 | 182.64 | 168.2 | 172.63 | 173.3 | 170.81 | 175.9 | 169.8 | 171.4 | 174.15 | |
| 11 | 221.6 | 179.06 | 193.3 | 174.2 | 167.2 | 170.82 | 172.0 | 174.11 | 166.4 | 163.9 | 172.3 | 174.6 | |
| 12 | 219.3 | 176.62 | 190.2 | 178.91 | 170.7 | 166.58 | 168.8 | 173.31 | 167.7 | 165.94 | 172.3 | 171.6 | |
| 13 | 195.3 | 194.31 | 183.0 | 177.51 | 171.6 | 167.17 | 171.5 | 172.68 | 172.0 | 172.61 | 180.9 | 170.11 | |
| 14 | 188.9 | 196 | 187.1 | 174.53 | 172.3 | 167.15 | 171.3 | 173.68 | 165.4 | 173.18 | 170.5 | 170.12 | |
| 15 | 187.4 | 181.48 | 181.8 | 167.49 | 168.8 | 168.03 | 174.9 | 173.07 | 172.6 | 169.74 | 171.8 | 178.87 | |
| 16 | 184.8 | 189.9 | 182.9 | 182.94 | 169.4 | 172.48 | 172.5 | 174.71 | 172.9 | 172.19 | 169.3 | 176.55 | |
| 17 | 173.7 | 180.49 | 185.1 | 175.25 | 172.7 | 168.11 | 169.7 | 176.38 | 176.8 | 168.42 | 173.8 | 172.64 | |
| 18 | 182.7 | 174.58 | 182.5 | 173.08 | 167.2 | 177.53 | 170.1 | 177.9 | 168.2 | 169.87 | 170.6 | 170.76 | |
| 19 | 175.5 | 182.13 | 186.0 | 171.24 | 168.2 | 179.99 | 171.5 | 173.18 | 172.3 | 173.62 | 171.0 | 168.38 | |
| 20 | 179.6 | 184.82 | 179.7 | 171.22 | 178.9 | 175.85 | 171.7 | 178.53 | 172.6 | 171.02 | 171.9 | 169.68 | |
| 21 | 175.8 | 175.05 | 175.9 | 179.83 | 171.0 | 172.79 | 169.4 | 170.47 | 170.1 | 167.68 | 169.2 | 175.3 | |
| 22 | 173.4 | 178.93 | 176.4 | 181.65 | 170.1 | 168.2 | 171.7 | 171.82 | 171.1 | 177.31 | 169.4 | 172.63 | |
| 23 | 176.7 | 182.9 | 175.2 | 177.6 | 171.8 | 170.33 | 172.0 | 171.8 | 176.9 | 171.22 | 154.7 | 168.23 | |
| 24 | 176.6 | 186.98 | 174.3 | 174.9 | 171.3 | 169.95 | 169.7 | 170.45 | 175.7 | 169.5 | 171.7 | 171 | |
| 25 | 172.1 | 197.77 | 179.8 | 173.67 | 169.6 | 170.16 | 173.4 | 176.46 | 169.9 | 167.89 | 183.9 | 151.32 | |
| 26 | 185.6 | 204.34 | 175.6 | 172.41 | 169.1 | 171.71 | 172.7 | 172.41 | 171.7 | 171.24 | 177.5 | 167.94 | |
| 27 | 197.1 | 218.68 | 176.4 | 168.94 | 165.8 | 171.52 | 170.8 | 175.64 | 175.6 | 169.54 | 172.1 | 166.13 | |
| 28 | 189.8 | 204.97 | 177.2 | 173.45 | 168.1 | 171.49 | 172.6 | 169.5 | 169.7 | 170.92 | 169.4 | 167.55 | |
| 29 | 175.8 | | 167.3 | 171.34 | 177.6 | 164.63 | 172.1 | 173.25 | 171.8 | 170.78 | 174.1 | 173.89 | |
| 30 | 178.2 | | 179.2 | 171.53 | 171.7 | 175.41 | 172.1 | 175.6 | 179.6 | 169.68 | 175.7 | 163.94 | Annual |
| 31 | 171.4 | | 175.1 | | 169.4 | | 173.7 | 170.9 | | 166.9 | | 170.7 | **Summary** |
| Average | 180.3 | 184.3 | 184.1 | 174.9 | 171.3 | 170.6 | 171.8 | 173.4 | 172.6 | 170.2 | 171.9 | 171.6 | **174.7** |
| Minimum | 163.7 | 172.3 | 167.3 | 167.5 | 165.8 | 164.6 | 166.7 | 169.5 | 165.4 | 163.9 | 154.7 | 151.3 | **151.3** |
| Maximum | 221.6 | 218.7 | 202.8 | 182.9 | 178.9 | 180.0 | 175.8 | 178.5 | 181.5 | 177.3 | 183.9 | 179.1 | **221.6** |
| Total | 5588 | 5161 | 5707.4 | 5247 | 5309.6 | 5117 | 5325.7 | 5376 | 5177 | 5275 | 5156 | 5321 | **63761** |

**Point Loma Wastewater Treatment Plant**

# 2001 Total Suspended Solids



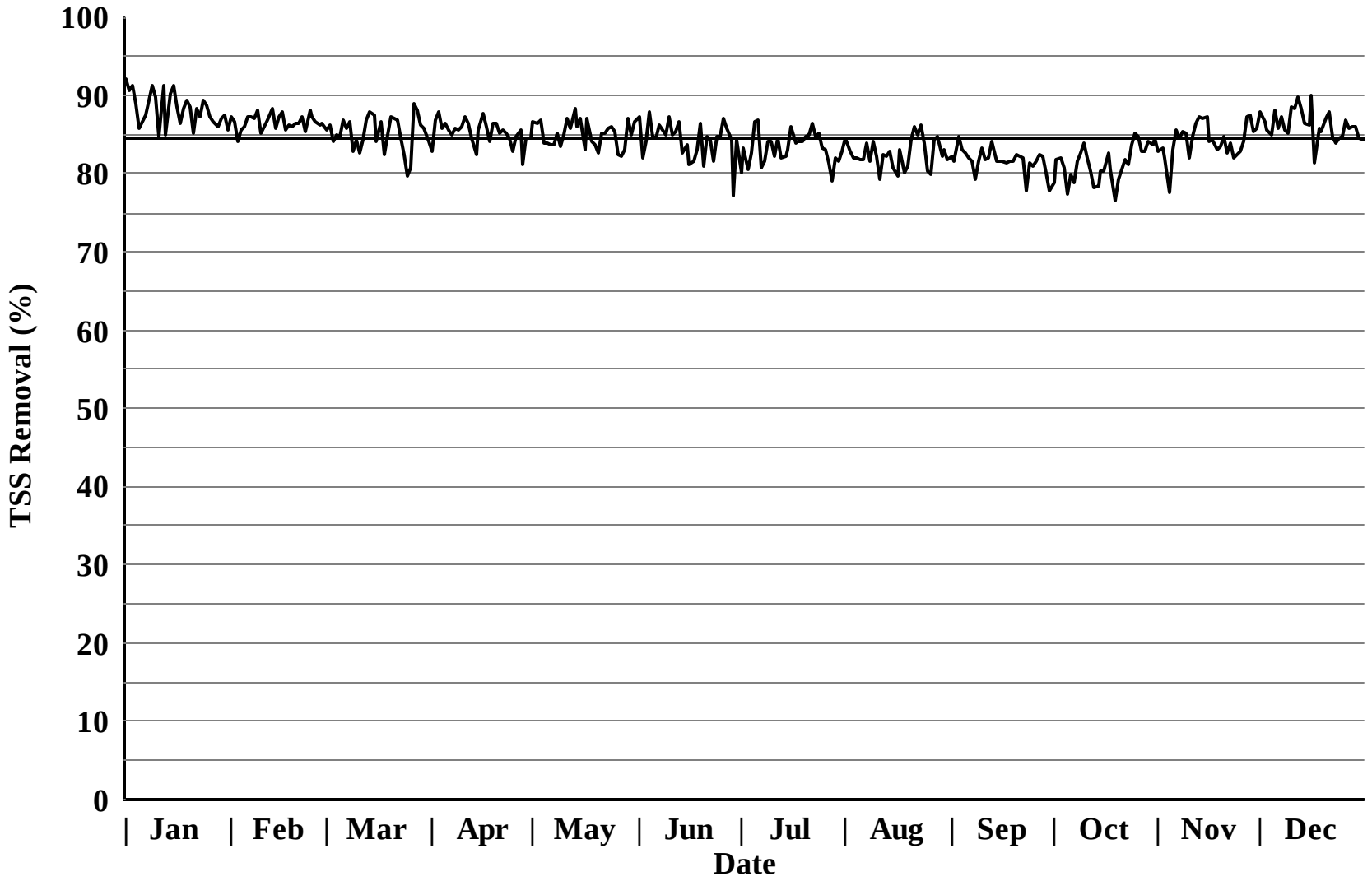
Point Loma Wastewater Treatment Plant

# 2001 Total Suspended Solids (mg/L)

| | Jan | | Feb | | Mar | | Apr | | May | | Jun | | Jul | | Aug | | Sep | | Oct | | Nov | | Dec | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Day | 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 | 413.0 | 32.9 | 260.0 | 33.1 | 248.0 | 35.8 | 239.0 | 41.1 | 315.0 | 41.8 | 308.0 | 38.9 | 248.0 | 49.1 | 283.0 | 44.0 | 265.0 | 47.1 | 247.0 | 52.2 | 275.0 | 46.9 | 280.0 | 34.2 |
| 2 | 355.0 | 32.9 | 256.0 | 34.4 | 276.0 | 38.2 | 296.0 | 39.1 | 257.0 | 34.7 | 255.0 | 46.0 | 256.0 | 42.4 | 272.0 | 46.6 | 253.0 | 46.2 | 280.0 | 51.1 | 263.0 | 43.6 | 261.0 | 35.1 |
| 3 | 417.0 | 36.2 | 264.0 | 42.2 | 279.0 | 44.4 | 289.0 | 35.3 | 293.0 | 38.4 | 267.0 | 42.2 | 265.0 | 51.6 | 264.0 | 47.3 | 297.0 | 45.1 | 268.0 | 48.2 | 256.0 | 46.0 | 281.0 | 40.4 |
| 4 | 304.0 | 33.3 | 249.0 | 36.0 | 231.0 | 34.7 | 292.0 | 41.6 | 264.0 | 42.4 | 299.0 | 36.2 | 267.0 | 46.2 | 235.0 | 42.2 | 316.0 | 53.1 | 275.0 | 52.7 | 260.0 | 58.2 | 245.0 | 36.9 |
| 5 | 263.0 | 37.6 | 267.0 | 37.5 | 257.0 | 39.3 | 279.0 | 38.0 | 271.0 | 44.0 | 321.0 | 49.1 | 323.0 | 42.9 | 259.0 | 47.1 | 263.0 | 45.8 | 256.0 | 58.2 | 275.0 | 46.7 | 293.0 | 35.1 |
| 6 | 256.0 | 34.2 | 287.0 | 36.7 | 255.0 | 33.3 | 289.0 | 41.6 | 276.0 | 45.1 | 300.0 | 46.4 | 343.0 | 44.9 | 263.0 | 47.5 | 303.0 | 54.6 | 244.0 | 49.3 | 276.0 | 40.0 | 245.0 | 35.1 |
| 7 | 275.0 | 34.5 | 275.0 | 35.3 | 269.0 | 38.5 | 284.0 | 42.9 | 259.0 | 42.2 | 267.0 | 36.7 | 237.0 | 45.8 | 264.0 | 42.5 | 284.0 | 52.0 | 233.0 | 49.3 | 304.0 | 46.9 | 289.0 | 36.4 |
| 8 | 335.0 | 36.0 | 264.0 | 34.0 | 256.0 | 34.0 | 249.0 | 35.7 | 281.0 | 42.0 | 292.0 | 42.4 | 260.0 | 47.8 | 271.0 | 49.6 | 273.0 | 56.4 | 275.0 | 50.4 | 279.0 | 40.9 | 252.0 | 36.2 |
| 9 | 353.0 | 30.4 | 287.0 | 34.4 | 280.0 | 48.0 | 277.0 | 40.0 | 260.0 | 42.9 | 256.0 | 38.7 | 264.0 | 42.0 | 325.0 | 51.3 | 276.0 | 50.6 | 259.0 | 44.9 | 276.0 | 40.9 | 264.0 | 39.3 |
| 10 | 321.0 | 32.5 | 268.0 | 40.0 | 259.0 | 40.4 | 288.0 | 40.3 | 272.0 | 41.1 | 260.0 | 33.1 | 308.0 | 49.1 | 281.0 | 50.0 | 280.0 | 46.9 | 295.0 | 47.8 | 241.0 | 43.1 | 273.0 | 31.1 |
| 11 | 186.0 | 28.4 | 272.0 | 36.7 | 224.0 | 38.9 | 317.0 | 40.5 | 283.0 | 36.9 | 259.0 | 39.1 | 267.0 | 47.3 | 255.0 | 52.7 | 268.0 | 48.4 | 281.0 | 50.2 | 271.0 | 41.1 | 268.0 | 31.1 |
| 12 | 279.0 | 24.2 | 264.0 | 34.7 | 256.0 | 40.0 | 283.0 | 38.4 | 276.0 | 38.9 | 279.0 | 40.9 | 287.0 | 44.4 | 272.0 | 48.0 | 241.0 | 43.1 | 264.0 | 51.8 | 307.0 | 41.8 | 283.0 | 29.1 |
| 13 | 248.0 | 37.1 | 287.0 | 33.3 | 259.0 | 34.0 | 245.0 | 38.0 | 340.0 | 39.8 | 284.0 | 37.8 | 285.0 | 51.1 | 260.0 | 46.0 | 260.0 | 41.3 | 276.0 | 60.2 | 317.0 | 40.4 | 297.0 | 35.1 |
| 14 | 309.0 | 30.4 | 257.0 | 36.2 | 271.0 | 33.1 | 264.0 | 46.5 | 288.0 | 40.2 | 237.0 | 41.1 | 267.0 | 47.3 | 297.0 | 51.1 | 265.0 | 48.9 | 256.0 | 55.3 | 297.0 | 38.4 | 260.0 | 35.4 |
| 15 | 329.0 | 28.5 | 279.0 | 35.4 | 269.0 | 33.3 | 265.0 | 38.4 | 321.0 | 41.8 | 292.0 | 47.5 | 243.0 | 41.3 | 279.0 | 53.6 | 253.0 | 46.2 | 271.0 | 53.3 | 327.0 | 41.8 | 261.0 | 35.8 |
| 16 | 271.0 | 31.3 | 280.0 | 34.2 | 275.0 | 44.0 | 292.0 | 35.8 | 261.0 | 44.2 | 269.0 | 50.9 | 280.0 | 39.1 | 260.0 | 53.1 | 243.0 | 44.9 | 271.0 | 53.3 | 264.0 | 41.8 | 376.0 | 37.6 |
| 17 | 265.0 | 35.8 | 299.0 | 43.5 | 277.0 | 36.9 | 272.0 | 38.2 | 319.0 | 41.6 | 255.0 | 47.1 | 289.0 | 46.9 | 267.0 | 44.9 | 261.0 | 48.9 | 295.0 | 51.3 | 268.0 | 41.8 | 235.0 | 43.6 |
| 18 | 265.0 | 30.7 | 287.0 | 39.3 | 255.0 | 44.5 | 281.0 | 44.7 | 255.0 | 40.9 | 291.0 | 49.3 | 271.0 | 42.7 | 249.0 | 49.8 | 281.0 | 51.7 | 292.0 | 56.7 | 249.0 | 41.8 | 273.0 | 38.6 |
| 19 | 275.0 | 29.1 | 299.0 | 41.6 | 279.0 | 42.2 | 289.0 | 39.3 | 255.0 | 41.6 | 312.0 | 42.4 | 283.0 | 45.3 | 267.0 | 50.9 | 265.0 | 48.9 | 241.0 | 56.4 | 264.0 | 43.6 | 285.0 | 42.0 |
| 20 | 257.0 | 29.3 | 285.0 | 38.7 | 291.0 | 36.9 | 280.0 | 38.0 | 265.0 | 46.2 | 240.0 | 45.6 | 277.0 | 42.2 | 281.0 | 43.8 | 285.0 | 50.0 | 256.0 | 53.1 | 276.0 | 42.2 | 296.0 | 38.4 |
| 21 | 248.0 | 36.7 | 292.0 | 39.8 | 281.0 | 36.2 | 275.0 | 40.9 | 288.0 | 42.7 | 273.0 | 41.7 | 277.0 | 41.5 | 277.0 | 38.9 | 264.0 | 47.1 | 249.0 | 48.4 | 260.0 | 45.3 | 296.0 | 36.0 |
| 22 | 271.0 | 31.5 | 305.0 | 41.3 | 323.0 | 42.5 | 263.0 | 38.2 | 287.0 | 42.9 | 283.0 | 44.2 | 275.0 | 37.1 | 280.0 | 42.4 | 288.0 | 51.5 | 277.0 | 50.2 | 277.0 | 44.7 | 277.0 | 42.0 |
| 23 | 279.0 | 35.1 | 292.0 | 37.1 | 301.0 | 46.7 | 281.0 | 41.8 | 324.0 | 45.6 | 281.0 | 51.3 | 291.0 | 44.4 | 293.0 | 40.4 | 237.0 | 52.4 | 268.0 | 50.4 | 285.0 | 51.1 | 244.0 | 39.3 |
| 24 | 272.0 | 29.1 | 252.0 | 36.9 | 251.0 | 44.2 | 265.0 | 41.1 | 324.0 | 44.9 | 277.0 | 43.1 | 283.0 | 41.8 | 277.0 | 44.6 | 269.0 | 50.2 | 280.0 | 46.0 | 252.0 | 44.2 | 281.0 | 43.3 |
| 25 | 292.0 | 32.6 | 292.0 | 35.1 | 260.0 | 52.7 | 264.0 | 45.3 | 285.0 | 41.8 | 275.0 | 42.0 | 276.0 | 45.8 | 264.0 | 51.8 | 292.0 | 55.6 | 271.0 | 40.5 | 231.0 | 39.6 | 251.0 | 38.2 |
| 26 | 283.0 | 35.8 | 231.0 | 29.1 | 232.0 | 44.7 | 267.0 | 40.7 | 280.0 | 49.1 | 276.0 | 42.2 | 287.0 | 48.7 | 257.0 | 52.0 | 268.0 | 49.1 | 275.0 | 42.0 | 255.0 | 40.4 | 284.0 | 37.1 |
| 27 | 240.0 | 32.0 | 245.0 | 32.5 | 304.0 | 33.8 | 276.0 | 40.0 | 247.0 | 43.8 | 368.0 | 47.6 | 276.0 | 51.5 | 288.0 | 45.3 | 281.0 | 49.3 | 265.0 | 45.3 | 287.0 | 36.7 | 269.0 | 38.5 |
| 28 | 244.0 | 33.8 | 243.0 | 33.6 | 269.0 | 32.4 | 273.0 | 51.3 | 269.0 | 45.1 | 281.0 | 40.0 | 244.0 | 51.3 | 277.0 | 42.2 | 289.0 | 51.5 | 253.0 | 43.3 | 279.0 | 34.9 | 264.0 | 36.9 |
| 29 | 256.0 | 33.3 | | | 277.0 | 38.0 | 256.0 | 39.5 | 265.0 | 34.5 | 321.0 | 50.2 | 265.0 | 47.8 | 291.0 | 51.5 | 275.0 | 55.1 | 265.0 | 41.8 | 267.0 | 39.3 | 283.0 | 39.4 |
| 30 | 244.0 | 30.4 | | | 291.0 | 41.3 | 271.0 | 41.6 | 273.0 | 41.3 | 260.0 | 59.5 | 265.0 | 48.4 | 269.0 | 45.8 | 249.0 | 55.2 | 273.0 | 44.9 | 268.0 | 38.0 | 267.0 | 41.1 |
| 31 | 261.0 | 37.6 | | | 259.0 | 41.3 | | | 247.0 | 33.1 | | | 263.0 | 45.1 | 276.0 | 50.0 | | | 267.0 | 41.1 | | | 281.0 | 44.2 |
| Avg | 286.0 | 32.7 | 272.8 | 36.5 | 268.2 | 39.5 | 275.4 | 40.5 | 280.6 | 41.7 | 281.3 | 43.8 | 274.9 | 45.6 | 272.7 | 47.3 | 271.5 | 49.6 | 267.0 | 49.7 | 273.5 | 42.7 | 274.6 | 37.5 |
| Min | 186.0 | 24.2 | 231.0 | 29.1 | 224.0 | 32.4 | 239.0 | 35.3 | 247.0 | 33.1 | 237.0 | 33.1 | 237.0 | 37.1 | 235.0 | 38.9 | 237.0 | 41.3 | 233.0 | 40.5 | 231.0 | 34.9 | 235.0 | 29.1 |
| Max | 417.0 | 37.6 | 305.0 | 43.5 | 323.0 | 52.7 | 317.0 | 51.3 | 340.0 | 49.1 | 368.0 | 59.5 | 343.0 | 51.6 | 325.0 | 53.6 | 316.0 | 56.4 | 295.0 | 60.2 | 327.0 | 58.2 | 376.0 | 44.2 |

**Point Loma Wastewater Treatment Plant**

# 2001 TSS Removal (%) at Point Loma



Point Loma Wastewater Treatment Plant

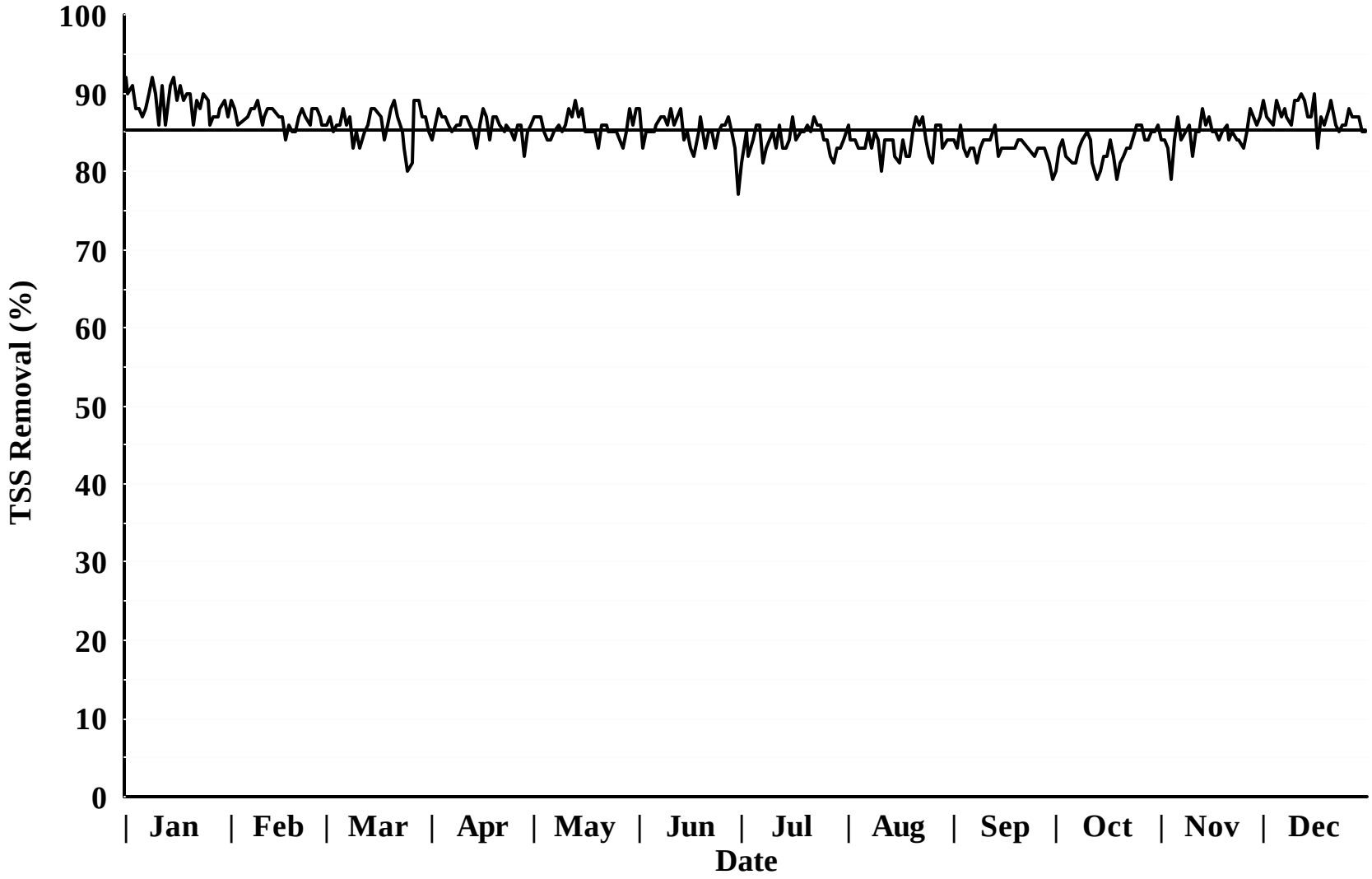
# 2001 Total Suspended Solids Removals (%) at Pt. Loma

| 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 | 92.0 | 87.3 | 85.6 | 82.8 | 86.7 | 87.4 | 80.2 | 84.5 | 82.2 | 78.9 | 82.9 | 87.8 |
| 2 | 90.7 | 86.6 | 86.2 | 86.8 | 86.5 | 82.0 | 83.4 | 82.9 | 81.7 | 81.8 | 83.4 | 86.6 |
| 3 | 91.3 | 84.0 | 84.1 | 87.8 | 86.9 | 84.2 | 80.5 | 82.1 | 84.8 | 82.0 | 82.0 | 85.6 |
| 4 | 89.0 | 85.5 | 85.0 | 85.8 | 83.9 | 87.9 | 82.7 | 82.0 | 83.2 | 80.8 | 77.6 | 84.9 |
| 5 | 85.7 | 86.0 | 84.7 | 86.4 | 83.8 | 84.7 | 86.7 | 81.8 | 82.6 | 77.3 | 83.0 | 88.0 |
| 6 | 86.6 | 87.2 | 86.9 | 85.6 | 83.7 | 84.5 | 86.9 | 81.9 | 82.0 | 79.8 | 85.5 | 85.7 |
| 7 | 87.5 | 87.2 | 85.7 | 84.9 | 83.7 | 86.3 | 80.7 | 83.9 | 81.7 | 78.8 | 84.6 | 87.4 |
| 8 | 89.3 | 87.1 | 86.7 | 85.7 | 85.1 | 85.5 | 81.6 | 81.7 | 79.3 | 81.7 | 85.3 | 85.6 |
| 9 | 91.4 | 88.0 | 82.9 | 85.6 | 83.5 | 84.9 | 84.1 | 84.2 | 81.7 | 82.7 | 85.2 | 85.1 |
| 10 | 89.9 | 85.1 | 84.4 | 86.0 | 84.9 | 87.3 | 84.1 | 82.2 | 83.3 | 83.8 | 82.1 | 88.6 |
| 11 | 84.7 | 86.5 | 82.6 | 87.2 | 87.0 | 84.9 | 82.3 | 79.3 | 81.9 | 82.1 | 84.8 | 88.4 |
| 12 | 91.3 | 86.9 | 84.4 | 86.4 | 85.9 | 85.3 | 84.5 | 82.4 | 82.1 | 80.4 | 86.4 | 89.7 |
| 13 | 85.0 | 88.4 | 86.9 | 84.5 | 88.3 | 86.7 | 82.1 | 82.3 | 84.1 | 78.2 | 87.3 | 88.2 |
| 14 | 90.2 | 85.9 | 87.8 | 82.4 | 86.0 | 82.7 | 82.3 | 82.8 | 81.5 | 78.4 | 87.1 | 86.4 |
| 15 | 91.3 | 87.3 | 87.6 | 85.5 | 87.0 | 83.7 | 83.0 | 80.8 | 81.7 | 80.3 | 87.2 | 86.3 |
| 16 | 88.5 | 87.8 | 84.0 | 87.7 | 83.1 | 81.1 | 86.0 | 79.6 | 81.5 | 80.3 | 84.2 | 90.0 |
| 17 | 86.5 | 85.5 | 86.7 | 86.0 | 87.0 | 81.5 | 83.8 | 83.2 | 81.3 | 82.6 | 84.4 | 81.4 |
| 18 | 88.4 | 86.3 | 82.5 | 84.1 | 84.0 | 83.1 | 84.2 | 80.0 | 81.6 | 80.6 | 83.2 | 85.9 |
| 19 | 89.4 | 86.1 | 84.9 | 86.4 | 83.7 | 86.4 | 84.0 | 80.9 | 81.5 | 76.6 | 83.5 | 85.3 |
| 20 | 88.6 | 86.4 | 87.3 | 86.4 | 82.6 | 81.0 | 84.8 | 84.4 | 82.5 | 79.3 | 84.7 | 87.0 |
| 21 | 85.2 | 86.5 | 87.1 | 85.1 | 85.2 | 84.7 | 85.0 | 86.0 | 82.2 | 80.6 | 82.6 | 87.8 |
| 22 | 88.4 | 87.3 | 86.8 | 85.5 | 85.1 | 84.4 | 86.5 | 84.9 | 82.1 | 81.9 | 83.9 | 84.8 |
| 23 | 87.4 | 85.4 | 84.5 | 85.1 | 85.9 | 81.7 | 84.7 | 86.2 | 77.9 | 81.2 | 82.1 | 83.9 |
| 24 | 89.3 | 88.0 | 82.4 | 84.5 | 86.1 | 84.7 | 85.2 | 83.9 | 81.3 | 83.6 | 82.5 | 84.6 |
| 25 | 88.8 | 87.4 | 79.7 | 82.8 | 85.3 | 84.7 | 83.4 | 80.4 | 81.0 | 85.1 | 82.9 | 84.8 |
| 26 | 87.3 | 86.7 | 80.7 | 84.8 | 82.5 | 87.1 | 83.0 | 79.8 | 81.7 | 84.7 | 84.2 | 86.9 |
| 27 | 86.7 | 86.2 | 88.9 | 85.5 | 82.3 | 85.8 | 81.3 | 84.3 | 82.5 | 82.9 | 87.2 | 85.7 |
| 28 | 86.1 | 86.4 | 88.0 | 81.2 | 83.2 | 84.4 | 79.0 | 84.8 | 82.2 | 82.9 | 87.5 | 86.0 |
| 29 | 87.0 | | 86.3 | 84.6 | 87.0 | 77.1 | 82.0 | 82.3 | 80.0 | 84.2 | 85.3 | 86.1 |
| 30 | 87.5 | | 85.8 | 84.6 | 84.9 | 84.4 | 81.7 | 83.0 | 77.8 | 83.6 | 85.8 | 84.6 |
| 31 | 85.6 | | 84.1 | | 86.6 | | 82.9 | 81.9 | | 84.6 | | 84.3 |
| Avg | 88.3 | 86.6 | 85.2 | 85.3 | 85.1 | 84.3 | 83.3 | 82.6 | 81.7 | 81.3 | 84.3 | 86.2 |
| Min | 84.7 | 84.0 | 79.7 | 81.2 | 82.3 | 77.1 | 79.0 | 79.3 | 77.8 | 76.6 | 77.6 | 81.4 |
| Max | 92.0 | 88.4 | 88.9 | 87.8 | 88.3 | 87.9 | 86.9 | 86.2 | 84.8 | 85.1 | 87.5 | 90.0 |

**Point Loma Wastewater Treatment Plant**

# 2001 Systemwide TSS Removal (%)

Combined Stream Sample Point



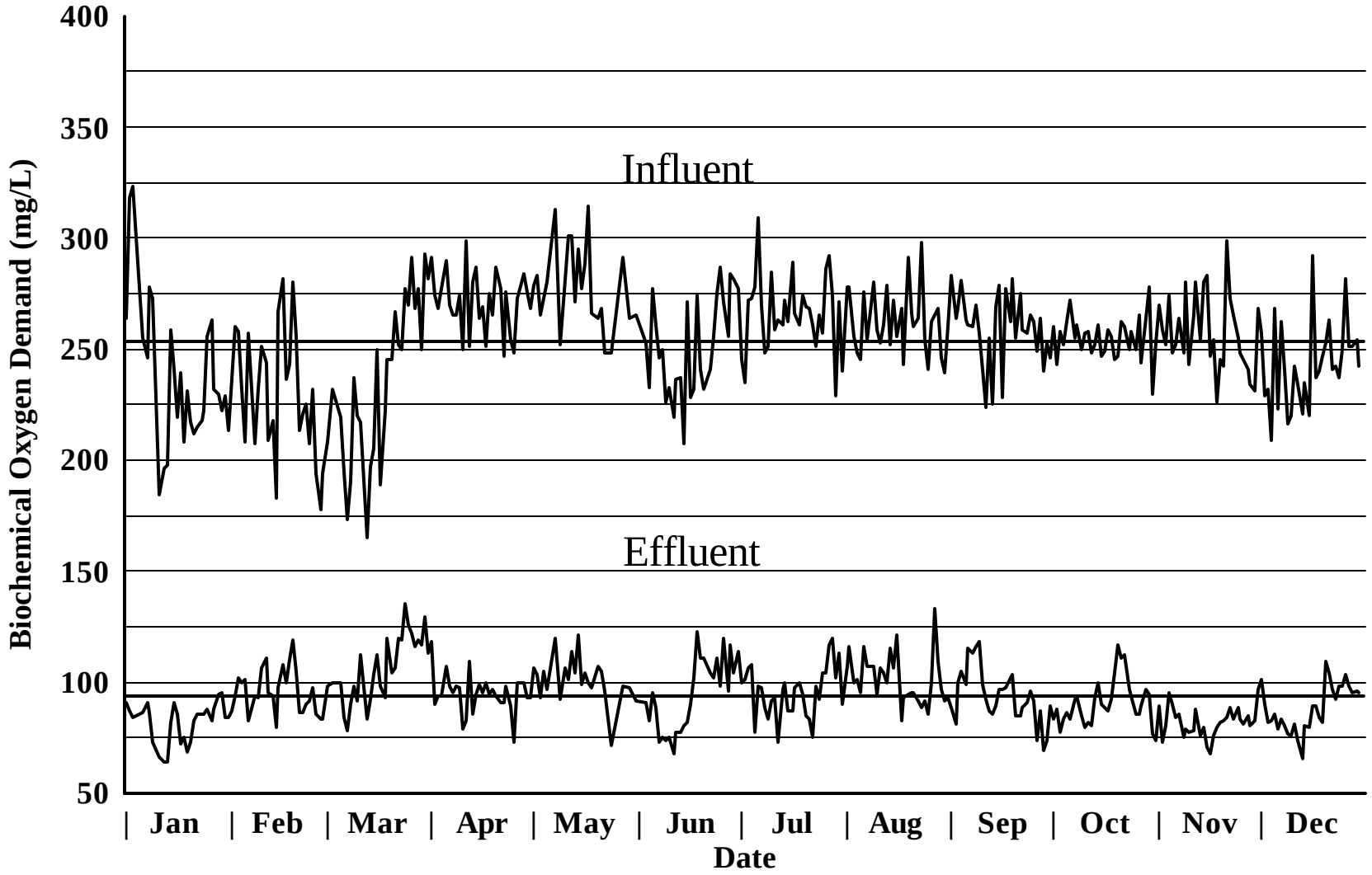
Point Loma Wastewater Treatment Plant

# 2001 Total Suspended Solids Systemwide Removals (%) Combined Stream Sample Point

| 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 | 92.0 | 89.0 | 86.0 | 84.0 | 87.0 | 88.0 | 81.0 | 86.0 | 84.0 | 80.0 | 84.0 | 89.0 |
| 2 | 90.0 | 88.0 | 87.0 | | 87.0 | 83.0 | 85.0 | 84.0 | 83.0 | 83.0 | 84.0 | 87.0 |
| 3 | 91.0 | 86.0 | 85.0 | 88.0 | 87.0 | 85.0 | 82.0 | 84.0 | 86.0 | 84.0 | 83.0 | |
| 4 | 88.0 | | 86.0 | 87.0 | 85.0 | | 84.0 | 83.0 | 83.0 | 82.0 | 79.0 | 86.0 |
| 5 | 88.0 | | 86.0 | 87.0 | 84.0 | 85.0 | 86.0 | 83.0 | 82.0 | | 84.0 | 89.0 |
| 6 | 87.0 | 87.0 | 88.0 | 86.0 | 84.0 | 86.0 | 86.0 | 83.0 | 83.0 | 81.0 | 87.0 | 87.0 |
| 7 | 88.0 | 88.0 | 86.0 | 85.0 | 85.0 | 87.0 | 81.0 | 85.0 | 83.0 | 81.0 | 84.0 | 88.0 |
| 8 | 90.0 | 88.0 | 87.0 | 86.0 | 86.0 | 87.0 | 83.0 | 83.0 | 81.0 | 83.0 | | 87.0 |
| 9 | 92.0 | 89.0 | 83.0 | 86.0 | 85.0 | 86.0 | | 85.0 | 83.0 | 84.0 | 86.0 | 86.0 |
| 10 | 90.0 | 86.0 | 85.0 | 87.0 | 86.0 | 88.0 | 85.0 | 84.0 | 84.0 | 85.0 | 82.0 | 89.0 |
| 11 | 86.0 | 87.0 | 83.0 | 87.0 | 88.0 | 86.0 | 83.0 | 80.0 | 84.0 | 84.0 | 85.0 | 89.0 |
| 12 | 91.0 | 88.0 | 85.0 | 86.0 | 87.0 | 87.0 | 86.0 | 84.0 | 84.0 | 81.0 | 85.0 | 90.0 |
| 13 | 86.0 | 88.0 | 86.0 | 85.0 | 89.0 | 88.0 | 83.0 | 84.0 | 86.0 | 79.0 | 88.0 | 89.0 |
| 14 | 91.0 | | 88.0 | 83.0 | 87.0 | 84.0 | 83.0 | 84.0 | 82.0 | 80.0 | 86.0 | 87.0 |
| 15 | 92.0 | 87.0 | 88.0 | 86.0 | 88.0 | 85.0 | 84.0 | 82.0 | 83.0 | 82.0 | 87.0 | 87.0 |
| 16 | 89.0 | 87.0 | | 88.0 | 85.0 | 83.0 | 87.0 | 81.0 | 83.0 | 82.0 | 85.0 | 90.0 |
| 17 | 91.0 | 84.0 | 87.0 | 87.0 | | 82.0 | 84.0 | 84.0 | 83.0 | 84.0 | 85.0 | 83.0 |
| 18 | 89.0 | 86.0 | 84.0 | 84.0 | 85.0 | 85.0 | 85.0 | 82.0 | 83.0 | 82.0 | 84.0 | 87.0 |
| 19 | 90.0 | 85.0 | 86.0 | 87.0 | 85.0 | 87.0 | 85.0 | 82.0 | 83.0 | 79.0 | 85.0 | 86.0 |
| 20 | 90.0 | 85.0 | 88.0 | 87.0 | 83.0 | 83.0 | 86.0 | 85.0 | 84.0 | 81.0 | 86.0 | 88.0 |
| 21 | 86.0 | 87.0 | 89.0 | 86.0 | 86.0 | 85.0 | 85.0 | 87.0 | 84.0 | 82.0 | 84.0 | 89.0 |
| 22 | 89.0 | 88.0 | 87.0 | 85.0 | 86.0 | 85.0 | 87.0 | 86.0 | | 83.0 | 85.0 | 86.0 |
| 23 | 88.0 | 87.0 | 85.0 | 86.0 | 85.0 | 83.0 | 86.0 | 87.0 | | 83.0 | 84.0 | 85.0 |
| 24 | 90.0 | 86.0 | 83.0 | 85.0 | 85.0 | 85.0 | 86.0 | 84.0 | | 85.0 | 84.0 | 86.0 |
| 25 | 89.0 | 88.0 | 80.0 | 84.0 | 85.0 | 86.0 | 84.0 | 82.0 | 82.0 | 86.0 | 83.0 | 86.0 |
| 26 | 86.0 | 88.0 | 81.0 | 86.0 | 84.0 | 86.0 | 84.0 | 81.0 | 83.0 | 86.0 | 85.0 | 88.0 |
| 27 | 87.0 | 87.0 | 89.0 | 86.0 | 83.0 | 87.0 | 82.0 | 86.0 | 83.0 | 84.0 | 88.0 | 87.0 |
| 28 | 87.0 | 86.0 | 89.0 | 82.0 | 85.0 | 85.0 | 81.0 | 86.0 | 83.0 | 84.0 | 87.0 | 87.0 |
| 29 | 88.0 | | 87.0 | 85.0 | 88.0 | 83.0 | 83.0 | 83.0 | 81.0 | 85.0 | 86.0 | 87.0 |
| 30 | 89.0 | | 87.0 | 86.0 | 86.0 | 77.0 | 83.0 | 84.0 | 79.0 | 85.0 | 87.0 | 85.0 |
| 31 | 87.0 | | 85.0 | | 88.0 | | 84.0 | 84.0 | | 86.0 | | 85.0 |
| Avg | 88.9 | 87.0 | 85.9 | 85.8 | 85.8 | 85.1 | 84.1 | 83.8 | 83.0 | 82.9 | 84.9 | 87.2 |
| Min | 86.0 | 84.0 | 80.0 | 82.0 | 83.0 | 77.0 | 81.0 | 80.0 | 79.0 | 79.0 | 79.0 | 83.0 |
| Max | 92.0 | 89.0 | 89.0 | 88.0 | 89.0 | 88.0 | 87.0 | 87.0 | 86.0 | 86.0 | 88.0 | 90.0 |

## Point Loma Wastewater Treatment Plant

# 2001 Biochemical Oxygen Demand



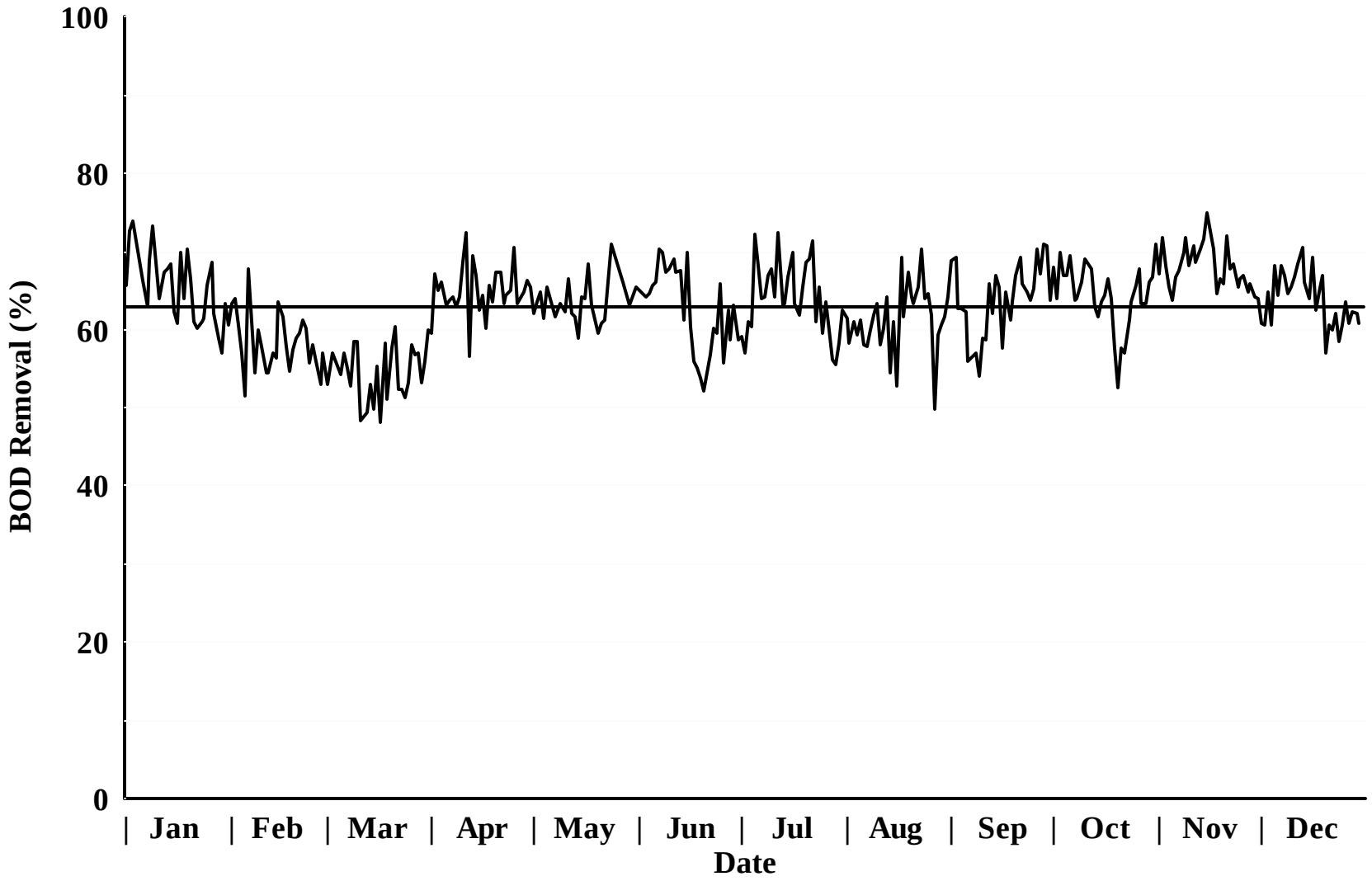
Point Loma Wastewater Treatment Plant

# 2001 Biochemical Oxygen Demand (mg/L)

| | Jan | | Feb | | Mar | | Apr | | May | | Jun | | Jul | | Aug | | Sep | | Oct | | Nov | | Dec | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Day | 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 | 264.0 | 90.7 | 236.0 | 86.7 | 208.0 | 97.9 | 291.0 | 118.0 | 279.0 | 106.0 | | | 245.0 | 100.0 | 278.0 | 107.0 | 283.0 | 88.4 | 260.0 | 83.1 | 270.0 | 88.9 | 257.0 | 101.0 |
| 2 | 318.0 | 86.7 | 260.0 | 93.6 | | | 274.0 | 89.9 | 283.0 | 103.0 | | | 235.0 | 101.0 | 278.0 | 116.0 | 264.0 | 81.0 | 243.0 | 87.5 | 259.0 | 73.0 | 229.0 | 90.3 |
| 3 | 323.0 | 84.1 | 258.0 | 102.0 | 232.0 | 100.0 | 268.0 | 93.8 | 265.0 | 93.3 | 253.0 | 90.4 | 272.0 | 106.0 | 256.0 | 99.8 | 268.0 | 100.0 | 258.0 | 77.5 | 252.0 | 80.1 | 232.0 | 81.7 |
| 4 | | | 232.0 | 100.0 | | | 277.0 | 93.9 | 273.0 | 105.0 | 233.0 | 82.5 | 273.0 | 108.0 | 248.0 | 101.0 | 281.0 | 105.0 | 252.0 | 83.6 | 274.0 | 95.0 | 209.0 | 82.4 |
| 5 | | | 208.0 | 101.0 | 219.0 | 100.0 | 290.0 | 107.0 | 280.0 | 97.1 | 277.0 | 95.2 | 278.0 | 77.5 | 245.0 | 95.3 | 263.0 | 99.3 | 262.0 | 86.4 | 248.0 | 90.0 | 268.0 | 85.2 |
| 6 | 255.0 | 86.1 | 257.0 | 82.8 | 195.0 | 83.9 | 270.0 | 98.1 | | | 261.0 | 88.8 | 309.0 | 98.2 | 276.0 | 116.0 | 261.0 | 115.0 | 272.0 | 83.3 | 252.0 | 84.0 | 223.0 | 79.1 |
| 7 | 246.0 | 91.1 | | | 173.0 | 77.8 | 265.0 | 94.9 | 313.0 | 120.0 | 246.0 | 73.2 | 270.0 | 97.2 | 254.0 | 107.0 | 260.0 | 113.0 | 255.0 | 92.3 | 264.0 | 85.7 | 262.0 | 83.3 |
| 8 | 278.0 | 86.6 | 207.0 | 93.9 | 190.0 | 89.9 | 265.0 | 98.0 | | | 250.0 | 75.0 | 248.0 | 88.5 | 267.0 | 107.0 | 270.0 | 116.0 | 261.0 | 94.1 | 248.0 | 74.9 | 241.0 | 80.0 |
| 9 | 273.0 | 73.2 | 232.0 | 92.9 | 237.0 | 98.5 | 274.0 | 97.7 | 252.0 | 92.4 | 226.0 | 73.6 | 251.0 | 83.3 | 280.0 | 107.0 | 257.0 | 118.0 | 250.0 | 84.9 | 280.0 | 79.0 | 216.0 | 76.4 |
| 10 | | | 251.0 | 106.0 | 220.0 | 91.4 | 250.0 | 78.5 | 281.0 | 106.0 | 233.0 | 75.1 | 285.0 | 91.8 | 259.0 | 94.7 | 241.0 | 99.0 | 257.0 | 79.5 | 243.0 | 77.5 | 220.0 | 75.9 |
| 11 | 184.0 | 66.5 | 244.0 | 111.0 | 217.0 | 112.0 | 299.0 | 82.3 | 301.0 | 101.0 | 219.0 | 67.7 | 259.0 | 93.0 | 253.0 | 106.0 | 224.0 | 92.3 | 258.0 | 81.8 | 265.0 | 77.9 | 242.0 | 80.9 |
| 12 | 196.0 | 63.9 | 209.0 | 95.3 | | | 251.0 | 109.0 | 301.0 | 114.0 | 236.0 | 77.1 | 263.0 | 72.7 | 261.0 | 104.0 | 255.0 | 87.1 | 248.0 | 80.1 | 280.0 | 88.0 | 234.0 | 73.8 |
| 13 | 198.0 | 63.8 | 218.0 | 93.8 | 165.0 | 83.5 | 280.0 | 85.4 | 271.0 | 104.0 | 237.0 | 77.0 | 261.0 | 96.4 | 279.0 | 99.6 | 225.0 | 85.3 | 252.0 | 93.3 | 254.0 | 75.4 | 221.0 | 65.3 |
| 14 | 259.0 | 81.5 | 183.0 | 79.8 | 197.0 | 92.5 | 287.0 | 94.8 | 295.0 | 121.0 | 207.0 | 80.1 | 272.0 | 99.6 | 252.0 | 115.0 | 269.0 | 89.0 | 261.0 | 100.0 | 280.0 | 79.7 | 235.0 | 80.0 |
| 15 | 241.0 | 90.9 | 267.0 | 97.3 | 205.0 | 103.0 | 264.0 | 99.2 | 277.0 | 99.0 | 271.0 | 81.8 | 262.0 | 87.2 | 272.0 | 106.0 | 279.0 | 96.5 | 247.0 | 89.8 | 283.0 | 70.7 | 220.0 | 79.5 |
| 16 | 219.0 | 85.8 | 282.0 | 108.0 | 250.0 | 112.0 | 269.0 | 95.4 | 288.0 | 104.0 | 228.0 | 90.3 | 289.0 | 86.9 | 256.0 | 121.0 | 228.0 | 96.5 | 249.0 | 88.7 | 247.0 | 67.8 | 292.0 | 89.6 |
| 17 | 239.0 | 71.9 | 236.0 | 99.6 | 189.0 | 98.1 | 251.0 | 100.0 | 314.0 | 99.4 | 232.0 | 102.0 | 266.0 | 97.5 | 268.0 | 82.5 | 277.0 | 97.5 | 259.0 | 86.7 | 254.0 | 75.6 | 237.0 | 89.1 |
| 18 | 208.0 | 75.0 | 243.0 | 110.0 | 222.0 | 92.7 | 275.0 | 94.7 | 266.0 | 97.8 | 274.0 | 123.0 | 261.0 | 99.6 | 243.0 | 93.2 | 262.0 | 102.0 | 256.0 | 92.1 | 226.0 | 79.7 | 240.0 | 84.3 |
| 19 | 231.0 | 68.8 | 280.0 | 119.0 | 245.0 | 120.0 | 265.0 | 96.5 | | | 241.0 | 111.0 | 274.0 | 94.7 | 291.0 | 94.8 | 282.0 | 103.0 | 245.0 | 104.0 | 245.0 | 82.0 | 247.0 | 81.5 |
| 20 | 217.0 | 72.9 | 256.0 | 105.0 | 245.0 | 104.0 | 287.0 | 93.5 | 264.0 | 107.0 | 232.0 | 111.0 | 269.0 | 84.5 | 266.0 | 95.0 | 255.0 | 84.7 | 247.0 | 117.0 | 242.0 | 82.8 | 253.0 | 109.0 |
| 21 | 212.0 | 82.7 | 213.0 | 86.2 | 267.0 | 106.0 | 277.0 | 90.5 | 268.0 | 105.0 | | | 268.0 | 82.9 | 260.0 | 95.4 | 275.0 | 84.5 | 262.0 | 111.0 | 299.0 | 83.7 | 263.0 | 104.0 |
| 22 | 215.0 | 85.7 | 221.0 | 86.0 | 252.0 | 120.0 | 247.0 | 90.6 | 248.0 | 96.2 | 241.0 | 104.0 | 261.0 | 75.0 | 264.0 | 91.2 | 259.0 | 88.7 | 260.0 | 112.0 | 273.0 | 88.3 | 241.0 | 96.4 |
| 23 | 218.0 | 85.3 | 225.0 | 89.7 | 250.0 | 119.0 | 276.0 | 97.9 | | | 256.0 | 102.0 | 251.0 | 98.1 | 298.0 | 88.5 | 257.0 | 90.5 | 250.0 | 96.9 | 265.0 | 83.4 | 242.0 | 92.0 |
| 24 | 222.0 | 85.8 | 207.0 | 91.5 | 277.0 | 135.0 | 254.0 | 89.0 | 248.0 | 71.8 | 275.0 | 111.0 | 265.0 | 92.0 | 254.0 | 91.8 | 265.0 | 96.1 | 258.0 | 94.0 | 255.0 | 88.4 | 237.0 | 98.4 |
| 25 | 256.0 | 88.1 | 232.0 | 97.5 | 270.0 | 126.0 | 248.0 | 73.1 | | | 287.0 | 98.2 | 257.0 | 104.0 | 241.0 | 85.4 | 262.0 | 91.2 | 250.0 | 85.8 | 248.0 | 83.1 | 250.0 | 98.5 |
| 26 | 263.0 | 82.6 | 194.0 | 85.4 | 291.0 | 122.0 | 273.0 | 99.9 | | | 271.0 | 120.0 | 286.0 | 104.0 | 262.0 | 100.0 | 249.0 | 74.0 | 265.0 | 85.4 | 245.0 | 81.3 | 282.0 | 103.0 |
| 27 | 232.0 | 88.1 | 178.0 | 83.6 | 268.0 | 116.0 | | | 291.0 | 98.6 | 256.0 | 96.1 | 292.0 | 117.0 | 265.0 | 133.0 | 264.0 | 86.8 | 244.0 | 89.2 | 241.0 | 84.8 | 251.0 | 98.6 |
| 28 | 230.0 | 94.5 | 194.0 | 83.4 | 277.0 | 119.0 | 284.0 | 99.8 | | | 284.0 | 117.0 | 274.0 | 120.0 | 268.0 | 109.0 | 240.0 | 69.5 | 264.0 | 96.7 | 234.0 | 80.1 | 251.0 | 95.0 |
| 29 | 222.0 | 95.6 | | | 250.0 | 117.0 | 276.0 | 93.1 | 264.0 | 97.2 | 282.0 | 104.0 | 229.0 | 102.0 | 246.0 | 96.9 | 253.0 | 74.1 | 278.0 | 94.6 | 231.0 | 82.8 | 254.0 | 96.2 |
| 30 | 229.0 | 83.7 | | | 293.0 | 129.0 | 268.0 | 93.0 | | | 277.0 | 114.0 | 271.0 | 113.0 | 239.0 | 91.7 | 246.0 | 89.3 | 230.0 | 76.6 | 268.0 | 96.4 | 242.0 | 94.9 |
| 31 | 213.0 | 83.9 | | | 282.0 | 113.0 | | | 265.0 | 91.7 | | | 240.0 | 90.0 | 260.0 | 93.2 | | | 253.0 | 73.8 | | | | |
| Avg | 237.9 | 82.0 | 230.5 | 95.6 | 235.2 | 106.4 | 270.9 | 94.7 | 277.7 | 101.3 | 251.3 | 94.1 | 265.7 | 95.5 | 262.5 | 101.4 | 259.1 | 93.8 | 255.0 | 90.4 | 257.5 | 82.0 | 243.0 | 88.2 |
| Min | 184.0 | 63.8 | 178.0 | 79.8 | 165.0 | 77.8 | 247.0 | 73.1 | 248.0 | 71.8 | 207.0 | 67.7 | 229.0 | 72.7 | 239.0 | 82.5 | 224.0 | 69.5 | 230.0 | 73.8 | 226.0 | 67.8 | 209.0 | 65.3 |
| Max | 323.0 | 95.6 | 282.0 | 119.0 | 293.0 | 135.0 | 299.0 | 118.0 | 314.0 | 121.0 | 287.0 | 123.0 | 309.0 | 120.0 | 298.0 | 133.0 | 283.0 | 118.0 | 278.0 | 117.0 | 299.0 | 96.4 | 292.0 | 109.0 |

## Point Loma Wastewater Treatment Plant

# 2001 BOD Removal (%) at Point Loma



Point Loma Wastewater Treatment Plant

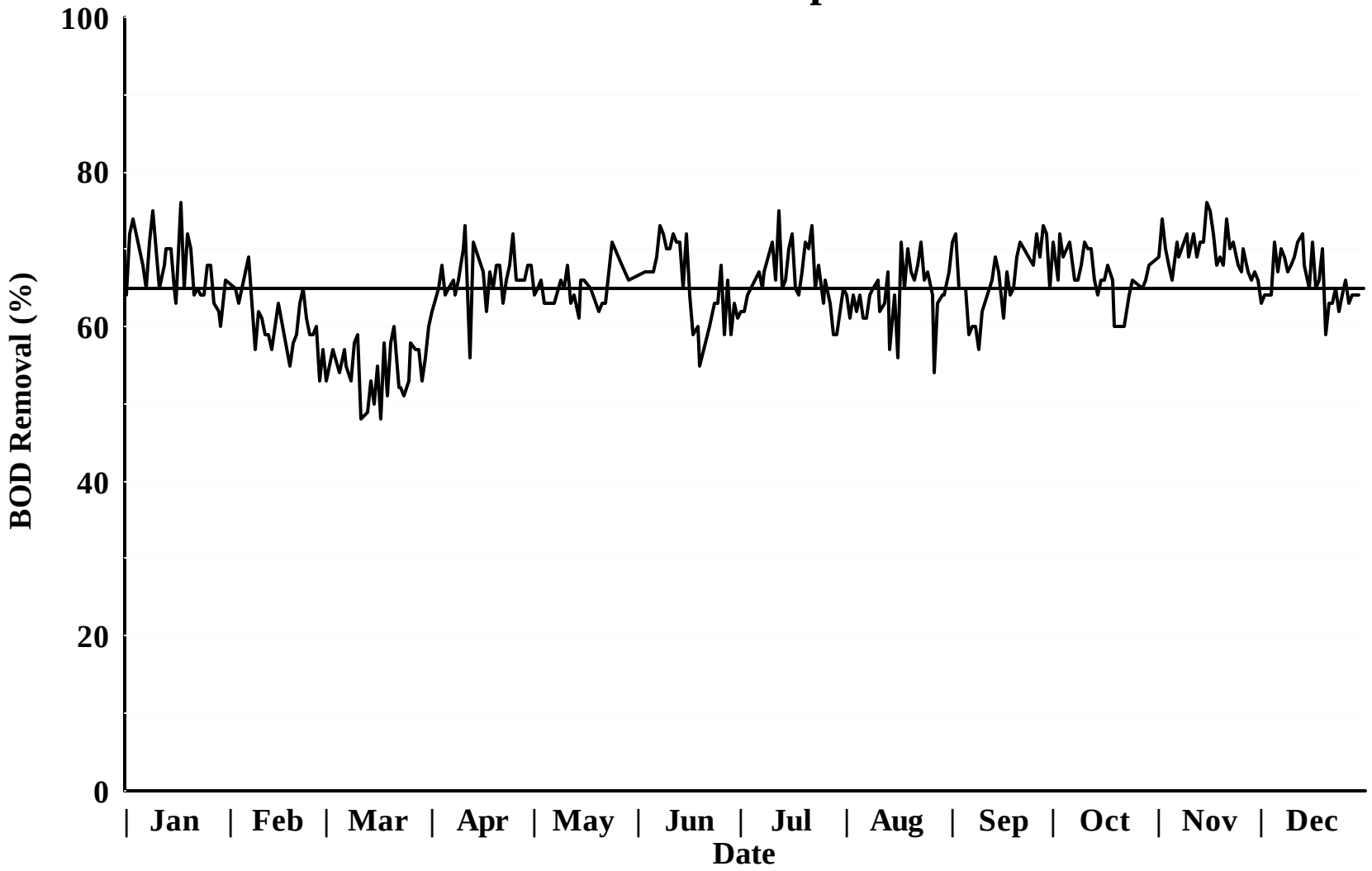
# 2001 Biochemical Oxygen Demand Removals (%) at Pt. Loma

| 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 | 65.6 | 63.3 | 52.9 | 59.5 | 62.0 | | 59.2 | 61.5 | 68.8 | 68.0 | 67.1 | 60.7 |
| 2 | 72.7 | 64.0 | | 67.2 | 63.6 | | 57.0 | 58.3 | 69.3 | 64.0 | 71.8 | 60.6 |
| 3 | 74.0 | 60.5 | 56.9 | 65.0 | 64.8 | 64.3 | 61.0 | 61.0 | 62.7 | 70.0 | 68.2 | 64.8 |
| 4 | | 56.9 | | 66.1 | 61.5 | 64.6 | 60.4 | 59.3 | 62.6 | 66.8 | 65.3 | 60.6 |
| 5 | | 51.4 | 54.3 | 63.1 | 65.3 | 65.6 | 72.1 | 61.1 | 62.2 | 67.0 | 63.7 | 68.2 |
| 6 | 66.2 | 67.8 | 57.0 | 63.7 | | 66.0 | 68.2 | 58.0 | 55.9 | 69.4 | 66.7 | 64.5 |
| 7 | 63.0 | | 55.0 | 64.2 | 61.7 | 70.2 | 64.0 | 57.9 | 56.5 | 63.8 | 67.5 | 68.2 |
| 8 | 68.8 | 54.6 | 52.7 | 63.0 | | 70.0 | 64.3 | 59.9 | 57.0 | 63.9 | 69.8 | 66.8 |
| 9 | 73.2 | 60.0 | 58.4 | 64.3 | 63.3 | 67.4 | 66.8 | 61.8 | 54.1 | 66.0 | 71.8 | 64.6 |
| 10 | | 57.8 | 58.5 | 68.6 | 62.3 | 67.8 | 67.8 | 63.4 | 58.9 | 69.1 | 68.1 | 65.5 |
| 11 | 63.9 | 54.5 | 48.4 | 72.5 | 66.4 | 69.1 | 64.1 | 58.1 | 58.8 | 68.3 | 70.6 | 66.6 |
| 12 | 67.4 | 54.4 | | 56.6 | 62.1 | 67.3 | 72.4 | 60.2 | 65.8 | 67.7 | 68.6 | 68.5 |
| 13 | 67.8 | 57.0 | 49.4 | 69.5 | 61.6 | 67.5 | 63.1 | 64.3 | 62.1 | 63.0 | 70.3 | 70.5 |
| 14 | 68.5 | 56.4 | 53.0 | 67.0 | 59.0 | 61.3 | 63.4 | 54.4 | 66.9 | 61.7 | 71.5 | 66.0 |
| 15 | 62.3 | 63.6 | 49.8 | 62.4 | 64.3 | 69.8 | 66.7 | 61.0 | 65.4 | 63.6 | 75.0 | 63.9 |
| 16 | 60.8 | 61.7 | 55.2 | 64.5 | 63.9 | 60.4 | 69.9 | 52.7 | 57.7 | 64.4 | 72.6 | 69.3 |
| 17 | 69.9 | 57.8 | 48.1 | 60.2 | 68.3 | 56.0 | 63.3 | 69.2 | 64.8 | 66.5 | 70.2 | 62.4 |
| 18 | 63.9 | 54.7 | 58.2 | 65.6 | 63.2 | 55.1 | 61.8 | 61.6 | 61.1 | 64.0 | 64.7 | 64.9 |
| 19 | 70.2 | 57.5 | 51.0 | 63.6 | | 53.9 | 65.4 | 67.4 | 63.5 | 57.6 | 66.5 | 67.0 |
| 20 | 66.4 | 59.0 | 57.6 | 67.4 | 59.5 | 52.2 | 68.6 | 64.3 | 66.8 | 52.6 | 65.8 | 56.9 |
| 21 | 61.0 | 59.5 | 60.3 | 67.3 | 60.8 | | 69.1 | 63.3 | 69.3 | 57.6 | 72.0 | 60.5 |
| 22 | 60.1 | 61.1 | 52.4 | 63.3 | 61.2 | 56.8 | 71.3 | 65.5 | 65.8 | 56.9 | 67.7 | 60.0 |
| 23 | 60.9 | 60.1 | 52.4 | 64.5 | | 60.2 | 60.9 | 70.3 | 64.8 | 61.2 | 68.5 | 62.0 |
| 24 | 61.4 | 55.8 | 51.3 | 65.0 | 71.0 | 59.6 | 65.3 | 63.9 | 63.7 | 63.6 | 65.3 | 58.5 |
| 25 | 65.6 | 58.0 | 53.3 | 70.5 | | 65.8 | 59.5 | 64.6 | 65.2 | 65.7 | 66.5 | 60.6 |
| 26 | 68.6 | 56.0 | 58.1 | 63.4 | | 55.7 | 63.6 | 61.8 | 70.3 | 67.8 | 66.8 | 63.5 |
| 27 | 62.0 | 53.0 | 56.7 | | 66.1 | 62.5 | 59.9 | 49.8 | 67.1 | 63.4 | 64.8 | 60.7 |
| 28 | 58.9 | 57.0 | 57.0 | 64.9 | | 58.8 | 56.2 | 59.3 | 71.0 | 63.4 | 65.8 | 62.2 |
| 29 | 56.9 | | 53.2 | 66.3 | 63.2 | 63.1 | 55.5 | 60.6 | 70.7 | 66.0 | 64.2 | 62.1 |
| 30 | 63.4 | | 56.0 | 65.3 | | 58.8 | 58.3 | 61.6 | 63.7 | 66.7 | 64.0 | 60.8 |
| 31 | 60.6 | | 59.9 | | 65.4 | | 62.5 | 64.2 | | 70.8 | | |
| Avg | 65.1 | 58.3 | 54.5 | 65.0 | 63.5 | 62.6 | 63.9 | 61.3 | 63.7 | 64.5 | 68.0 | 63.7 |
| Min | 56.9 | 51.4 | 48.1 | 56.6 | 59.0 | 52.2 | 55.5 | 49.8 | 54.1 | 52.6 | 63.7 | 56.9 |
| Max | 74.0 | 67.8 | 60.3 | 72.5 | 71.0 | 70.2 | 72.4 | 70.3 | 71.0 | 70.8 | 75.0 | 70.5 |

## Point Loma Wastewater Treatment Plant

# 2001 Systemwide BOD Removal (%)

## Combined Stream Sample Point



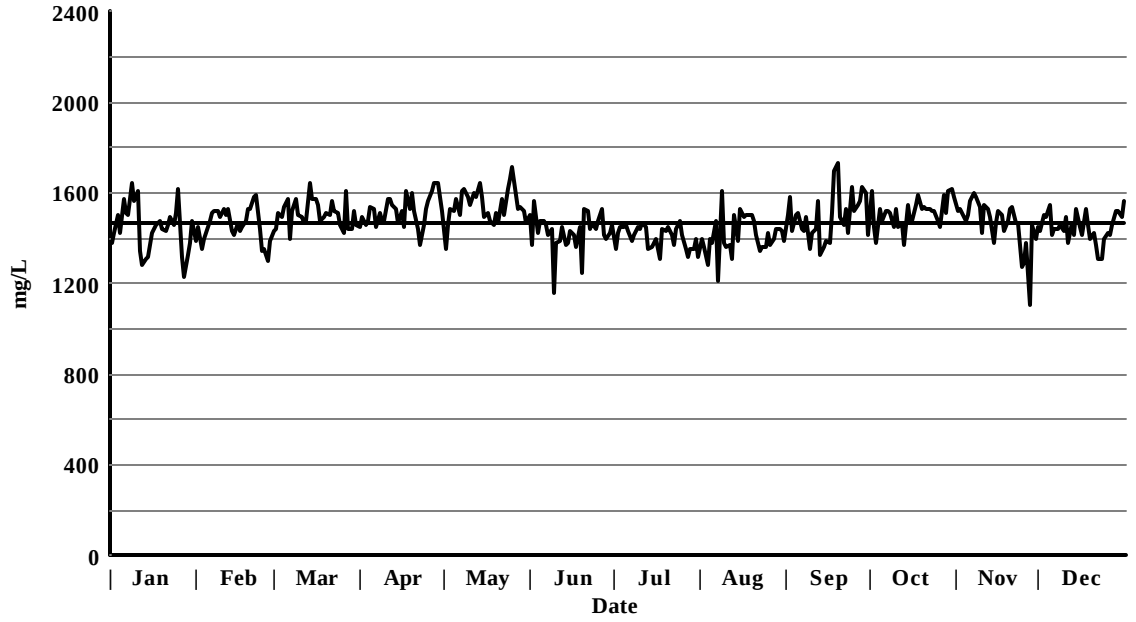
Point Loma Wastewater Treatment Plant

# 2001 BOD Systemwide Removals (%) Combined Stream Sample Point

| 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 | 64.0 | | 53.0 | 62.0 | 64.0 | | 62.0 | 64.0 | 71.0 | 71.0 | 69.0 | 63.0 |
| 2 | 72.0 | 65.0 | | | 65.0 | | 62.0 | 61.0 | 72.0 | 66.0 | 74.0 | 64.0 |
| 3 | 74.0 | 63.0 | 57.0 | 65.0 | 66.0 | 67.0 | 64.0 | 64.0 | 65.0 | 72.0 | 70.0 | |
| 4 | | | | 68.0 | 63.0 | | | 62.0 | 65.0 | 69.0 | 68.0 | 64.0 |
| 5 | | | 54.0 | 64.0 | | 67.0 | | 64.0 | 65.0 | | 66.0 | 71.0 |
| 6 | 68.0 | 69.0 | 57.0 | 65.0 | | 69.0 | 67.0 | 61.0 | 59.0 | 71.0 | 71.0 | 67.0 |
| 7 | 65.0 | | 55.0 | 66.0 | 63.0 | 73.0 | 65.0 | 61.0 | 60.0 | 66.0 | 69.0 | 70.0 |
| 8 | 71.0 | 57.0 | 53.0 | 64.0 | | 72.0 | 67.0 | 64.0 | 60.0 | 66.0 | | 69.0 |
| 9 | 75.0 | 62.0 | 58.0 | 66.0 | 66.0 | 70.0 | | 65.0 | 57.0 | 68.0 | 72.0 | 67.0 |
| 10 | | 61.0 | 59.0 | 70.0 | 65.0 | 70.0 | 71.0 | 66.0 | 62.0 | 71.0 | 69.0 | 68.0 |
| 11 | 65.0 | 59.0 | 48.0 | 73.0 | 68.0 | 72.0 | 66.0 | 62.0 | | 70.0 | 72.0 | 69.0 |
| 12 | 68.0 | 59.0 | | 56.0 | 63.0 | 71.0 | 75.0 | 63.0 | | 70.0 | 69.0 | 71.0 |
| 13 | 70.0 | 57.0 | 49.0 | 71.0 | 64.0 | 71.0 | 65.0 | 67.0 | 66.0 | 66.0 | 71.0 | 72.0 |
| 14 | 70.0 | | 53.0 | | 61.0 | 65.0 | 66.0 | 57.0 | 69.0 | 64.0 | 71.0 | 68.0 |
| 15 | 65.0 | 63.0 | 50.0 | | 66.0 | 72.0 | 70.0 | 64.0 | 67.0 | 66.0 | 76.0 | 65.0 |
| 16 | 63.0 | | 55.0 | 67.0 | 66.0 | 64.0 | 72.0 | 56.0 | 61.0 | 66.0 | 75.0 | 71.0 |
| 17 | 76.0 | | 48.0 | 62.0 | | 59.0 | 65.0 | 71.0 | 67.0 | 68.0 | 72.0 | 65.0 |
| 18 | 65.0 | 55.0 | 58.0 | 67.0 | 65.0 | 60.0 | 64.0 | 65.0 | 64.0 | 66.0 | 68.0 | 66.0 |
| 19 | 72.0 | 58.0 | 51.0 | 65.0 | | 55.0 | 67.0 | 70.0 | 65.0 | 60.0 | 69.0 | 70.0 |
| 20 | 70.0 | 59.0 | 58.0 | 68.0 | 62.0 | | 71.0 | 67.0 | 69.0 | | 68.0 | 59.0 |
| 21 | 64.0 | 63.0 | 60.0 | 68.0 | 63.0 | | 70.0 | 66.0 | 71.0 | | 74.0 | 63.0 |
| 22 | 65.0 | 65.0 | 52.0 | 63.0 | 63.0 | 60.0 | 73.0 | 68.0 | | 60.0 | 70.0 | 63.0 |
| 23 | 64.0 | 61.0 | 52.0 | 66.0 | | 63.0 | 65.0 | 71.0 | | 64.0 | 71.0 | 65.0 |
| 24 | 64.0 | 59.0 | 51.0 | 68.0 | 71.0 | 63.0 | 68.0 | 66.0 | | 66.0 | 68.0 | 62.0 |
| 25 | 68.0 | 59.0 | 53.0 | 72.0 | | 68.0 | 63.0 | 67.0 | 68.0 | | 67.0 | 64.0 |
| 26 | 68.0 | 60.0 | 58.0 | 66.0 | | 59.0 | 66.0 | 64.0 | 72.0 | | 70.0 | 66.0 |
| 27 | 63.0 | 53.0 | 57.0 | | 68.0 | 66.0 | 63.0 | 54.0 | 69.0 | 65.0 | 67.0 | 63.0 |
| 28 | 62.0 | 57.0 | 57.0 | 66.0 | | 59.0 | 59.0 | 63.0 | 73.0 | 66.0 | 66.0 | 64.0 |
| 29 | 60.0 | | 53.0 | 68.0 | 66.0 | 63.0 | 59.0 | 64.0 | 72.0 | 68.0 | 67.0 | 64.0 |
| 30 | 66.0 | | 56.0 | 68.0 | | 61.0 | 62.0 | 64.0 | 65.0 | | 66.0 | 64.0 |
| 31 | | | 60.0 | | | | 65.0 | 67.0 | | | | |
| Avg | 67.3 | 60.2 | 54.5 | 66.3 | 64.9 | 65.6 | 66.1 | 64.1 | 66.2 | 66.9 | 69.8 | 66.1 |
| Min | 60.0 | 53.0 | 48.0 | 56.0 | 61.0 | 55.0 | 59.0 | 54.0 | 57.0 | 60.0 | 66.0 | 59.0 |
| Max | 76.0 | 69.0 | 60.0 | 73.0 | 71.0 | 73.0 | 75.0 | 71.0 | 73.0 | 72.0 | 76.0 | 72.0 |

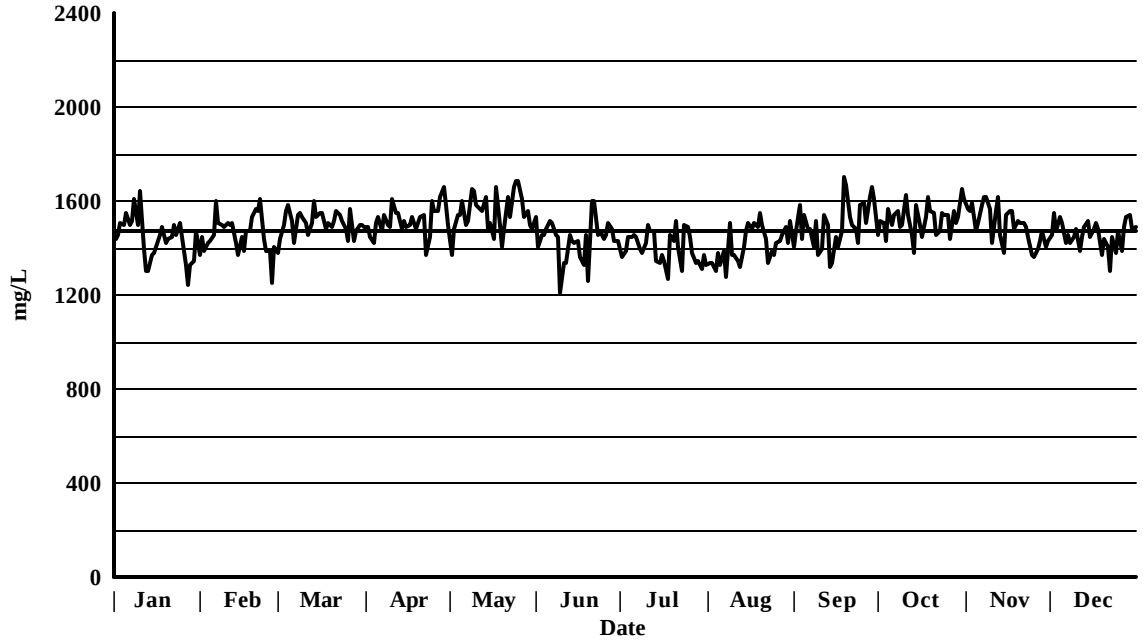
Point Loma Influent

## 2001 Total Dissolved Solids (mg/L)




Point Loma Effluent

## 2001 Total Dissolved Solids (mg/L)



Pt. Loma Wastewater Treatment Plant

# 2001 Total Dissolved Solids (mg/L)

| | Jan | | Feb | | Mar | | Apr | | May | | Jun | | Jul | | Aug | | Sep | | Oct | | Nov | | Dec | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Day | 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 | 1380 | 1440 | 1450 | 1450 | 1440 | 1440 | 1490 | 1490 | 1350 | 1370 | 1370 | 1410 | 1350 | 1360 | 1400 | 1340 | 1500 | 1470 | 1610 | 1520 | 1520 | 1570 | 1430 | 1460 |
| 2 | 1420 | 1460 | 1350 | 1390 | 1510 | 1500 | 1460 | 1450 | 1460 | 1480 | 1560 | 1460 | 1420 | 1390 | 1360 | 1340 | 1580 | 1580 | 1450 | 1510 | 1530 | 1560 | 1500 | 1550 |
| 3 | 1500 | 1510 | 1400 | 1420 | 1490 | 1560 | 1480 | 1420 | 1530 | 1540 | 1420 | 1460 | 1450 | 1450 | 1280 | 1300 | 1430 | 1440 | 1380 | 1430 | 1510 | 1590 | 1490 | 1470 |
| 4 | 1420 | 1500 | 1420 | 1430 | 1540 | 1580 | 1540 | 1510 | 1520 | 1540 | 1480 | 1480 | 1450 | 1450 | 1400 | 1380 | 1500 | 1540 | 1530 | 1570 | 1480 | 1470 | 1550 | 1530 |
| 5 | 1570 | 1550 | 1480 | 1460 | 1570 | 1520 | 1530 | 1530 | 1570 | 1600 | 1480 | 1520 | 1460 | 1460 | 1380 | 1330 | 1510 | 1480 | 1480 | 1500 | 1500 | 1510 | 1410 | 1510 |
| 6 | 1510 | 1500 | 1510 | 1600 | 1400 | 1420 | 1450 | 1470 | 1500 | 1500 | 1460 | 1510 | 1430 | 1450 | 1480 | 1390 | 1440 | 1480 | 1520 | 1540 | 1560 | 1580 | 1440 | 1420 |
| 7 | 1500 | 1520 | 1520 | 1510 | 1520 | 1540 | 1510 | 1540 | 1610 | 1520 | 1410 | 1460 | 1390 | 1400 | 1210 | 1280 | 1430 | 1410 | 1520 | 1560 | 1600 | 1620 | 1440 | 1460 |
| 8 | 1640 | 1610 | 1520 | 1500 | 1570 | 1550 | 1480 | 1500 | 1620 | 1650 | 1440 | 1450 | 1410 | 1380 | 1610 | 1510 | 1490 | 1520 | 1510 | 1490 | 1580 | 1620 | 1460 | 1420 |
| 9 | 1560 | 1500 | 1490 | 1490 | 1500 | 1530 | 1480 | 1490 | 1580 | 1640 | 1160 | 1210 | 1450 | 1420 | 1380 | 1370 | 1350 | 1370 | 1450 | 1500 | 1540 | 1570 | 1430 | 1450 |
| 10 | 1610 | 1640 | 1530 | 1510 | 1490 | 1510 | 1570 | 1610 | 1550 | 1580 | 1380 | 1340 | 1440 | 1500 | 1360 | 1370 | 1420 | 1400 | 1530 | 1630 | 1420 | 1420 | 1490 | 1480 |
| 11 | 1340 | 1400 | 1500 | 1500 | 1470 | 1460 | 1570 | 1550 | 1600 | 1570 | 1390 | 1340 | 1470 | 1470 | 1370 | 1350 | 1440 | 1540 | 1450 | 1540 | 1550 | 1560 | 1380 | 1390 |
| 12 | 1280 | 1300 | 1530 | 1510 | 1480 | 1510 | 1550 | 1550 | 1580 | 1560 | 1450 | 1460 | 1450 | 1470 | 1310 | 1320 | 1560 | 1500 | 1470 | 1460 | 1530 | 1620 | 1470 | 1450 |
| 13 | 1310 | 1300 | 1430 | 1420 | 1640 | 1600 | 1530 | 1480 | 1640 | 1620 | 1370 | 1430 | 1350 | 1350 | 1500 | 1410 | 1330 | 1320 | 1370 | 1380 | 1490 | 1460 | 1410 | 1490 |
| 14 | 1320 | 1370 | 1410 | 1370 | 1570 | 1530 | 1470 | 1520 | 1580 | 1480 | 1380 | 1420 | 1360 | 1340 | 1390 | 1470 | 1360 | 1340 | 1550 | 1580 | 1380 | 1380 | 1530 | 1520 |
| 15 | 1420 | 1380 | 1470 | 1450 | 1570 | 1550 | 1520 | 1490 | 1490 | 1510 | 1430 | 1430 | 1380 | 1370 | 1530 | 1510 | 1390 | 1450 | 1480 | 1500 | 1470 | 1540 | 1450 | 1450 |
| 16 | 1440 | 1430 | 1430 | 1390 | 1550 | 1550 | 1450 | 1500 | 1510 | 1440 | 1410 | 1360 | 1400 | 1350 | 1490 | 1480 | 1380 | 1410 | 1480 | 1450 | 1520 | 1560 | 1410 | 1480 |
| 17 | 1460 | 1460 | 1450 | 1470 | 1480 | 1480 | 1610 | 1530 | 1480 | 1660 | 1360 | 1330 | 1310 | 1270 | 1500 | 1510 | 1510 | 1470 | 1550 | 1530 | 1500 | 1560 | 1530 | 1510 |
| 18 | 1480 | 1490 | 1480 | 1470 | 1490 | 1510 | 1530 | 1480 | 1460 | 1500 | 1450 | 1460 | 1440 | 1460 | 1500 | 1490 | 1700 | 1700 | 1590 | 1620 | 1430 | 1480 | 1460 | 1480 |
| 19 | 1440 | 1420 | 1530 | 1530 | 1510 | 1490 | 1600 | 1510 | 1510 | 1410 | 1250 | 1260 | 1430 | 1430 | 1500 | 1550 | 1730 | 1670 | 1530 | 1560 | 1480 | 1520 | 1400 | 1370 |
| 20 | 1430 | 1440 | 1530 | 1570 | 1500 | 1520 | 1520 | 1530 | 1470 | 1480 | 1530 | 1600 | 1450 | 1520 | 1480 | 1500 | 1490 | 1530 | 1540 | 1550 | 1530 | 1510 | 1420 | 1440 |
| 21 | 1460 | 1450 | 1580 | 1560 | 1560 | 1560 | 1440 | 1540 | 1570 | 1620 | 1520 | 1600 | 1410 | 1410 | 1410 | 1440 | 1460 | 1500 | 1530 | 1460 | 1540 | 1510 | 1370 | 1410 |
| 22 | 1490 | 1500 | 1590 | 1610 | 1520 | 1540 | 1370 | 1370 | 1500 | 1530 | 1440 | 1460 | 1370 | 1300 | 1340 | 1340 | 1530 | 1480 | 1530 | 1470 | 1470 | 1490 | 1310 | 1300 |
| 23 | 1460 | 1460 | 1440 | 1440 | 1510 | 1520 | 1460 | 1450 | 1620 | 1660 | 1470 | 1470 | 1440 | 1500 | 1360 | 1390 | 1420 | 1420 | 1520 | 1550 | 1470 | 1450 | 1310 | 1450 |
| 24 | 1510 | 1510 | 1340 | 1390 | 1460 | 1480 | 1530 | 1600 | 1660 | 1690 | 1440 | 1440 | 1480 | 1490 | 1360 | 1370 | 1630 | 1580 | 1520 | 1540 | 1270 | 1370 | 1400 | 1380 |
| 25 | 1620 | 1450 | 1350 | 1390 | 1420 | 1430 | 1560 | 1560 | 1710 | 1690 | 1480 | 1460 | 1410 | 1450 | 1420 | 1420 | 1520 | 1590 | 1480 | 1540 | 1290 | 1360 | 1420 | 1470 |
| 26 | 1320 | 1330 | 1300 | 1250 | 1610 | 1570 | 1610 | 1560 | 1590 | 1610 | 1530 | 1510 | 1350 | 1380 | 1370 | 1430 | 1550 | 1510 | 1450 | 1440 | 1380 | 1400 | 1410 | 1390 |
| 27 | 1230 | 1240 | 1390 | 1410 | 1440 | 1430 | 1640 | 1620 | 1530 | 1530 | 1410 | 1480 | 1320 | 1340 | 1400 | 1460 | 1560 | 1620 | 1590 | 1560 | 1110 | 1430 | 1460 | 1490 |
| 28 | 1330 | 1330 | 1430 | 1380 | 1440 | 1470 | 1640 | 1660 | 1540 | 1560 | 1400 | 1430 | 1350 | 1350 | 1440 | 1490 | 1630 | 1660 | 1510 | 1510 | 1460 | 1470 | 1520 | 1530 |
| 29 | 1380 | 1350 | | | 1520 | 1500 | 1580 | 1580 | 1520 | 1500 | 1420 | 1430 | 1350 | 1310 | 1440 | 1420 | 1600 | 1610 | 1610 | 1530 | 1400 | 1410 | 1520 | 1540 |
| 30 | 1480 | 1470 | | | 1460 | 1500 | 1520 | 1500 | 1470 | 1480 | 1460 | 1400 | 1400 | 1370 | 1430 | 1520 | 1410 | 1460 | 1620 | 1650 | 1450 | 1430 | 1490 | 1480 |
| 31 | 1390 | 1370 | | | 1450 | 1490 | | | 1500 | 1530 | | | 1320 | 1330 | 1390 | 1410 | | | 1580 | 1610 | | | 1560 | 1490 |
| Avg | 1442 | 1441 | 1459 | 1460 | 1506 | 1511 | 1523 | 1520 | 1543 | 1550 | 1425 | 1436 | 1403 | 1404 | 1413 | 1416 | 1495 | 1502 | 1514 | 1525 | 1465 | 1501 | 1447 | 1460 |
| Min | 1230 | 1240 | 1300 | 1250 | 1400 | 1420 | 1370 | 1370 | 1350 | 1370 | 1160 | 1210 | 1310 | 1270 | 1210 | 1280 | 1330 | 1320 | 1370 | 1380 | 1110 | 1360 | 1310 | 1300 |
| Max | 1640 | 1640 | 1590 | 1610 | 1640 | 1600 | 1640 | 1660 | 1710 | 1690 | 1560 | 1600 | 1480 | 1520 | 1610 | 1550 | 1730 | 1700 | 1620 | 1650 | 1600 | 1620 | 1560 | 1550 |

E. Toxicity Bioassays.

**Point Loma Ocean Outfall 2001**
**Toxicity Testing**

The City of San Diego conducts aquatic bioassays as required by the City's National Pollutant Discharge Elimination System permit (No. CA0107409 and Order No. 95-106). This testing is designed to determine the acute and chronic toxicity of effluent samples collected from the Point Loma Wastewater Treatment Plant. This chapter presents summaries and discussion of toxicity testing conducted in 2001.

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

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

## MATERIALS & METHODS

### Test Material

Twenty-four hour, flow-weighted, effluent composite samples were collected at the Point Loma Wastewater Treatment Plant and stored at 4EC until test initiation. All tests were conducted within 36 hours of sample collection. The acute toxicity test concentrations were 18, 32, 56, 75, and 100% effluent for the fathead minnow and *Ceriodaphnia* (water flea) tests, and 3.87, 7.75, 15.5, 31.0, and 62% (nominal) for the topsmelt and mysid tests. Dilution water for the effluent acute toxicity bioassays consisted of carbon filtered, aerated, and dechlorinated tap water for the fathead minnow tests, and dilute mineral water for the *Ceriodaphnia* tests. Dilution water for the acute topsmelt and mysid tests consisted of the same receiving water used in the chronic toxicity tests.

Chronic toxicity test concentrations were 0.15, 0.27, 0.49, 0.88, and 1.56% effluent. The protocols for the chronic bioassays specify the use of unimpacted receiving water as dilution water. Receiving water was collected within 24 hours of test initiation at water quality station B8 (see City of San Diego 2002). The receiving water samples were collected from a depth of 2 m and stored at 15EC until test initiation. Dilution water for chronic reference toxicant testing was obtained from the Scripps Institution of Oceanography (SIO) within 96 hours of test initiation, filtered, and held at 15EC. Detailed methodology for all toxicity testing can be found in the City of San Diego (2000).

### Acute Bioassays

***Fathead Minnow Survival Bioassay***
Fathead minnow acute bioassays were conducted in accordance with USEPA protocol EPA/600/4-85/013 (USEPA 1985). The test organisms, *Pimephales promelas*, were purchased from Aquatic Bio Systems (Fort Collins, Colorado). Juvenile fish approximately 60-90 days old were exposed for 96 hours to the test material while being kept in a static non-renewal system where the test solutions were aerated, but otherwise left undisturbed throughout the test period.

Simultaneous reference toxicant testing was performed using sodium dodecyl sulfate (SDS). Test concentrations were 10, 18 and 32 mg/L SDS. Upon the conclusion of the exposure period, percent survival was recorded.

Tests were declared valid if control mortality did not exceed 10%. The data were analyzed using a multiple comparison procedure and linear interpolation method prescribed by USEPA (1985). ToxCalc software (Tidepool Scientific Software 1994) was used for all statistical analyses.

***Ceriodaphnia Survival Bioassay***
*Ceriodaphnia* acute bioassays were conducted in accordance with USEPA protocol EPA/600/4-90/027F (USEPA 1993). The test organisms, *Ceriodaphnia dubia*, were cultured in-house at the bioassay laboratory. Newly released (< 24 hr) neonates were exposed for 48 hours to a series of effluent and reference toxicant concentrations while being kept in a static system.

Simultaneous reference toxicant testing was performed using reagent grade copper chloride. The concentrations of copper in the exposure series were 3, 6, 12, 24 and 48 Fg/L. Upon conclusion of the exposure period, percent survival was recorded. Tests were declared valid if control mortality did not exceed 10%. The data were analyzed using a multiple comparison procedure and point estimation method prescribed by USEPA (1993). ToxCalc software (Tidepool Scientific Software 1994) was used for all statistical analyses.

***Topsmelt Survival Bioassay***
The topsmelt acute bioassay was conducted in accordance with USEPA protocol EPA/600/4-90/027F (USEPA 1993) by EVS Environment consultants (N. Vancouver, BC) and the City's bioassay laboratory. Larval *Atherinops affinis* (9-14 days old) were purchased from Aquatic Bio Systems (Fort Collins, CO), and were exposed for 48 hours in a static system to 3.83, 7.75, 15.5, 31.0 and 62% effluent (nominal).

Simultaneous reference toxicant testing was performed using reagent grade copper chloride. Test concentrations consisted of 56, 100, 180, 320 and 560 Fg/L copper. Dilution water for chronic reference toxicant testing was obtained from SIO within 96 hours of test initiation, filtered, and held at 15EC. Upon conclusion of the exposure period, percent survival was recorded. Tests were declared valid if control mortality did not exceed 10%. The data were analyzed using a multiple comparison procedure and point estimation method prescribed by USEPA (1993). ToxCalc software (Tidepool Scientific Software 1994) was used for all statistical analyses.

***Mysid Survival Bioassay***
The mysid acute bioassay was conducted in accordance with USEPA protocol EPA/600/4-90/027F (USEPA 1993) by EVS Environment consultants (N. Vancouver, BC) and the City's bioassay laboratory. Larval *Mysidopsis bahia* (4-5 days old) were purchased from Aquatic Bio Systems (Fort Collins, CO), and were exposed for 48 hours in a static system to 3.83, 7.75, 15.5, 31.0 and 62% effluent (nominal).

Simultaneous reference toxicant testing was performed using reagent grade copper chloride. Test concentrations consisted of 56, 100, 180, 320, and 560 Fg/L copper. Dilution water for chronic reference toxicant testing was obtained from SIO within 96 hours of test initiation, filtered, and held at 15EC. Upon conclusion of the exposure period, percent survival was recorded. Tests were declared valid if control mortality did not exceed 10%. The data were analyzed using a multiple comparison procedure and point estimation method prescribed by USEPA (1993). ToxCalc software (Tidepool Scientific Software 1994) was used for all statistical analyses.

**Chronic Bioassays**

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

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

The data were analyzed in accordance with "Flowchart for statistical analysis of giant kelp, *Macrocystis pyrifera*, germination data" and "Flowchart for statistical analysis of giant kelp, *Macrocystis pyrifera*, growth data" (see USEPA 1995). ToxCalc software (Tidepool Scientific Software 1994) was used for all statistical analyses.

***Red Abalone Development Bioassay***
Chronic bioassays using the red abalone, *Haliotis rufescens*, were conducted in accordance with USEPA protocol EPA/600/R-95/136 (USEPA 1995). Test organisms were purchased from Cultured Abalone (Goleta, California), and shipped via overnight delivery to the City's bioassay laboratory. Mature male and female abalone were placed in natural seawater tanks at 15EC. Prior to test initiation, spawning was induced and abalone eggs and sperm were retained for the analysis. Subsequently, the eggs were fertilized, and a known quantity of fertilized embryos was added to each test replicate at the beginning of the exposure period. The resulting abalone larvae were then exposed to the test material for a period of 48 hours while being maintained in a static system.

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 Fg/L. A reference toxicant control consisting of SIO dilution water was also tested. Upon the conclusion of the exposure period, percent normal embryo development was recorded.

The percentage of normally developed embryos for each replicate was arcsine square root transformed. The data were analyzed in accordance with "Flowchart for statistical analysis of red abalone *Haliotis rufescens*, development data" (see USEPA 1995). ToxCalc software (Tidepool Scientific Software 1994) was used for all statistical analyses.

***Topsmelt Survival and Growth Bioassay***
Chronic bioassays using larvae of the topsmelt, *Atherinops affinis*, were conducted in accordance with USEPA protocol EPA/600/R-95/136 (USEPA 1995). Fish larvae were purchased from Aquatic Bio Systems (Fort Collins, CO), and shipped via overnight delivery to the City's bioassay laboratory. Prior to test initiation, the test organisms were held in seawater tanks at 20EC. The bioassays were subsequently initiated when the topsmelt larvae were 9-14 days old. Larval fish were then exposed to a series of effluent and reference toxicant concentrations for a period of seven days while being maintained in a static system.

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 Fg/L. A separate control consisting of SIO dilution water was also tested. Upon conclusion of the exposure period, the percent survival and the percent growth (i.e., weight gain) of larval fish were recorded.

The survival data were arcsine square root transformed and then analyzed in accordance with the "Flowchart for statistical analysis of the topsmelt, *Atherinops affinis*, larval survival data" (USEPA 1995). Growth data were analyzed in accordance with the "Flowchart for statistical analysis of the topsmelt, *Atherinops affinis*, larval growth data" (USEPA 1995). ToxCalc software (Tidepool Scientific Software 1994) was used for all statistical analyses.

## RESULTS & DISCUSSION

### Acute Bioassays

Fathead minnows (*Pimephales promelas*) and freshwater water fleas (*Ceriodaphnia dubia*) were screened in February 2001 to verify test species sensitivity. The results demonstrated *Ceriodaphnia* to be the most sensitive test species (Table T.1). The City continued to perform toxicity test using both species, since fathead minnows had been the most sensitive test species until recent years. The toxic unit acute (TUa) values for the fathead minnows averaged 1.2 TUa and, with one exception, were within established NPDES limits throughout 2001 (Table T.2). In contrast, the *Ceriodaphnia* tests averaged 1.5 TUa for the year and exceeded the NPDES permit limits on a number of occasions, most notably in the 30-day average category (Table T.3). During calendar year 2001, the *Ceriodaphnia* acute toxicity tests were conducted on a weekly basis to better characterize the persistence and source of toxicity. The increased test frequency did not produce a discernable pattern of toxicity as the incidences of toxicity were clearly sporadic and short-lived.

As stated in the City's 2000 receiving water monitoring report (City of San Diego 2001), the State of California has revised acute testing procedures for ocean dischargers. The new California Ocean Plan (COP) requires utilization of marine species instead of freshwater species. The document was approved by the Office of Administrative Law (OAL) and the EPA in December of 2001.

The City initiated monthly testing using the new procedures and two marine species (i.e., the topsmelt, *Atherinops affinis* and mysid, *Mysidopsis bahia*) in December 2000. The average TUa value for both the topsmelt and mysid was 2.6, and the results for each test demonstrated complete compliance with the new standards (Table T.4).

### Chronic Bioassays

An annual screening of three species was conducted to verify sensitivity of the selected test organisms to Point Loma effluent. Giant kelp (*Macrocystis pyrifera)*, red abalone (*Haliotis rufescens*), and topsmelt (*Atherinops affinis*) were screened and the results of these comparative bioassays are summarized in Table T.1. The results indicated that giant kelp was the most sensitive to effluent from the Point Loma Wastewater Treatment Plant. However, the City has also continued to use red abalone as a routine test organism due to its ecological importance to the region. Consequently, monthly chronic bioassays on effluent samples were conducted using both kelp and abalone.

The giant kelp and red abalone chronic toxicity tests conducted during 2001 are summarized in Table T.5. These results indicated that, with one exception, all bioassays were within established NPDES permit limits throughout the year.

## LITERATURE CITED


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**Table T.1**
Results of the annual screening bioassays conducted during February 2001 to verify the sensitivity of the selected test organisms. Data are presented as median lethal concentration ($LC_{50}$) for acute bioassays and as No Observed Effect Concentration (NOEC) for chronic bioassays.

***Acute***

| Test Species | End-point determination | Test Results ($LC_{50}$) |
|---|---|---|
| Fathead Minnow | Percent survival | 79.4 |
| *Ceriodaphnia dubia* (Water flea) | Percent survival | 61.6 |

***Chronic***

| Test Species | End-point determination | Test Results (NOEC) |
|---|---|---|
| Giant Kelp | Percent germination | 0.88 |
| | Germ-tube length | 1.56 |
| Red Abalone | Percent normal development | 1.56 |
| Topsmelt | Percent survival | 1.56 |
| | Growth | 1.56 |

**Table T.2**
Results and compliance summary for the acute toxicity testing of Point Loma Wastewater Plant effluent using the fathead minnow, *Pimephales promelas*, from January to December 2001. Data are presented in toxic unit acute (TUa) values. Numbers in parentheses indicate NPDES limits.

| Sample Date | Daily (2.5) | 7-day average (2.0) | 30-day average (1.5) |
|---|---|---|---|
| 6-Jan | 1.2 | 1.2 | 1.2 |
| 7-Feb | 1.3 | 1.3 | 1.3 |
| 3-Mar | 1.2 | 1.2 | 1.3 |
| 15-Apr | 1.2 | 1.2 | 1.2 |
| 6-May | 1.2 | 1.2 | 1.2 |
| 15-Jun | 1.2 | 1.2 | 1.2 |
| 9-Jul | 1.1 | 1.1 | 1.2 |
| 2-Aug | 1.4 | 1.4 | 1.3 |
| 26-Sep | 1.6 | 1.6 | 1.6 |
| 5-Oct | 0.8 | 0.8 | 1.2 |
| 17-Oct | 0.9 | 0.9 | 1.1 |
| 31-Oct | 0.8 | 0.8 | 0.8 |
| 6-Nov | 1.0 | 0.9 | 0.9 |
| 14-Nov | 1.1 | 1.1 | 1.0 |
| 27-Nov | 1.2 | 1.2 | 1.0 |
| 8-Dec | 1.2 | 1.2 | 1.2 |
| N | 16 | 16 | 16 |
| No. in Compliance | 16 | 16 | 15 |

**Table T.3**
Results and compliance summary for the acute toxicity testing of Point Loma Wastewater Plant effluent using the water flea, *Ceriodaphnia dubia*, from January to December 2001. Data are presented in toxic unit acute (TUa) values. Numbers in parentheses indicate NPDES limits.

| Sample Date | Daily (2.5) | 7-day average (2.0) | 30-day average (1.5) |
|---|---|---|---|
| 3-Jan | 1.1 | 1.1 | 1.9 |
| 6-Jan | 1.4 | 1.3 | 2.0 |
| 9-Jan | 1.9 | 1.6 | 2.0 |
| 17-Jan | 1.5 | 1.5 | 1.9 |
| 24-Jan | 1.4 | 1.4 | 1.6 |
| 30-Jan | 1.8 | 1.6 | 1.5 |
| 7-Feb | 1.6 | 1.6 | 1.6 |
| 12-Feb | 1.9 | 1.8 | 1.6 |
| 22-Feb | 1.6 | 1.6 | 1.7 |
| 26-Feb | 1.7 | 1.7 | 1.7 |
| 3-Mar | 1.8 | 1.8 | 1.7 |
| 13-Mar | 1.4 | 1.4 | 1.6 |
| 21-Mar | 1.7 | 1.7 | 1.6 |
| 28-Mar | 1.6 | 1.7 | 1.6 |
| 4-Apr | 1.9 | 1.9 | 1.7 |
| 11-Apr | 1.8 | 1.8 | 1.7 |
| 18-Apr | 1.4 | 1.4 | 1.7 |
| 25-Apr | 1.2 | 1.2 | 1.6 |
| 2-May | 1.6 | 1.6 | 1.6 |
| 6-May | 1.2 | 1.4 | 1.5 |
| 16-May | 1.3 | 1.3 | 1.3 |
| 22-May | 2.7 | 2.0 | 1.6 |
| 30-May | 1.2 | 1.2 | 1.6 |
| 6-Jun | 1.1 | 1.1 | 1.6 |
| 15-Jun | 1.3 | 1.3 | 1.6 |
| 20-Jun | 1.3 | 1.3 | 1.5 |
| 27-Jun | 1.4 | 1.4 | 1.3 |
| 3-Jul | 1.8 | 1.6 | 1.4 |
| 9-Jul | 1.7 | 1.8 | 1.5 |
| 18-Jul | 1.2 | 1.2 | 1.5 |
| 24-Jul | 1.3 | 1.3 | 1.5 |
| 2-Aug | 2.4 | 2.4 | 1.7 |
| 8-Aug | 2.4 | 2.4 | 1.8 |
| 15-Aug | 1.4 | 1.4 | 1.7 |
| 22-Aug | 2.4 | 2.4 | 2.0 |
| 27-Aug | 1.4 | 1.9 | 2.0 |
| 5-Sep | 1.2 | 1.2 | 1.8 |
| 11-Sep | 1.2 | 1.2 | 1.5 |
| 19-Sep | 1.3 | 1.3 | 1.5 |
| 25-Sep | 1.1 | 1.2 | 1.2 |
| 5-Oct | 1.0 | 1.0 | 1.2 |
| 8-Oct | 1.1 | 1.1 | 1.1 |
| 17-Oct | 0.7 | 0.7 | 1.0 |
| 24-Oct | 1.2 | 1.2 | 1.0 |
| 31-Oct | 2.2 | 2.2 | 1.2 |
| 6-Nov | 1.3 | 1.8 | 1.3 |
| 14-Nov | 0.9 | 0.9 | 1.3 |
| 19-Nov | 1.1 | 1.0 | 1.3 |
| 27-Nov | 1.0 | 1.0 | 1.3 |
| 5-Dec | 1.3 | 1.3 | 1.1 |

**Table T.3**
Results and compliance summary for the acute toxicity testing of Point Loma Wastewater Plant effluent using the water flea, *Ceriodaphnia dubia*, from January to December 2001. Data are presented in toxic unit acute (TUa) values. Numbers in parentheses indicate NPDES limits.

| Sample Date | Daily (2.5) | 7-day average (2.0) | 30-day average (1.5) |
|---|---|---|---|
| 8-Dec | 1.0 | 1.2 | 1.1 |
| 19-Dec | 1.1 | 1.1 | 1.1 |
| 27-Dec | 3.2 | 3.2 | 1.7 |
| N | 53 | 53 | 53 |
| No. in compliance | 51 | 48 | 24 |

**Table T.4.**
Results and compliance summary of acute bioassays conducted during January-December 2001 using the new California Ocean Plan approved marine species. Data are presented in toxic unit acute (TUa) values. The new California Ocean Plan compliance limit will be 6.5 TUa. All tests were conducted with B-8 receiving water as dilution unless otherwise indicated. n.t. = Not tested

| Sample Date | Topsmelt 48-Hour Bioassay | Mysid 48-Hour Bioassay |
|---|---|---|
| 17-Jan | 3.0 | 3.7 |
| 7-Feb | 2.8 | 6.1 |
| 3-Mar | 2.6 | 3.4 |
| 14-Mar | 3.2 | 2.9 |
| 4-Apr | 1.7 | <1.5 |
| 6-May | 2.3 | 2.2 |
| 15-Jun | n.t. | 2.1 |
| 27-Jun | 3.7 | n.t. |
| 9-Jul | n.t. | 1.9 |
| 18-Jul | 3.2 | n.t. |
| 2-Aug | 4.0 | 3.4 |
| 15-Aug | 3.1 (2.5 with SIO dilution) | n.t. |
| 22-Aug | 2.3 (2.5 with SIO dilution) | n.t. |
| 27-Aug | n.t. (2.4 with SIO dilution) | n.t. |
| 11-Sep | 2.1 | 2.1 |
| 5-Oct | <1.5 | 2.1 |
| 6-Nov | 1.9 | 1.3 |
| 8-Dec | 2.1 | 1.6 |
| N | 15 | 13 |
| No. in compliance | 15 | 13 |

**Table T.5**
Results of chronic toxicity testing of Point Loma Wastewater Plant effluent from January to December 2001. Data are presented in toxic unit chronic (TUc) values. NPDES permit limit is 205 Tuc. n.t. = Not tested. n.v. = Not valid

| | Giant Kelp Bioassay | | Red Abalone Bioassay |
|---|---|---|---|
| Sample date | % Germination | Germ-tube Length | % Normal Development |
| 6-Jan | 64 | 64 | n.t. |
| 30-Jan | n.t. | n.t. | 64 |
| 7-Feb | 114 | 64 | 64 |
| 3-Mar | 114 | 204 | 64 |
| 1-Apr | 114 | 64 | 64 |
| 6-May | 64 | 204 | 64 |
| 15-Jun | 64 | 114 | n.v. |
| 27-Jun | n.t. | n.t. | 64 |
| 9-Jul | 64 | 204 | n.v. |
| 18-Jul | n.t. | n.t. | 64 |
| 2-Aug | 64 | 204 | 64 |
| 11-Sep | 204 | 64 | 64 |
| 5-Oct | 114 | 64 | n.v. |
| 17-Oct | n.t. | n.t. | 64 |
| 6-Nov | 114 | 370 | 64 |
| 21-Nov | 64 | 64 | n.t. |
| 8-Dec | 64 | 64 | n.v. |
| 18-Dec | 64 | 64 | n.v. |
| N | 14 | 14 | 11 |
| No in compliance | 14 | 13 | 11 |
| Mean TUc | 92 | 129 | 64 |