VI. Annual Pretreatment Program Analyses

2011 Annual Pretreatment Program Analyses
(QUARTERLY SLUDGE PROJECT)

The Quarterly Sludge Project is part of the Pt. Loma WWTP NPDES (Permit No. CA0107409/Order No. R9-2009-0001) monitoring requirements. The sampling plan is designed so as to provide a “snapshot” of all of the physical and chemical characteristics monitored of the wastewater treatment waste streams for a short interval of time (1-2 days). This is conducted quarterly.

The Quarterly Sludge Project was conducted four times during 2011. Sampling occurred on February 01, May 03, August 02, and October 04. Monthly composite samples of MBC dewatered sludge during the respective calendar months were taken and analyzed for a similar suite of parameters. The tables showing the results of these analyses follow in this section.

Pt. Loma WWTP Influent (PLR) and effluent (PLE) sewage are flow-proportioned 24-hr composites* taken by a refrigerated automatic continuous autosampler over the 24-hr periods from midnight to midnight of the sampling days. Two days of sampling were required for all of the required samples. The sampling locations are the influent and effluent channels.

Digested and raw sludge are sampled by operations staff and composited by the laboratory. The digested sludge sample is composited from 12 manual grab samples collected at two-hour intervals from Digester 7. The raw sludge sample is composited from 12 manual grabs collected at two hour intervals.

The Metro Biosolids Center (MBC) uses a centrifuge dewatering process, the MBC centrate is the return stream source. This is a 24-hr composite collected with the refrigerated automatic composite sampler currently installed on the MBC combined centrate return stream line. MBC_NC_DSL and MBC_NC_RSL are the MBC Digested Sludge Line and NCWRP to MBC Raw Sludge Line respectively; MBC_NC_DSL composite sample was compiled from grabs collected every 2 hours for the 24 hours of the sampling program each quarter while MBC_NC_RSL is a 24-hr composite collected with the refrigerated automatic composite sampler.

Quarterly Sludge Project data for the North City Water Reclamation Plant and the South Bay Water Reclamation Plant are reported in the Pretreatment monitoring sections of the Annuals submitted under separate cover for each of these facilities.

* pH, Grease & Oils, temperature, and conductivity are determined from grab samples.

Abbreviations:

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<th>Pt Loma WWTP influent.</th>
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<th>Pt. Loma raw sludge composite</th>
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<td>MBC_COMBCN</td>
<td>MBC combined centrate from dewatering centrifuges.</td>
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<td>MBC_NC_DSL</td>
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A.  Point Loma Wastewater Treatment Plant and Metro Biosolids Center Sources

POINT LOMA WASTEWATER TREATMENT PLANT
Physical/Aggregate Properties Report
2011 Annual

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NR= Not required
## Physical/Aggregate Properties Report

### 2011 Annual

#### TG 41

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NR= Not required
### POINT LOMA WASTEWATER TREATMENT PLANT
### Physical/Aggregate Properties Report
### 2011 Annual

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NR= Not required
# Quarterly Sludge Project

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

**MBC_COMBCN** = Combined Sludge Centrate
**MBC_NC_DSL** = Combined North City Digested Sludge Line
**MBC_NC_RSL** = Combined North City Raw Sludge Line
## PRETREATMENT PROGRAM
### 2011 Annual

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PLR  PLR  PLR  PLR

**Sample ID:**
MDL 01-FEB-2011 03-MAY-2011 02-AUG-2011 04-OCT-2011

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**ND= Not Detected**
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**MBC_COMBCN = Combined Sludge Centrate**
**MBC_NC_DSL = Combined North City Digested Sludge Line**
**MBC_NC_RSL = Combined North City Raw Sludge Line**
# Point Loma Wastewater Treatment Plant
## Quarterly Sludge Project
(Metals from Digestion and Ions from Supernatant)

### 2011 Annual

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| Aluminum | 47 UG/L | 1690 | 884 | 641 | 3160 |
| Antimony | 2.9 UG/L | ND | ND | ND | ND |
| Arsenic | .4 UG/L | 4.32 | 2.40 | 1.73 | 3.24 |
| Barium | .039 UG/L | 102 | 115 | 98 | 231 |
| Beryllium | .022 UG/L | <0.02 | 0.06 | ND | ND |
| Boron | 7 UG/L | 405 | 358 | 364 | 406 |
| Cadmium | .53 UG/L | ND | ND | ND | 1.0 |
| Chromium | 1.2 UG/L | 9.4 | 7.2 | 6.3 | 28.0 |
| Cobalt | .85 UG/L | 3.0 | 4.5 | 3.6 | 5.6 |
| Copper | 2 UG/L | 113 | 112 | 73 | 366 |
| Iron | 37 UG/L | 30900 | 28800 | 24800 | 50400 |
| Lead | 2 UG/L | ND | 3 | ND | 8 |
| Manganese | .24 UG/L | 348 | 268 | 258 | 364 |
| Mercury | .5 UG/L | 0.110 | 0.201 | 0.536 | 0.342 |
| Molybdenum | .89 UG/L | 5.9 | 5.5 | 7.4 | 14.1 |
| Nickel | .53 UG/L | 31 | 28 | 27 | 38 |
| Selenium | .28 UG/L | 1.85 | 2.80 | 1.36 | 2.40 |
| Silver | .4 UG/L | 0.4 | ND | ND | 3.2 |
| Thallium | 3.9 UG/L | ND | ND | ND | ND |
| Vanadium | .64 UG/L | 2.8 | 3.7 | 4.0 | 15.7 |
| Zinc | 2.5 UG/L | 122 | 148 | 116 | 533 |

| Calcium | .04 MG/L | 159 | 84 | 127 | 161 |
| Lithium | .002 MG/L | 0.04 | 0.03 | 0.04 | 0.03 |
| Magnesium | .1 MG/L | 62 | 35 | 60 | 64 |
| Potassium | .3 MG/L | 51 | 29 | 45 | 46 |
| Sodium | 1 MG/L | 287 | 171 | 277 | 331 |

| Calcium Hardness | .1 MG/L | 1.09 | 1.05 | 1.11 | 1.40 |
| Chloride | 7 MG/L | 877 | 850 | 1040 | 1040 |
| Fluoride | .05 MG/L | 0.37 | 0.56 | 0.52 | 0.58 |
| Nitrate | .04 MG/L | 0.55 | 0.21 | 0.18 | 0.26 |
| Ortho Phosphate | .2 MG/L | 8.73 | 4.67 | 1.93 | 2.65 |
| Sulfate | 9 MG/L | 68 | 52 | 27 | 26 |

| Cyanides,Total | .002 MG/L | 0.006 | 0.004 | 0.008 | 0.006 |
| Sulfdies-Total | .18 MG/L | 1.51 | 3.24 | 19.40 | 6.93 |
| Total Kjeldahl Nitrogen | 1.6 MG/L | 402.0 | 434.0 | 543.0 | 446.0 |

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NR= Not Required

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MBC_NC_RSL = Combined North City Raw Sludge Line
# POINT LOMA WASTEWATER TREATMENT PLANT
## QUARTERLY SLUDGE PROJECT
### (Metals from Digestion and Ions from Supernatant)
#### 2011 Annual

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| Cyanides,Total | .002 MG/L | 0.014 | 0.013 | 0.006 | 0.013 |
| Sulfides-Total | .18 MG/L | 294.00 | 373.00 | 518.00 | 474.00 |
| Sulfides-Reactive | 11 MG/KG | 95 | 104 | 152 | 145 |
| Total Kjeldahl Nitrogen | 1.6 MG/L | 1930.0 | 2060.0 | 1430.0 | 1700.0 |

ND= Not Detected  
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NR= Not Required

**MBC_COMBCN** = Combined Sludge Centrate  
**MBC_NC_DSL** = Combined North City Digested Sludge Line  
**MBC_NC_RSL** = Combined North City Raw Sludge Line
### Pretreatment Program 6.313

**2011 Annual**

#### Source: MBC_NC_RSL

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**ND= Not Detected**
**NA= Not Analyzed**
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**NR= Not Required**

**MBC_COMBCN = Combined Sludge Centrate**
**MBC_NC_DSL = Combined North City Digested Sludge Line**
**MBC_NC_RSL = Combined North City Raw Sludge Line**
# Point Loma Wastewater Treatment Plant
## Quarterly Sludge Project
(Metals from Digestion and Ions from Supernatant)

### 2011 Annual

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<thead>
<tr>
<th>Sample ID:</th>
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<th>02-Aug-2011</th>
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### Other Ions

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### Total Kjeldahl Nitrogen

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<th>02-Aug-2011</th>
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ND= Not Detected
NA= Not Analyzed
NS= Not Sampled
NR= Not Required

RAW COMP = Point Loma Raw Sludge Composite
DIG COMP = Point Loma Digested Sludge Composite
MBCDEWCN = MBC Dewatered Sludge Composite
## Raw Sludge Composite Analysis (2011 Annual)

### Source: DIG COMP

### Date: 01-FEB-2011

### Source: DIG COMP

### Date: 03-MAY-2011

### Source: DIG COMP

### Date: 02-AUG-2011

### Source: DIG COMP

### Date: 04-OCT-2011

### Sample ID: MDL Units

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**ND**= Not Detected

**NA**= Not Analyzed

**NS**= Not Sampled

**NR**= Not Required

**RAW COMP** = Point Loma Raw Sludge Composite

**DIG COMP** = Point Loma Digested Sludge Composite

**MBCDEWN** = MBC Dewatered Sludge Composite
## Point Loma Wastewater Treatment Plant
### Quarterly Sludge Project
(Metals from Digestion and Ions from Supernatant)

#### 2011 Annual

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

**RAW COMP** = Point Loma Raw Sludge Composite
**DIG COMP** = Point Loma Digested Sludge Composite
**MBCDEwCN** = MBC Dewatered Sludge Composite
### Gross Alpha Radiation

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**Units in picocuries per Liter (pCi/L)**

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**Units in picocuries per Kilogram (pCi/Kg)**

**ND= Not Detected**

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**NS= Not Sampled**

**NR= Not Required**
### Chlorinated Pesticide Analysis, EPA Method 608

#### Annual 2011

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**NA** = not analyzed
### Chlorinated Pesticide Analysis

**Source:** Point Loma Wastewater Treatment Plant / Metrobiosolids Center

**Chlorinated Pesticide Analysis, EPA Method 680 (with additions)**

**Annual 2011**

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**ND = not detected**

**NS = not sampled**

**NA = not analyzed**
**POINT LOMA WASTEWATER TREATMENT PLANT / METROBIOSOLIDS CENTER**

Chlorinated Pesticide Analysis, EPA Method 608 (with additions)

**Annual 2011**

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ND = not detected
NS = not sampled
NA = not analyzed
### Chlorinated Pesticide Analysis, EPA Method 608 (with additions)

#### POINT LOMA WASTEWATER TREATMENT PLANT / METROBIO SOLIDS CENTER

**Annual 2011**

| Analyte                              | MDL  | Units | RAW COMP | RAW COMP | DIG COMP | DIG COMP | DIG COMP | DIG COMP | DIG COMP |
|--------------------------------------|------|-------|----------|----------|----------|----------|----------|----------|----------|----------|
|                                      |      |       | 02-AUG-2011 | 04-OCT-2011 | 01-FEB-2011 | 03-MAY-2011 | 02-AUG-2011 | 04-OCT-2011 |
| Aldrin, Alpha isomer                 | 7    | NG/L  | ND        | ND        | ND        | ND        | ND        | ND        | ND        |
| BHC, Alpha isomer                    | 7    | NG/L  | ND        | ND        | ND        | ND        | ND        | ND        |
| BHC, Delta isomer                    | 3    | NG/L  | ND        | ND        | ND        | ND        | ND        | ND        |
| BHC, Gamma isomer                    | 5    | NG/L  | ND        | ND        | ND        | ND        | ND        | ND        |
| Alpha (cis) Chlordane                | 3    | NG/L  | ND        | ND        | ND        | ND        | ND        | ND        |
| Gamma (trans) Chlordane              | 4    | NG/L  | ND        | ND        | ND        | ND        | ND        | ND        |
| Alpha Chlordene                      | NA   | NA    | NA        | NA        | NA        | NA        | NA        | NA        |
| Gamma Chlordene                      | NA   | NA    | NA        | NA        | NA        | NA        | NA        | NA        |
| Cis Nonachlor                        | 3    | NG/L  | ND        | ND        | ND        | ND        | ND        | ND        |
| Dieldrin                             | 3    | NG/L  | ND        | ND        | ND        | ND        | ND        | ND        |
| Endosulfan Sulfate                   | 6    | NG/L  | ND        | ND        | ND        | ND        | ND        | ND        |
| Alpha Endosulfan                     | 4    | NG/L  | ND        | ND        | ND        | ND        | ND        | ND        |
| Beta Endosulfan                      | 2    | NG/L  | ND        | ND        | ND        | ND        | ND        | ND        |
| Endrin                               | 2    | NG/L  | ND        | ND        | ND        | ND        | ND        | ND        |
| Endrin aldehyde                      | 9    | NG/L  | ND        | ND        | ND        | ND        | ND        | ND        |
| Heptachlor                           | 8    | NG/L  | ND        | ND        | ND        | ND        | ND        | ND        |
| Heptachlor epoxide                   | 4    | NG/L  | ND        | ND        | ND        | ND        | ND        | ND        |
| Methoxychlor                         | 10   | NG/L  | ND        | ND        | ND        | ND        | ND        | ND        |
| Mirex                                | 10   | NG/L  | ND        | ND        | ND        | ND        | ND        | ND        |
| o,p-DDD                              | 4    | NG/L  | ND        | ND        | ND        | ND        | ND        | ND        |
| o,p-DDE                              | 5    | NG/L  | ND        | ND        | ND        | ND        | ND        | ND        |
| o,p-DT                               | 3    | NG/L  | ND        | ND        | ND        | ND        | ND        | ND        |
| Oxychlordane                         | 6    | NG/L  | ND        | ND        | ND        | ND        | ND        | ND        |
| PCB 1016                             | 4000 | NG/L  | ND        | ND        | ND        | ND        | ND        | ND        |
| PCB 1221                             | 4000 | NG/L  | ND        | ND        | ND        | ND        | ND        | ND        |
| PCB 1232                             | 360  | NG/L  | ND        | ND        | ND        | ND        | ND        | ND        |
| PCB 1242                             | 4000 | NG/L  | ND        | ND        | ND        | ND        | ND        | ND        |
| PCB 1248                             | 2000 | NG/L  | ND        | ND        | ND        | ND        | ND        | ND        |
| PCB 1254                             | 2000 | NG/L  | ND        | ND        | ND        | ND        | ND        | ND        |
| PCB 1260                             | 2000 | NG/L  | ND        | ND        | ND        | ND        | ND        | ND        |
| PCB 1262                             | 930  | NG/L  | ND        | ND        | ND        | ND        | ND        | ND        |
| p,p-DDD                              | 3    | NG/L  | ND        | ND        | ND        | ND        | ND        | ND        |
| p,p-DDE                              | 4    | NG/L  | ND        | ND        | ND        | ND        | ND        | ND        |
| p,p-DT                               | 8    | NG/L  | ND        | ND        | ND        | ND        | ND        | ND        |
| Toxaphene                            | 330  | NG/L  | ND        | ND        | ND        | ND        | ND        | ND        |
| Trans Nonachlor                      | 5    | NG/L  | ND        | ND        | ND        | ND        | ND        | ND        |

**Notes:**
- **MDL**: Minimum Detection Limit
- **Units**: Measurement units
- **ND**: Not detected
- **NA**: Not analyzed
- **NS**: Not sampled
### Chlorinated Pesticide Analysis

#### Annual 2011

**Source:**

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**Analyte**

**MDL**

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**P559212**

**P563098**

**P566778**

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ND = not detected
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### Organophosphorus Pesticides

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## Organophosphorus Pesticides

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**Thiophosphorus Pesticides**

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**Total Organophosphorus Pesticides**

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**Note:** ND = not detected
# Organophosphorus Pesticides

**Source:** DIG COMP  
**Date:** 03-MAY-2011 04-OCT-2011

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| Thiophosphorus Pesticides     |           | 0.00   | 0.00    |
| Demeton -O, -S                | .15 UG/L  | 0.00   | 0.00    |

Total Organophosphorus Pesticides  

|                   |           | 0.00   | 0.00    |

ND=not detected
### METROBIOSOLIDS CENTER
### ORGANOPHOSPHORUS PESTICIDES
### Annual 2011

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ND=not detected
**POINT LOMA WASTEWATER TREATMENT PLANT / METROBIOSOLIDS CENTER**  
**SLUDGE PROJECT**  
**Tributyl Tin (Sewage)**  

**Annual 2011**

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ND= not detected
### POINT LOMA WASTEWATER TREATMENT PLANT

**Herbicide Analysis**

**Annual 2011**

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Note: No data is reported for the first half of the year, sample was not reported due to the external laboratory analyzing the sample suspended operations.

ND = not detected
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nd = not detected, NA = not analyzed, NS = not sampled
**POINT LOMA WASTEWATER TREATMENT PLANT**  
PRIORITY POLLUTANT ANALYSIS-ACID EXTRACTABLE COMPOUNDS, EPA Method 625  

**Annual 2011**

### PRIORITY POLLUTANT ANALYSIS

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**ND= not detected, NA= not analyzed, NS= not sampled**
POINT LOMA WASTEWATER TREATMENT PLANT
PRIORITY POLLUTANT ANALYSIS - ACID EXTRACTABLE COMPOUNDS, EPA Method 625

Annual 2011

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Methylphenol (3-MP is unresolved)  UG/KG  1260 1780 932 739 1178

Nitrophenol                            UG/L  175.0 202.0 191.0 82.3 98.0

Chlorinated Phenols                    800 UG/KG 0 0 0 0 0

Phenols                                 800 UG/KG 10410 8490 6432 3129 7115

Phenols average                         800 UG/KG 725 499 305 217 437

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Methylphenol (3-MP is unresolved)  UG/L  175.0 202.0 191.0 82.3

Nitrophenol                            UG/L  175.0 202.0 191.0 82.3

Chlorinated Phenols                    800 UG/KG 0 0 0 0 0

Phenols                                 800 UG/KG 10410 8490 6432 3129 7115

Phenols average                         800 UG/KG 725 499 305 217 437

nd= not detected, NA= not analyzed NS= not sampled
### Priority Pollutants Purgeable Compounds, EPA Method 624

#### Annual 2011

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* = Value of the blank in this batch was 0.52 Ug/L, not in the calculation of average.
^ = Value of the blank in this batch was 0.55 Ug/L, not in the calculation of average.
nd= not detected, NA= not analyzed, NS= not sampled
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^ = Value of the blank in this batch was 0.55 UG/L, not in the calculation of average.

nd= not detected, NA= not analyzed, NS= not sampled
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nd= not detected, NA= not analyzed, NS= not sampled
## Point Loma Wastewater Treatment Plant

**Priority Pollutants Purgeable Compounds, EPA Method 624**

**Annual 2011**

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**Halomethane Purgeable Cmpnds**

| Halomethane Purgeable Compounds | 6.9  | UG/KG | 730      | 2540859  |

**Total Dichlorobenzenes**

| Total Dichlorobenzenes | 6.9  | UG/KG | 730      | 2540859  |

**Purgeable Compounds**

| Purgeable Compounds | 6.9  | UG/KG | 730      | 2540859  |

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## Point Loma Wastewater Treatment Plant
### Priority Pollutants Base/Neutral Compounds, EPA Method 625 & 605

#### Annual 2011

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nd= not detected, NA= not analyzed, NS= not sampled
## Point Loma Wastewater Treatment Plant

### Priority Pollutants Base/Neutral Compounds, EPA Method 625 & 605

### Annual 2011

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nd= not detected, NA= not analyzed, NS= not sampled
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Polynuc. Aromatic Hydrocarbons, Units: UG/KG

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nd= not detected, NA= not analyzed, NS= not sampled
### Dioxin and Furan Analysis

#### 2011 Annual

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ND= not detected
NA= not analyzed
NS= not sampled
DNQ= (Detected but not quantified). Estimated analyte concentration below calibration range.
## POINT LOMA WASTEWATER TREATMENT

### Dioxin and Furan Analysis

#### 2011 Annual Pretreatment Program

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### Dioxin and Furan Analysis

#### 2011 Annual

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**POINT LOMA WASTEWATER TREATMENT**

**INFLUENT**

**Dioxin and Furan Analysis**

2011 Annual

### Annual Pretreatment Program

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#### Analyte

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**nd** = not detected

**NA** = not analyzed

**NS** = not sampled

**DNQ** = (Detected but not quantified). Estimated analyte concentration below calibration range.
### METROBIOSOLIDS CENTER
Dioxin and Furan Analysis, SW-846 Method 8290

Annual 2011

Analyzed by: Frontier Analytical Laboratories

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