

V. Ocean Monitoring Data Summary

- A. Ocean Sediment Chemistry Data Tables.
- B. Fish Tissue Chemistry Data Tables.

Maps of sampling sites are included in this section.

Summary of Sampling Technique¹⁴:

Sediments

Benthic samples are obtained with a chain-rigged van Veen grab from the City's ocean monitoring program vessels. The grab takes 0.1m² of sediment surface. Only grab samples with an undisturbed sediment surface are used. Only the top 2 cm of sediment material in the van Veen grab is taken for chemical analyses. Subsamples are then placed directly into the appropriate labeled containers and placed on ice for shipment to the laboratory for analysis. Preservatives are used in accordance with the requirements of 40 CFR and our Quality Assurance Plan. Sediment concentrations are based on dry weight of sample.

Fish Tissue

Several species of flatfish and rockfish are collected by otter trawls and/or rig fishing. Dissected muscle and liver tissues from these fish are frozen and delivered to the laboratory for analysis. Tissue samples are kept frozen until prepared for analyses. Addendum 1 (June 2003) to MRP R9-2002-0025/NPDES CA0107409 changed the station definitions for trawl and rig fishing sampling, primarily eliminating or redefining stations. Trawl stations SD-7 through SD-14 were reorganized into zones as shown in Section B. In previous years' reports, samples from stations involved in the South Bay Ocean Outfall Predischarge Monitoring, such as SD-15, SD-17 thru SD-21 and RF-3 & RF-4 were included in this Pt. Loma Outfall Report. Since this data is now reported in the South Bay Outfall Monitoring reports, they are no longer contained in this report. Additionally, determinations of Poly Aromatic Hydrocarbon (PAHs) were removed by the modifications.

¹⁴ For complete description of the sampling protocols, dissection techniques, equipment, vessels, etc. related to the sampling of ocean sediments and fish, please refer to the City of San Diego, Annual Receiving Waters Monitoring Report for the Point Loma Ocean Outfall 2008.

A. Ocean Sediment Chemistries.

The data for Biochemical Oxygen Demand (BOD) and Total Volatile Solids (TVS), all measures of organic enrichment, as well as total sulfides and temperature, are all presented by quarter and averaged. The quarterly particle size analysis does not lend itself to summarization and each quarter's analysis is presented separately. For the data from all the metals, cyanide, radiation and all of the numerous organic priority pollutant analyses (except dioxin, presented by quarter) only the average of the four quarters is presented here; the values for each quarter has been reported in the Quarterly Monitoring Reports and are on file.

Sampling stations may also be identified by either a 3-digit number and/or a letter-number identification code. All "A" stations are 100 series and "B" stations are 200 series designations. For example, the station A-15 is also called 115 and station B-7 would be 207.

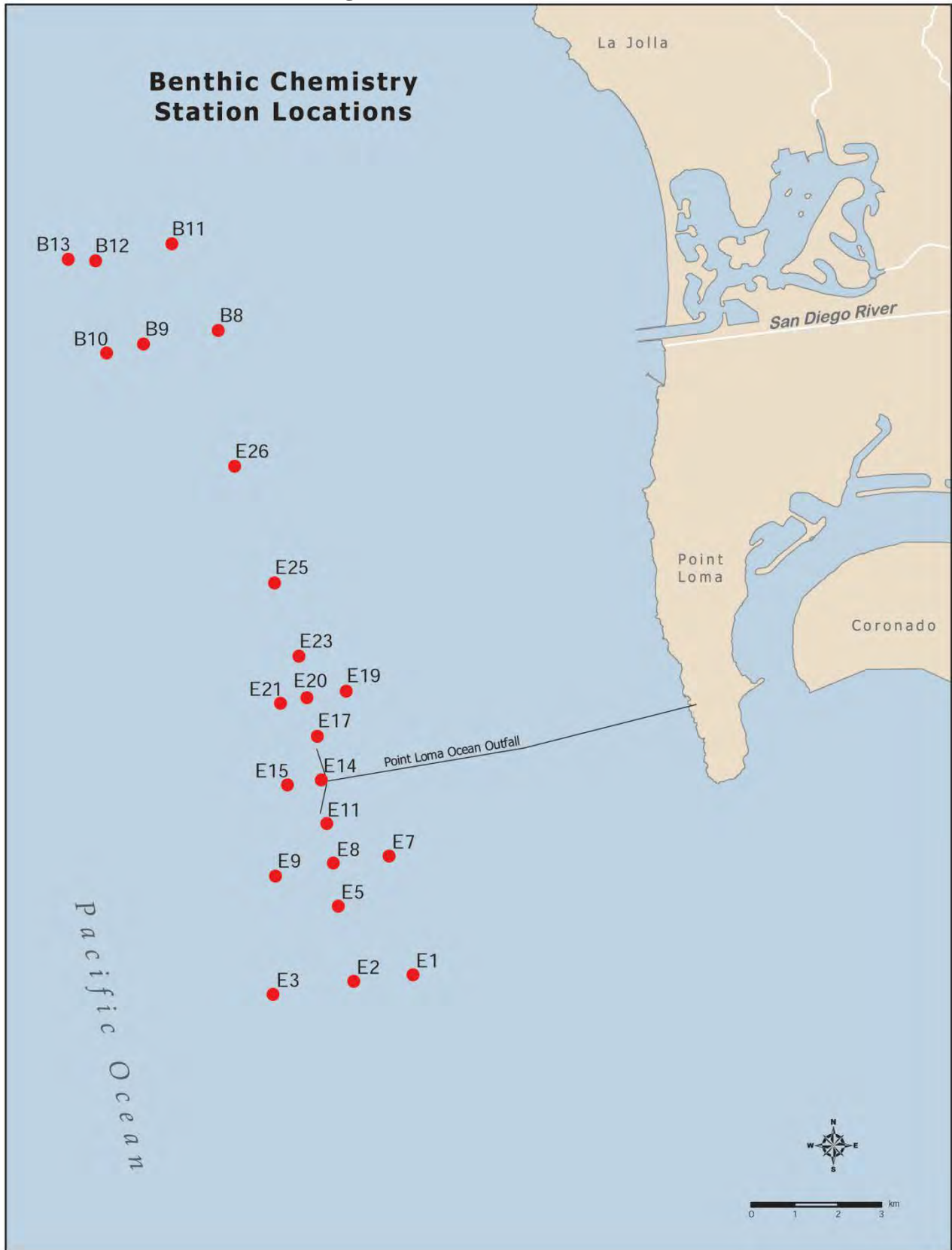
Chemistries for benthic sediments for 22 "Core Stations" are identified in the following table.

Core Stations			
B-8	E-1	E-9	E-20
B-9	E-2	E-11	E-21
B-10	E-3	E-14	E-23
B-11	E-5	E-15	E-25
B-12	E-7	E-17	E-26
	E-8	E-19	

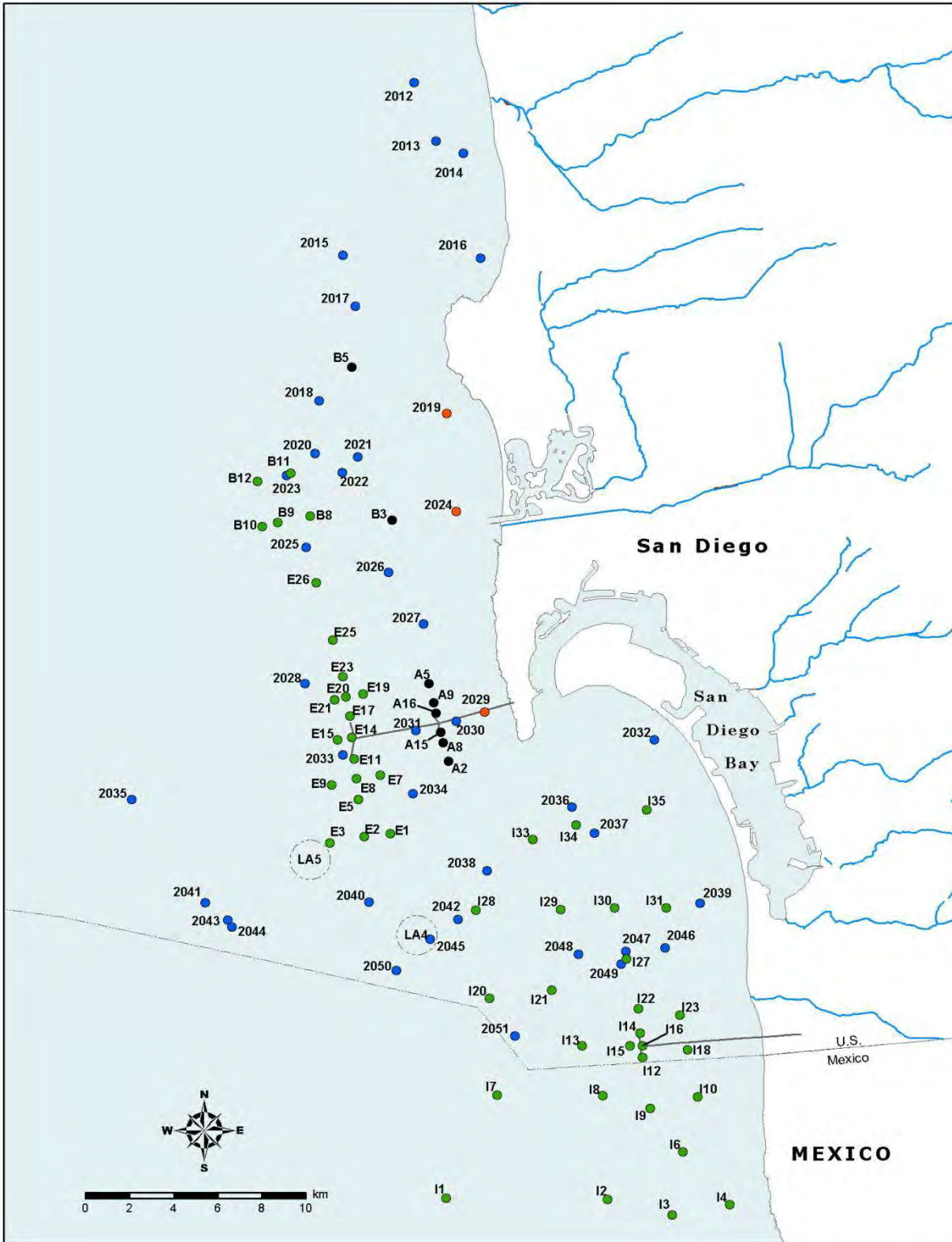
NPDES Permit No. CA 0107409/SDRWQCB Order No. R9-2002-0025 was modified in 2005 to incorporate 8 "Recovery Stations" (listed in following table) in the regular monitoring program as an on-going special study. The suite of analyses is not inclusive, e.g. BOD and PAHs are not a required part of the monitoring program for these stations and may not be included.

Recovery Stations	
A-2	A-15
A-5	A-16
A-8	B-3
A-9	B-5

San Diego Benthic (chemistries) stations



Map of Recurring and Regional Monitoring Stations (benthic chemistries). Regional Monitoring Stations are 2000 series.



POINT LOMA WASTEWATER TREATMENT PLANT

OCEAN SEDIMENT ANNUAL

From 01-JAN-2009 To 31-DEC-2009

Biochemical Oxygen Demand
(mg/Kg)

STATION DATE	First Quarter	Third Quarter	Average of All Quarters
B-8	NS	300	300
B-9	357	491	424
B-10	NS	348	348
B-11	NS	445	445
B-12	354	350	352
E-1	NS	211	211
E-2	179	201	190
E-3	NS	222	222
E-5	230	170	200
E-7	NS	195	195
E-8	ND	167	84
E-9	NS	195	195
E-11	301	182	242
E-14	227	266	247
E-15	NS	196	196
E-17	270	269	270
E-19	NS	194	194
E-20	193	245	219
E-21	NS	215	215
E-23	257	188	223
E-25	252	>535	394
E-26	407	287	347

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

POINT LOMA WASTEWATER TREATMENT PLANT

OCEAN SEDIMENT ANNUAL

From 01-JAN-2009 To 31-DEC-2009

Sulfides, Total
(mg/Kg)

STATION	DATE	First Quarter	Third Quarter	Average of All Quarters
=====	=====	=====	=====	=====
A-2		NS	2.4	2.4
A-5		NS	0.8	0.8
A-8		NS	18.5	18.5
A-9		NS	2.0	2.0
A-15		NS	ND	ND
A-16		NS	1.9	1.9
B-3		NS	0.4	0.4
B-5		NS	1.0	1.0
B-8		NS	0.9	0.9
B-9		NS	0.5	0.5
B-10		NS	ND	ND
B-11		NS	0.2	0.2
B-12		NS	0.2	0.2
E-1		NS	2.1	2.1
E-2		3.7	0.5	2.1
E-3		NS	8.1	8.1
E-5		0.3	1.6	1.0
E-7		NS	1.2	1.2
E-8		2.0	1.0	1.5
E-9		NS	0.9	0.9
E-11		0.6	2.6	1.6
E-14		13.8	33.9	23.9
E-15		NS	5.8	5.8
E-17		1.4	6.3	3.9
E-19		NS	0.9	0.9
E-20		1.4	0.8	1.1
E-21		NS	0.6	0.6
E-23		1.5	1.2	1.4
E-25		1.3	2.0	1.7
E-26		3.1	3.5	3.3

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

POINT LOMA WASTEWATER TREATMENT PLANT

OCEAN SEDIMENT ANNUAL

From 01-JAN-2009 To 31-DEC-2009

Total Volatile Solids
(% Weight)

STATION DATE	First Quarter	Third Quarter	Average of All Quarters
A-2	NS	2.7	2.7
A-5	NS	2.5	2.5
A-8	NS	2.6	2.6
A-9	NS	2.6	2.6
A-15	NS	2.6	2.6
A-16	NS	2.6	2.6
B-3	NS	2.3	2.3
B-5	NS	3.0	3.0
B-8	NS	3.3	3.3
B-9	5.4	2.8	4.1
B-10	NS	2.6	2.6
B-11	NS	4.2	4.2
B-12	3.4	2.9	3.2
E-1	NS	2.1	2.1
E-2	2.2	2.4	2.3
E-3	NS	1.7	1.7
E-5	2.2	2.3	2.3
E-7	NS	2.3	2.3
E-8	1.9	2.2	2.1
E-9	NS	2.7	2.7
E-11	2.7	2.1	2.4
E-14	1.7	2.1	1.9
E-15	NS	2.2	2.2
E-17	1.7	2.0	1.9
E-19	NS	2.3	2.3
E-20	1.9	2.2	2.1
E-21	NS	2.1	2.1
E-23	2.2	2.3	2.3
E-25	2.2	2.5	2.4
E-26	2.4	2.5	2.5

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

POINT LOMA WASTEWATER TREATMENT PLANT
 SEDIMENT SEMI-ANNUAL
 Grain Size
 (all values are in percent distribution)

Annual 2009

Analyte	MDL Units	A-2	A-5	A-8	A-9	A-15
		P480420 20-JUL-2009	P482274 28-JUL-2009	P480426 20-JUL-2009	P482279 28-JUL-2009	P480413 20-JUL-2009
<0.500 microns, Phi 11		0.000	0.000	0.000	0.000	0.000
>0.5 to 1 microns, Phi 10		0.267	0.208	0.321	0.326	0.100
>1 to 1.5 microns, Phi 9.5		0.448	0.433	0.443	0.455	0.411
>1.5 to 2 microns, Phi 9		0.513	0.500	0.500	0.519	0.484
>2.0 to 2.4 microns		0.461	0.452	0.447	0.465	0.444
>2.4 to 2.9 microns, Phi 8.5		0.612	0.603	0.593	0.619	0.600
>2.9 to 3.4 microns		0.645	0.638	0.625	0.652	0.641
>3.4 to 3.9 microns, Phi 8		0.707	0.702	0.686	0.716	0.713
>3.9 to 4 microns		0.148	0.147	0.144	0.150	0.150
>4.0 to 4.3 microns		0.426	0.422	0.415	0.431	0.432
>4.3 to 4.5 microns		0.275	0.272	0.267	0.278	0.279
>4.5 to 5 microns		0.738	0.732	0.720	0.748	0.754
>5 to 5.5 microns		0.735	0.729	0.720	0.744	0.753
>5.5 to 5.7 microns		0.284	0.281	0.278	0.288	0.291
>5.7 to 5.9 microns, Phi 7.5		0.280	0.277	0.275	0.283	0.287
>5.9 to 7.8 microns, Phi 7		2.660	2.630	2.620	2.690	2.730
>7.8 to 8 microns		0.273	0.269	0.269	0.274	0.279
>8 to 8.5 microns		0.654	0.643	0.645	0.657	0.669
>8.5 to 8.9 microns		0.504	0.495	0.497	0.505	0.515
>8.9 to 9.1 microns		0.257	0.252	0.254	0.257	0.262
>9.1 to 9.5 microns		0.498	0.488	0.491	0.498	0.507
>9.5 to 9.8 microns		0.360	0.353	0.355	0.360	0.367
>9.8 to 10.1 microns		0.350	0.343	0.345	0.349	0.356
>10.1 to 10.6 microns		0.605	0.590	0.597	0.601	0.612
>10.6 to 11.1 microns		0.577	0.563	0.569	0.573	0.584
>11.1 to 11.3 microns		0.224	0.218	0.220	0.222	0.226
>11.3 to 11.7 microns, Phi 6.5		0.439	0.428	0.432	0.435	0.443
>11.7 to 14 microns		2.330	2.270	2.290	2.300	2.340
>14 to 14.8 microns		0.744	0.724	0.729	0.731	0.741
>14.8 to 15.6 microns		0.721	0.703	0.704	0.707	0.716
>15.6 to 16 microns		0.354	0.345	0.344	0.346	0.350
>16 to 20 microns		3.190	3.120	3.090	3.110	3.130
>20 to 23 microns, Phi 5.5		2.100	2.070	2.010	2.040	2.040
>23 to 27 microns		2.560	2.560	2.420	2.500	2.470
>27 to 31 microns, Phi 5		2.420	2.470	2.260	2.380	2.330
>31 to 32 microns		0.601	0.625	0.558	0.601	0.582
>32 to 35.6 microns		2.140	2.250	1.980	2.160	2.080
>35.6 to 37 microns, Phi 4.75		0.849	0.912	0.786	0.871	0.830
>37 to 39.6 microns		1.540	1.660	1.430	1.590	1.510
>39.6 to 43.6 microns		2.590	2.870	2.410	2.730	2.570
>43.6 to 44 microns, Phi 4.5		0.246	0.273	0.229	0.259	0.244
>44 to 45 microns		0.615	0.682	0.573	0.649	0.610
>45 to 46.4 microns		1.030	1.160	0.967	1.110	1.030
>46.4 to 53 microns, Phi 4.25		4.700	5.320	4.430	5.050	4.720
>53 to 62.5 microns, Phi 4		7.310	8.230	6.980	7.850	7.380
>62.5 to 64 microns		1.170	1.310	1.130	1.250	1.180
>64 to 71.7 microns		5.970	6.520	5.810	6.290	6.030
>71.7 to 74 microns		1.750	1.880	1.720	1.820	1.770
>74 to 79.6 microns		4.120	4.330	4.070	4.230	4.140
>79.6 to 87.6 microns		5.550	5.670	5.560	5.590	5.570

POINT LOMA WASTEWATER TREATMENT PLANT
 SEDIMENT SEMI-ANNUAL
 Grain Size
 (all values are in percent distribution)

Annual 2009

Analyte	MDL Units	A-2	A-5	A-8	A-9	A-15
		P480420 20-JUL-2009	P482274 28-JUL-2009	P480426 20-JUL-2009	P482279 28-JUL-2009	P480413 20-JUL-2009
>87.6 to 88 microns, Phi 3.5		0.264	0.269	0.265	0.266	0.265
>88 to 90 microns		1.270	1.250	1.300	1.250	1.270
>90 to 105 microns, Phi 3.25		8.410	8.040	8.670	8.140	8.410
>105 to 125 microns, Phi 3		7.980	7.210	8.440	7.490	7.970
>125 to 149 microns, Phi 2.75		5.910	5.130	6.400	5.440	5.930
>149 to 160 microns		1.670	1.420	1.840	1.530	1.690
>160 to 177 microns, Phi 2.5		1.950	1.660	2.180	1.790	1.990
>177 to 197 microns		1.370	1.170	1.560	1.270	1.410
>197 to 210 microns, Phi 2.25		0.567	0.487	0.658	0.534	0.590
>210 to 217 microns		0.252	0.217	0.294	0.238	0.263
>217 to 245 microns		0.716	0.622	0.847	0.686	0.753
>245 to 250 microns, Phi 2		0.090	0.079	0.109	0.088	0.096
>250 to 300 microns, Phi 1.75		0.567	0.506	0.691	0.561	0.607
>300 to 320 microns		0.104	0.096	0.130	0.106	0.113
>320 to 350 microns, Phi 1.5		0.133	0.123	0.166	0.136	0.145
>350 to 360 microns		0.029	0.028	0.036	0.030	0.032
>360 to 400 microns		0.105	0.090	0.131	0.110	0.115
>400 to 420 microns, Phi 1.25		0.037	0.000	0.045	0.039	0.040
>420 to 440 microns		0.036	0.000	0.043	0.037	0.038
>440 to 500 microns, Phi 1		0.020	0.000	0.024	0.021	0.021
>500 to 590 microns, Phi 0.75		0.000	0.000	0.000	0.000	0.000
>590 to 630 microns		0.000	0.000	0.000	0.000	0.000
>630 to 696 microns		0.000	0.000	0.000	0.000	0.000
>696 to 710 microns, Phi 0.5		0.000	0.000	0.000	0.000	0.000
>710 to 773 microns		0.000	0.000	0.000	0.000	0.000
>773 to 840 microns, Phi 0.25		0.000	0.000	0.000	0.000	0.000
>840 to 850 microns		0.000	0.000	0.000	0.000	0.000
>850 to 930 microns		0.000	0.000	0.000	0.000	0.000
>930 to 1000 microns, Phi 0		0.000	0.000	0.000	0.000	0.000
1000 to 1100 microns		0.000	0.000	0.000	0.000	0.000
>1100 to 1190 microns, Phi -0.25		0.000	0.000	0.000	0.000	0.000
>1190 to 1300 microns		0.000	0.000	0.000	0.000	0.000
>1300 to 1410 microns, Phi -0.5		0.000	0.000	0.000	0.000	0.000
>1410 to 1680 microns, Phi -0.75		0.000	0.000	0.000	0.000	0.000
>1680 to 2000 microns, Phi -1		0.000	0.000	0.000	0.000	0.000
>2000 microns*		ND	ND	ND	ND	ND
Totals:		100.020	100.019	100.037	100.021	100.000

*=A value in this field reflects a percentage of 30 grams remaining on a 2000 micron sieve. This value must be subtracted from the total percentage.

POINT LOMA WASTEWATER TREATMENT PLANT
 SEDIMENT SEMI-ANNUAL
 Grain Size
 (all values are in percent distribution)

Annual 2009

Analyte	MDL Units	A-16	B-3	B-5	B-8	B-9
		P482268 28-JUL-2009	P481054 21-JUL-2009	P481059 21-JUL-2009	P481945 27-JUL-2009	P458047 12-JAN-2009
<0.500 microns, Phi 11		0.000	0.000	0.000	0.000	0.000
>0.5 to 1 microns, Phi 10		0.000	0.098	0.000	0.098	0.109
>1 to 1.5 microns, Phi 9.5		0.253	0.408	0.400	0.434	0.439
>1.5 to 2 microns, Phi 9		0.414	0.482	0.515	0.541	0.557
>2.0 to 2.4 microns		0.377	0.443	0.496	0.508	0.527
>2.4 to 2.9 microns, Phi 8.5		0.508	0.599	0.689	0.689	0.715
>2.9 to 3.4 microns		0.542	0.640	0.750	0.737	0.764
>3.4 to 3.9 microns, Phi 8		0.602	0.713	0.854	0.822	0.852
>3.9 to 4 microns		0.127	0.151	0.180	0.173	0.178
>4.0 to 4.3 microns		0.365	0.433	0.518	0.498	0.512
>4.3 to 4.5 microns		0.236	0.279	0.335	0.322	0.331
>4.5 to 5 microns		0.638	0.757	0.912	0.872	0.891
>5 to 5.5 microns		0.637	0.757	0.906	0.874	0.882
>5.5 to 5.7 microns		0.246	0.293	0.350	0.338	0.341
>5.7 to 5.9 microns, Phi 7.5		0.243	0.289	0.345	0.334	0.335
>5.9 to 7.8 microns, Phi 7		2.320	2.760	3.250	3.200	3.140
>7.8 to 8 microns		0.238	0.283	0.324	0.332	0.314
>8 to 8.5 microns		0.569	0.678	0.777	0.796	0.752
>8.5 to 8.9 microns		0.438	0.522	0.595	0.614	0.576
>8.9 to 9.1 microns		0.223	0.266	0.298	0.316	0.290
>9.1 to 9.5 microns		0.432	0.515	0.576	0.612	0.560
>9.5 to 9.8 microns		0.313	0.372	0.416	0.442	0.405
>9.8 to 10.1 microns		0.303	0.361	0.404	0.429	0.393
>10.1 to 10.6 microns		0.523	0.623	0.680	0.748	0.665
>10.6 to 11.1 microns		0.498	0.594	0.649	0.714	0.634
>11.1 to 11.3 microns		0.193	0.230	0.251	0.277	0.246
>11.3 to 11.7 microns, Phi 6.5		0.379	0.451	0.487	0.545	0.477
>11.7 to 14 microns		2.000	2.380	2.500	2.930	2.460
>14 to 14.8 microns		0.637	0.756	0.778	0.946	0.771
>14.8 to 15.6 microns		0.616	0.730	0.741	0.926	0.737
>15.6 to 16 microns		0.302	0.357	0.358	0.459	0.357
>16 to 20 microns		2.720	3.200	3.150	4.190	3.160
>20 to 23 microns, Phi 5.5		1.780	2.080	1.980	2.860	2.000
>23 to 27 microns		2.190	2.520	2.360	3.630	2.400
>27 to 31 microns, Phi 5		2.100	2.380	2.230	3.570	2.250
>31 to 32 microns		0.533	0.595	0.563	0.912	0.564
>32 to 35.6 microns		1.930	2.120	2.030	3.270	2.020
>35.6 to 37 microns, Phi 4.75		0.786	0.849	0.825	1.310	0.809
>37 to 39.6 microns		1.440	1.540	1.510	2.370	1.470
>39.6 to 43.6 microns		2.520	2.610	2.610	3.920	2.490
>43.6 to 44 microns, Phi 4.5		0.240	0.247	0.248	0.372	0.237
>44 to 45 microns		0.601	0.618	0.621	0.925	0.591
>45 to 46.4 microns		1.050	1.030	1.060	1.460	0.990
>46.4 to 53 microns, Phi 4.25		4.850	4.690	4.840	6.460	4.510
>53 to 62.5 microns, Phi 4		7.840	7.170	7.480	8.720	6.960
>62.5 to 64 microns		1.280	1.140	1.190	1.270	1.110
>64 to 71.7 microns		6.550	5.770	5.980	5.940	5.640
>71.7 to 74 microns		1.930	1.680	1.730	1.610	1.650
>74 to 79.6 microns		4.540	3.960	4.040	3.560	3.880
>79.6 to 87.6 microns		6.130	5.350	5.370	4.330	5.240

POINT LOMA WASTEWATER TREATMENT PLANT
 SEDIMENT SEMI-ANNUAL
 Grain Size
 (all values are in percent distribution)

Annual 2009

Analyte	MDL Units	A-16	B-3	B-5	B-8	B-9
		P482268 28-JUL-2009	P481054 21-JUL-2009	P481059 21-JUL-2009	P481945 27-JUL-2009	P458047 12-JAN-2009
>87.6 to 88 microns, Phi 3.5		0.292	0.255	0.255	0.206	0.249
>88 to 90 microns		1.400	1.240	1.220	0.895	1.210
>90 to 105 microns, Phi 3.25		9.200	8.330	7.990	5.510	8.050
>105 to 125 microns, Phi 3		8.610	8.210	7.520	4.550	7.830
>125 to 149 microns, Phi 2.75		6.280	6.270	5.570	3.020	5.990
>149 to 160 microns		1.760	1.780	1.580	0.803	1.740
>160 to 177 microns, Phi 2.5		2.050	2.080	1.850	0.921	2.070
>177 to 197 microns		1.430	1.450	1.300	0.643	1.510
>197 to 210 microns, Phi 2.25		0.594	0.591	0.542	0.272	0.641
>210 to 217 microns		0.263	0.260	0.241	0.122	0.287
>217 to 245 microns		0.751	0.733	0.689	0.355	0.831
>245 to 250 microns, Phi 2		0.095	0.091	0.088	0.046	0.107
>250 to 300 microns, Phi 1.75		0.598	0.567	0.557	0.308	0.685
>300 to 320 microns		0.111	0.102	0.105	0.065	0.129
>320 to 350 microns, Phi 1.5		0.142	0.131	0.134	0.072	0.165
>350 to 360 microns		0.031	0.029	0.030	0.000	0.037
>360 to 400 microns		0.113	0.092	0.108	0.000	0.130
>400 to 420 microns, Phi 1.25		0.040	0.000	0.038	0.000	0.045
>420 to 440 microns		0.038	0.000	0.036	0.000	0.043
>440 to 500 microns, Phi 1		0.021	0.000	0.020	0.000	0.063
>500 to 590 microns, Phi 0.75		0.000	0.000	0.000	0.000	0.013
>590 to 630 microns		0.000	0.000	0.000	0.000	0.000
>630 to 696 microns		0.000	0.000	0.000	0.000	0.000
>696 to 710 microns, Phi 0.5		0.000	0.000	0.000	0.000	0.000
>710 to 773 microns		0.000	0.000	0.000	0.000	0.000
>773 to 840 microns, Phi 0.25		0.000	0.000	0.000	0.000	0.000
>840 to 850 microns		0.000	0.000	0.000	0.000	0.000
>850 to 930 microns		0.000	0.000	0.000	0.000	0.000
>930 to 1000 microns, Phi 0		0.000	0.000	0.000	0.000	0.000
1000 to 1100 microns		0.000	0.000	0.000	0.000	0.000
>1100 to 1190 microns, Phi -0.25		0.000	0.000	0.000	0.000	0.000
>1190 to 1300 microns		0.000	0.000	0.000	0.000	0.000
>1300 to 1410 microns, Phi -0.5		0.000	0.000	0.000	0.000	0.000
>1410 to 1680 microns, Phi -0.75		0.000	0.000	0.000	0.000	0.000
>1680 to 2000 microns, Phi -1		0.000	0.000	0.000	0.000	0.000
>2000 microns*		ND	ND	ND	ND	ND
Totals:		100.001	99.980	100.024	99.993	100.006

*=A value in this field reflects a percentage of 30 grams remaining on a 2000 micron sieve. This value must be subtracted from the total percentage.

POINT LOMA WASTEWATER TREATMENT PLANT
 SEDIMENT SEMI-ANNUAL
 Grain Size
 (all values are in percent distribution)

Annual 2009

Analyte	MDL Units	B-9	B-10	B-11	B-12	B-12
		P481955 27-JUL-2009	P481930 27-JUL-2009	P481936 27-JUL-2009	P458040 12-JAN-2009	P481941 27-JUL-2009
<0.500 microns, Phi 11		0.000	0.000	0.088	0.000	0.000
>0.5 to 1 microns, Phi 10		0.000	0.000	0.635	0.000	0.102
>1 to 1.5 microns, Phi 9.5		0.419	0.294	0.598	0.415	0.421
>1.5 to 2 microns, Phi 9		0.526	0.410	0.726	0.532	0.505
>2.0 to 2.4 microns		0.497	0.387	0.672	0.512	0.470
>2.4 to 2.9 microns, Phi 8.5		0.679	0.531	0.901	0.709	0.638
>2.9 to 3.4 microns		0.728	0.575	0.952	0.769	0.681
>3.4 to 3.9 microns, Phi 8		0.817	0.648	1.050	0.871	0.760
>3.9 to 4 microns		0.171	0.136	0.218	0.182	0.158
>4.0 to 4.3 microns		0.490	0.390	0.626	0.523	0.453
>4.3 to 4.5 microns		0.317	0.252	0.404	0.338	0.292
>4.5 to 5 microns		0.855	0.683	1.080	0.914	0.783
>5 to 5.5 microns		0.846	0.673	1.060	0.899	0.767
>5.5 to 5.7 microns		0.326	0.260	0.410	0.346	0.295
>5.7 to 5.9 microns, Phi 7.5		0.321	0.256	0.403	0.341	0.290
>5.9 to 7.8 microns, Phi 7		3.000	2.370	3.720	3.150	2.660
>7.8 to 8 microns		0.299	0.232	0.368	0.305	0.259
>8 to 8.5 microns		0.716	0.556	0.882	0.731	0.621
>8.5 to 8.9 microns		0.548	0.424	0.675	0.557	0.474
>8.9 to 9.1 microns		0.275	0.209	0.337	0.274	0.234
>9.1 to 9.5 microns		0.532	0.405	0.652	0.530	0.453
>9.5 to 9.8 microns		0.384	0.293	0.471	0.383	0.327
>9.8 to 10.1 microns		0.373	0.284	0.457	0.372	0.318
>10.1 to 10.6 microns		0.628	0.470	0.767	0.612	0.526
>10.6 to 11.1 microns		0.599	0.448	0.732	0.584	0.501
>11.1 to 11.3 microns		0.232	0.174	0.284	0.226	0.194
>11.3 to 11.7 microns, Phi 6.5		0.451	0.334	0.549	0.434	0.374
>11.7 to 14 microns		2.320	1.670	2.810	2.160	1.890
>14 to 14.8 microns		0.725	0.512	0.876	0.657	0.580
>14.8 to 15.6 microns		0.692	0.479	0.833	0.612	0.545
>15.6 to 16 microns		0.335	0.228	0.402	0.290	0.260
>16 to 20 microns		2.960	1.960	3.540	2.480	2.260
>20 to 23 microns, Phi 5.5		1.870	1.170	2.220	1.460	1.370
>23 to 27 microns		2.240	1.320	2.630	1.630	1.570
>27 to 31 microns, Phi 5		2.110	1.190	2.440	1.440	1.420
>31 to 32 microns		0.528	0.293	0.604	0.347	0.346
>32 to 35.6 microns		1.890	1.050	2.140	1.220	1.220
>35.6 to 37 microns, Phi 4.75		0.759	0.422	0.842	0.474	0.479
>37 to 39.6 microns		1.380	0.773	1.520	0.856	0.867
>39.6 to 43.6 microns		2.360	1.360	2.490	1.410	1.430
>43.6 to 44 microns, Phi 4.5		0.224	0.130	0.237	0.134	0.136
>44 to 45 microns		0.559	0.326	0.589	0.334	0.339
>45 to 46.4 microns		0.943	0.588	0.938	0.550	0.556
>46.4 to 53 microns, Phi 4.25		4.310	2.770	4.210	2.510	2.530
>53 to 62.5 microns, Phi 4		6.700	4.950	6.000	3.920	3.890
>62.5 to 64 microns		1.070	0.862	0.916	0.635	0.626
>64 to 71.7 microns		5.510	4.840	4.500	3.340	3.290
>71.7 to 74 microns		1.620	1.520	1.280	1.000	0.987
>74 to 79.6 microns		3.840	3.870	2.960	2.450	2.440
>79.6 to 87.6 microns		5.250	5.780	3.910	3.510	3.520

POINT LOMA WASTEWATER TREATMENT PLANT
 SEDIMENT SEMI-ANNUAL
 Grain Size
 (all values are in percent distribution)

Annual 2009

Analyte	MDL Units	B-9	B-10	B-11	B-12	B-12
		P481955 27-JUL-2009	P481930 27-JUL-2009	P481936 27-JUL-2009	P458040 12-JAN-2009	P481941 27-JUL-2009
>87.6 to 88 microns, Phi 3.5		0.250	0.275	0.186	0.167	0.167
>88 to 90 microns		1.230	1.510	0.903	0.898	0.922
>90 to 105 microns, Phi 3.25		8.340	10.900	6.100	6.520	6.800
>105 to 125 microns, Phi 3		8.390	12.300	6.440	8.200	8.870
>125 to 149 microns, Phi 2.75		6.650	10.400	5.710	8.770	9.690
>149 to 160 microns		2.000	3.170	1.950	3.520	3.880
>160 to 177 microns, Phi 2.5		2.400	3.810	2.510	4.870	5.340
>177 to 197 microns		1.780	2.750	2.120	4.680	5.010
>197 to 210 microns, Phi 2.25		0.761	1.140	0.996	2.390	2.470
>210 to 217 microns		0.343	0.503	0.468	1.160	1.190
>217 to 245 microns		0.988	1.410	1.420	3.610	3.620
>245 to 250 microns, Phi 2		0.127	0.175	0.193	0.511	0.499
>250 to 300 microns, Phi 1.75		0.801	1.060	1.270	3.350	3.190
>300 to 320 microns		0.146	0.176	0.240	0.585	0.538
>320 to 350 microns, Phi 1.5		0.185	0.222	0.304	0.725	0.666
>350 to 360 microns		0.040	0.045	0.063	0.132	0.121
>360 to 400 microns		0.142	0.161	0.224	0.464	0.425
>400 to 420 microns, Phi 1.25		0.048	0.053	0.071	0.125	0.117
>420 to 440 microns		0.046	0.050	0.067	0.119	0.111
>440 to 500 microns, Phi 1		0.104	0.112	0.143	0.226	0.214
>500 to 590 microns, Phi 0.75		0.026	0.028	0.035	0.053	0.050
>590 to 630 microns		0.000	0.000	0.000	0.000	0.000
>630 to 696 microns		0.000	0.000	0.000	0.000	0.000
>696 to 710 microns, Phi 0.5		0.000	0.000	0.000	0.000	0.000
>710 to 773 microns		0.000	0.000	0.000	0.000	0.000
>773 to 840 microns, Phi 0.25		0.000	0.000	0.000	0.000	0.000
>840 to 850 microns		0.000	0.000	0.000	0.000	0.000
>850 to 930 microns		0.000	0.000	0.000	0.000	0.000
>930 to 1000 microns, Phi 0		0.000	0.000	0.000	0.000	0.000
1000 to 1100 microns		0.000	0.000	0.000	0.000	0.000
>1100 to 1190 microns, Phi -0.25		0.000	0.000	0.000	0.000	0.000
>1190 to 1300 microns		0.000	0.000	0.000	0.000	0.000
>1300 to 1410 microns, Phi -0.5		0.000	0.000	0.000	0.000	0.000
>1410 to 1680 microns, Phi -0.75		0.000	0.000	0.000	0.000	0.000
>1680 to 2000 microns, Phi -1		0.000	0.000	0.000	0.000	0.000
>2000 microns*		ND	ND	1.39	2.00	ND
Totals:		100.021	100.007	101.407	102.003	99.997

*=A value in this field reflects a percentage of 30 grams remaining on a 2000 micron sieve. This value must be subtracted from the total percentage.

POINT LOMA WASTEWATER TREATMENT PLANT
 SEDIMENT SEMI-ANNUAL
 Grain Size
 (all values are in percent distribution)

Annual 2009

Analyte	MDL Units	E-1	E-2	E-3	E-5	E-5
		P480253 15-JUL-2009	P458158 13-JAN-2009	P480267 15-JUL-2009	P458164 13-JAN-2009	P480441 20-JUL-2009
<0.500 microns, Phi 11		0.000	0.000	0.000	0.000	0.000
>0.5 to 1 microns, Phi 10		0.218	0.000	0.000	0.000	0.000
>1 to 1.5 microns, Phi 9.5		0.497	0.394	0.417	0.246	0.255
>1.5 to 2 microns, Phi 9		0.601	0.530	0.551	0.428	0.433
>2.0 to 2.4 microns		0.548	0.513	0.533	0.402	0.406
>2.4 to 2.9 microns, Phi 8.5		0.725	0.702	0.733	0.544	0.552
>2.9 to 3.4 microns		0.757	0.751	0.788	0.578	0.593
>3.4 to 3.9 microns, Phi 8		0.826	0.839	0.887	0.641	0.664
>3.9 to 4 microns		0.171	0.175	0.185	0.134	0.140
>4.0 to 4.3 microns		0.490	0.504	0.530	0.384	0.402
>4.3 to 4.5 microns		0.316	0.325	0.342	0.247	0.260
>4.5 to 5 microns		0.841	0.878	0.923	0.664	0.704
>5 to 5.5 microns		0.832	0.872	0.910	0.656	0.702
>5.5 to 5.7 microns		0.321	0.337	0.351	0.253	0.271
>5.7 to 5.9 microns, Phi 7.5		0.315	0.332	0.345	0.249	0.268
>5.9 to 7.8 microns, Phi 7		2.950	3.120	3.210	2.330	2.540
>7.8 to 8 microns		0.299	0.316	0.317	0.234	0.257
>8 to 8.5 microns		0.716	0.756	0.758	0.559	0.616
>8.5 to 8.9 microns		0.551	0.581	0.580	0.429	0.473
>8.9 to 9.1 microns		0.280	0.294	0.288	0.216	0.239
>9.1 to 9.5 microns		0.541	0.568	0.558	0.419	0.463
>9.5 to 9.8 microns		0.391	0.411	0.403	0.303	0.335
>9.8 to 10.1 microns		0.380	0.399	0.391	0.294	0.325
>10.1 to 10.6 microns		0.652	0.681	0.655	0.499	0.554
>10.6 to 11.1 microns		0.622	0.649	0.625	0.476	0.528
>11.1 to 11.3 microns		0.241	0.252	0.242	0.184	0.205
>11.3 to 11.7 microns, Phi 6.5		0.472	0.491	0.468	0.360	0.399
>11.7 to 14 microns		2.490	2.560	2.370	1.880	2.080
>14 to 14.8 microns		0.793	0.806	0.732	0.595	0.657
>14.8 to 15.6 microns		0.767	0.773	0.688	0.574	0.630
>15.6 to 16 microns		0.375	0.376	0.328	0.281	0.307
>16 to 20 microns		3.380	3.340	2.850	2.510	2.730
>20 to 23 microns, Phi 5.5		2.220	2.130	1.720	1.650	1.750
>23 to 27 microns		2.710	2.550	1.940	2.030	2.110
>27 to 31 microns, Phi 5		2.540	2.360	1.690	1.970	2.000
>31 to 32 microns		0.627	0.580	0.397	0.501	0.504
>32 to 35.6 microns		2.200	2.040	1.360	1.810	1.820
>35.6 to 37 microns, Phi 4.75		0.854	0.799	0.512	0.736	0.735
>37 to 39.6 microns		1.540	1.440	0.913	1.340	1.340
>39.6 to 43.6 microns		2.450	2.350	1.410	2.320	2.320
>43.6 to 44 microns, Phi 4.5		0.232	0.223	0.134	0.221	0.220
>44 to 45 microns		0.576	0.556	0.331	0.552	0.551
>45 to 46.4 microns		0.891	0.890	0.501	0.946	0.945
>46.4 to 53 microns, Phi 4.25		3.970	4.010	2.240	4.340	4.330
>53 to 62.5 microns, Phi 4		5.550	5.890	3.160	6.910	6.880
>62.5 to 64 microns		0.844	0.919	0.488	1.120	1.120
>64 to 71.7 microns		4.180	4.630	2.490	5.820	5.770
>71.7 to 74 microns		1.200	1.340	0.730	1.730	1.710
>74 to 79.6 microns		2.820	3.170	1.780	4.150	4.090
>79.6 to 87.6 microns		3.810	4.310	2.530	5.740	5.640

POINT LOMA WASTEWATER TREATMENT PLANT
 SEDIMENT SEMI-ANNUAL
 Grain Size
 (all values are in percent distribution)

Annual 2009

Analyte	MDL Units	E-1	E-2	E-3	E-5	E-5
		P480253 15-JUL-2009	P458158 13-JAN-2009	P480267 15-JUL-2009	P458164 13-JAN-2009	P480441 20-JUL-2009
>87.6 to 88 microns, Phi 3.5		0.181	0.205	0.120	0.273	0.268
>88 to 90 microns		0.922	1.030	0.667	1.370	1.340
>90 to 105 microns, Phi 3.25		6.440	7.070	5.000	9.370	9.100
>105 to 125 microns, Phi 3		7.400	7.720	7.070	9.570	9.230
>125 to 149 microns, Phi 2.75		7.080	6.920	8.740	7.560	7.260
>149 to 160 microns		2.530	2.330	3.930	2.220	2.130
>160 to 177 microns, Phi 2.5		3.300	2.980	5.670	2.630	2.530
>177 to 197 microns		2.810	2.440	5.780	1.870	1.820
>197 to 210 microns, Phi 2.25		1.310	1.100	2.980	0.778	0.759
>210 to 217 microns		0.611	0.511	1.450	0.345	0.337
>217 to 245 microns		1.820	1.500	4.450	0.979	0.961
>245 to 250 microns, Phi 2		0.243	0.198	0.617	0.123	0.121
>250 to 300 microns, Phi 1.75		1.550	1.250	3.860	0.764	0.754
>300 to 320 microns		0.273	0.220	0.607	0.137	0.135
>320 to 350 microns, Phi 1.5		0.343	0.277	0.744	0.174	0.172
>350 to 360 microns		0.068	0.056	0.127	0.037	0.037
>360 to 400 microns		0.242	0.198	0.445	0.134	0.132
>400 to 420 microns, Phi 1.25		0.075	0.062	0.116	0.046	0.045
>420 to 440 microns		0.071	0.059	0.110	0.044	0.043
>440 to 500 microns, Phi 1		0.149	0.128	0.206	0.100	0.024
>500 to 590 microns, Phi 0.75		0.036	0.031	0.048	0.025	0.000
>590 to 630 microns		0.000	0.000	0.000	0.000	0.000
>630 to 696 microns		0.000	0.000	0.000	0.000	0.000
>696 to 710 microns, Phi 0.5		0.000	0.000	0.000	0.000	0.000
>710 to 773 microns		0.000	0.000	0.000	0.000	0.000
>773 to 840 microns, Phi 0.25		0.000	0.000	0.000	0.000	0.000
>840 to 850 microns		0.000	0.000	0.000	0.000	0.000
>850 to 930 microns		0.000	0.000	0.000	0.000	0.000
>930 to 1000 microns, Phi 0		0.000	0.000	0.000	0.000	0.000
1000 to 1100 microns		0.000	0.000	0.000	0.000	0.000
>1100 to 1190 microns, Phi -0.25		0.000	0.000	0.000	0.000	0.000
>1190 to 1300 microns		0.000	0.000	0.000	0.000	0.000
>1300 to 1410 microns, Phi -0.5		0.000	0.000	0.000	0.000	0.000
>1410 to 1680 microns, Phi -0.75		0.000	0.000	0.000	0.000	0.000
>1680 to 2000 microns, Phi -1		0.000	0.000	0.000	0.000	0.000
>2000 microns*		ND	2.29*	ND	ND	ND
Totals:		100.026	102.287	100.021	100.004	100.021

*=A value in this field reflects a percentage of 30 grams remaining on a 2000 micron sieve. This value must be subtracted from the total percentage.

POINT LOMA WASTEWATER TREATMENT PLANT
 SEDIMENT SEMI-ANNUAL
 Grain Size
 (all values are in percent distribution)

Annual 2009

Analyte	MDL Units	E-7	E-8	E-8	E-9	E-11
		P480447 20-JUL-2009	P458170 13-JAN-2009	P480453 20-JUL-2009	P480461 20-JUL-2009	P458054 12-JAN-2009
<0.500 microns, Phi 11		0.000	0.000	0.000	0.000	0.000
>0.5 to 1 microns, Phi 10		0.496	0.000	0.000	0.102	0.000
>1 to 1.5 microns, Phi 9.5		0.463	0.243	0.249	0.447	0.238
>1.5 to 2 microns, Phi 9		0.525	0.412	0.414	0.559	0.405
>2.0 to 2.4 microns		0.471	0.381	0.381	0.530	0.376
>2.4 to 2.9 microns, Phi 8.5		0.623	0.512	0.514	0.724	0.506
>2.9 to 3.4 microns		0.652	0.542	0.547	0.778	0.536
>3.4 to 3.9 microns, Phi 8		0.712	0.597	0.606	0.873	0.591
>3.9 to 4 microns		0.147	0.124	0.127	0.183	0.123
>4.0 to 4.3 microns		0.423	0.357	0.364	0.524	0.353
>4.3 to 4.5 microns		0.272	0.230	0.235	0.339	0.227
>4.5 to 5 microns		0.724	0.616	0.631	0.915	0.608
>5 to 5.5 microns		0.711	0.608	0.624	0.904	0.598
>5.5 to 5.7 microns		0.274	0.234	0.241	0.349	0.230
>5.7 to 5.9 microns, Phi 7.5		0.270	0.231	0.237	0.343	0.226
>5.9 to 7.8 microns, Phi 7		2.500	2.150	2.220	3.200	2.100
>7.8 to 8 microns		0.251	0.216	0.223	0.317	0.208
>8 to 8.5 microns		0.600	0.517	0.534	0.760	0.499
>8.5 to 8.9 microns		0.461	0.397	0.410	0.581	0.382
>8.9 to 9.1 microns		0.233	0.200	0.207	0.290	0.192
>9.1 to 9.5 microns		0.452	0.387	0.400	0.561	0.371
>9.5 to 9.8 microns		0.326	0.280	0.289	0.405	0.268
>9.8 to 10.1 microns		0.317	0.272	0.281	0.393	0.260
>10.1 to 10.6 microns		0.540	0.462	0.476	0.659	0.438
>10.6 to 11.1 microns		0.515	0.440	0.454	0.629	0.418
>11.1 to 11.3 microns		0.200	0.171	0.176	0.244	0.162
>11.3 to 11.7 microns, Phi 6.5		0.392	0.333	0.344	0.472	0.316
>11.7 to 14 microns		2.070	1.750	1.800	2.410	1.650
>14 to 14.8 microns		0.662	0.553	0.569	0.746	0.518
>14.8 to 15.6 microns		0.646	0.536	0.550	0.708	0.500
>15.6 to 16 microns		0.319	0.262	0.269	0.341	0.245
>16 to 20 microns		2.900	2.360	2.410	2.980	2.190
>20 to 23 microns, Phi 5.5		1.970	1.560	1.580	1.850	1.440
>23 to 27 microns		2.530	1.940	1.970	2.170	1.800
>27 to 31 microns, Phi 5		2.540	1.900	1.930	2.020	1.790
>31 to 32 microns		0.660	0.489	0.496	0.503	0.467
>32 to 35.6 microns		2.400	1.780	1.810	1.800	1.720
>35.6 to 37 microns, Phi 4.75		0.986	0.729	0.743	0.726	0.716
>37 to 39.6 microns		1.800	1.340	1.360	1.320	1.320
>39.6 to 43.6 microns		3.110	2.350	2.400	2.280	2.360
>43.6 to 44 microns, Phi 4.5		0.295	0.223	0.228	0.216	0.224
>44 to 45 microns		0.738	0.558	0.571	0.541	0.563
>45 to 46.4 microns		1.240	0.971	0.995	0.923	1.000
>46.4 to 53 microns, Phi 4.25		5.620	4.470	4.580	4.220	4.630
>53 to 62.5 microns, Phi 4		8.400	7.230	7.370	6.620	7.570
>62.5 to 64 microns		1.310	1.180	1.200	1.060	1.240
>64 to 71.7 microns		6.440	6.170	6.230	5.430	6.470
>71.7 to 74 microns		1.830	1.840	1.850	1.590	1.930
>74 to 79.6 microns		4.210	4.400	4.420	3.760	4.600
>79.6 to 87.6 microns		5.470	6.080	6.090	5.100	6.340

POINT LOMA WASTEWATER TREATMENT PLANT
 SEDIMENT SEMI-ANNUAL
 Grain Size
 (all values are in percent distribution)

Annual 2009

Analyte	MDL Units	E-7	E-8	E-8	E-9	E-11
		P480447 20-JUL-2009	P458170 13-JAN-2009	P480453 20-JUL-2009	P480461 20-JUL-2009	P458054 12-JAN-2009
>87.6 to 88 microns, Phi 3.5		0.260	0.289	0.290	0.242	0.302
>88 to 90 microns		1.210	1.440	1.440	1.190	1.490
>90 to 105 microns, Phi 3.25		7.860	9.790	9.730	7.970	10.000
>105 to 125 microns, Phi 3		7.230	9.820	9.650	8.000	9.810
>125 to 149 microns, Phi 2.75		5.250	7.540	7.300	6.450	7.340
>149 to 160 microns		1.460	2.140	2.050	2.000	2.050
>160 to 177 microns, Phi 2.5		1.690	2.500	2.380	2.450	2.380
>177 to 197 microns		1.170	1.730	1.630	1.900	1.640
>197 to 210 microns, Phi 2.25		0.483	0.706	0.659	0.843	0.669
>210 to 217 microns		0.213	0.310	0.288	0.386	0.294
>217 to 245 microns		0.607	0.871	0.808	1.140	0.832
>245 to 250 microns, Phi 2		0.077	0.108	0.100	0.151	0.104
>250 to 300 microns, Phi 1.75		0.484	0.664	0.615	0.976	0.647
>300 to 320 microns		0.091	0.117	0.109	0.184	0.117
>320 to 350 microns, Phi 1.5		0.117	0.149	0.138	0.233	0.150
>350 to 360 microns		0.027	0.032	0.030	0.050	0.033
>360 to 400 microns		0.085	0.115	0.108	0.177	0.118
>400 to 420 microns, Phi 1.25		0.000	0.040	0.038	0.059	0.041
>420 to 440 microns		0.000	0.038	0.036	0.056	0.039
>440 to 500 microns, Phi 1		0.000	0.021	0.020	0.123	0.022
>500 to 590 microns, Phi 0.75		0.000	0.000	0.000	0.031	0.000
>590 to 630 microns		0.000	0.000	0.000	0.000	0.000
>630 to 696 microns		0.000	0.000	0.000	0.000	0.000
>696 to 710 microns, Phi 0.5		0.000	0.000	0.000	0.000	0.000
>710 to 773 microns		0.000	0.000	0.000	0.000	0.000
>773 to 840 microns, Phi 0.25		0.000	0.000	0.000	0.000	0.000
>840 to 850 microns		0.000	0.000	0.000	0.000	0.000
>850 to 930 microns		0.000	0.000	0.000	0.000	0.000
>930 to 1000 microns, Phi 0		0.000	0.000	0.000	0.000	0.000
1000 to 1100 microns		0.000	0.000	0.000	0.000	0.000
>1100 to 1190 microns, Phi -0.25		0.000	0.000	0.000	0.000	0.000
>1190 to 1300 microns		0.000	0.000	0.000	0.000	0.000
>1300 to 1410 microns, Phi -0.5		0.000	0.000	0.000	0.000	0.000
>1410 to 1680 microns, Phi -0.75		0.000	0.000	0.000	0.000	0.000
>1680 to 2000 microns, Phi -1		0.000	0.000	0.000	0.000	0.000
>2000 microns*		ND	ND	ND	ND	ND
Totals:		100.010	100.003	100.024	100.006	99.992

*=A value in this field reflects a percentage of 30 grams remaining on a 2000 micron sieve. This value must be subtracted from the total percentage.

POINT LOMA WASTEWATER TREATMENT PLANT
 SEDIMENT SEMI-ANNUAL
 Grain Size
 (all values are in percent distribution)

Annual 2009

Analyte	MDL Units	E-11	E-14	E-15	E-17	E-17
		P480430	P458059	P480436	P458065	P481117
		20-JUL-2009	12-JAN-2009	20-JUL-2009	12-JAN-2009	22-JUL-2009
<0.500 microns, Phi 11		0.000	0.000	0.000	0.000	0.000
>0.5 to 1 microns, Phi 10		0.000	0.000	0.000	0.000	0.000
>1 to 1.5 microns, Phi 9.5		0.231	0.114	0.250	0.114	0.236
>1.5 to 2 microns, Phi 9		0.388	0.378	0.427	0.364	0.392
>2.0 to 2.4 microns		0.363	0.369	0.403	0.340	0.364
>2.4 to 2.9 microns, Phi 8.5		0.497	0.513	0.554	0.462	0.496
>2.9 to 3.4 microns		0.537	0.558	0.598	0.495	0.534
>3.4 to 3.9 microns, Phi 8		0.603	0.633	0.675	0.552	0.599
>3.9 to 4 microns		0.127	0.133	0.140	0.116	0.126
>4.0 to 4.3 microns		0.363	0.381	0.403	0.333	0.361
>4.3 to 4.5 microns		0.234	0.246	0.260	0.215	0.233
>4.5 to 5 microns		0.633	0.668	0.702	0.581	0.630
>5 to 5.5 microns		0.623	0.658	0.688	0.576	0.622
>5.5 to 5.7 microns		0.240	0.254	0.265	0.222	0.240
>5.7 to 5.9 microns, Phi 7.5		0.237	0.250	0.260	0.219	0.236
>5.9 to 7.8 microns, Phi 7		2.190	2.320	2.390	2.060	2.210
>7.8 to 8 microns		0.216	0.227	0.232	0.207	0.219
>8 to 8.5 microns		0.516	0.544	0.555	0.496	0.524
>8.5 to 8.9 microns		0.395	0.416	0.424	0.380	0.401
>8.9 to 9.1 microns		0.196	0.206	0.209	0.192	0.201
>9.1 to 9.5 microns		0.380	0.398	0.404	0.371	0.389
>9.5 to 9.8 microns		0.274	0.288	0.292	0.268	0.281
>9.8 to 10.1 microns		0.266	0.279	0.283	0.260	0.272
>10.1 to 10.6 microns		0.443	0.463	0.467	0.440	0.457
>10.6 to 11.1 microns		0.423	0.442	0.445	0.420	0.436
>11.1 to 11.3 microns		0.164	0.171	0.172	0.163	0.169
>11.3 to 11.7 microns, Phi 6.5		0.318	0.331	0.333	0.317	0.329
>11.7 to 14 microns		1.620	1.670	1.680	1.650	1.700
>14 to 14.8 microns		0.504	0.516	0.515	0.519	0.529
>14.8 to 15.6 microns		0.481	0.489	0.488	0.500	0.508
>15.6 to 16 microns		0.233	0.235	0.234	0.244	0.247
>16 to 20 microns		2.060	2.050	2.040	2.170	2.190
>20 to 23 microns, Phi 5.5		1.310	1.270	1.260	1.400	1.410
>23 to 27 microns		1.590	1.510	1.500	1.720	1.720
>27 to 31 microns, Phi 5		1.550	1.440	1.440	1.680	1.690
>31 to 32 microns		0.403	0.367	0.367	0.434	0.437
>32 to 35.6 microns		1.480	1.340	1.340	1.590	1.600
>35.6 to 37 microns, Phi 4.75		0.618	0.556	0.556	0.662	0.668
>37 to 39.6 microns		1.140	1.030	1.020	1.220	1.230
>39.6 to 43.6 microns		2.070	1.860	1.850	2.200	2.220
>43.6 to 44 microns, Phi 4.5		0.196	0.176	0.176	0.209	0.211
>44 to 45 microns		0.493	0.444	0.442	0.525	0.531
>45 to 46.4 microns		0.893	0.812	0.803	0.947	0.954
>46.4 to 53 microns, Phi 4.25		4.160	3.810	3.760	4.410	4.440
>53 to 62.5 microns, Phi 4		7.050	6.650	6.510	7.430	7.410
>62.5 to 64 microns		1.180	1.140	1.110	1.240	1.230
>64 to 71.7 microns		6.270	6.170	6.020	6.560	6.480
>71.7 to 74 microns		1.890	1.900	1.850	1.980	1.940
>74 to 79.6 microns		4.590	4.660	4.580	4.770	4.670
>79.6 to 87.6 microns		6.450	6.690	6.600	6.670	6.500

POINT LOMA WASTEWATER TREATMENT PLANT
 SEDIMENT SEMI-ANNUAL
 Grain Size
 (all values are in percent distribution)

Annual 2009

Analyte	MDL Units	E-11	E-14	E-15	E-17	E-17
		P480430	P458059	P480436	P458065	P481117
		20-JUL-2009	12-JAN-2009	20-JUL-2009	12-JAN-2009	22-JUL-2009
>87.6 to 88 microns, Phi 3.5		0.307	0.318	0.314	0.317	0.309
>88 to 90 microns		1.550	1.630	1.630	1.590	1.540
>90 to 105 microns, Phi 3.25		10.600	11.200	11.200	10.700	10.400
>105 to 125 microns, Phi 3		10.600	11.200	11.300	10.400	10.200
>125 to 149 microns, Phi 2.75		8.040	8.290	8.320	7.580	7.510
>149 to 160 microns		2.250	2.240	2.240	2.040	2.050
>160 to 177 microns, Phi 2.5		2.610	2.550	2.540	2.310	2.350
>177 to 197 microns		1.790	1.680	1.670	1.520	1.570
>197 to 210 microns, Phi 2.25		0.724	0.667	0.660	0.603	0.626
>210 to 217 microns		0.317	0.289	0.285	0.261	0.271
>217 to 245 microns		0.889	0.802	0.790	0.725	0.755
>245 to 250 microns, Phi 2		0.110	0.098	0.096	0.089	0.092
>250 to 300 microns, Phi 1.75		0.673	0.596	0.585	0.542	0.562
>300 to 320 microns		0.118	0.104	0.102	0.096	0.098
>320 to 350 microns, Phi 1.5		0.150	0.133	0.131	0.123	0.125
>350 to 360 microns		0.032	0.029	0.028	0.027	0.027
>360 to 400 microns		0.116	0.093	0.092	0.087	0.088
>400 to 420 microns, Phi 1.25		0.041	0.000	0.000	0.000	0.000
>420 to 440 microns		0.039	0.000	0.000	0.000	0.000
>440 to 500 microns, Phi 1		0.022	0.000	0.000	0.000	0.000
>500 to 590 microns, Phi 0.75		0.000	0.000	0.000	0.000	0.000
>590 to 630 microns		0.000	0.000	0.000	0.000	0.000
>630 to 696 microns		0.000	0.000	0.000	0.000	0.000
>696 to 710 microns, Phi 0.5		0.000	0.000	0.000	0.000	0.000
>710 to 773 microns		0.000	0.000	0.000	0.000	0.000
>773 to 840 microns, Phi 0.25		0.000	0.000	0.000	0.000	0.000
>840 to 850 microns		0.000	0.000	0.000	0.000	0.000
>850 to 930 microns		0.000	0.000	0.000	0.000	0.000
>930 to 1000 microns, Phi 0		0.000	0.000	0.000	0.000	0.000
1000 to 1100 microns		0.000	0.000	0.000	0.000	0.000
>1100 to 1190 microns, Phi -0.25		0.000	0.000	0.000	0.000	0.000
>1190 to 1300 microns		0.000	0.000	0.000	0.000	0.000
>1300 to 1410 microns, Phi -0.5		0.000	0.000	0.000	0.000	0.000
>1410 to 1680 microns, Phi -0.75		0.000	0.000	0.000	0.000	0.000
>1680 to 2000 microns, Phi -1		0.000	0.000	0.000	0.000	0.000
>2000 microns*		ND	4.03	ND	ND	ND
Totals:		100.066	103.974	99.955	99.903	100.045

*=A value in this field reflects a percentage of 30 grams remaining on a 2000 micron sieve. This value must be subtracted from the total percentage.

POINT LOMA WASTEWATER TREATMENT PLANT
 SEDIMENT SEMI-ANNUAL
 Grain Size
 (all values are in percent distribution)

Annual 2009

Analyte	MDL Units	E-19	E-20	E-20	E-21	E-23
		P481124 22-JUL-2009	P458072 12-JAN-2009	P481127 22-JUL-2009	P481133 22-JUL-2009	P458078 12-JAN-2009
<0.500 microns, Phi 11		0.000	0.000	0.000	0.000	0.000
>0.5 to 1 microns, Phi 10		0.098	0.000	0.000	0.000	0.000
>1 to 1.5 microns, Phi 9.5		0.397	0.116	0.377	0.256	0.383
>1.5 to 2 microns, Phi 9		0.459	0.374	0.444	0.430	0.464
>2.0 to 2.4 microns		0.418	0.355	0.407	0.400	0.425
>2.4 to 2.9 microns, Phi 8.5		0.560	0.488	0.546	0.544	0.567
>2.9 to 3.4 microns		0.594	0.527	0.580	0.582	0.596
>3.4 to 3.9 microns, Phi 8		0.656	0.593	0.641	0.650	0.652
>3.9 to 4 microns		0.137	0.126	0.133	0.135	0.136
>4.0 to 4.3 microns		0.393	0.361	0.382	0.388	0.389
>4.3 to 4.5 microns		0.253	0.233	0.246	0.250	0.251
>4.5 to 5 microns		0.679	0.635	0.660	0.673	0.670
>5 to 5.5 microns		0.672	0.635	0.649	0.661	0.663
>5.5 to 5.7 microns		0.259	0.245	0.250	0.254	0.256
>5.7 to 5.9 microns, Phi 7.5		0.255	0.242	0.246	0.250	0.252
>5.9 to 7.8 microns, Phi 7		2.390	2.310	2.280	2.310	2.360
>7.8 to 8 microns		0.242	0.236	0.227	0.227	0.238
>8 to 8.5 microns		0.579	0.565	0.543	0.544	0.571
>8.5 to 8.9 microns		0.445	0.435	0.416	0.415	0.439
>8.9 to 9.1 microns		0.226	0.221	0.209	0.207	0.223
>9.1 to 9.5 microns		0.438	0.427	0.405	0.400	0.432
>9.5 to 9.8 microns		0.316	0.309	0.292	0.289	0.312
>9.8 to 10.1 microns		0.307	0.300	0.284	0.280	0.303
>10.1 to 10.6 microns		0.525	0.514	0.479	0.467	0.518
>10.6 to 11.1 microns		0.501	0.490	0.457	0.446	0.494
>11.1 to 11.3 microns		0.194	0.190	0.177	0.173	0.192
>11.3 to 11.7 microns, Phi 6.5		0.381	0.372	0.345	0.335	0.376
>11.7 to 14 microns		2.030	1.960	1.800	1.710	1.990
>14 to 14.8 microns		0.648	0.620	0.568	0.532	0.636
>14.8 to 15.6 microns		0.635	0.600	0.549	0.507	0.620
>15.6 to 16 microns		0.314	0.294	0.269	0.246	0.306
>16 to 20 microns		2.860	2.640	2.410	2.170	2.780
>20 to 23 microns, Phi 5.5		1.960	1.730	1.590	1.370	1.870
>23 to 27 microns		2.530	2.140	2.000	1.660	2.380
>27 to 31 microns, Phi 5		2.580	2.090	1.980	1.610	2.360
>31 to 32 microns		0.679	0.538	0.514	0.412	0.612
>32 to 35.6 microns		2.500	1.960	1.880	1.510	2.230
>35.6 to 37 microns, Phi 4.75		1.040	0.811	0.782	0.624	0.917
>37 to 39.6 microns		1.910	1.490	1.440	1.150	1.680
>39.6 to 43.6 microns		3.370	2.640	2.560	2.070	2.930
>43.6 to 44 microns, Phi 4.5		0.320	0.251	0.243	0.196	0.278
>44 to 45 microns		0.801	0.629	0.610	0.493	0.695
>45 to 46.4 microns		1.370	1.100	1.070	0.890	1.190
>46.4 to 53 microns, Phi 4.25		6.210	5.080	4.950	4.150	5.420
>53 to 62.5 microns, Phi 4		9.260	8.140	7.990	7.070	8.360
>62.5 to 64 microns		1.430	1.320	1.300	1.190	1.330
>64 to 71.7 microns		6.960	6.730	6.690	6.380	6.650
>71.7 to 74 microns		1.960	1.980	1.980	1.940	1.920
>74 to 79.6 microns		4.440	4.650	4.670	4.740	4.470
>79.6 to 87.6 microns		5.650	6.260	6.340	6.730	5.910

POINT LOMA WASTEWATER TREATMENT PLANT
 SEDIMENT SEMI-ANNUAL
 Grain Size
 (all values are in percent distribution)

Annual 2009

Analyte	MDL Units	E-19	E-20	E-20	E-21	E-23
		P481124 22-JUL-2009	P458072 12-JAN-2009	P481127 22-JUL-2009	P481133 22-JUL-2009	P458078 12-JAN-2009
>87.6 to 88 microns, Phi 3.5		0.269	0.298	0.302	0.320	0.281
>88 to 90 microns		1.220	1.430	1.460	1.620	1.320
>90 to 105 microns, Phi 3.25		7.720	9.390	9.660	11.000	8.630
>105 to 125 microns, Phi 3		6.730	8.700	9.040	10.700	7.910
>125 to 149 microns, Phi 2.75		4.660	6.160	6.430	7.550	5.620
>149 to 160 microns		1.260	1.660	1.720	1.970	1.520
>160 to 177 microns, Phi 2.5		1.440	1.890	1.960	2.210	1.740
>177 to 197 microns		0.993	1.270	1.310	1.420	1.180
>197 to 210 microns, Phi 2.25		0.410	0.514	0.522	0.556	0.479
>210 to 217 microns		0.181	0.225	0.227	0.239	0.210
>217 to 245 microns		0.518	0.634	0.636	0.660	0.594
>245 to 250 microns, Phi 2		0.066	0.079	0.078	0.080	0.074
>250 to 300 microns, Phi 1.75		0.421	0.495	0.485	0.488	0.464
>300 to 320 microns		0.081	0.092	0.088	0.087	0.086
>320 to 350 microns, Phi 1.5		0.105	0.118	0.112	0.110	0.110
>350 to 360 microns		0.024	0.026	0.025	0.024	0.025
>360 to 400 microns		0.078	0.085	0.080	0.079	0.080
>400 to 420 microns, Phi 1.25		0.000	0.000	0.000	0.000	0.000
>420 to 440 microns		0.000	0.000	0.000	0.000	0.000
>440 to 500 microns, Phi 1		0.000	0.000	0.000	0.000	0.000
>500 to 590 microns, Phi 0.75		0.000	0.000	0.000	0.000	0.000
>590 to 630 microns		0.000	0.000	0.000	0.000	0.000
>630 to 696 microns		0.000	0.000	0.000	0.000	0.000
>696 to 710 microns, Phi 0.5		0.000	0.000	0.000	0.000	0.000
>710 to 773 microns		0.000	0.000	0.000	0.000	0.000
>773 to 840 microns, Phi 0.25		0.000	0.000	0.000	0.000	0.000
>840 to 850 microns		0.000	0.000	0.000	0.000	0.000
>850 to 930 microns		0.000	0.000	0.000	0.000	0.000
>930 to 1000 microns, Phi 0		0.000	0.000	0.000	0.000	0.000
1000 to 1100 microns		0.000	0.000	0.000	0.000	0.000
>1100 to 1190 microns, Phi -0.25		0.000	0.000	0.000	0.000	0.000
>1190 to 1300 microns		0.000	0.000	0.000	0.000	0.000
>1300 to 1410 microns, Phi -0.5		0.000	0.000	0.000	0.000	0.000
>1410 to 1680 microns, Phi -0.75		0.000	0.000	0.000	0.000	0.000
>1680 to 2000 microns, Phi -1		0.000	0.000	0.000	0.000	0.000
>2000 microns*		ND	ND	ND	ND	ND
Totals:		100.007	100.018	99.995	100.029	100.019

*=A value in this field reflects a percentage of 30 grams remaining on a 2000 micron sieve. This value must be subtracted from the total percentage.

POINT LOMA WASTEWATER TREATMENT PLANT
 SEDIMENT SEMI-ANNUAL
 Grain Size
 (all values are in percent distribution)

Annual 2009

Analyte	MDL Units	E-23	E-25	E-25	E-26	E-26
		P481141 22-JUL-2009	P458085 12-JAN-2009	P481961 27-JUL-2009	P458090 12-JAN-2009	P481967 27-JUL-2009
<0.500 microns, Phi 11		0.000	0.000	0.000	0.000	0.000
>0.5 to 1 microns, Phi 10		0.102	0.099	0.100	0.000	0.100
>1 to 1.5 microns, Phi 9.5		0.412	0.424	0.412	0.418	0.424
>1.5 to 2 microns, Phi 9		0.476	0.510	0.481	0.538	0.508
>2.0 to 2.4 microns		0.433	0.469	0.437	0.511	0.466
>2.4 to 2.9 microns, Phi 8.5		0.582	0.628	0.582	0.695	0.625
>2.9 to 3.4 microns		0.617	0.663	0.612	0.741	0.661
>3.4 to 3.9 microns, Phi 8		0.682	0.729	0.671	0.826	0.729
>3.9 to 4 microns		0.142	0.152	0.139	0.172	0.151
>4.0 to 4.3 microns		0.409	0.436	0.398	0.494	0.434
>4.3 to 4.5 microns		0.263	0.281	0.257	0.318	0.280
>4.5 to 5 microns		0.707	0.752	0.684	0.856	0.747
>5 to 5.5 microns		0.698	0.742	0.673	0.845	0.736
>5.5 to 5.7 microns		0.269	0.286	0.259	0.326	0.283
>5.7 to 5.9 microns, Phi 7.5		0.265	0.282	0.255	0.321	0.279
>5.9 to 7.8 microns, Phi 7		2.470	2.630	2.360	2.990	2.590
>7.8 to 8 microns		0.248	0.263	0.236	0.298	0.259
>8 to 8.5 microns		0.594	0.630	0.566	0.714	0.620
>8.5 to 8.9 microns		0.456	0.483	0.434	0.547	0.476
>8.9 to 9.1 microns		0.230	0.243	0.219	0.275	0.240
>9.1 to 9.5 microns		0.445	0.471	0.424	0.532	0.464
>9.5 to 9.8 microns		0.322	0.340	0.307	0.384	0.335
>9.8 to 10.1 microns		0.312	0.330	0.298	0.373	0.325
>10.1 to 10.6 microns		0.530	0.560	0.506	0.630	0.552
>10.6 to 11.1 microns		0.505	0.534	0.482	0.601	0.527
>11.1 to 11.3 microns		0.196	0.207	0.187	0.233	0.204
>11.3 to 11.7 microns, Phi 6.5		0.383	0.404	0.366	0.454	0.399
>11.7 to 14 microns		2.010	2.110	1.930	2.360	2.090
>14 to 14.8 microns		0.635	0.665	0.611	0.741	0.663
>14.8 to 15.6 microns		0.615	0.641	0.593	0.714	0.642
>15.6 to 16 microns		0.301	0.313	0.292	0.348	0.315
>16 to 20 microns		2.710	2.800	2.640	3.110	2.840
>20 to 23 microns, Phi 5.5		1.800	1.830	1.760	2.020	1.890
>23 to 27 microns		2.250	2.260	2.230	2.490	2.370
>27 to 31 microns, Phi 5		2.230	2.190	2.210	2.420	2.340
>31 to 32 microns		0.578	0.562	0.570	0.619	0.603
>32 to 35.6 microns		2.110	2.040	2.070	2.240	2.190
>35.6 to 37 microns, Phi 4.75		0.871	0.834	0.849	0.910	0.894
>37 to 39.6 microns		1.590	1.520	1.550	1.660	1.630
>39.6 to 43.6 microns		2.800	2.650	2.700	2.850	2.830
>43.6 to 44 microns, Phi 4.5		0.266	0.252	0.256	0.270	0.268
>44 to 45 microns		0.666	0.630	0.641	0.676	0.671
>45 to 46.4 microns		1.150	1.080	1.100	1.140	1.140
>46.4 to 53 microns, Phi 4.25		5.270	4.930	5.010	5.170	5.220
>53 to 62.5 microns, Phi 4		8.230	7.670	7.790	7.870	8.070
>62.5 to 64 microns		1.320	1.220	1.250	1.240	1.280
>64 to 71.7 microns		6.640	6.200	6.320	6.230	6.470
>71.7 to 74 microns		1.930	1.810	1.840	1.800	1.880
>74 to 79.6 microns		4.500	4.230	4.320	4.180	4.380
>79.6 to 87.6 microns		5.990	5.670	5.810	5.540	5.830

POINT LOMA WASTEWATER TREATMENT PLANT
 SEDIMENT SEMI-ANNUAL
 Grain Size
 (all values are in percent distribution)

Annual 2009

Analyte	MDL Units	E-23	E-25	E-25	E-26	E-26
		P481141 22-JUL-2009	P458085 12-JAN-2009	P481961 27-JUL-2009	P458090 12-JAN-2009	P481967 27-JUL-2009
>87.6 to 88 microns, Phi 3.5		0.285	0.270	0.276	0.264	0.277
>88 to 90 microns		1.350	1.300	1.330	1.240	1.310
>90 to 105 microns, Phi 3.25		8.820	8.590	8.850	8.120	8.580
>105 to 125 microns, Phi 3		8.080	8.220	8.520	7.410	7.890
>125 to 149 microns, Phi 2.75		5.690	6.130	6.370	5.210	5.590
>149 to 160 microns		1.530	1.730	1.790	1.400	1.500
>160 to 177 microns, Phi 2.5		1.740	2.020	2.080	1.600	1.720
>177 to 197 microns		1.170	1.410	1.440	1.090	1.160
>197 to 210 microns, Phi 2.25		0.474	0.581	0.586	0.443	0.467
>210 to 217 microns		0.207	0.257	0.258	0.195	0.204
>217 to 245 microns		0.587	0.729	0.727	0.553	0.577
>245 to 250 microns, Phi 2		0.073	0.092	0.091	0.070	0.072
>250 to 300 microns, Phi 1.75		0.461	0.574	0.565	0.441	0.450
>300 to 320 microns		0.087	0.105	0.102	0.084	0.083
>320 to 350 microns, Phi 1.5		0.111	0.135	0.131	0.108	0.107
>350 to 360 microns		0.025	0.030	0.029	0.024	0.024
>360 to 400 microns		0.081	0.107	0.104	0.079	0.077
>400 to 420 microns, Phi 1.25		0.000	0.038	0.037	0.000	0.000
>420 to 440 microns		0.000	0.036	0.035	0.000	0.000
>440 to 500 microns, Phi 1		0.000	0.020	0.019	0.000	0.000
>500 to 590 microns, Phi 0.75		0.000	0.000	0.000	0.000	0.000
>590 to 630 microns		0.000	0.000	0.000	0.000	0.000
>630 to 696 microns		0.000	0.000	0.000	0.000	0.000
>696 to 710 microns, Phi 0.5		0.000	0.000	0.000	0.000	0.000
>710 to 773 microns		0.000	0.000	0.000	0.000	0.000
>773 to 840 microns, Phi 0.25		0.000	0.000	0.000	0.000	0.000
>840 to 850 microns		0.000	0.000	0.000	0.000	0.000
>850 to 930 microns		0.000	0.000	0.000	0.000	0.000
>930 to 1000 microns, Phi 0		0.000	0.000	0.000	0.000	0.000
1000 to 1100 microns		0.000	0.000	0.000	0.000	0.000
>1100 to 1190 microns, Phi -0.25		0.000	0.000	0.000	0.000	0.000
>1190 to 1300 microns		0.000	0.000	0.000	0.000	0.000
>1300 to 1410 microns, Phi -0.5		0.000	0.000	0.000	0.000	0.000
>1410 to 1680 microns, Phi -0.75		0.000	0.000	0.000	0.000	0.000
>1680 to 2000 microns, Phi -1		0.000	0.000	0.000	0.000	0.000
>2000 microns*		ND	ND	ND	ND	ND
Totals:		99.981	100.029	100.027	100.021	100.008

*=A value in this field reflects a percentage of 30 grams remaining on a 2000 micron sieve. This value must be subtracted from the total percentage.

POINT LOMA WASTEWATER TREATMENT PLANT
 OCEAN SEDIMENT ANNUAL SUMMARY
 Total Organic Carbon/Total Nitrogen

From 01-JAN-2009 to 31-DEC-2009

Analyte	MDL	Units	A-2	A-5	A-8	A-9	A-15	A-16	B-3
			Avg 2009	Avg 2009	Avg 2009	Avg 2009	Avg 2009	Avg 2009	Avg 2009
Total Nitrogen	.005	WT%	0.072	0.084	0.061	0.063	0.047	0.065	0.053
Total Organic Carbon	.01	WT%	0.806	0.789	0.754	0.681	0.652	0.707	0.643

Analyte	MDL	Units	B-5	B-8	B-9	B-10	B-11	B-12	E-1
			Avg 2009	Avg 2009	Avg 2009	Avg 2009	Avg 2009	Avg 2009	Avg 2009
Total Nitrogen	.005	WT%	0.062	0.087	0.058	0.054	0.083	0.054	0.044
Total Organic Carbon	.01	WT%	0.870	0.968	0.965	1.680	3.220	3.990	0.505

Analyte	MDL	Units	E-2	E-3	E-5	E-7	E-8	E-9	E-11
			Avg 2009	Avg 2009	Avg 2009	Avg 2009	Avg 2009	Avg 2009	Avg 2009
Total Nitrogen	.005	WT%	0.048	0.030	0.043	0.048	0.037	0.051	0.040
Total Organic Carbon	.01	WT%	0.726	0.463	0.715	0.605	0.666	1.780	0.730

Analyte	MDL	Units	E-14	E-15	E-17	E-19	E-20	E-21	E-23
			Avg 2009	Avg 2009	Avg 2009	Avg 2009	Avg 2009	Avg 2009	Avg 2009
Total Nitrogen	.005	WT%	0.043	0.045	0.043	0.053	0.053	0.044	0.055
Total Organic Carbon	.01	WT%	0.623	0.813	0.520	0.636	0.617	0.596	0.658

Analyte	MDL	Units	E-25	E-26
			Avg 2009	Avg 2009
Total Nitrogen	.005	WT%	0.054	0.065
Total Organic Carbon	.01	WT%	0.714	0.787

POINT LOMA WASTEWATER TREATMENT PLANT
ANNUAL OCEAN SEDIMENT - STANDARD
Trace Metals

From: 01-JAN-2009 to: 31-DEC-2009

Source:		A-2	A-5	A-8	A-9	A-15	A-16	B-3
Date:		2009	2009	2009	2009	2009	2009	2009
Analyte:	MDL Units	Average	Average	Average	Average	Average	Average	Average
Aluminum	2 MG/KG	12900	9510	12200	9740	10200	9660	8130
Antimony	.3 MG/KG	ND	ND	ND	ND	ND	ND	ND
Arsenic	.33 MG/KG	3.34	3.84	3.58	3.35	3.29	3.45	3.78
Barium	.02 MG/KG	56.9	51.7	58.9	52.3	52.3	51.2	44.5
Beryllium	.01 MG/KG	0.271	0.235	0.286	0.233	0.239	0.217	0.210
Cadmium	.06 MG/KG	0.20	0.24	0.21	0.25	0.21	0.21	0.16
Chromium	.1 MG/KG	19.9	18.5	19.9	18.0	18.2	17.4	16.6
Copper	.2 MG/KG	9.21	10.40	9.48	9.44	9.53	9.03	7.03
Iron	9 MG/KG	15800	12300	15600	12100	12400	11500	12700
Lead	.8 MG/KG	5.61	6.30	5.77	5.64	5.46	5.39	5.57
Manganese	.08 MG/KG	140.0	117.0	138.0	118.0	124.0	116.0	98.2
Mercury	.003 MG/KG	0.044	0.043	0.103	0.037	0.045	0.038	0.031
Nickel	.1 MG/KG	8.99	8.04	8.69	7.82	8.01	7.33	7.10
Selenium	.24 MG/KG	ND	ND	ND	ND	0.25	ND	ND
Silver	.04 MG/KG	ND	ND	ND	ND	ND	ND	ND
Thallium	.5 MG/KG	ND	ND	ND	ND	ND	ND	ND
Tin	.3 MG/KG	1.25	1.41	1.40	1.25	1.22	1.22	1.26
Zinc	.2 MG/KG	42.5	37.6	40.5	37.1	38.1	36.1	31.8

Source:		B-5	B-8	B-9	B-10	B-11	B-12	E-1
Date:		2009	2009	2009	2009	2009	2009	2009
Analyte:	MDL Units	Average	Average	Average	Average	Average	Average	Average
Aluminum	2 MG/KG	9480	8300	7320	5060	8610	4070	11300
Antimony	.3 MG/KG	ND	ND	<0.30	ND	ND	ND	ND
Arsenic	.33 MG/KG	3.49	4.12	3.53	2.44	4.25	6.48	3.25
Barium	.02 MG/KG	53.1	50.0	58.6	24.7	39.8	15.1	54.1
Beryllium	.01 MG/KG	0.264	0.263	0.142	0.233	0.315	0.169	0.249
Cadmium	.06 MG/KG	0.16	0.16	0.13	0.15	0.17	0.13	0.10
Chromium	.1 MG/KG	20.5	19.6	19.9	17.3	21.3	18.5	17.8
Copper	.2 MG/KG	7.03	8.97	6.04	5.03	8.31	2.28	9.45
Iron	9 MG/KG	15900	13000	14500	10800	16300	14900	15000
Lead	.8 MG/KG	5.84	6.68	4.82	3.95	5.86	3.28	6.33
Manganese	.08 MG/KG	121.0	112.0	90.7	61.2	114.0	45.8	108.0
Mercury	.003 MG/KG	0.023	0.033	0.024	0.015	0.040	0.015	0.058
Nickel	.1 MG/KG	7.64	9.15	7.37	5.55	8.60	4.47	8.61
Selenium	.24 MG/KG	ND	ND	ND	ND	ND	ND	ND
Silver	.04 MG/KG	ND	ND	ND	ND	ND	ND	ND
Thallium	.5 MG/KG	ND	ND	ND	ND	ND	ND	ND
Tin	.3 MG/KG	1.25	1.20	0.80	0.68	1.12	0.31	1.25
Zinc	.2 MG/KG	37.6	38.0	35.1	29.6	39.7	27.1	36.4

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

POINT LOMA WASTEWATER TREATMENT PLANT
ANNUAL OCEAN SEDIMENT - STANDARD
Trace Metals

From: 01-JAN-2009 to: 31-DEC-2009

Source:		E-2	E-3	E-5	E-7	E-8	E-9	E-11
Date:		2009	2009	2009	2009	2009	2009	2009
Analyte:	MDL Units	Average	Average	Average	Average	Average	Average	Average
Aluminum	2 MG/KG	6720	8290	6080	8700	7610	9720	7100
Antimony	.3 MG/KG	ND	ND	ND	ND	ND	ND	ND
Arsenic	.33 MG/KG	3.44	2.22	2.54	3.50	2.47	3.76	2.55
Barium	.02 MG/KG	43.2	48.9	26.1	40.7	29.4	33.7	28.2
Beryllium	.01 MG/KG	0.128	0.189	0.103	0.216	0.101	0.273	0.096
Cadmium	.06 MG/KG	0.06	0.10	<0.06	0.11	0.09	0.17	0.12
Chromium	.1 MG/KG	13.6	15.9	11.0	16.4	14.1	20.0	13.9
Copper	.2 MG/KG	8.41	10.70	4.91	7.24	5.42	11.70	5.69
Iron	9 MG/KG	11700	13300	8690	12700	10600	15400	10300
Lead	.8 MG/KG	4.62	8.57	2.72	4.65	3.38	5.48	3.08
Manganese	.08 MG/KG	79.5	105.0	63.8	94.1	79.5	90.6	76.6
Mercury	.003 MG/KG	0.052	0.065	0.033	0.035	0.024	0.032	0.025
Nickel	.1 MG/KG	5.87	5.27	4.87	7.69	6.13	7.74	6.14
Selenium	.24 MG/KG	<0.24	ND	ND	ND	ND	ND	ND
Silver	.04 MG/KG	ND	ND	ND	ND	ND	ND	ND
Thallium	.5 MG/KG	ND	ND	ND	ND	ND	ND	ND
Tin	.3 MG/KG	0.64	1.03	0.61	0.99	0.71	1.18	0.72
Zinc	.2 MG/KG	28.8	36.4	20.7	30.0	25.8	47.8	24.9

Source:		E-14	E-15	E-17	E-19	E-20	E-21	E-23
Date:		2009	2009	2009	2009	2009	2009	2009
Analyte:	MDL Units	Average	Average	Average	Average	Average	Average	Average
Aluminum	2 MG/KG	6960	6750	6480	9190	8480	7560	8930
Antimony	.3 MG/KG	<0.30	ND	ND	ND	<0.30	ND	ND
Arsenic	.33 MG/KG	3.19	2.44	3.05	2.42	2.47	2.77	3.00
Barium	.02 MG/KG	32.7	25.6	28.3	40.3	35.4	29.1	36.9
Beryllium	.01 MG/KG	0.094	0.183	0.086	0.221	0.113	0.191	0.113
Cadmium	.06 MG/KG	0.16	0.10	0.14	0.12	0.14	0.13	0.12
Chromium	.1 MG/KG	14.2	14.1	13.7	16.6	15.9	14.8	16.4
Copper	.2 MG/KG	6.51	5.26	5.28	6.49	6.29	5.94	6.62
Iron	9 MG/KG	10400	10300	9890	12800	11500	11100	12100
Lead	.8 MG/KG	8.04	3.54	3.51	3.70	3.94	3.76	4.02
Manganese	.08 MG/KG	80.4	71.1	71.5	99.6	91.9	77.4	93.2
Mercury	.003 MG/KG	0.014	0.026	0.015	0.022	0.026	0.014	0.023
Nickel	.1 MG/KG	6.49	6.38	6.37	7.93	7.19	6.93	8.00
Selenium	.24 MG/KG	ND	ND	ND	ND	ND	0.25	ND
Silver	.04 MG/KG	ND	ND	ND	ND	ND	ND	ND
Thallium	.5 MG/KG	ND	ND	ND	ND	ND	ND	ND
Tin	.3 MG/KG	0.77	0.84	0.44	0.99	0.69	0.94	0.67
Zinc	.2 MG/KG	25.9	24.3	24.8	30.6	28.4	25.9	29.5

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

POINT LOMA WASTEWATER TREATMENT PLANT
ANNUAL OCEAN SEDIMENT - STANDARD
Trace Metals

From: 01-JAN-2009 to: 31-DEC-2009

Source:		E-25	E-26
Date:		2009	2009
Analyte:	MDL Units	Average	Average
=====	=====	=====	=====
Aluminum	2 MG/KG	7380	8730
Antimony	.3 MG/KG	<0.30	<0.30
Arsenic	.33 MG/KG	2.14	2.90
Barium	.02 MG/KG	34.5	38.6
Beryllium	.01 MG/KG	0.100	0.110
Cadmium	.06 MG/KG	0.14	0.16
Chromium	.1 MG/KG	15.3	17.0
Copper	.2 MG/KG	6.95	7.39
Iron	9 MG/KG	10600	11600
Lead	.8 MG/KG	4.20	4.38
Manganese	.08 MG/KG	83.6	94.1
Mercury	.003 MG/KG	0.023	0.033
Nickel	.1 MG/KG	7.00	8.02
Selenium	.24 MG/KG	ND	ND
Silver	.04 MG/KG	ND	ND
Thallium	.5 MG/KG	ND	ND
Tin	.3 MG/KG	0.74	0.81
Zinc	.2 MG/KG	28.5	31.1

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

POINT LOMA WASTEWATER TREATMENT PLANT
 SEDIMENT ANNUAL Chlorinated Pesticide Analysis - STANDARD STATIONS

From 01-JAN-2009 To 31-DEC-2009

Analyte	MDL Units	A-2	A-5	A-8	A-9	A-15	A-16	B-3	B-5
		2009	2009	2009	2009	2009	2009	2009	2009
		Average	Average	Average	Average	Average	Average	Average	Average
Aldrin	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Alpha isomer	400 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Beta isomer	400 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Gamma isomer	400 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Delta isomer	400 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
p,p-DDD	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
p,p-DDE	400 NG/KG	550	E330	ND	650	590	ND	E370	ND
p,-p-DDMU	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
p,p-DDT	700 NG/KG	ND	ND	ND	ND	E200	ND	ND	ND
o,p-DDD	400 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDE	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDT	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Alpha (cis) Chlordane	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Gamma (trans) Chlordane	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Alpha Chlordene	NG/KG	NA	NA	NA	NA	NA	NA	NA	NA
Gamma Chlordene	NG/KG	NA	NA	NA	NA	NA	NA	NA	NA
Oxychlordane	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Trans Nonachlor	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Cis Nonachlor	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Alpha Endosulfan	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Beta Endosulfan	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Mirex	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
=====									
Aldrin + Dieldrin	700 NG/KG	0	0	0	0	0	0	0	0
Hexachlorocyclohexanes	400 NG/KG	0	0	0	0	0	0	0	0
DDT and derivatives	700 NG/KG	550	0	0	650	590	0	0	0
Chlordane + related cmpds.	700 NG/KG	0	0	0	0	0	0	0	0
=====									
Chlorinated Hydrocarbons	700 NG/KG	550	0	0	650	590	0	0	0

ND=not detected

NS=not sampled

NA=not analyzed

E=estimated value, value is less than the Method Detection Limit but confirmed by GC/MS-MS

POINT LOMA WASTEWATER TREATMENT PLANT
 SEDIMENT ANNUAL Chlorinated Pesticide Analysis - STANDARD STATIONS

From 01-JAN-2009 To 31-DEC-2009

Analyte	MDL Units	B-8	B-9	B-10	B-11	B-12	E-1	E-2	E-3
		2009	2009	2009	2009	2009	2009	2009	2009
		Average	Average	Average	Average	Average	Average	Average	Average
Aldrin	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Alpha isomer	400 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Beta isomer	400 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Gamma isomer	400 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Delta isomer	400 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
p,p-DDD	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	E190
p,p-DDE	400 NG/KG	700	<400	E330	530	E0	740	<400	E380
p,-p-DDMU	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
p,p-DDT	700 NG/KG	ND	ND	ND	ND	ND	E380	ND	ND
o,p-DDD	400 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDE	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDT	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Alpha (cis) Chlordane	700 NG/KG	ND	ND	ND	ND	ND	E300	ND	ND
Gamma (trans) Chlordane	700 NG/KG	ND	ND	ND	ND	ND	E650	ND	E350
Alpha Chlordene	NG/KG	NA	NA	NA	NA	NA	NA	NA	NA
Gamma Chlordene	NG/KG	NA	NA	NA	NA	NA	NA	NA	NA
Oxychlordane	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Trans Nonachlor	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Cis Nonachlor	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Alpha Endosulfan	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Beta Endosulfan	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Mirex	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
=====									
Aldrin + Dieldrin	700 NG/KG	0	0	0	0	0	0	0	0
Hexachlorocyclohexanes	400 NG/KG	0	0	0	0	0	0	0	0
DDT and derivatives	700 NG/KG	700	0	0	530	0	740	0	0
Chlordane + related cmpds.	700 NG/KG	0	0	0	0	0	0	0	0
=====									
Chlorinated Hydrocarbons	700 NG/KG	700	0	0	530	0	740	0	0

ND=not detected

NS=not sampled

NA=not analyzed

E=estimated value, value is less than the Method Detection Limit but confirmed by GC/MS-MS

POINT LOMA WASTEWATER TREATMENT PLANT
 SEDIMENT ANNUAL Chlorinated Pesticide Analysis - STANDARD STATIONS

From 01-JAN-2009 To 31-DEC-2009

Analyte	MDL Units	E-5	E-7	E-8	E-9	E-11	E-14	E-15	E-17
		2009	2009	2009	2009	2009	2009	2009	2009
		Average	Average	Average	Average	Average	Average	Average	Average
Aldrin	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Alpha isomer	400 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Beta isomer	400 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Gamma isomer	400 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Delta isomer	400 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
p,p-DDD	700 NG/KG	<700	E70	ND	ND	ND	ND	ND	ND
p,p-DDE	400 NG/KG	<400	590	<400	530	E0	<400	ND	<400
p,-p-DDMU	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
p,p-DDT	700 NG/KG	<700	ND	ND	ND	<700	ND	ND	ND
o,p-DDD	400 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDE	700 NG/KG	ND	ND	ND	E360	ND	ND	ND	ND
o,p-DDT	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Alpha (cis) Chlordane	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Gamma (trans) Chlordane	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Alpha Chlordene	NG/KG	NA	NA	NA	NA	NA	NA	NA	NA
Gamma Chlordene	NG/KG	NA	NA	NA	NA	NA	NA	NA	NA
Oxychlordane	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Trans Nonachlor	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Cis Nonachlor	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Alpha Endosulfan	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Beta Endosulfan	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	700 NG/KG	ND	ND	<700	ND	ND	ND	ND	ND
Mirex	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	700 NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Aldrin + Dieldrin	700 NG/KG	0	0	0	0	0	0	0	0
Hexachlorocyclohexanes	400 NG/KG	0	0	0	0	0	0	0	0
DDT and derivatives	700 NG/KG	0	590	0	530	0	0	0	0
Chlordane + related cmpds.	700 NG/KG	0	0	0	0	0	0	0	0
Chlorinated Hydrocarbons	700 NG/KG	0	590	0	530	0	0	0	0

ND=not detected

NS=not sampled

NA=not analyzed

E=estimated value, value is less than the Method Detection Limit but confirmed by GC/MS-MS

POINT LOMA WASTEWATER TREATMENT PLANT
 SEDIMENT ANNUAL Chlorinated Pesticide Analysis - STANDARD STATIONS

From 01-JAN-2009 To 31-DEC-2009

Analyte	MDL Units	E-19	E-20	E-21	E-23	E-25	E-26
		2009	2009	2009	2009	2009	2009
		Average	Average	Average	Average	Average	Average
Aldrin	700 NG/KG	ND	ND	ND	ND	ND	ND
Dieldrin	700 NG/KG	ND	ND	ND	ND	ND	ND
BHC, Alpha isomer	400 NG/KG	ND	ND	ND	ND	ND	ND
BHC, Beta isomer	400 NG/KG	ND	ND	ND	ND	ND	ND
BHC, Gamma isomer	400 NG/KG	ND	ND	ND	ND	ND	ND
BHC, Delta isomer	400 NG/KG	ND	ND	ND	ND	ND	ND
p,p-DDD	700 NG/KG	ND	ND	ND	ND	ND	ND
p,p-DDE	400 NG/KG	460	<400	ND	<400	<400	<400
p,-p-DDMU	NG/KG	ND	ND	ND	ND	ND	ND
p,p-DDT	700 NG/KG	ND	<700	E150	ND	ND	ND
o,p-DDD	400 NG/KG	ND	ND	ND	ND	ND	ND
o,p-DDE	700 NG/KG	ND	ND	ND	ND	ND	ND
o,p-DDT	700 NG/KG	ND	ND	ND	ND	ND	ND
Heptachlor	700 NG/KG	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	700 NG/KG	ND	ND	ND	ND	ND	ND
Alpha (cis) Chlordane	700 NG/KG	ND	ND	ND	ND	ND	ND
Gamma (trans) Chlordane	700 NG/KG	ND	ND	ND	ND	ND	ND
Alpha Chlordene	NG/KG	NA	NA	NA	NA	NA	NA
Gamma Chlordene	NG/KG	NA	NA	NA	NA	NA	NA
Oxychlordane	700 NG/KG	ND	ND	ND	ND	ND	ND
Trans Nonachlor	700 NG/KG	ND	ND	ND	ND	ND	ND
Cis Nonachlor	700 NG/KG	ND	ND	ND	ND	ND	ND
Alpha Endosulfan	700 NG/KG	ND	ND	ND	ND	ND	ND
Beta Endosulfan	700 NG/KG	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	700 NG/KG	ND	ND	ND	ND	ND	ND
Endrin	700 NG/KG	ND	ND	ND	ND	ND	ND
Endrin aldehyde	700 NG/KG	ND	ND	ND	ND	ND	ND
Mirex	700 NG/KG	ND	ND	ND	ND	ND	ND
Methoxychlor	700 NG/KG	ND	ND	ND	ND	ND	ND
=====							
Aldrin + Dieldrin	700 NG/KG	0	0	0	0	0	0
Hexachlorocyclohexanes	400 NG/KG	0	0	0	0	0	0
DDT and derivatives	700 NG/KG	460	0	0	0	0	0
Chlordane + related cmpds.	700 NG/KG	0	0	0	0	0	0
=====							
Chlorinated Hydrocarbons	700 NG/KG	460	0	0	0	0	0

ND=not detected

NS=not sampled

NA=not analyzed

E=estimated value, value is less than the Method Detection Limit but confirmed by GC/MS-MS

POINT LOMA WASTEWATER TREATMENT PLANT
 SEDIMENT ANNUAL - PCB Congeners (STANDARD STATIONS)

From 01-JAN-2009 To 31-DEC-2009

Analyte	MDL	Units	A-2	A-5	A-8	A-9	A-15	A-16	B-3	B-5
			2009	2009	2009	2009	2009	2009	2009	2009
			Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg
PCB 18	700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 28	700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 52	700	NG/KG	ND	ND	ND	E190	ND	ND	ND	ND
PCB 49	700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 44	700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 37	700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 74	700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 70	700	NG/KG	ND	ND	ND	E150	ND	ND	ND	ND
PCB 66	700	NG/KG	ND	ND	ND	ND	E280	ND	ND	ND
PCB 101	700	NG/KG	ND	ND	ND	E680	E370	ND	ND	ND
PCB 99	700	NG/KG	ND	ND	ND	E250	E100	ND	ND	ND
PCB 119	700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 87	700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 110	700	NG/KG	E90	ND	ND	E490	E86	E460	E88	ND
PCB 81	700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 151	700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 77	700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 149	700	NG/KG	E67	ND	ND	E260	E73	E320	ND	ND
PCB 123	700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 118	700	NG/KG	ND	ND	ND	E330	ND	E160	ND	ND
PCB 114	700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 105	700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 138	700	NG/KG	E220	ND	ND	E360	ND	E210	ND	ND
PCB 158	700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 187	700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 183	700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 126	1500	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 128	700	NG/KG	ND	ND	ND	E86	ND	ND	ND	ND
PCB 167	700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 177	700	NG/KG	ND	ND	ND	ND	ND	E160	ND	ND
PCB 201	700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 156	700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 157	700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 180	400	NG/KG	ND	ND	ND	ND	ND	620	E360	ND
PCB 170	700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Total PCB's	1500	NG/KG	0	0	0	0	0	620	0	0

ND=not detected

NS=not sampled

NA=not analyzed

E=estimated value, value is less than the Method Detection Limit but confirmed by GC/MS-MS

POINT LOMA WASTEWATER TREATMENT PLANT
 SEDIMENT ANNUAL - PCB Congeners (STANDARD STATIONS)

From 01-JAN-2009 To 31-DEC-2009

Analyte	MDL	Units	B-8	B-9	B-10	B-11	B-12	E-1	E-2	E-3
			2009	2009	2009	2009	2009	2009	2009	2009
			Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg
PCB 18	700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 28	700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 52	700	NG/KG	ND	ND	ND	ND	ND	1400	ND	E160
PCB 49	700	NG/KG	ND	ND	ND	ND	ND	E640	ND	E270
PCB 44	700	NG/KG	ND	ND	ND	ND	ND	870	ND	ND
PCB 37	700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 74	700	NG/KG	ND	ND	ND	ND	ND	E150	ND	E72
PCB 70	700	NG/KG	ND	ND	ND	ND	ND	900	ND	E220
PCB 66	700	NG/KG	ND	ND	ND	ND	ND	E300	ND	E72
PCB 101	700	NG/KG	ND	ND	ND	ND	ND	3000	ND	740
PCB 99	700	NG/KG	ND	ND	ND	ND	ND	930	ND	E230
PCB 119	700	NG/KG	ND	ND	ND	ND	ND	ND	ND	E150
PCB 87	700	NG/KG	ND	ND	ND	ND	ND	1300	ND	E360
PCB 110	700	NG/KG	ND	ND	ND	ND	ND	2500	ND	E640
PCB 81	700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 151	700	NG/KG	ND	ND	ND	ND	ND	E570	ND	E220
PCB 77	700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 149	700	NG/KG	ND	ND	ND	ND	ND	1500	<700	E600
PCB 123	700	NG/KG	ND	ND	ND	ND	ND	E190	ND	ND
PCB 118	700	NG/KG	ND	ND	ND	ND	ND	2000	ND	E490
PCB 114	700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 105	700	NG/KG	ND	ND	ND	ND	ND	790	ND	E210
PCB 138	700	NG/KG	ND	ND	ND	ND	ND	ND	<700	E660
PCB 158	700	NG/KG	ND	ND	ND	ND	ND	E140	ND	E95
PCB 187	700	NG/KG	ND	ND	ND	ND	ND	ND	ND	E210
PCB 183	700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 126	1500	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 128	700	NG/KG	ND	ND	ND	ND	ND	E470	ND	E170
PCB 167	700	NG/KG	ND	ND	ND	ND	ND	E110	ND	ND
PCB 177	700	NG/KG	ND	ND	ND	ND	ND	E240	ND	E250
PCB 201	700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 156	700	NG/KG	ND	ND	ND	ND	ND	E190	ND	E65
PCB 157	700	NG/KG	ND	ND	ND	ND	ND	E75	ND	ND
PCB 180	400	NG/KG	ND	ND	ND	ND	ND	2700	<400	660
PCB 170	700	NG/KG	ND	ND	ND	ND	ND	E350	ND	E140
Total PCB's	1500	NG/KG	0	0	0	0	0	17890	0	1400

ND=not detected

NS=not sampled

NA=not analyzed

E=estimated value, value is less than the Method Detection Limit but confirmed by GC/MS-MS

POINT LOMA WASTEWATER TREATMENT PLANT
 SEDIMENT ANNUAL - PCB Congeners (STANDARD STATIONS)

From 01-JAN-2009 To 31-DEC-2009

Analyte	MDL	Units	E-5	E-7	E-8	E-9	E-11	E-14	E-15	E-17
			2009	2009	2009	2009	2009	2009	2009	2009
			Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg
PCB 18	700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 28	700	NG/KG	ND	ND	ND	E350	ND	ND	ND	ND
PCB 52	700	NG/KG	ND	ND	ND	710	<700	ND	ND	ND
PCB 49	700	NG/KG	ND	ND	ND	820	ND	ND	ND	ND
PCB 44	700	NG/KG	ND	ND	ND	E270	<700	ND	ND	ND
PCB 37	700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 74	700	NG/KG	ND	ND	ND	E280	ND	ND	ND	ND
PCB 70	700	NG/KG	ND	ND	ND	E610	ND	ND	ND	ND
PCB 66	700	NG/KG	ND	ND	ND	E630	ND	ND	ND	ND
PCB 101	700	NG/KG	ND	E200	ND	1500	<700	ND	ND	ND
PCB 99	700	NG/KG	ND	ND	ND	E460	<700	ND	ND	ND
PCB 119	700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 87	700	NG/KG	ND	ND	ND	E630	<700	ND	ND	ND
PCB 110	700	NG/KG	<700	E84	<700	1200	<700	ND	ND	ND
PCB 81	700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 151	700	NG/KG	ND	ND	ND	E290	<700	ND	ND	ND
PCB 77	700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 149	700	NG/KG	<700	ND	ND	E630	<700	ND	ND	ND
PCB 123	700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 118	700	NG/KG	ND	ND	ND	970	<700	ND	ND	ND
PCB 114	700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 105	700	NG/KG	ND	ND	ND	E410	<700	ND	ND	ND
PCB 138	700	NG/KG	ND	E160	ND	940	ND	ND	ND	ND
PCB 158	700	NG/KG	ND	ND	ND	E110	ND	ND	ND	ND
PCB 187	700	NG/KG	ND	ND	ND	E89	ND	ND	ND	ND
PCB 183	700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 126	1500	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 128	700	NG/KG	ND	ND	ND	E300	<700	ND	ND	ND
PCB 167	700	NG/KG	ND	ND	ND	E53	ND	ND	ND	ND
PCB 177	700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 201	700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 156	700	NG/KG	ND	ND	ND	E130	ND	ND	ND	ND
PCB 157	700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 180	400	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 170	700	NG/KG	ND	ND	ND	E78	ND	ND	ND	ND
Total PCB's	1500	NG/KG	0	0	0	6140	0	0	0	0

ND=not detected
 NS=not sampled
 NA=not analyzed
 E=estimated value, value is less than the Method Detection Limit but confirmed by GC/MS-MS

POINT LOMA WASTEWATER TREATMENT PLANT
 SEDIMENT ANNUAL - PCB Congeners (STANDARD STATIONS)

From 01-JAN-2009 To 31-DEC-2009

Analyte	MDL	Units	E-19	E-20	E-21	E-23	E-25	E-26
			2009	2009	2009	2009	2009	2009
			Avg	Avg	Avg	Avg	Avg	Avg
PCB 18	700	NG/KG	ND	ND	ND	ND	ND	ND
PCB 28	700	NG/KG	ND	ND	ND	ND	ND	ND
PCB 52	700	NG/KG	ND	ND	ND	ND	ND	ND
PCB 49	700	NG/KG	ND	ND	ND	ND	ND	ND
PCB 44	700	NG/KG	ND	ND	ND	ND	ND	ND
PCB 37	700	NG/KG	ND	ND	ND	ND	ND	ND
PCB 74	700	NG/KG	ND	ND	ND	ND	ND	ND
PCB 70	700	NG/KG	ND	ND	ND	ND	ND	ND
PCB 66	700	NG/KG	ND	ND	ND	ND	ND	ND
PCB 101	700	NG/KG	ND	ND	ND	ND	ND	ND
PCB 99	700	NG/KG	ND	ND	ND	ND	ND	ND
PCB 119	700	NG/KG	ND	ND	ND	ND	ND	ND
PCB 87	700	NG/KG	ND	ND	ND	ND	ND	ND
PCB 110	700	NG/KG	ND	ND	ND	ND	<700	ND
PCB 81	700	NG/KG	ND	ND	ND	ND	ND	ND
PCB 151	700	NG/KG	ND	ND	ND	ND	ND	ND
PCB 77	700	NG/KG	ND	ND	ND	ND	ND	ND
PCB 149	700	NG/KG	ND	ND	ND	ND	ND	ND
PCB 123	700	NG/KG	ND	ND	ND	ND	ND	ND
PCB 118	700	NG/KG	ND	ND	ND	ND	ND	ND
PCB 114	700	NG/KG	ND	ND	ND	ND	ND	ND
PCB 105	700	NG/KG	ND	ND	ND	ND	ND	ND
PCB 138	700	NG/KG	ND	ND	ND	ND	ND	ND
PCB 158	700	NG/KG	ND	ND	ND	ND	ND	ND
PCB 187	700	NG/KG	ND	ND	ND	ND	ND	ND
PCB 183	700	NG/KG	ND	ND	ND	ND	ND	ND
PCB 126	1500	NG/KG	ND	ND	ND	ND	ND	ND
PCB 128	700	NG/KG	ND	ND	ND	ND	ND	ND
PCB 167	700	NG/KG	ND	ND	ND	ND	ND	ND
PCB 177	700	NG/KG	ND	ND	ND	ND	ND	ND
PCB 201	700	NG/KG	ND	ND	ND	ND	ND	ND
PCB 156	700	NG/KG	ND	ND	ND	ND	ND	ND
PCB 157	700	NG/KG	ND	ND	ND	ND	ND	ND
PCB 180	400	NG/KG	ND	ND	ND	ND	ND	ND
PCB 170	700	NG/KG	ND	ND	ND	ND	ND	ND
Total PCB's	1500	NG/KG	0	0	0	0	0	0

ND=not detected

NS=not sampled

NA=not analyzed

E=estimated value, value is less than the Method Detection Limit but confirmed by GC/MS-MS

POINT LOMA WASTEWATER TREATMENT PLANT
 SEDIMENT ANNUAL Base/Neutrals - Standard Stations

From 01-JAN-2009 to 31-DEC-2009

Analyte	MDL	Units	B-8	B-9	B-10	B-11	B-12	E-1	E-2	E-3	E-5	E-7	E-8	E-9	E-11
			2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009	2009
			Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg
Acenaphthene	40	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	40	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	40	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[A]anthracene	40	UG/KG	ND	ND	ND	ND	ND	ND	<40	35	ND	ND	ND	26	ND
Benzo[A]pyrene	40	UG/KG	ND	ND	ND	ND	ND	ND	<40	38	ND	ND	ND	ND	ND
3,4-benzo(B)fluoranthene	51	UG/KG	ND	ND	ND	ND	ND	<20	<51	44	ND	ND	ND	23	ND
Benzo[e]pyrene	73	UG/KG	ND	ND	ND	ND	ND	ND	ND	25	ND	ND	ND	ND	ND
Benzo[G,H,I]perylene	66	UG/KG	ND	ND	ND	ND	ND	ND	ND	27	ND	ND	ND	ND	ND
Benzo[K]fluoranthene	70	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Biphenyl	40	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	40	UG/KG	ND	ND	ND	ND	ND	ND	<40	52	ND	ND	ND	46	ND
Dibenzo(A,H)anthracene	50	UG/KG	ND	ND	ND	ND	ND	<20	ND	ND	ND	ND	ND	ND	ND
2,6-dimethylnaphthalene	40	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	40	UG/KG	ND	ND	ND	ND	ND	ND	ND	43	ND	ND	ND	ND	ND
Fluorene	40	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-CD)pyrene	67	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-methylphenanthrene	40	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-methylnaphthalene	40	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-methylnaphthalene	40	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	40	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perylene	40	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	40	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	40	UG/KG	ND	ND	ND	ND	ND	ND	ND	48	ND	ND	ND	ND	ND
2,3,5-trimethylnaphthalene	40	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Base/Neutral Compounds	73	UG/KG	0	0	0	0	0	0	0	312	0	0	0	95	0

Analyte	MDL	Units	E-14	E-15	E-17	E-19	E-20	E-21	E-23	E-25	E-26
			2009	2009	2009	2009	2009	2009	2009	2009	2009
			Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg
Acenaphthene	40	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	40	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	40	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[A]anthracene	40	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[A]pyrene	40	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,4-benzo(B)fluoranthene	51	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[e]pyrene	73	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[G,H,I]perylene	66	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[K]fluoranthene	70	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND
Biphenyl	40	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	40	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(A,H)anthracene	50	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-dimethylnaphthalene	40	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	40	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	40	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-CD)pyrene	67	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-methylphenanthrene	40	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-methylnaphthalene	40	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-methylnaphthalene	40	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	40	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND
Perylene	40	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	40	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	40	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,5-trimethylnaphthalene	40	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND
Base/Neutral Compounds	73	UG/KG	0	0	0	0	0	0	0	0	0

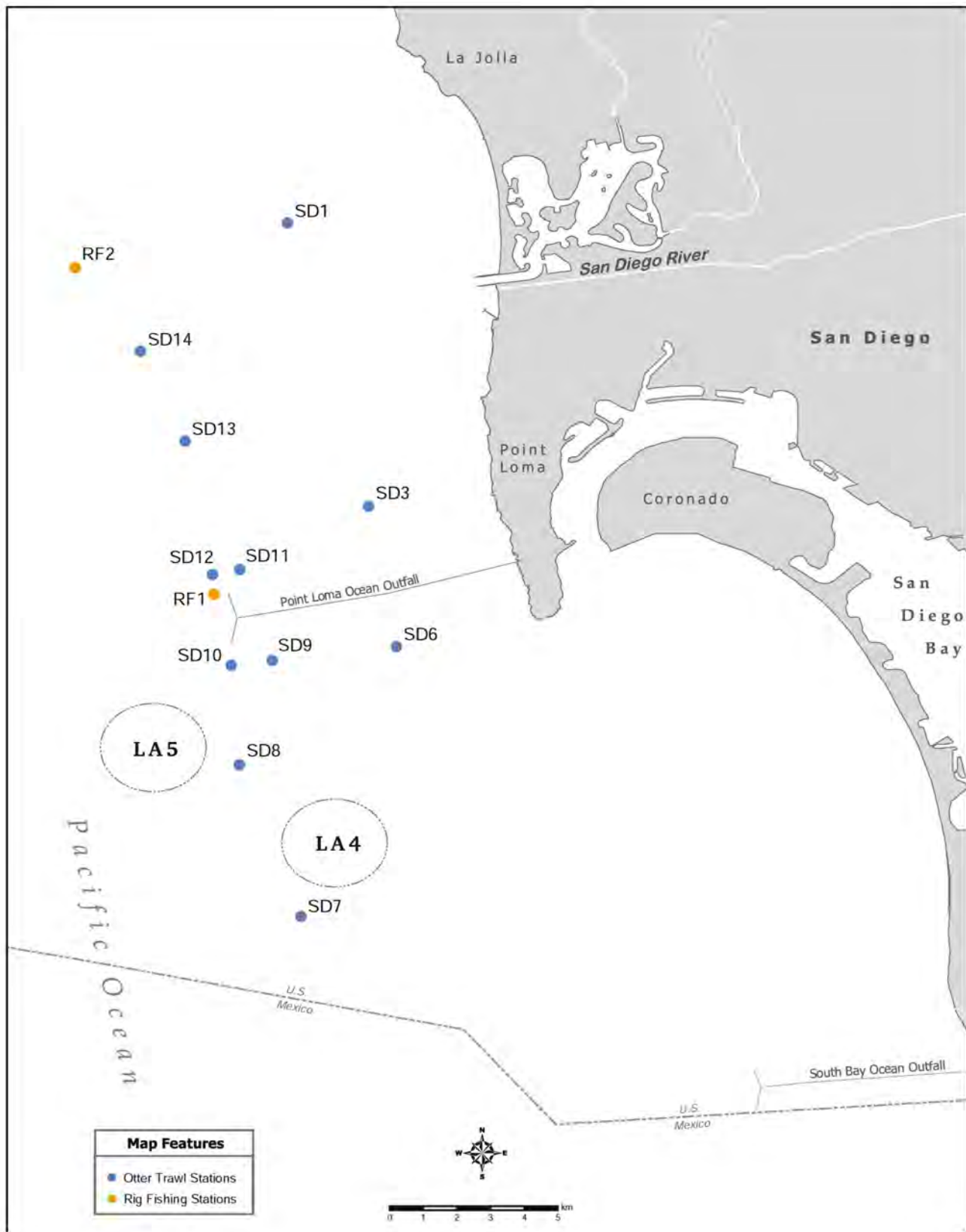
nd=not detected; NS=not sampled; NA=not analyzed

B. Fish Tissue Data.

Fish were taken from the stations shown in the below tables during 2009. The fish were dissected, preserved by freezing, and each sample analyzed for trace metals, chlorinated pesticides, PCBs, Lipids, and total solids.

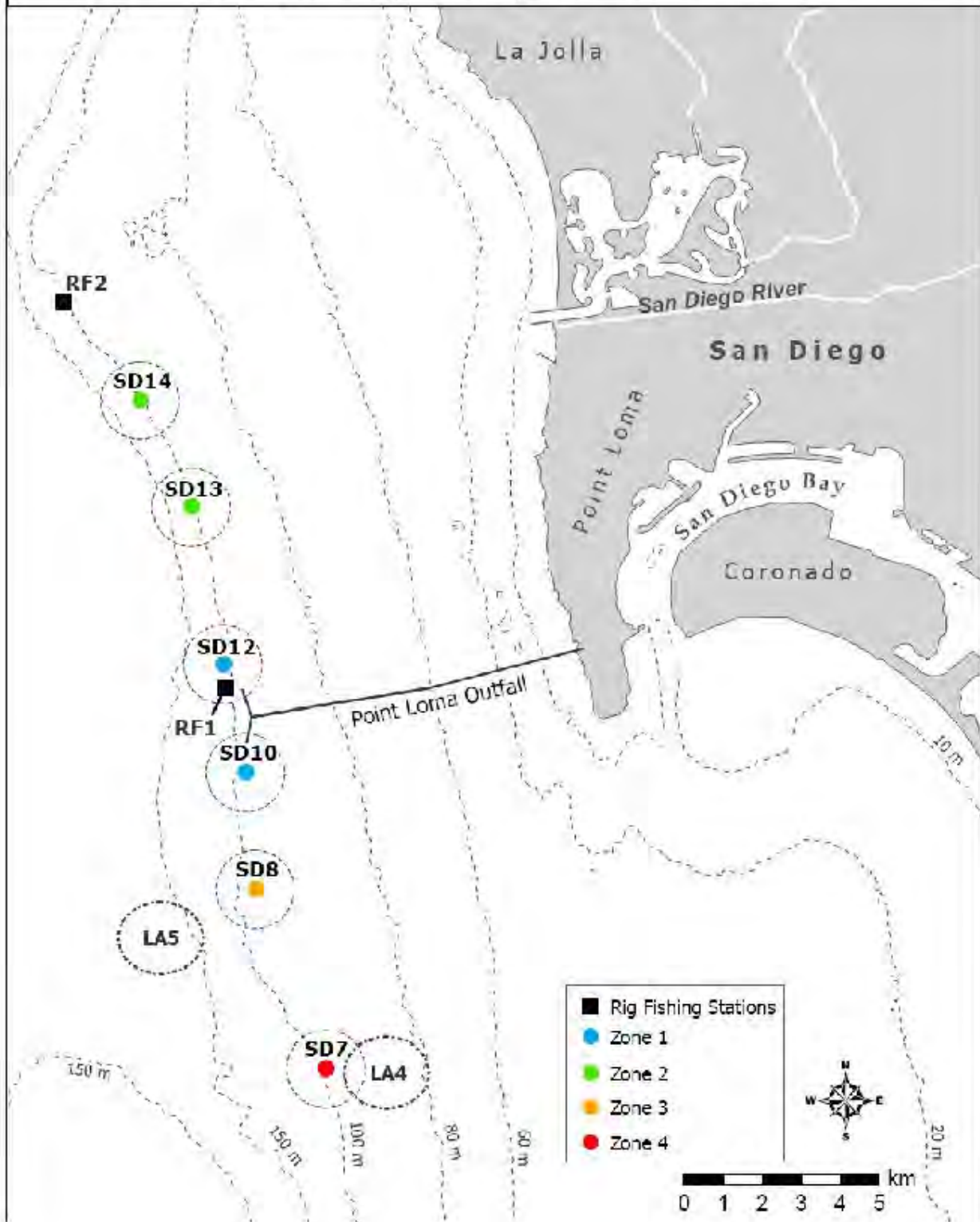
The reported values are annual averages. Results for individual sampling events are contained in the previously published quarterly reports.

<u>Station</u>	<u>Matrix</u>	<u>Station</u>	<u>Matrix</u>
RF-1	FISH_MUSCLE	TFZONE1 (SD-10 & 12)	FISH_LIVER
RF-2	FISH_MUSCLE	TFZONE2 (SD-13 & 14)	FISH_LIVER
		TFZONE3 (SD-8)	FISH_LIVER
		TFZONE4 (SD-7)	FISH_LIVER



San Diego Rig Fishing and Trawl Stations

Point Loma Rig Fishing and Trawl Stations



New Trawl Stations representing zones (i.e. TFZONE1 through TFZONE4).

POINT LOMA WASTEWATER TREATMENT PLANT
Annual Fish Tissue - Muscle/Liver

FISH - Lipids & Total Solids

From 01-JAN-2009 To 31-DEC-2009

Tissue Analyte	MDL	Units	RF-1 2009 Avg	RF-2 2009 Avg	TFZONE1 2009 Avg	TFZONE2 2009 Avg	TFZONE3 2009 Avg	TFZONE4 2009 Avg
Liver Lipids	.005	WT%			44.3	42.5	38.9	37.9
Liver Total Solids	.4	WT%			54.7	57.3	50.3	51.2
Muscle Lipids	.005	WT%	0.76	0.66				
Muscle Total Solids	.4	WT%	22.4	21.6				

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

POINT LOMA WASTEWATER TREATMENT PLANT
ANNUAL FISH TISSUE - LIVER
Trace Metals

From: 01-JAN-2009 To: 31-DEC-2009

Source:			TFZONE1	TFZONE2	TFZONE3	TFZONE4
Date:			2009	2009	2009	2009
Analyte:	MDL	Units	Average	Average	Average	Average
=====	====	=====	=====	=====	=====	=====
Aluminum	3	MG/KG	7.28	12.80	16.30	12.30
Antimony	.2	MG/KG	ND	<0.20	ND	ND
Arsenic	.24	MG/KG	3.46	2.94	3.28	3.28
Beryllium	.006	MG/KG	0.01	<0.01	ND	ND
Cadmium	.06	MG/KG	5.99	2.56	6.48	9.27
Chromium	.1	MG/KG	<0.10	0.19	0.13	<0.10
Copper	.1	MG/KG	6.41	3.63	5.41	6.89
Iron	2	MG/KG	68	43	64	74
Lead	.2	MG/KG	ND	ND	ND	ND
Manganese	.1	MG/KG	0.86	0.70	1.02	0.89
Mercury	.03	MG/KG	0.085	0.035	0.117	0.187
Nickel	.2	MG/KG	ND	<0.20	ND	ND
Selenium	.06	MG/KG	0.97	0.89	1.09	1.21
Silver	.05	MG/KG	<0.05	ND	ND	ND
Thallium	.4	MG/KG	ND	0.78	0.42	ND
Tin	.2	MG/KG	0.51	ND	ND	<0.20
Zinc	.15	MG/KG	23.4	18.1	24.7	26.8
Total Solids	.4	WT%	54.7	57.3	50.3	51.2

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

POINT LOMA WASTEWATER TREATMENT PLANT
ANNUAL FISH TISSUE - MUSCLE
Trace Metals

From: 01-JAN-2009 To: 31-DEC-2009

Source:			RF-1	RF-2
Date:			2009	2009
Analyte:	MDL	Units	Average	Average
=====	=====	=====	=====	=====
Aluminum	3	MG/KG	5.14	5.76
Antimony	.2	MG/KG	ND	ND
Arsenic	.24	MG/KG	1.82	1.53
Beryllium	.006	MG/KG	ND	ND
Cadmium	.06	MG/KG	ND	ND
Chromium	.1	MG/KG	0.12	0.13
Copper	.1	MG/KG	0.47	0.39
Iron	2	MG/KG	2.04	<2.00
Lead	.2	MG/KG	ND	ND
Manganese	.1	MG/KG	ND	ND
Mercury	.03	MG/KG	0.179	0.203
Nickel	.2	MG/KG	ND	ND
Selenium	.06	MG/KG	0.505	0.407
Silver	.05	MG/KG	0.05	<0.05
Thallium	.4	MG/KG	ND	ND
Tin	.2	MG/KG	ND	ND
Zinc	.15	MG/KG	3.48	2.90
Total Solids	.4	WT%	22.4	21.6

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

POINT LOMA WASTEWATER TREATMENT PLANT
ANNUAL FISH LIVER - Chlorinated Pesticides

From 01-JAN-2009 To 31-DEC-2009

Analyte	MDL	Units	TFZONE1	TFZONE2	TFZONE3	TFZONE4
			2009	2009	2009	2009
			Avg	Avg	Avg	Avg
Hexachlorobenzene	1.63	UG/KG	5.8	6.7	5.5	7.2
BHC, Gamma isomer	63.4	UG/KG	ND	ND	ND	ND
Heptachlor	3.82	UG/KG	ND	ND	ND	ND
Aldrin	88.1	UG/KG	ND	ND	ND	ND
Heptachlor epoxide	3.89	UG/KG	ND	ND	ND	ND
o,p-DDE	2.79	UG/KG	ND	3.7	ND	ND
Alpha Endosulfan	118	UG/KG	ND	ND	ND	ND
Alpha (cis) Chlordane	4.56	UG/KG	ND	ND	ND	ND
Trans Nonachlor	2.58	UG/KG	ND	ND	ND	ND
p,p-DDE	2.08	UG/KG	343	470	317	348
p,-p-DDMU	3.29	UG/KG	21.0	19.0	19.7	18.5
Dieldrin	17.1	UG/KG	ND	ND	ND	ND
o,p-DDD	2.02	UG/KG	ND	ND	ND	ND
Endrin	14.2	UG/KG	ND	ND	ND	ND
o,p-DDT	1.62	UG/KG	ND	ND	ND	ND
p,p-DDD	3.36	UG/KG	6.7	7.9	5.4	5.5
p,p-DDT	2.69	UG/KG	8.2	10.1	10.1	8.3
Mirex	1.49	UG/KG	ND	ND	ND	ND

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

E=estimated value, value is less than the Method Detection Limit but confirmed by GC/MS-MS

Note: 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
ANNUAL FISH MUSCLE - Chlorinated Pesticides

From 01-JAN-2009 To 31-DEC-2009

Analyte	MDL	Units	RF-1	RF-2
			2009	2009
			Avg	Avg
=====			=====	=====
Hexachlorobenzene	.13	UG/KG	ND	ND
BHC, Gamma isomer	6.34	UG/KG	ND	ND
Heptachlor	.38	UG/KG	ND	ND
Aldrin	8.81	UG/KG	ND	ND
Heptachlor epoxide	.39	UG/KG	ND	ND
o,p-DDE	.28	UG/KG	ND	ND
Alpha Endosulfan	11.8	UG/KG	ND	ND
Alpha (cis) Chlordane	.46	UG/KG	ND	ND
Trans Nonachlor	.26	UG/KG	ND	ND
p,p-DDE	.21	UG/KG	7.1	5.4
p,-p-DDMU	.33	UG/KG	<0.3	<0.3
Dieldrin	1.71	UG/KG	ND	ND
o,p-DDD	.2	UG/KG	ND	ND
Endrin	1.42	UG/KG	ND	ND
o,p-DDT	.16	UG/KG	ND	ND
p,p-DDD	.34	UG/KG	ND	ND
p,p-DDT	.27	UG/KG	ND	ND
Mirex	.15	UG/KG	ND	ND

ND= not detected

NA= not analyzed

NS= not sampled

E=estimated value, value is less than the Method Detection Limit but confirmed by GC/MS-MS

Note: 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
ANNUAL FISH LIVER - Poly Chlorinated Biphenyls (PCB's)

From 01-JAN-2009 To 31-DEC-2009

Analyte	MDL	Units	TFZONE1	TFZONE2	TFZONE3	TFZONE4
			2009	2009	2009	2009
			Avg	Avg	Avg	Avg
=====			=====	=====	=====	=====
PCB 18	2.86	UG/KG	ND	ND	ND	ND
PCB 28	2.47	UG/KG	<2.5	ND	ND	ND
PCB 49	5.02	UG/KG	<5.0	<5.0	<5.0	<5.0
PCB 37	2.77	UG/KG	ND	ND	ND	ND
PCB 70	2.49	UG/KG	2.9	<2.5	E3.1	3.2
PCB 101	4.34	UG/KG	14.7	15.0	19.7	15.0
PCB 119	2.39	UG/KG	ND	ND	ND	ND
PCB 87	3.01	UG/KG	ND	ND	ND	ND
PCB 110	2.5	UG/KG	8.6	6.8	14.3	10.5
PCB 151	1.86	UG/KG	5.9	5.8	7.4	6.3
PCB 77	2.01	UG/KG	ND	ND	ND	ND
PCB 149	2.34	UG/KG	7.1	8.5	10.3	8.0
PCB 123	2.64	UG/KG	ND	ND	ND	ND
PCB 118	2.06	UG/KG	17.0	11.3	21.3	17.0
PCB 114	3.15	UG/KG	ND	ND	ND	ND
PCB 153/168	2.54	UG/KG	44.0	40.0	44.0	41.8
PCB 105	2.29	UG/KG	ND	<2.3	<2.3	4.7
PCB 138	1.73	UG/KG	27.3	24.3	28.7	26.2
PCB 158	2.72	UG/KG	ND	ND	ND	ND
PCB 187	2.5	UG/KG	18.0	17.7	19.7	17.5
PCB 183	1.55	UG/KG	2.0	3.8	3.7	4.3
PCB 126	1.52	UG/KG	ND	ND	ND	ND
PCB 128	1.23	UG/KG	5.7	3.4	3.6	5.0
PCB 167	1.63	UG/KG	<1.6	ND	ND	ND
PCB 177	1.91	UG/KG	<1.9	ND	ND	ND
PCB 156	.64	UG/KG	ND	ND	1.2	ND
PCB 157	2.88	UG/KG	ND	ND	ND	ND
PCB 180	2.58	UG/KG	16.3	16.6	16.7	16.0
PCB 170	1.23	UG/KG	4.0	3.0	ND	6.8
PCB 169	2.76	UG/KG	ND	ND	ND	ND
PCB 189	1.78	UG/KG	ND	ND	ND	ND
PCB 194	1.14	UG/KG	4.7	2.8	2.9	4.3
PCB 206	1.28	UG/KG	ND	ND	ND	ND

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

E=estimated value, value is less than the Method Detection Limit but confirmed by GC/MS-MS

POINT LOMA WASTEWATER TREATMENT PLANT
ANNUAL FISH MUSCLE - Poly Chlorinated Biphenyls (PCB's)

From 01-JAN-2009 To 31-DEC-2009

Analyte	MDL Units	RF-1	RF-2
		2009	2009
		Avg	Avg
=====	====	=====	=====
PCB 18	.29 UG/KG	ND	ND
PCB 28	.28 UG/KG	ND	ND
PCB 49	.5 UG/KG	<0.5	ND
PCB 37	.25 UG/KG	ND	ND
PCB 70	.25 UG/KG	<0.3	ND
PCB 101	.43 UG/KG	E0.7	<0.4
PCB 119	.24 UG/KG	ND	ND
PCB 87	.3 UG/KG	0.3	ND
PCB 110	.25 UG/KG	0.7	ND
PCB 151	.19 UG/KG	ND	ND
PCB 77	.2 UG/KG	ND	ND
PCB 149	.23 UG/KG	<0.2	ND
PCB 123	.26 UG/KG	ND	ND
PCB 118	.21 UG/KG	0.7	<0.2
PCB 114	.31 UG/KG	ND	ND
PCB 153/168	.25 UG/KG	1.2	0.7
PCB 105	.23 UG/KG	<0.2	ND
PCB 138	.17 UG/KG	0.7	0.2
PCB 158	.27 UG/KG	ND	ND
PCB 187	.25 UG/KG	0.3	<0.3
PCB 183	.15 UG/KG	ND	ND
PCB 126	.15 UG/KG	ND	ND
PCB 128	.12 UG/KG	<0.1	ND
PCB 167	.16 UG/KG	ND	ND
PCB 177	.19 UG/KG	ND	ND
PCB 156	.06 UG/KG	ND	ND
PCB 157	.29 UG/KG	ND	ND
PCB 180	.26 UG/KG	0.4	ND
PCB 170	.12 UG/KG	ND	ND
PCB 169	.28 UG/KG	ND	ND
PCB 189	.18 UG/KG	ND	ND
PCB 194	.11 UG/KG	ND	ND
PCB 206	.13 UG/KG	ND	ND

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

E=estimated value, value is less than the Method Detection Limit but confirmed by GC/MS-MS