

V. Ocean Monitoring Data Summary

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

Maps, with sampling sites labeled, are included in this section.

Summary of Sampling Technique⁶:

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 Predischage Monitoring, such as SD-15, SD-17,SD-21 and RF-3 & -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) was removed by the modifications, although they were done in 2004 for RF-1 and -2 and are included here this year.

⁶ 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 2002.

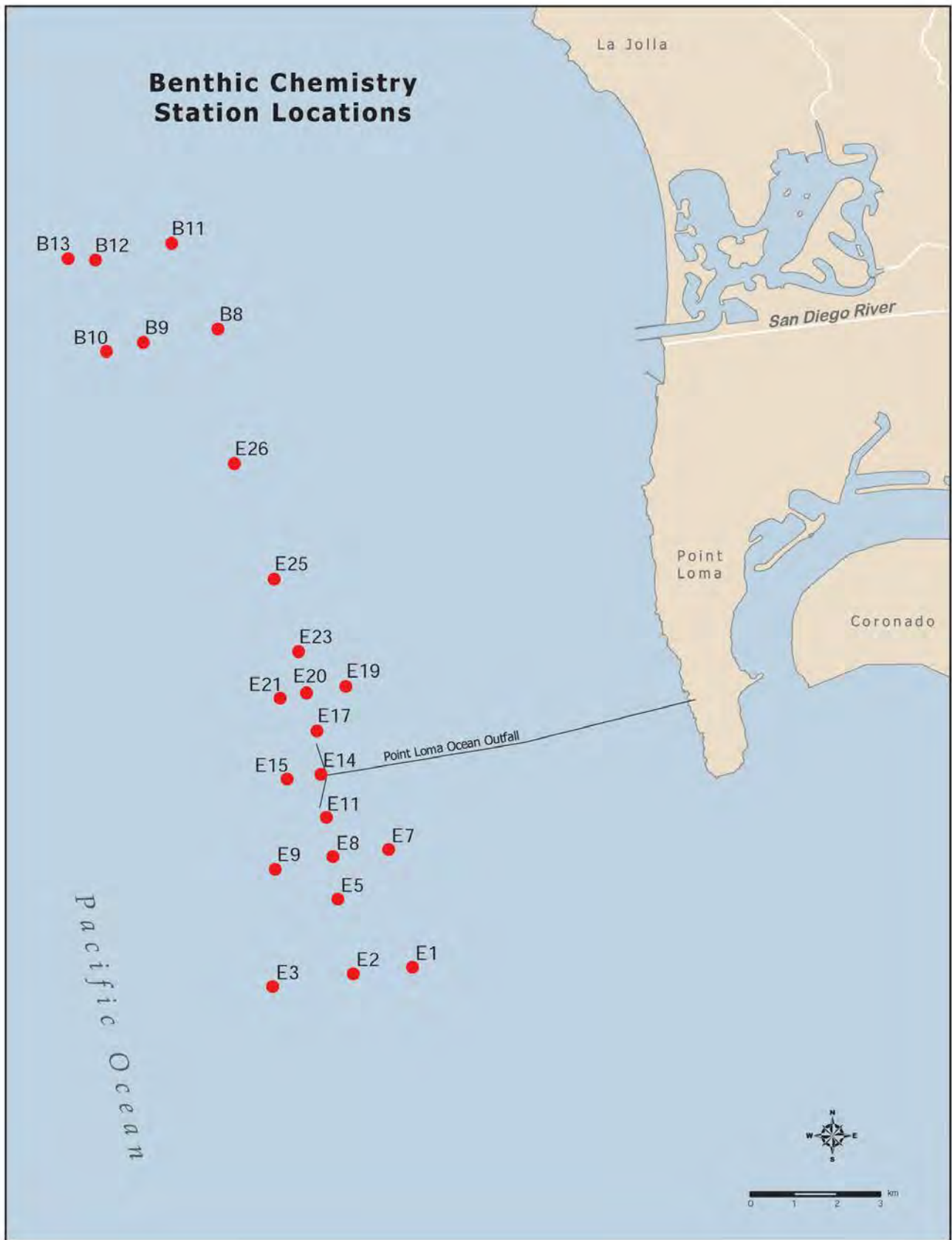
A. Ocean Sediment Chemistries .

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. The 18 benthic stations sampled this year are identified on the preceding map and cross-referenced below. Stations identified with "DUP" were field replicates.

Stations

B-10	E-1	E-2	E-3
B-11	E-11	E-20	E-5
B-12	E-14	E-21	E-7
B-13 (not sampled this year)	E-14 DUP	E-23	E-8
B-8	E-15	E-23 DUP	E-9
B-9	E-17	E-25	
B-9 DUP	E-19	E-26	



San Diego Benthic (ocean sediment) stations.

POINT LOMA WASTEWATER TREATMENT PLANT

SEDIMENT QUARTERLY

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

Biochemical Oxygen Demand
(mg/Kg)

STATION	First Quarter	Third Quarter	Average of All Quarters
=====	=====	=====	=====
B-8	326	NS*	326
B-9	310	290	300
B-9 DUP	275	NS*	275
B-10	337	NS*	337
B-11	390	NS*	390
B-12	839	466	653
E-1	267	NS*	267
E-2	288	298	293
E-3	222	NS*	222
E-5	224	237	231
E-7	279	NS*	279
E-8	259	193	226
E-9	231	NS*	231
E-11	309	346	328
E-14	469	357	413
E-14 DUP	502	NS*	502
E-15	304	NS*	304
E-17	338	293	316
E-19	277	NS*	277
E-20	256	229	243
E-21	188	NS*	188
E-23	325	381	353
E-25	212	348	280
E-26	307	347	327

*= No longer a permit requirement.

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

POINT LOMA WASTEWATER TREATMENT PLANT

SEDIMENT QUARTERLY

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

Sulfides, Total
(mg/Kg)

STATION	First Quarter	Third Quarter	Average of All Quarters
=====	=====	=====	=====
B-8	1.1	NS*	1.1
B-9	0.8	0.4	0.6
B-9 DUP	1.0	NS*	1.0
B-10	1.0	NS*	1.0
B-11	1.1	NS*	1.1
B-12	0.6	21.5	11.1
E-1	2.1	NS*	2.1
E-2	8.0	2.8	5.4
E-3	0.8	NS*	0.8
E-5	0.7	3.2	2.0
E-7	1.0	NS*	1.0
E-8	1.2	0.7	1.0
E-9	0.4	NS*	0.4
E-11	2.2	12.1	7.2
E-14	35.7	43.3	39.5
E-14 DUP	27.8	NS*	27.8
E-15	2.7	NS*	2.7
E-17	1.7	11.5	6.6
E-19	21.6	NS*	21.6
E-20	1.3	1.2	1.3
E-21	2.0	NS*	2.0
E-23	0.7	1.2	1.0
E-25	1.2	0.9	1.1
E-26	1.5	2.9	2.2

*= No longer a permit requirement.

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

POINT LOMA WASTEWATER TREATMENT PLANT

SEDIMENT QUARTERLY

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

Total Volatile Solids
(% Weight)

STATION	First Quarter	Third Quarter	Average of All Quarters
=====	=====	=====	=====
B-8	3.3	NS*	3.3
B-9	3.0	2.6	2.8
B-9 DUP	2.6	NS*	2.6
B-10	3.0	NS*	3.0
B-11	4.5	NS*	4.5
B-12	3.4	2.8	3.1
E-1	2.2	NS*	2.2
E-2	2.7	2.3	2.5
E-3	1.9	NS*	1.9
E-5	2.2	2.0	2.1
E-7	2.4	NS*	2.4
E-8	2.3	1.8	2.1
E-9	2.1	NS*	2.1
E-11	2.0	2.1	2.1
E-14	2.1	2.0	2.1
E-14 DUP	2.1	NS*	2.1
E-15	2.5	NS*	2.5
E-17	2.1	1.7	1.9
E-19	2.7	NS*	2.7
E-20	2.3	2.0	2.2
E-21	2.1	NS*	2.1
E-23	2.3	2.2	2.3
E-23 DUP	2.2	NS*	2.2
E-25	2.5	2.8	2.7
E-26	2.8	2.5	2.7

*= No longer a permit requirement.

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

POINT LOMA WASTEWATER TREATMENT PLANT
 SEDIMENT QUARTERLY - Grain Size - Standard Stations
 (all values are in percent distribution)

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

Analyte	B-8	B-9	B-9	B-9 DUP	B-9 DUP
	P244186	P244165	P264571	P244166	P264555
	13-JAN-2004	13-JAN-2004	14-JUL-2004	13-JAN-2004	14-JUL-2004
<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	0.449	0.290	0.348	0.277	0.266
>1.5 to 2 microns, Phi 9	0.650	0.554	0.549	0.532	0.504
>2.0 to 2.4 microns	0.622	0.536	0.526	0.518	0.488
>2.4 to 2.9 microns, Phi 8.5	0.817	0.716	0.699	0.694	0.654
>2.9 to 3.4 microns	0.836	0.746	0.725	0.723	0.684
>3.4 to 3.9 microns, Phi 8	0.895	0.812	0.787	0.788	0.748
>3.9 to 4 microns	0.185	0.168	0.162	0.162	0.155
>4.0 to 4.3 microns	0.529	0.483	0.464	0.466	0.445
>4.3 to 4.5 microns	0.340	0.311	0.298	0.300	0.287
>4.5 to 5 microns	0.896	0.827	0.789	0.795	0.764
>5 to 5.5 microns	0.888	0.818	0.776	0.782	0.756
>5.5 to 5.7 microns	0.342	0.315	0.299	0.301	0.292
>5.7 to 5.9 microns, Phi 7.5	0.336	0.310	0.293	0.296	0.287
>5.9 to 7.8 microns, Phi 7	3.160	2.900	2.710	2.740	2.680
>7.8 to 8 microns	0.327	0.292	0.272	0.274	0.272
>8 to 8.5 microns	0.783	0.700	0.652	0.656	0.650
>8.5 to 8.9 microns	0.604	0.537	0.500	0.503	0.500
>8.9 to 9.1 microns	0.311	0.272	0.252	0.253	0.253
>9.1 to 9.5 microns	0.603	0.526	0.489	0.490	0.490
>9.5 to 9.8 microns	0.435	0.380	0.353	0.354	0.354
>9.8 to 10.1 microns	0.423	0.369	0.343	0.343	0.344
>10.1 to 10.6 microns	0.739	0.629	0.583	0.582	0.587
>10.6 to 11.1 microns	0.705	0.600	0.557	0.555	0.560
>11.1 to 11.3 microns	0.273	0.232	0.216	0.215	0.217
>11.3 to 11.7 microns, Phi 6.5	0.539	0.453	0.421	0.419	0.424
>11.7 to 14 microns	2.920	2.370	2.210	2.180	2.230
>14 to 14.8 microns	0.948	0.747	0.700	0.687	0.705
>14.8 to 15.6 microns	0.934	0.717	0.675	0.661	0.680
>15.6 to 16 microns	0.464	0.349	0.331	0.322	0.332
>16 to 20 microns	4.280	3.110	2.960	2.870	2.980
>20 to 23 microns, Phi 5.5	2.960	2.000	1.940	1.850	1.940
>23 to 27 microns	3.800	2.410	2.390	2.250	2.360
>27 to 31 microns, Phi 5	3.730	2.280	2.260	2.140	2.250
>31 to 32 microns	0.950	0.569	0.563	0.539	0.565
>32 to 35.6 microns	3.380	2.030	1.980	1.930	2.020
>35.6 to 37 microns, Phi 4.75	1.340	0.812	0.773	0.775	0.807
>37 to 39.6 microns	2.420	1.480	1.400	1.410	1.460
>39.6 to 43.6 microns	3.930	2.490	2.290	2.400	2.460
>43.6 to 44 microns, Phi 4.5	0.373	0.237	0.218	0.227	0.233
>44 to 45 microns	0.925	0.591	0.543	0.568	0.582
>45 to 46.4 microns	1.430	0.986	0.900	0.956	0.957
>46.4 to 53 microns, Phi 4.25	6.320	4.490	4.120	4.360	4.350
>53 to 62.5 microns, Phi 4	8.420	6.880	6.490	6.780	6.630
>62.5 to 64 microns	1.220	1.100	1.050	1.090	1.060
>64 to 71.7 microns	5.700	5.560	5.370	5.570	5.390
>71.7 to 74 microns	1.540	1.620	1.580	1.640	1.580
>74 to 79.6 microns	3.400	3.820	3.710	3.880	3.740
>79.6 to 87.6 microns	4.140	5.150	5.010	5.280	5.070

POINT LOMA WASTEWATER TREATMENT PLANT
 SEDIMENT QUARTERLY - Grain Size - Standard Stations
 (all values are in percent distribution)

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

Analyte	B-8	B-9	B-9	B-9 DUP	B-9 DUP
	P244186	P244165	P264571	P244166	P264555
	13-JAN-2004	13-JAN-2004	14-JUL-2004	13-JAN-2004	14-JUL-2004
>87.6 to 88 microns, Phi 3.5	0.198	0.245	0.238	0.251	0.241
>88 to 90 microns	0.857	1.190	1.160	1.230	1.180
>90 to 105 microns, Phi 3.25	5.280	7.900	7.730	8.280	7.970
>105 to 125 microns, Phi 3	4.390	7.690	7.620	8.190	8.040
>125 to 149 microns, Phi 2.75	2.970	5.950	6.000	6.400	6.500
>149 to 160 microns	0.810	1.790	1.830	1.930	2.020
>160 to 177 microns, Phi 2.5	0.943	2.170	2.240	2.350	2.480
>177 to 197 microns	0.681	1.680	1.780	1.810	1.960
>197 to 210 microns, Phi 2.25	0.297	0.764	0.832	0.818	0.897
>210 to 217 microns	0.135	0.354	0.391	0.378	0.417
>217 to 245 microns	0.405	1.090	1.230	1.160	1.280
>245 to 250 microns, Phi 2	0.055	0.151	0.177	0.159	0.177
>250 to 300 microns, Phi 1.75	0.377	1.060	1.330	1.120	1.230
>300 to 320 microns	0.085	0.244	0.362	0.258	0.277
>320 to 350 microns, Phi 1.5	0.105	0.319	0.490	0.338	0.362
>350 to 360 microns	0.017	0.078	0.141	0.084	0.087
>360 to 400 microns	0.062	0.284	0.524	0.306	0.317
>400 to 420 microns, Phi 1.25	0.024	0.105	0.238	0.117	0.117
>420 to 440 microns	0.023	0.100	0.227	0.111	0.111
>440 to 500 microns, Phi 1	0.057	0.234	0.641	0.267	0.258
>500 to 590 microns, Phi 0.75	0.015	0.059	0.760	0.068	0.065
>590 to 630 microns	0.000	0.000	0.171	0.000	0.000
>630 to 696 microns	0.000	0.000	0.220	0.000	0.000
>696 to 710 microns, Phi 0.5	0.000	0.000	0.028	0.000	0.000
>710 to 773 microns	0.000	0.000	0.118	0.000	0.000
>773 to 840 microns, Phi 0.25	0.000	0.000	0.008	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
Totals:	99.997	100.031	100.012	100.008	100.028

POINT LOMA WASTEWATER TREATMENT PLANT
 SEDIMENT QUARTERLY - Grain Size - Standard Stations
 (all values are in percent distribution)

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

Analyte	B-10	B-11	B-12	B-12	E-1
	P244135	P244144	P244150	P264562	P244033
	13-JAN-2004	13-JAN-2004	13-JAN-2004	14-JUL-2004	12-JAN-2004
<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	0.240	0.475	0.257	0.103	0.276
>1.5 to 2 microns, Phi 9	0.459	0.711	0.510	0.361	0.515
>2.0 to 2.4 microns	0.448	0.700	0.511	0.362	0.486
>2.4 to 2.9 microns, Phi 8.5	0.603	0.943	0.696	0.501	0.637
>2.9 to 3.4 microns	0.631	0.991	0.736	0.539	0.652
>3.4 to 3.9 microns, Phi 8	0.690	1.090	0.816	0.604	0.698
>3.9 to 4 microns	0.142	0.228	0.168	0.127	0.143
>4.0 to 4.3 microns	0.406	0.654	0.483	0.363	0.412
>4.3 to 4.5 microns	0.261	0.422	0.311	0.235	0.265
>4.5 to 5 microns	0.693	1.130	0.831	0.633	0.698
>5 to 5.5 microns	0.675	1.130	0.817	0.627	0.689
>5.5 to 5.7 microns	0.259	0.436	0.314	0.242	0.266
>5.7 to 5.9 microns, Phi 7.5	0.255	0.430	0.309	0.238	0.261
>5.9 to 7.8 microns, Phi 7	2.310	4.050	2.840	2.230	2.440
>7.8 to 8 microns	0.225	0.411	0.280	0.223	0.249
>8 to 8.5 microns	0.538	0.984	0.669	0.533	0.597
>8.5 to 8.9 microns	0.410	0.755	0.511	0.408	0.459
>8.9 to 9.1 microns	0.202	0.381	0.254	0.204	0.234
>9.1 to 9.5 microns	0.391	0.738	0.491	0.396	0.454
>9.5 to 9.8 microns	0.283	0.533	0.355	0.286	0.328
>9.8 to 10.1 microns	0.274	0.517	0.344	0.277	0.318
>10.1 to 10.6 microns	0.453	0.883	0.574	0.466	0.550
>10.6 to 11.1 microns	0.432	0.842	0.548	0.444	0.524
>11.1 to 11.3 microns	0.167	0.326	0.212	0.172	0.203
>11.3 to 11.7 microns, Phi 6.5	0.323	0.633	0.409	0.333	0.399
>11.7 to 14 microns	1.620	3.250	2.070	1.700	2.120
>14 to 14.8 microns	0.499	1.020	0.637	0.528	0.678
>14.8 to 15.6 microns	0.469	0.961	0.599	0.499	0.658
>15.6 to 16 microns	0.224	0.462	0.286	0.239	0.323
>16 to 20 microns	1.950	4.030	2.480	2.080	2.920
>20 to 23 microns, Phi 5.5	1.180	2.460	1.490	1.270	1.930
>23 to 27 microns	1.360	2.800	1.680	1.450	2.350
>27 to 31 microns, Phi 5	1.240	2.470	1.480	1.290	2.200
>31 to 32 microns	0.305	0.586	0.353	0.306	0.543
>32 to 35.6 microns	1.090	2.020	1.230	1.060	1.910
>35.6 to 37 microns, Phi 4.75	0.436	0.767	0.469	0.401	0.748
>37 to 39.6 microns	0.796	1.370	0.843	0.718	1.350
>39.6 to 43.6 microns	1.380	2.130	1.340	1.130	2.190
>43.6 to 44 microns, Phi 4.5	0.131	0.203	0.127	0.107	0.208
>44 to 45 microns	0.330	0.502	0.317	0.266	0.517
>45 to 46.4 microns	0.584	0.759	0.498	0.418	0.822
>46.4 to 53 microns, Phi 4.25	2.730	3.370	2.240	1.890	3.700
>53 to 62.5 microns, Phi 4	4.750	4.620	3.320	2.890	5.440
>62.5 to 64 microns	0.816	0.696	0.524	0.468	0.854
>64 to 71.7 microns	4.520	3.410	2.700	2.460	4.360
>71.7 to 74 microns	1.410	0.967	0.799	0.736	1.280
>74 to 79.6 microns	3.560	2.250	1.940	1.800	3.070
>79.6 to 87.6 microns	5.270	2.990	2.740	2.550	4.280

POINT LOMA WASTEWATER TREATMENT PLANT
 SEDIMENT QUARTERLY - Grain Size - Standard Stations
 (all values are in percent distribution)

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

Analyte	B-10	B-11	B-12	B-12	E-1
	P244135	P244144	P244150	P264562	P244033
	13-JAN-2004	13-JAN-2004	13-JAN-2004	14-JUL-2004	12-JAN-2004
>87.6 to 88 microns, Phi 3.5	0.251	0.143	0.130	0.121	0.203
>88 to 90 microns	1.360	0.706	0.696	0.647	1.060
>90 to 105 microns, Phi 3.25	9.790	4.840	5.040	4.670	7.480
>105 to 125 microns, Phi 3	11.100	5.410	6.300	5.860	8.610
>125 to 149 microns, Phi 2.75	9.770	5.240	6.770	6.300	7.980
>149 to 160 microns	3.160	1.990	2.800	2.580	2.740
>160 to 177 microns, Phi 2.5	3.950	2.720	3.970	3.640	3.510
>177 to 197 microns	3.160	2.620	4.130	3.720	2.930
>197 to 210 microns, Phi 2.25	1.450	1.410	2.380	2.090	1.370
>210 to 217 microns	0.675	0.697	1.210	1.050	0.645
>217 to 245 microns	2.070	2.340	4.290	3.650	1.980
>245 to 250 microns, Phi 2	0.285	0.359	0.689	0.575	0.275
>250 to 300 microns, Phi 1.75	1.990	2.770	5.710	4.660	1.890
>300 to 320 microns	0.445	0.714	1.670	1.330	0.404
>320 to 350 microns, Phi 1.5	0.579	0.938	2.220	1.790	0.521
>350 to 360 microns	0.140	0.232	0.583	0.488	0.119
>360 to 400 microns	0.506	0.835	2.110	1.800	0.429
>400 to 420 microns, Phi 1.25	0.186	0.297	0.778	0.747	0.147
>420 to 440 microns	0.177	0.283	0.742	0.712	0.141
>440 to 500 microns, Phi 1	0.409	0.612	1.610	1.880	0.307
>500 to 590 microns, Phi 0.75	0.103	0.344	1.250	2.440	0.076
>590 to 630 microns	0.000	0.006	0.249	1.040	0.000
>630 to 696 microns	0.000	0.000	0.268	1.620	0.000
>696 to 710 microns, Phi 0.5	0.000	0.000	0.000	0.348	0.000
>710 to 773 microns	0.000	0.000	0.000	1.490	0.000
>773 to 840 microns, Phi 0.25	0.000	0.000	0.000	1.540	0.000
>840 to 850 microns	0.000	0.000	0.000	0.220	0.000
>850 to 930 microns	0.000	0.000	0.000	1.600	0.000
>930 to 1000 microns, Phi 0	0.000	0.000	0.000	1.220	0.000
1000 to 1100 microns	0.000	0.000	0.000	1.190	0.000
>1100 to 1190 microns, Phi -0.25	0.000	0.000	0.000	0.782	0.000
>1190 to 1300 microns	0.000	0.000	0.000	0.493	0.000
>1300 to 1410 microns, Phi -0.5	0.000	0.000	0.000	0.322	0.000
>1410 to 1680 microns, Phi -0.75	0.000	0.000	0.000	0.257	0.000
>1680 to 2000 microns, Phi -1	0.000	0.000	0.000	0.000	0.000
Totals:	99.976	99.992	100.003	100.035	100.021

POINT LOMA WASTEWATER TREATMENT PLANT
 SEDIMENT QUARTERLY - Grain Size - Standard Stations
 (all values are in percent distribution)

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

Analyte	E-2		E-3		E-5
	P244056	P264574	P244059	P267027	P244066
	12-JAN-2004	14-JUL-2004	12-JAN-2004	02-AUG-2004	12-JAN-2004
<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	0.487	0.430	0.246	0.414	0.272
>1.5 to 2 microns, Phi 9	0.753	0.605	0.500	0.579	0.493
>2.0 to 2.4 microns	0.744	0.575	0.505	0.553	0.456
>2.4 to 2.9 microns, Phi 8.5	0.993	0.759	0.687	0.735	0.590
>2.9 to 3.4 microns	1.030	0.782	0.723	0.763	0.598
>3.4 to 3.9 microns, Phi 8	1.120	0.844	0.797	0.828	0.632
>3.9 to 4 microns	0.231	0.174	0.164	0.171	0.129
>4.0 to 4.3 microns	0.664	0.500	0.470	0.490	0.370
>4.3 to 4.5 microns	0.428	0.322	0.303	0.316	0.237
>4.5 to 5 microns	1.140	0.852	0.804	0.837	0.621
>5 to 5.5 microns	1.130	0.843	0.788	0.825	0.609
>5.5 to 5.7 microns	0.436	0.325	0.303	0.318	0.234
>5.7 to 5.9 microns, Phi 7.5	0.429	0.320	0.298	0.312	0.230
>5.9 to 7.8 microns, Phi 7	4.020	2.990	2.720	2.880	2.120
>7.8 to 8 microns	0.408	0.304	0.267	0.286	0.214
>8 to 8.5 microns	0.977	0.729	0.640	0.686	0.512
>8.5 to 8.9 microns	0.751	0.560	0.488	0.525	0.393
>8.9 to 9.1 microns	0.380	0.285	0.242	0.262	0.199
>9.1 to 9.5 microns	0.735	0.551	0.468	0.507	0.386
>9.5 to 9.8 microns	0.531	0.398	0.338	0.366	0.279
>9.8 to 10.1 microns	0.516	0.387	0.328	0.355	0.271
>10.1 to 10.6 microns	0.883	0.665	0.544	0.595	0.463
>10.6 to 11.1 microns	0.842	0.634	0.519	0.568	0.442
>11.1 to 11.3 microns	0.326	0.246	0.201	0.220	0.171
>11.3 to 11.7 microns, Phi 6.5	0.635	0.481	0.387	0.425	0.336
>11.7 to 14 microns	3.290	2.530	1.950	2.160	1.780
>14 to 14.8 microns	1.040	0.803	0.597	0.666	0.566
>14.8 to 15.6 microns	0.985	0.773	0.559	0.624	0.550
>15.6 to 16 microns	0.475	0.377	0.265	0.297	0.270
>16 to 20 microns	4.190	3.370	2.280	2.560	2.450
>20 to 23 microns, Phi 5.5	2.600	2.180	1.350	1.520	1.630
>23 to 27 microns	2.990	2.610	1.490	1.670	2.020
>27 to 31 microns, Phi 5	2.650	2.400	1.270	1.400	1.960
>31 to 32 microns	0.627	0.584	0.294	0.319	0.498
>32 to 35.6 microns	2.160	2.040	1.000	1.070	1.790
>35.6 to 37 microns, Phi 4.75	0.812	0.783	0.371	0.389	0.726
>37 to 39.6 microns	1.450	1.400	0.661	0.688	1.320
>39.6 to 43.6 microns	2.230	2.220	0.999	1.010	2.270
>43.6 to 44 microns, Phi 4.5	0.212	0.210	0.095	0.096	0.215
>44 to 45 microns	0.524	0.522	0.235	0.237	0.538
>45 to 46.4 microns	0.786	0.808	0.348	0.345	0.911
>46.4 to 53 microns, Phi 4.25	3.490	3.620	1.550	1.530	4.170
>53 to 62.5 microns, Phi 4	4.760	5.190	2.150	2.100	6.560
>62.5 to 64 microns	0.715	0.804	0.330	0.322	1.060
>64 to 71.7 microns	3.510	4.040	1.690	1.630	5.510
>71.7 to 74 microns	0.997	1.170	0.494	0.474	1.640
>74 to 79.6 microns	2.330	2.770	1.210	1.150	3.930
>79.6 to 87.6 microns	3.100	3.770	1.720	1.620	5.450

POINT LOMA WASTEWATER TREATMENT PLANT
 SEDIMENT QUARTERLY - Grain Size - Standard Stations
 (all values are in percent distribution)

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

Analyte	E-2		E-3		E-5
	P244056 12-JAN-2004	P264574 14-JUL-2004	P244059 12-JAN-2004	P267027 02-AUG-2004	P244066 12-JAN-2004
>87.6 to 88 microns, Phi 3.5	0.148	0.179	0.082	0.077	0.259
>88 to 90 microns	0.734	0.905	0.456	0.424	1.310
>90 to 105 microns, Phi 3.25	5.050	6.280	3.420	3.170	9.000
>105 to 125 microns, Phi 3	5.610	7.100	4.820	4.490	9.360
>125 to 149 microns, Phi 2.75	5.310	6.730	5.960	5.670	7.620
>149 to 160 microns	1.950	2.430	2.730	2.660	2.330
>160 to 177 microns, Phi 2.5	2.610	3.220	4.000	3.940	2.840
>177 to 197 microns	2.410	2.880	4.320	4.370	2.180
>197 to 210 microns, Phi 2.25	1.250	1.440	2.470	2.540	0.971
>210 to 217 microns	0.609	0.692	1.250	1.300	0.446
>217 to 245 microns	2.000	2.200	4.290	4.500	1.350
>245 to 250 microns, Phi 2	0.299	0.318	0.669	0.710	0.183
>250 to 300 microns, Phi 1.75	2.260	2.280	5.240	5.600	1.260
>300 to 320 microns	0.568	0.519	1.410	1.500	0.287
>320 to 350 microns, Phi 1.5	0.746	0.673	1.890	1.990	0.377
>350 to 360 microns	0.185	0.157	0.503	0.515	0.095
>360 to 400 microns	0.670	0.566	1.850	1.880	0.349
>400 to 420 microns, Phi 1.25	0.244	0.196	0.768	0.747	0.140
>420 to 440 microns	0.232	0.187	0.732	0.713	0.134
>440 to 500 microns, Phi 1	0.515	0.408	1.950	1.820	0.345
>500 to 590 microns, Phi 0.75	0.128	0.101	2.550	2.280	0.090
>590 to 630 microns	0.000	0.000	1.070	0.944	0.000
>630 to 696 microns	0.000	0.000	1.650	1.470	0.000
>696 to 710 microns, Phi 0.5	0.000	0.000	0.343	0.311	0.000
>710 to 773 microns	0.000	0.000	1.460	1.330	0.000
>773 to 840 microns, Phi 0.25	0.000	0.000	1.450	1.360	0.000
>840 to 850 microns	0.000	0.000	0.206	0.194	0.000
>850 to 930 microns	0.000	0.000	1.490	1.400	0.000
>930 to 1000 microns, Phi 0	0.000	0.000	1.130	1.070	0.000
1000 to 1100 microns	0.000	0.000	1.170	1.050	0.000
>1100 to 1190 microns, Phi -0.25	0.000	0.000	0.804	0.700	0.000
>1190 to 1300 microns	0.000	0.000	0.577	0.452	0.000
>1300 to 1410 microns, Phi -0.5	0.000	0.000	0.377	0.145	0.000
>1410 to 1680 microns, Phi -0.75	0.000	0.000	0.301	0.000	0.000
>1680 to 2000 microns, Phi -1	0.000	0.000	0.000	0.000	0.000
Totals:	100.040	99.996	100.026	100.015	99.997

POINT LOMA WASTEWATER TREATMENT PLANT
 SEDIMENT QUARTERLY - Grain Size - Standard Stations
 (all values are in percent distribution)

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

Analyte	E-5	E-5 DUP	E-7	E-8	E-8
	P264581	P264558	P244075	P244077	P264585
	14-JUL-2004	14-JUL-2004	12-JAN-2004	12-JAN-2004	14-JUL-2004
<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	0.249	0.253	0.272	0.260	0.116
>1.5 to 2 microns, Phi 9	0.451	0.457	0.496	0.471	0.377
>2.0 to 2.4 microns	0.423	0.427	0.462	0.436	0.352
>2.4 to 2.9 microns, Phi 8.5	0.557	0.559	0.601	0.564	0.463
>2.9 to 3.4 microns	0.576	0.572	0.612	0.571	0.477
>3.4 to 3.9 microns, Phi 8	0.621	0.613	0.649	0.604	0.513
>3.9 to 4 microns	0.128	0.125	0.134	0.123	0.106
>4.0 to 4.3 microns	0.367	0.360	0.383	0.352	0.303
>4.3 to 4.5 microns	0.236	0.231	0.246	0.226	0.195
>4.5 to 5 microns	0.626	0.608	0.646	0.589	0.515
>5 to 5.5 microns	0.616	0.596	0.637	0.575	0.507
>5.5 to 5.7 microns	0.237	0.229	0.246	0.221	0.195
>5.7 to 5.9 microns, Phi 7.5	0.233	0.225	0.242	0.216	0.192
>5.9 to 7.8 microns, Phi 7	2.170	2.080	2.250	1.980	1.790
>7.8 to 8 microns	0.218	0.209	0.231	0.197	0.180
>8 to 8.5 microns	0.522	0.500	0.553	0.472	0.432
>8.5 to 8.9 microns	0.400	0.384	0.427	0.362	0.332
>8.9 to 9.1 microns	0.202	0.194	0.219	0.183	0.168
>9.1 to 9.5 microns	0.391	0.376	0.423	0.354	0.326
>9.5 to 9.8 microns	0.283	0.272	0.306	0.256	0.235
>9.8 to 10.1 microns	0.274	0.264	0.297	0.248	0.228
>10.1 to 10.6 microns	0.467	0.449	0.515	0.421	0.390
>10.6 to 11.1 microns	0.445	0.428	0.491	0.401	0.372
>11.1 to 11.3 microns	0.173	0.166	0.191	0.156	0.144
>11.3 to 11.7 microns, Phi 6.5	0.337	0.325	0.375	0.304	0.283
>11.7 to 14 microns	1.760	1.720	2.020	1.600	1.500
>14 to 14.8 microns	0.556	0.546	0.653	0.509	0.476
>14.8 to 15.6 microns	0.536	0.531	0.642	0.493	0.462
>15.6 to 16 microns	0.262	0.261	0.319	0.242	0.227
>16 to 20 microns	2.340	2.360	2.930	2.190	2.060
>20 to 23 microns, Phi 5.5	1.510	1.570	2.010	1.450	1.370
>23 to 27 microns	1.840	1.970	2.580	1.810	1.710
>27 to 31 microns, Phi 5	1.750	1.930	2.560	1.760	1.680
>31 to 32 microns	0.446	0.496	0.661	0.451	0.435
>32 to 35.6 microns	1.620	1.800	2.390	1.630	1.600
>35.6 to 37 microns, Phi 4.75	0.666	0.732	0.976	0.666	0.671
>37 to 39.6 microns	1.220	1.330	1.780	1.220	1.230
>39.6 to 43.6 microns	2.170	2.290	3.060	2.130	2.230
>43.6 to 44 microns, Phi 4.5	0.206	0.217	0.291	0.202	0.211
>44 to 45 microns	0.516	0.543	0.727	0.506	0.531
>45 to 46.4 microns	0.902	0.914	1.220	0.882	0.941
>46.4 to 53 microns, Phi 4.25	4.150	4.170	5.570	4.080	4.340
>53 to 62.5 microns, Phi 4	6.620	6.540	8.450	6.720	7.060
>62.5 to 64 microns	1.070	1.060	1.330	1.120	1.160
>64 to 71.7 microns	5.590	5.500	6.630	5.920	6.060
>71.7 to 74 microns	1.660	1.640	1.910	1.790	1.820
>74 to 79.6 microns	4.010	3.920	4.410	4.330	4.380
>79.6 to 87.6 microns	5.610	5.430	5.810	6.100	6.120

POINT LOMA WASTEWATER TREATMENT PLANT
 SEDIMENT QUARTERLY - Grain Size - Standard Stations
 (all values are in percent distribution)

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

Analyte	E-5	E-5 DUP	E-7	E-8	E-8
	P264581	P264558	P244075	P244077	P264585
	14-JUL-2004	14-JUL-2004	12-JAN-2004	12-JAN-2004	14-JUL-2004
>87.6 to 88 microns, Phi 3.5	0.267	0.258	0.277	0.290	0.291
>88 to 90 microns	1.360	1.300	1.300	1.470	1.470
>90 to 105 microns, Phi 3.25	9.400	8.890	8.450	10.100	10.000
>105 to 125 microns, Phi 3	9.850	9.320	7.710	10.300	10.100
>125 to 149 microns, Phi 2.75	8.000	7.750	5.420	7.970	7.960
>149 to 160 microns	2.420	2.420	1.440	2.300	2.350
>160 to 177 microns, Phi 2.5	2.920	2.980	1.630	2.710	2.820
>177 to 197 microns	2.190	2.330	1.080	1.950	2.100
>197 to 210 microns, Phi 2.25	0.955	1.050	0.432	0.830	0.921
>210 to 217 microns	0.435	0.487	0.188	0.373	0.420
>217 to 245 microns	1.290	1.480	0.529	1.090	1.260
>245 to 250 microns, Phi 2	0.172	0.202	0.066	0.143	0.169
>250 to 300 microns, Phi 1.75	1.150	1.390	0.413	0.950	1.160
>300 to 320 microns	0.242	0.308	0.055	0.200	0.256
>320 to 350 microns, Phi 1.5	0.314	0.401	0.070	0.261	0.334
>350 to 360 microns	0.074	0.097	0.016	0.063	0.081
>360 to 400 microns	0.269	0.350	0.059	0.230	0.294
>400 to 420 microns, Phi 1.25	0.098	0.130	0.021	0.088	0.110
>420 to 440 microns	0.094	0.124	0.020	0.084	0.104
>440 to 500 microns, Phi 1	0.220	0.291	0.012	0.208	0.245
>500 to 590 microns, Phi 0.75	0.056	0.074	0.000	0.053	0.062
>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
Totals:	99.988	100.004	100.021	100.006	99.972

POINT LOMA WASTEWATER TREATMENT PLANT
 SEDIMENT QUARTERLY - Grain Size - Standard Stations
 (all values are in percent distribution)

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

Analyte	E-9	E-11	E-11	E-14	E-14
	P244087	P244039	P264703	P244049	P264708
	12-JAN-2004	12-JAN-2004	16-JUL-2004	12-JAN-2004	16-JUL-2004
<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	0.238	0.117	0.116	0.122	0.107
>1.5 to 2 microns, Phi 9	0.456	0.387	0.377	0.416	0.372
>2.0 to 2.4 microns	0.445	0.364	0.352	0.401	0.369
>2.4 to 2.9 microns, Phi 8.5	0.599	0.478	0.464	0.532	0.506
>2.9 to 3.4 microns	0.626	0.491	0.480	0.550	0.541
>3.4 to 3.9 microns, Phi 8	0.682	0.526	0.517	0.594	0.603
>3.9 to 4 microns	0.140	0.108	0.107	0.122	0.126
>4.0 to 4.3 microns	0.401	0.310	0.306	0.349	0.363
>4.3 to 4.5 microns	0.258	0.199	0.197	0.224	0.234
>4.5 to 5 microns	0.680	0.523	0.521	0.591	0.632
>5 to 5.5 microns	0.663	0.512	0.513	0.577	0.627
>5.5 to 5.7 microns	0.255	0.197	0.197	0.222	0.242
>5.7 to 5.9 microns, Phi 7.5	0.250	0.193	0.194	0.218	0.239
>5.9 to 7.8 microns, Phi 7	2.270	1.780	1.800	1.990	2.250
>7.8 to 8 microns	0.222	0.177	0.181	0.197	0.225
>8 to 8.5 microns	0.533	0.423	0.434	0.471	0.540
>8.5 to 8.9 microns	0.407	0.325	0.333	0.361	0.414
>8.9 to 9.1 microns	0.202	0.163	0.168	0.180	0.208
>9.1 to 9.5 microns	0.391	0.316	0.326	0.349	0.402
>9.5 to 9.8 microns	0.283	0.229	0.236	0.252	0.291
>9.8 to 10.1 microns	0.274	0.222	0.229	0.245	0.282
>10.1 to 10.6 microns	0.455	0.375	0.389	0.410	0.476
>10.6 to 11.1 microns	0.434	0.358	0.371	0.391	0.454
>11.1 to 11.3 microns	0.168	0.139	0.144	0.151	0.176
>11.3 to 11.7 microns, Phi 6.5	0.326	0.271	0.282	0.295	0.342
>11.7 to 14 microns	1.670	1.420	1.480	1.520	1.760
>14 to 14.8 microns	0.516	0.449	0.470	0.476	0.548
>14.8 to 15.6 microns	0.492	0.435	0.456	0.456	0.521
>15.6 to 16 microns	0.238	0.213	0.224	0.222	0.251
>16 to 20 microns	2.090	1.920	2.020	1.970	2.210
>20 to 23 microns, Phi 5.5	1.310	1.270	1.330	1.260	1.370
>23 to 27 microns	1.550	1.590	1.670	1.520	1.600
>27 to 31 microns, Phi 5	1.450	1.560	1.650	1.450	1.490
>31 to 32 microns	0.363	0.405	0.430	0.369	0.376
>32 to 35.6 microns	1.300	1.480	1.590	1.340	1.380
>35.6 to 37 microns, Phi 4.75	0.524	0.615	0.668	0.551	0.569
>37 to 39.6 microns	0.954	1.130	1.230	1.010	1.050
>39.6 to 43.6 microns	1.640	2.020	2.240	1.810	1.900
>43.6 to 44 microns, Phi 4.5	0.155	0.192	0.213	0.172	0.180
>44 to 45 microns	0.388	0.482	0.535	0.432	0.454
>45 to 46.4 microns	0.659	0.862	0.959	0.781	0.820
>46.4 to 53 microns, Phi 4.25	3.010	4.010	4.440	3.650	3.820
>53 to 62.5 microns, Phi 4	4.710	6.750	7.330	6.320	6.480
>62.5 to 64 microns	0.756	1.130	1.210	1.080	1.090
>64 to 71.7 microns	3.850	6.020	6.380	5.830	5.860
>71.7 to 74 microns	1.130	1.830	1.920	1.790	1.790
>74 to 79.6 microns	2.640	4.440	4.640	4.400	4.390
>79.6 to 87.6 microns	3.560	6.270	6.490	6.300	6.270

POINT LOMA WASTEWATER TREATMENT PLANT
 SEDIMENT QUARTERLY - Grain Size - Standard Stations
 (all values are in percent distribution)

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

Analyte	E-9	E-11	E-11	E-14	E-14
	P244087	P244039	P264703	P244049	P264708
	12-JAN-2004	12-JAN-2004	16-JUL-2004	12-JAN-2004	16-JUL-2004
>87.6 to 88 microns, Phi 3.5	0.169	0.298	0.309	0.300	0.298
>88 to 90 microns	0.813	1.510	1.560	1.540	1.530
>90 to 105 microns, Phi 3.25	5.390	10.400	10.600	10.600	10.500
>105 to 125 microns, Phi 3	5.220	10.500	10.600	10.600	10.600
>125 to 149 microns, Phi 2.75	4.090	8.180	8.050	7.970	8.080
>149 to 160 microns	1.260	2.390	2.260	2.230	2.310
>160 to 177 microns, Phi 2.5	1.550	2.850	2.630	2.610	2.720
>177 to 197 microns	1.250	2.110	1.810	1.850	1.960
>197 to 210 microns, Phi 2.25	0.592	0.932	0.740	0.796	0.843
>210 to 217 microns	0.280	0.426	0.325	0.359	0.381
>217 to 245 microns	0.896	1.290	0.918	1.070	1.130
>245 to 250 microns, Phi 2	0.130	0.176	0.114	0.144	0.150
>250 to 300 microns, Phi 1.75	1.010	1.240	0.710	1.010	1.010
>300 to 320 microns	0.297	0.300	0.127	0.248	0.221
>320 to 350 microns, Phi 1.5	0.411	0.399	0.162	0.333	0.289
>350 to 360 microns	0.129	0.106	0.035	0.092	0.071
>360 to 400 microns	0.496	0.392	0.126	0.344	0.257
>400 to 420 microns, Phi 1.25	0.263	0.165	0.044	0.156	0.098
>420 to 440 microns	0.251	0.157	0.042	0.148	0.093
>440 to 500 microns, Phi 1	0.893	0.417	0.023	0.434	0.226
>500 to 590 microns, Phi 0.75	1.750	0.109	0.000	0.632	0.058
>590 to 630 microns	1.190	0.000	0.000	0.289	0.000
>630 to 696 microns	2.140	0.000	0.000	0.451	0.000
>696 to 710 microns, Phi 0.5	0.593	0.000	0.000	0.095	0.000
>710 to 773 microns	2.530	0.000	0.000	0.407	0.000
>773 to 840 microns, Phi 0.25	3.430	0.000	0.000	0.233	0.000
>840 to 850 microns	0.498	0.000	0.000	0.032	0.000
>850 to 930 microns	3.950	0.000	0.000	0.123	0.000
>930 to 1000 microns, Phi 0	3.330	0.000	0.000	0.000	0.000
1000 to 1100 microns	3.490	0.000	0.000	0.000	0.000
>1100 to 1190 microns, Phi -0.25	2.370	0.000	0.000	0.000	0.000
>1190 to 1300 microns	1.500	0.000	0.000	0.000	0.000
>1300 to 1410 microns, Phi -0.5	0.783	0.000	0.000	0.000	0.000
>1410 to 1680 microns, Phi -0.75	0.472	0.000	0.000	0.000	0.000
>1680 to 2000 microns, Phi -1	0.000	0.000	0.000	0.000	0.000
Totals:	100.029	100.023	99.994	100.015	100.025

POINT LOMA WASTEWATER TREATMENT PLANT
 SEDIMENT QUARTERLY - Grain Size - Standard Stations
 (all values are in percent distribution)

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

Analyte	E-14 DUP	E-14 DUP	E-15	E-17	E-17
	P244042	P264743	P244226	P244235	P264714
	12-JAN-2004	16-JUL-2004	14-JAN-2004	14-JAN-2004	16-JUL-2004
<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	0.241	0.107	0.418	0.268	0.102
>1.5 to 2 microns, Phi 9	0.427	0.358	0.563	0.466	0.339
>2.0 to 2.4 microns	0.390	0.341	0.524	0.421	0.325
>2.4 to 2.9 microns, Phi 8.5	0.502	0.455	0.684	0.540	0.438
>2.9 to 3.4 microns	0.508	0.474	0.696	0.542	0.463
>3.4 to 3.9 microns, Phi 8	0.534	0.516	0.741	0.568	0.508
>3.9 to 4 microns	0.109	0.107	0.151	0.115	0.106
>4.0 to 4.3 microns	0.314	0.306	0.432	0.330	0.306
>4.3 to 4.5 microns	0.201	0.197	0.277	0.212	0.197
>4.5 to 5 microns	0.527	0.523	0.726	0.550	0.529
>5 to 5.5 microns	0.518	0.515	0.706	0.536	0.525
>5.5 to 5.7 microns	0.199	0.198	0.271	0.206	0.203
>5.7 to 5.9 microns, Phi 7.5	0.195	0.195	0.265	0.201	0.200
>5.9 to 7.8 microns, Phi 7	1.810	1.810	2.400	1.830	1.890
>7.8 to 8 microns	0.182	0.180	0.234	0.182	0.193
>8 to 8.5 microns	0.436	0.431	0.561	0.436	0.461
>8.5 to 8.9 microns	0.335	0.330	0.429	0.335	0.354
>8.9 to 9.1 microns	0.170	0.166	0.213	0.169	0.180
>9.1 to 9.5 microns	0.329	0.321	0.412	0.326	0.348
>9.5 to 9.8 microns	0.238	0.232	0.297	0.236	0.252
>9.8 to 10.1 microns	0.231	0.225	0.289	0.229	0.244
>10.1 to 10.6 microns	0.394	0.380	0.480	0.388	0.418
>10.6 to 11.1 microns	0.376	0.362	0.458	0.370	0.398
>11.1 to 11.3 microns	0.146	0.140	0.177	0.143	0.155
>11.3 to 11.7 microns, Phi 6.5	0.286	0.274	0.343	0.281	0.302
>11.7 to 14 microns	1.510	1.420	1.750	1.480	1.590
>14 to 14.8 microns	0.481	0.447	0.542	0.471	0.503
>14.8 to 15.6 microns	0.467	0.430	0.515	0.459	0.485
>15.6 to 16 microns	0.230	0.210	0.248	0.226	0.237
>16 to 20 microns	2.070	1.870	2.180	2.050	2.120
>20 to 23 microns, Phi 5.5	1.370	1.210	1.350	1.380	1.370
>23 to 27 microns	1.710	1.480	1.600	1.760	1.670
>27 to 31 microns, Phi 5	1.660	1.440	1.490	1.760	1.590
>31 to 32 microns	0.423	0.371	0.370	0.459	0.402
>32 to 35.6 microns	1.530	1.370	1.330	1.680	1.460
>35.6 to 37 microns, Phi 4.75	0.625	0.571	0.535	0.700	0.595
>37 to 39.6 microns	1.140	1.050	0.978	1.290	1.090
>39.6 to 43.6 microns	2.010	1.920	1.710	2.300	1.960
>43.6 to 44 microns, Phi 4.5	0.190	0.182	0.162	0.218	0.187
>44 to 45 microns	0.477	0.457	0.406	0.547	0.469
>45 to 46.4 microns	0.839	0.829	0.716	0.970	0.857
>46.4 to 53 microns, Phi 4.25	3.890	3.870	3.340	4.490	4.010
>53 to 62.5 microns, Phi 4	6.510	6.560	5.710	7.430	6.910
>62.5 to 64 microns	1.090	1.100	0.972	1.230	1.160
>64 to 71.7 microns	5.830	5.870	5.300	6.450	6.180
>71.7 to 74 microns	1.770	1.780	1.630	1.930	1.870
>74 to 79.6 microns	4.310	4.320	4.050	4.630	4.530
>79.6 to 87.6 microns	6.110	6.090	5.880	6.420	6.380

POINT LOMA WASTEWATER TREATMENT PLANT
 SEDIMENT QUARTERLY - Grain Size - Standard Stations
 (all values are in percent distribution)

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

Analyte	E-14 DUP	E-14 DUP	E-15	E-17	E-17
	P244042	P264743	P244226	P244235	P264714
	12-JAN-2004	16-JUL-2004	14-JAN-2004	14-JAN-2004	16-JUL-2004
>87.6 to 88 microns, Phi 3.5	0.290	0.290	0.280	0.305	0.304
>88 to 90 microns	1.480	1.460	1.470	1.510	1.540
>90 to 105 microns, Phi 3.25	10.100	9.930	10.200	10.200	10.500
>105 to 125 microns, Phi 3	10.200	9.800	10.700	9.940	10.600
>125 to 149 microns, Phi 2.75	7.830	7.310	8.400	7.420	8.020
>149 to 160 microns	2.240	2.050	2.440	2.090	2.260
>160 to 177 microns, Phi 2.5	2.650	2.400	2.890	2.440	2.640
>177 to 197 microns	1.920	1.720	2.100	1.740	1.860
>197 to 210 microns, Phi 2.25	0.835	0.741	0.910	0.739	0.782
>210 to 217 microns	0.379	0.335	0.412	0.332	0.350
>217 to 245 microns	1.140	1.000	1.230	0.975	1.020
>245 to 250 microns, Phi 2	0.154	0.136	0.165	0.128	0.134
>250 to 300 microns, Phi 1.75	1.090	0.957	1.140	0.861	0.902
>300 to 320 microns	0.263	0.239	0.263	0.186	0.202
>320 to 350 microns, Phi 1.5	0.352	0.323	0.348	0.243	0.268
>350 to 360 microns	0.096	0.092	0.091	0.060	0.070
>360 to 400 microns	0.356	0.347	0.334	0.218	0.254
>400 to 420 microns, Phi 1.25	0.157	0.167	0.139	0.085	0.095
>420 to 440 microns	0.150	0.159	0.132	0.081	0.090
>440 to 500 microns, Phi 1	0.425	0.508	0.352	0.203	0.258
>500 to 590 microns, Phi 0.75	0.595	0.857	0.453	0.052	0.356
>590 to 630 microns	0.259	0.481	0.011	0.000	0.147
>630 to 696 microns	0.398	0.801	0.000	0.000	0.199
>696 to 710 microns, Phi 0.5	0.082	0.194	0.000	0.000	0.025
>710 to 773 microns	0.349	0.830	0.000	0.000	0.106
>773 to 840 microns, Phi 0.25	0.199	0.933	0.000	0.000	0.007
>840 to 850 microns	0.027	0.134	0.000	0.000	0.000
>850 to 930 microns	0.105	0.798	0.000	0.000	0.000
>930 to 1000 microns, Phi 0	0.000	0.456	0.000	0.000	0.000
1000 to 1100 microns	0.000	0.387	0.000	0.000	0.000
>1100 to 1190 microns, Phi -0.25	0.000	0.209	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
Totals:	99.961	100.034	99.971	100.018	100.050

POINT LOMA WASTEWATER TREATMENT PLANT
 SEDIMENT QUARTERLY - Grain Size - Standard Stations
 (all values are in percent distribution)

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

Analyte	E-19	E-20	E-20	E-20 DUP	E-21
	P244238	P244245	P264720	P264692	P244249
	14-JAN-2004	14-JAN-2004	16-JUL-2004	16-JUL-2004	14-JAN-2004
<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	0.458	0.277	0.250	0.235	0.257
>1.5 to 2 microns, Phi 9	0.588	0.491	0.444	0.428	0.452
>2.0 to 2.4 microns	0.526	0.449	0.410	0.403	0.410
>2.4 to 2.9 microns, Phi 8.5	0.667	0.580	0.536	0.532	0.524
>2.9 to 3.4 microns	0.665	0.587	0.548	0.550	0.525
>3.4 to 3.9 microns, Phi 8	0.691	0.619	0.586	0.594	0.549
>3.9 to 4 microns	0.141	0.127	0.120	0.123	0.111
>4.0 to 4.3 microns	0.403	0.364	0.344	0.352	0.318
>4.3 to 4.5 microns	0.258	0.233	0.221	0.227	0.204
>4.5 to 5 microns	0.672	0.611	0.580	0.601	0.528
>5 to 5.5 microns	0.660	0.601	0.567	0.593	0.513
>5.5 to 5.7 microns	0.254	0.231	0.218	0.229	0.197
>5.7 to 5.9 microns, Phi 7.5	0.249	0.227	0.214	0.225	0.193
>5.9 to 7.8 microns, Phi 7	2.310	2.100	1.960	2.100	1.750
>7.8 to 8 microns	0.237	0.213	0.196	0.213	0.173
>8 to 8.5 microns	0.568	0.510	0.470	0.510	0.415
>8.5 to 8.9 microns	0.438	0.392	0.360	0.392	0.318
>8.9 to 9.1 microns	0.225	0.199	0.182	0.200	0.160
>9.1 to 9.5 microns	0.436	0.386	0.352	0.386	0.310
>9.5 to 9.8 microns	0.315	0.279	0.254	0.279	0.224
>9.8 to 10.1 microns	0.306	0.271	0.247	0.271	0.217
>10.1 to 10.6 microns	0.532	0.465	0.418	0.465	0.367
>10.6 to 11.1 microns	0.508	0.443	0.399	0.444	0.350
>11.1 to 11.3 microns	0.197	0.172	0.155	0.172	0.136
>11.3 to 11.7 microns, Phi 6.5	0.390	0.338	0.303	0.337	0.265
>11.7 to 14 microns	2.120	1.800	1.590	1.790	1.390
>14 to 14.8 microns	0.689	0.576	0.506	0.572	0.441
>14.8 to 15.6 microns	0.683	0.563	0.492	0.557	0.428
>15.6 to 16 microns	0.341	0.278	0.242	0.275	0.211
>16 to 20 microns	3.170	2.530	2.190	2.490	1.900
>20 to 23 microns, Phi 5.5	2.230	1.710	1.460	1.670	1.270
>23 to 27 microns	2.930	2.170	1.850	2.100	1.590
>27 to 31 microns, Phi 5	2.960	2.150	1.850	2.070	1.570
>31 to 32 microns	0.771	0.554	0.484	0.532	0.406
>32 to 35.6 microns	2.800	2.020	1.780	1.940	1.480
>35.6 to 37 microns, Phi 4.75	1.150	0.827	0.745	0.796	0.614
>37 to 39.6 microns	2.090	1.510	1.370	1.460	1.130
>39.6 to 43.6 microns	3.580	2.650	2.460	2.560	2.010
>43.6 to 44 microns, Phi 4.5	0.340	0.251	0.234	0.243	0.191
>44 to 45 microns	0.848	0.629	0.586	0.608	0.480
>45 to 46.4 microns	1.410	1.090	1.040	1.060	0.860
>46.4 to 53 microns, Phi 4.25	6.340	4.980	4.790	4.860	4.020
>53 to 62.5 microns, Phi 4	9.220	7.900	7.800	7.850	6.900
>62.5 to 64 microns	1.410	1.280	1.280	1.280	1.170
>64 to 71.7 microns	6.760	6.540	6.610	6.640	6.360
>71.7 to 74 microns	1.880	1.920	1.960	1.970	1.950
>74 to 79.6 microns	4.220	4.520	4.650	4.660	4.800
>79.6 to 87.6 microns	5.280	6.100	6.360	6.350	6.880

POINT LOMA WASTEWATER TREATMENT PLANT
 SEDIMENT QUARTERLY - Grain Size - Standard Stations
 (all values are in percent distribution)

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

Analyte	E-19	E-20	E-20	E-20 DUP	E-21
	P244238	P244245	P264720	P264692	P244249
	14-JAN-2004	14-JAN-2004	16-JUL-2004	16-JUL-2004	14-JAN-2004
>87.6 to 88 microns, Phi 3.5	0.251	0.290	0.303	0.302	0.327
>88 to 90 microns	1.110	1.390	1.470	1.460	1.670
>90 to 105 microns, Phi 3.25	6.960	9.210	9.820	9.710	11.500
>105 to 125 microns, Phi 3	5.920	8.650	9.390	9.170	11.300
>125 to 149 microns, Phi 2.75	4.070	6.270	6.930	6.590	8.210
>149 to 160 microns	1.110	1.730	1.940	1.780	2.190
>160 to 177 microns, Phi 2.5	1.290	2.010	2.260	2.030	2.480
>177 to 197 microns	0.928	1.410	1.600	1.370	1.650
>197 to 210 microns, Phi 2.25	0.402	0.594	0.676	0.552	0.661
>210 to 217 microns	0.182	0.266	0.303	0.241	0.288
>217 to 245 microns	0.543	0.778	0.883	0.680	0.815
>245 to 250 microns, Phi 2	0.073	0.102	0.115	0.085	0.102
>250 to 300 microns, Phi 1.75	0.503	0.683	0.760	0.531	0.643
>300 to 320 microns	0.115	0.148	0.157	0.098	0.123
>320 to 350 microns, Phi 1.5	0.152	0.194	0.203	0.125	0.158
>350 to 360 microns	0.039	0.048	0.048	0.028	0.036
>360 to 400 microns	0.144	0.176	0.173	0.090	0.131
>400 to 420 microns, Phi 1.25	0.059	0.070	0.063	0.000	0.047
>420 to 440 microns	0.056	0.067	0.060	0.000	0.045
>440 to 500 microns, Phi 1	0.146	0.169	0.142	0.000	0.072
>500 to 590 microns, Phi 0.75	0.038	0.044	0.036	0.000	0.016
>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
Totals:	100.007	100.012	99.995	100.036	99.981

POINT LOMA WASTEWATER TREATMENT PLANT
 SEDIMENT QUARTERLY - Grain Size - Standard Stations
 (all values are in percent distribution)

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

Analyte	E-23	E-23	E-23 DUP	E-25	E-25
	P244169	P264726	P244974	P244178	P264730
	13-JAN-2004	16-JUL-2004	13-JAN-2004	13-JAN-2004	16-JUL-2004
<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	0.293	0.249	0.284	0.286	0.246
>1.5 to 2 microns, Phi 9	0.551	0.456	0.510	0.518	0.456
>2.0 to 2.4 microns	0.525	0.432	0.471	0.480	0.435
>2.4 to 2.9 microns, Phi 8.5	0.694	0.574	0.612	0.622	0.580
>2.9 to 3.4 microns	0.715	0.595	0.621	0.630	0.605
>3.4 to 3.9 microns, Phi 8	0.771	0.644	0.658	0.667	0.658
>3.9 to 4 microns	0.159	0.133	0.134	0.136	0.136
>4.0 to 4.3 microns	0.456	0.382	0.386	0.390	0.391
>4.3 to 4.5 microns	0.293	0.246	0.248	0.250	0.252
>4.5 to 5 microns	0.775	0.651	0.648	0.655	0.670
>5 to 5.5 microns	0.765	0.642	0.636	0.641	0.663
>5.5 to 5.7 microns	0.295	0.247	0.244	0.247	0.255
>5.7 to 5.9 microns, Phi 7.5	0.290	0.243	0.240	0.242	0.251
>5.9 to 7.8 microns, Phi 7	2.700	2.270	2.210	2.230	2.350
>7.8 to 8 microns	0.273	0.230	0.222	0.224	0.239
>8 to 8.5 microns	0.655	0.550	0.532	0.537	0.573
>8.5 to 8.9 microns	0.503	0.423	0.409	0.413	0.441
>8.9 to 9.1 microns	0.255	0.215	0.207	0.209	0.224
>9.1 to 9.5 microns	0.494	0.416	0.401	0.405	0.434
>9.5 to 9.8 microns	0.357	0.301	0.290	0.293	0.314
>9.8 to 10.1 microns	0.347	0.292	0.281	0.284	0.305
>10.1 to 10.6 microns	0.595	0.500	0.481	0.486	0.524
>10.6 to 11.1 microns	0.567	0.477	0.458	0.464	0.499
>11.1 to 11.3 microns	0.220	0.185	0.178	0.180	0.194
>11.3 to 11.7 microns, Phi 6.5	0.430	0.363	0.349	0.353	0.380
>11.7 to 14 microns	2.270	1.930	1.850	1.870	2.020
>14 to 14.8 microns	0.722	0.614	0.591	0.598	0.644
>14.8 to 15.6 microns	0.699	0.599	0.576	0.584	0.627
>15.6 to 16 microns	0.342	0.295	0.285	0.288	0.309
>16 to 20 microns	3.080	2.680	2.590	2.620	2.800
>20 to 23 microns, Phi 5.5	2.030	1.800	1.750	1.770	1.880
>23 to 27 microns	2.490	2.270	2.220	2.230	2.360
>27 to 31 microns, Phi 5	2.380	2.230	2.200	2.200	2.310
>31 to 32 microns	0.600	0.575	0.570	0.567	0.592
>32 to 35.6 microns	2.150	2.080	2.070	2.050	2.140
>35.6 to 37 microns, Phi 4.75	0.865	0.852	0.852	0.838	0.869
>37 to 39.6 microns	1.570	1.560	1.560	1.530	1.580
>39.6 to 43.6 microns	2.680	2.700	2.720	2.640	2.720
>43.6 to 44 microns, Phi 4.5	0.254	0.256	0.258	0.251	0.258
>44 to 45 microns	0.635	0.642	0.647	0.627	0.645
>45 to 46.4 microns	1.060	1.100	1.110	1.060	1.090
>46.4 to 53 microns, Phi 4.25	4.850	5.040	5.070	4.850	4.990
>53 to 62.5 microns, Phi 4	7.440	7.940	7.890	7.480	7.810
>62.5 to 64 microns	1.180	1.280	1.260	1.190	1.260
>64 to 71.7 microns	6.000	6.510	6.340	6.010	6.410
>71.7 to 74 microns	1.750	1.910	1.840	1.750	1.880
>74 to 79.6 microns	4.100	4.460	4.290	4.100	4.410
>79.6 to 87.6 microns	5.520	5.970	5.700	5.500	5.940

POINT LOMA WASTEWATER TREATMENT PLANT
 SEDIMENT QUARTERLY - Grain Size - Standard Stations
 (all values are in percent distribution)

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

Analyte	E-23	E-23	E-23 DUP	E-25	E-25
	P244169	P264726	P244974	P244178	P264730
	13-JAN-2004	16-JUL-2004	13-JAN-2004	13-JAN-2004	16-JUL-2004
>87.6 to 88 microns, Phi 3.5	0.262	0.284	0.271	0.262	0.282
>88 to 90 microns	1.270	1.350	1.290	1.260	1.360
>90 to 105 microns, Phi 3.25	8.380	8.900	8.450	8.390	9.040
>105 to 125 microns, Phi 3	7.940	8.330	7.890	8.110	8.660
>125 to 149 microns, Phi 2.75	5.810	6.070	5.780	6.190	6.380
>149 to 160 microns	1.610	1.690	1.640	1.810	1.740
>160 to 177 microns, Phi 2.5	1.870	1.960	1.930	2.170	1.980
>177 to 197 microns	1.310	1.380	1.410	1.620	1.290
>197 to 210 microns, Phi 2.25	0.547	0.581	0.618	0.716	0.493
>210 to 217 microns	0.244	0.259	0.282	0.328	0.209
>217 to 245 microns	0.707	0.752	0.850	0.988	0.558
>245 to 250 microns, Phi 2	0.092	0.097	0.116	0.134	0.064
>250 to 300 microns, Phi 1.75	0.602	0.637	0.818	0.938	0.352
>300 to 320 microns	0.124	0.129	0.201	0.221	0.003
>320 to 350 microns, Phi 1.5	0.161	0.167	0.268	0.294	0.000
>350 to 360 microns	0.039	0.039	0.073	0.078	0.000
>360 to 400 microns	0.140	0.141	0.273	0.287	0.000
>400 to 420 microns, Phi 1.25	0.053	0.052	0.121	0.122	0.000
>420 to 440 microns	0.050	0.050	0.115	0.117	0.000
>440 to 500 microns, Phi 1	0.121	0.120	0.328	0.322	0.000
>500 to 590 microns, Phi 0.75	0.031	0.031	0.462	0.434	0.000
>590 to 630 microns	0.000	0.000	0.205	0.183	0.000
>630 to 696 microns	0.000	0.000	0.318	0.280	0.000
>696 to 710 microns, Phi 0.5	0.000	0.000	0.066	0.057	0.000
>710 to 773 microns	0.000	0.000	0.283	0.241	0.000
>773 to 840 microns, Phi 0.25	0.000	0.000	0.018	0.015	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
Totals:	100.008	100.028	100.025	100.012	100.030

POINT LOMA WASTEWATER TREATMENT PLANT
 SEDIMENT QUARTERLY - Grain Size - Standard Stations
 (all values are in percent distribution)

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

Analyte	E-25 DUP	E-26	E-26
	P264697	P244184	P264739
	16-JUL-2004	13-JAN-2004	16-JUL-2004
<0.500 microns, Phi 11	0.000	0.000	0.000
>0.5 to 1 microns, Phi 10	0.000	0.000	0.000
>1 to 1.5 microns, Phi 9.5	0.247	0.429	0.458
>1.5 to 2 microns, Phi 9	0.462	0.594	0.601
>2.0 to 2.4 microns	0.444	0.558	0.554
>2.4 to 2.9 microns, Phi 8.5	0.595	0.728	0.724
>2.9 to 3.4 microns	0.623	0.741	0.742
>3.4 to 3.9 microns, Phi 8	0.681	0.788	0.793
>3.9 to 4 microns	0.142	0.160	0.163
>4.0 to 4.3 microns	0.407	0.460	0.468
>4.3 to 4.5 microns	0.262	0.295	0.301
>4.5 to 5 microns	0.702	0.773	0.794
>5 to 5.5 microns	0.697	0.756	0.782
>5.5 to 5.7 microns	0.269	0.290	0.301
>5.7 to 5.9 microns, Phi 7.5	0.265	0.285	0.296
>5.9 to 7.8 microns, Phi 7	2.500	2.610	2.740
>7.8 to 8 microns	0.255	0.261	0.276
>8 to 8.5 microns	0.610	0.625	0.661
>8.5 to 8.9 microns	0.469	0.480	0.508
>8.9 to 9.1 microns	0.239	0.242	0.257
>9.1 to 9.5 microns	0.462	0.469	0.498
>9.5 to 9.8 microns	0.334	0.339	0.360
>9.8 to 10.1 microns	0.324	0.329	0.349
>10.1 to 10.6 microns	0.556	0.560	0.595
>10.6 to 11.1 microns	0.531	0.534	0.568
>11.1 to 11.3 microns	0.206	0.207	0.220
>11.3 to 11.7 microns, Phi 6.5	0.403	0.405	0.431
>11.7 to 14 microns	2.130	2.140	2.270
>14 to 14.8 microns	0.676	0.680	0.719
>14.8 to 15.6 microns	0.654	0.661	0.696
>15.6 to 16 microns	0.320	0.325	0.341
>16 to 20 microns	2.880	2.940	3.070
>20 to 23 microns, Phi 5.5	1.890	1.970	2.020
>23 to 27 microns	2.320	2.470	2.490
>27 to 31 microns, Phi 5	2.240	2.430	2.410
>31 to 32 microns	0.569	0.622	0.612
>32 to 35.6 microns	2.060	2.240	2.200
>35.6 to 37 microns, Phi 4.75	0.837	0.912	0.891
>37 to 39.6 microns	1.530	1.660	1.620
>39.6 to 43.6 microns	2.630	2.840	2.780
>43.6 to 44 microns, Phi 4.5	0.250	0.270	0.264
>44 to 45 microns	0.625	0.674	0.660
>45 to 46.4 microns	1.060	1.130	1.110
>46.4 to 53 microns, Phi 4.25	4.840	5.140	5.060
>53 to 62.5 microns, Phi 4	7.510	7.830	7.730
>62.5 to 64 microns	1.200	1.240	1.220
>64 to 71.7 microns	6.100	6.210	6.120
>71.7 to 74 microns	1.780	1.800	1.770
>74 to 79.6 microns	4.190	4.190	4.110
>79.6 to 87.6 microns	5.630	5.560	5.450

POINT LOMA WASTEWATER TREATMENT PLANT
 SEDIMENT QUARTERLY - Grain Size - Standard Stations
 (all values are in percent distribution)

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

Analyte	E-25 DUP	E-26	E-26
	P264697	P244184	P264739
	16-JUL-2004	13-JAN-2004	16-JUL-2004
>87.6 to 88 microns, Phi 3.5	0.268	0.264	0.259
>88 to 90 microns	1.290	1.250	1.230
>90 to 105 microns, Phi 3.25	8.610	8.210	8.050
>105 to 125 microns, Phi 3	8.350	7.610	7.500
>125 to 149 microns, Phi 2.75	6.350	5.480	5.450
>149 to 160 microns	1.820	1.510	1.520
>160 to 177 microns, Phi 2.5	2.140	1.760	1.780
>177 to 197 microns	1.530	1.240	1.260
>197 to 210 microns, Phi 2.25	0.639	0.522	0.533
>210 to 217 microns	0.284	0.233	0.239
>217 to 245 microns	0.816	0.682	0.698
>245 to 250 microns, Phi 2	0.104	0.089	0.091
>250 to 300 microns, Phi 1.75	0.661	0.590	0.605
>300 to 320 microns	0.124	0.124	0.126
>320 to 350 microns, Phi 1.5	0.159	0.161	0.164
>350 to 360 microns	0.035	0.038	0.039
>360 to 400 microns	0.125	0.140	0.144
>400 to 420 microns, Phi 1.25	0.043	0.053	0.055
>420 to 440 microns	0.041	0.050	0.052
>440 to 500 microns, Phi 1	0.023	0.121	0.129
>500 to 590 microns, Phi 0.75	0.000	0.031	0.033
>590 to 630 microns	0.000	0.000	0.000
>630 to 696 microns	0.000	0.000	0.000
>696 to 710 microns, Phi 0.5	0.000	0.000	0.000
>710 to 773 microns	0.000	0.000	0.000
>773 to 840 microns, Phi 0.25	0.000	0.000	0.000
>840 to 850 microns	0.000	0.000	0.000
>850 to 930 microns	0.000	0.000	0.000
>930 to 1000 microns, Phi 0	0.000	0.000	0.000
1000 to 1100 microns	0.000	0.000	0.000
>1100 to 1190 microns, Phi -0.25	0.000	0.000	0.000
>1190 to 1300 microns	0.000	0.000	0.000
>1300 to 1410 microns, Phi -0.5	0.000	0.000	0.000
>1410 to 1680 microns, Phi -0.75	0.000	0.000	0.000
>1680 to 2000 microns, Phi -1	0.000	0.000	0.000
Totals:	100.018	100.010	100.010

POINT LOMA WASTEWATER TREATMENT PLANT
 SEDIMENT ANNUAL Total Organic Carbon/Total Nitrogen - Standard Stations by Quarter

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

			A-2	A-5	A-5 DUP	A-8	A-9	A-15	A-16
			Avg	Avg	Avg	Avg	Avg	Avg	Avg
Analyte	MDL	Units							
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
Total Nitrogen	.005	WT%	0.067	0.072	0.074	0.063	0.068	0.067	0.068
Total Organic Carbon	.01	WT%	0.603	0.679	0.661	0.594	0.632	0.613	0.615

			A-16 DUP	B-3	B-5	B-8	B-9	B-9 DUP	B-10
			Avg	Avg	Avg	Avg	Avg	Avg	Avg
Analyte	MDL	Units							
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
Total Nitrogen	.005	WT%	0.068	0.061	0.088	0.086	0.060	0.062	0.066
Total Organic Carbon	.01	WT%	0.653	0.535	0.850	0.800	0.556	0.569	0.542

			B-11	B-12	E-1	E-2	E-3	E-5	E-7
			Avg	Avg	Avg	Avg	Avg	Avg	Avg
Analyte	MDL	Units							
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
Total Nitrogen	.005	WT%	0.087	0.055	0.050	0.076	0.036	0.046	0.043
Total Organic Carbon	.01	WT%	0.891	1.180	0.467	0.719	0.336	0.417	0.413

			E-8	E-9	E-11	E-14	E-14 DUP	E-15	E-17
			Avg	Avg	Avg	Avg	Avg	Avg	Avg
Analyte	MDL	Units							
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
Total Nitrogen	.005	WT%	0.043	0.049	0.047	0.050	0.046	0.052	0.048
Total Organic Carbon	.01	WT%	0.379	0.456	0.410	0.451	0.413	0.478	0.431

			E-19	E-20	E-21	E-23	E-23 DUP	E-25	E-26
			Avg	Avg	Avg	Avg	Avg	Avg	Avg
Analyte	MDL	Units							
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
Total Nitrogen	.005	WT%	0.063	0.052	0.039	0.056	0.066	0.053	0.062
Total Organic Carbon	.01	WT%	0.587	0.461	0.350	0.572	0.539	0.497	0.566

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

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

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

Source:		B-8	B-9	B-9 DUP	B-10	B-11	B-12	E-1
Date:		2004	2004	2004	2004	2004	2004	2004
Analyte:	MDL Units	Average	Average	Average	Average	Average	Average	Average
Aluminum	1.15 MG/KG	10000	12600	7910	7450	10000	8870	8100
Antimony	.13 MG/KG	0.92	0.87	0.91	0.73	1.05	0.50	0.76
Arsenic	.33 MG/KG	3.73	3.65	3.04	2.42	4.23	4.54	2.61
Beryllium	.0012 MG/KG	0.21	0.29	0.21	0.19	0.25	0.34	0.16
Cadmium	.0104 MG/KG	0.12	0.10	0.06	0.33	0.38	0.19	0.11
Chromium	.016 MG/KG	21.3	25.4	20.2	19.1	23.9	29.1	17.0
Copper	.0278 MG/KG	9.92	7.07	6.82	5.46	8.47	6.04	8.35
Iron	.76 MG/KG	15200	19000	13300	12700	18000	23400	10300
Lead	.142 MG/KG	8.20	5.51	6.55	5.33	7.62	6.55	6.80
Manganese	.0037 MG/KG	116.0	183.0	92.6	75.4	115.0	124.0	84.9
Mercury	.003 MG/KG	0.047	0.032	0.031	0.022	0.050	0.021	0.049
Nickel	.0364 MG/KG	9.36	8.00	7.56	6.29	9.59	6.82	7.63
Selenium	.24 MG/KG	0.245	ND	ND	ND	ND	ND	ND
Silver	.0129 MG/KG	0.05	0.02	0.03	0.08	0.12	0.03	0.05
Thallium	.221 MG/KG	ND	ND	ND	ND	ND	ND	ND
Tin	.0586 MG/KG	2.0	2.1	1.6	1.6	1.6	0.8	1.7
Zinc	.0521 MG/KG	38.4	40.5	34.6	31.1	42.1	41.2	28.6

Source:		E-2	E-3	E-5	E-7	E-8	E-9	E-11
Date:		2004	2004	2004	2004	2004	2004	2004
Analyte:	MDL Units	Average	Average	Average	Average	Average	Average	Average
Aluminum	1.15 MG/KG	17000	8520	9960	8010	9730	6150	8950
Antimony	.13 MG/KG	1.06	0.74	0.27	0.74	0.48	0.75	0.31
Arsenic	.33 MG/KG	2.64	2.22	2.62	3.72	2.58	3.47	2.78
Beryllium	.0012 MG/KG	0.27	0.14	0.19	0.16	0.19	0.17	0.18
Cadmium	.0104 MG/KG	0.13	0.08	0.11	0.12	0.11	0.09	0.12
Chromium	.016 MG/KG	22.8	14.6	16.0	18.5	16.6	17.8	15.6
Copper	.0278 MG/KG	13.20	10.20	7.19	7.30	6.49	8.97	5.38
Iron	.76 MG/KG	19500	12200	12500	11500	11800	10800	11700
Lead	.142 MG/KG	7.46	6.94	4.69	6.09	4.60	6.22	4.34
Manganese	.0037 MG/KG	218.0	99.9	131.0	91.5	139.0	66.6	151.0
Mercury	.003 MG/KG	0.056	0.056	0.032	0.034	0.037	0.030	0.022
Nickel	.0364 MG/KG	8.64	5.24	6.40	8.57	6.41	6.24	6.09
Selenium	.24 MG/KG	ND	ND	ND	ND	ND	ND	ND
Silver	.0129 MG/KG	ND	ND	0.05	0.06	<0.01	0.05	0.05
Thallium	.221 MG/KG	ND	ND	ND	ND	ND	ND	ND
Tin	.0586 MG/KG	2.4	1.5	1.7	1.7	1.8	1.6	1.6
Zinc	.0521 MG/KG	44.6	30.7	27.6	28.9	28.2	32.9	26.8

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

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

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

Source:		E-14	E-14 DUP	E-15	E-17	E-19	E-20	E-21
Date:		2004	2004	2004	2004	2004	2004	2004
Analyte:	MDL Units	Average	Average	Average	Average	Average	Average	Average
Aluminum	1.15 MG/KG	7650	6120	6800	11500	10400	10600	5710
Antimony	.13 MG/KG	0.26	0.53	0.67	0.37	1.06	0.58	0.50
Arsenic	.33 MG/KG	3.34	2.34	2.46	2.62	2.72	3.21	2.56
Beryllium	.0012 MG/KG	0.16	0.14	0.16	0.21	0.18	0.19	0.14
Cadmium	.0104 MG/KG	0.13	0.15	0.12	0.14	0.15	0.12	0.12
Chromium	.016 MG/KG	15.3	13.9	15.0	18.2	19.1	17.6	13.0
Copper	.0278 MG/KG	6.85	6.11	6.43	6.09	8.18	6.34	5.21
Iron	.76 MG/KG	10600	9050	9600	14000	12600	13000	8270
Lead	.142 MG/KG	4.53	4.85	5.27	4.16	6.20	5.27	4.85
Manganese	.0037 MG/KG	115.0	70.8	74.7	197.0	110.0	161.0	68.7
Mercury	.003 MG/KG	0.028	0.030	0.030	0.026	0.038	0.026	0.024
Nickel	.0364 MG/KG	6.64	6.24	6.50	6.68	8.64	7.00	5.81
Selenium	.24 MG/KG	ND	ND	ND	ND	ND	ND	ND
Silver	.0129 MG/KG	0.06	0.10	0.03	0.12	ND	0.02	0.07
Thallium	.221 MG/KG	ND	ND	ND	ND	ND	ND	ND
Tin	.0586 MG/KG	1.3	1.4	1.7	2.0	2.3	1.7	1.3
Zinc	.0521 MG/KG	26.1	24.4	24.6	30.4	34.6	30.2	23.1

Source:		E-23	E-23 DUP	E-25	E-26
Date:		2004	2004	2004	2004
Analyte:	MDL Units	Average	Average	Average	Average
Aluminum	1.15 MG/KG	13500	7260	13100	12500
Antimony	.13 MG/KG	0.70	0.65	0.57	0.54
Arsenic	.33 MG/KG	2.96	3.33	2.87	2.85
Beryllium	.0012 MG/KG	0.23	0.16	0.23	0.23
Cadmium	.0104 MG/KG	0.13	0.13	0.13	0.14
Chromium	.016 MG/KG	20.7	16.6	20.7	20.5
Copper	.0278 MG/KG	7.15	7.14	7.22	8.10
Iron	.76 MG/KG	14800	11100	14600	15000
Lead	.142 MG/KG	4.92	6.01	5.15	5.62
Manganese	.0037 MG/KG	194.0	89.4	192.0	176.0
Mercury	.003 MG/KG	0.029	0.043	0.025	0.041
Nickel	.0364 MG/KG	7.94	7.21	8.07	8.46
Selenium	.24 MG/KG	ND	ND	ND	ND
Silver	.0129 MG/KG	0.02	0.05	ND	0.11
Thallium	.221 MG/KG	ND	ND	ND	ND
Tin	.0586 MG/KG	2.1	1.7	1.9	2.1
Zinc	.0521 MG/KG	34.6	29.3	34.2	35.1

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

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

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

Analyte	MDL	Units	B-8	B-9	B-9 DUP	B-10	B-11	B-12	E-1	E-2
			2004	2004	2004	2004	2004	2004	2004	2004
			Average	Average	Average	Average	Average	Average	Average	Average
Aldrin	7700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	15000	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Alpha isomer	3800	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Beta isomer	5700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Gamma isomer	1900	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Delta isomer	3800	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
p,p-DDD	3800	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
p,p-DDE	3800	NG/KG	ND	ND	ND	ND	ND	ND	ND	<3800
p,-p-DDMU		NG/KG	NR	ND	ND	NR	NR	ND	NR	ND
p,p-DDT	11000	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDD	5700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDE	5700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDT	3800	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	5700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	5700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Alpha (cis) Chlordane	5700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Gamma (trans) Chlordane	3800	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Alpha Chlordene	1400	NG/KG	NA	NA	NA	NA	NA	NA	NA	NA
Gamma Chlordene	120	NG/KG	NA	NA	NA	NA	NA	NA	NA	NA
Oxychlordane	5700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Trans Nonachlor	3800	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Cis Nonachlor	3800	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Alpha Endosulfan	5700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Beta Endosulfan	5700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	19000	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	7600	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	15000	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Mirex	5700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	15000	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
=====										
Aldrin + Dieldrin	15000	NG/KG	0	0	0	0	0	0	0	0
Hexachlorocyclohexanes	5700	NG/KG	0	0	0	0	0	0	0	0
DDT and derivatives	11000	NG/KG	0	0	0	0	0	0	0	0
Chlordane + related cmpds.	5700	NG/KG	0	0	0	0	0	0	0	0
=====										
Chlorinated Hydrocarbons	19000	NG/KG	0	0	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 Chlorinated Pesticide Analysis - STANDARD STATIONS

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

Analyte	MDL	Units	E-3	E-5	E-7	E-8	E-9	E-11	E-14	E-14 DUP
			2004	2004	2004	2004	2004	2004	2004	2004
			Average	Average	Average	Average	Average	Average	Average	Average
Aldrin	7700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	15000	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Alpha isomer	3800	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Beta isomer	5700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Gamma isomer	1900	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Delta isomer	3800	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
p,p-DDD	3800	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
p,p-DDE	3800	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
p,-p-DDMU		NG/KG	NR	ND	NR	ND	NR	ND	ND	ND
p,p-DDT	11000	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDD	5700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDE	5700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDT	3800	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	5700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	5700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Alpha (cis) Chlordane	5700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Gamma (trans) Chlordane	3800	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Alpha Chlordene	1400	NG/KG	NA	NA	NA	NA	NA	NA	NA	NA
Gamma Chlordene	120	NG/KG	NA	NA	NA	NA	NA	NA	NA	NA
Oxychlordane	5700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Trans Nonachlor	3800	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Cis Nonachlor	3800	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Alpha Endosulfan	5700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Beta Endosulfan	5700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	19000	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	7600	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	15000	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Mirex	5700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	15000	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Aldrin + Dieldrin	15000	NG/KG	0	0	0	0	0	0	0	0
Hexachlorocyclohexanes	5700	NG/KG	0	0	0	0	0	0	0	0
DDT and derivatives	11000	NG/KG	0	0	0	0	0	0	0	0
Chlordane + related cmpds.	5700	NG/KG	0	0	0	0	0	0	0	0
Chlorinated Hydrocarbons	19000	NG/KG	0	0	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 Chlorinated Pesticide Analysis - STANDARD STATIONS

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

Analyte	MDL	Units	E-15	E-17	E-19	E-20	E-21	E-23	E-23 DUP	E-25
			2004	2004	2004	2004	2004	2004	2004	2004
			Average	Average	Average	Average	Average	Average	Average	Average
Aldrin	7700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	15000	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Alpha isomer	3800	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Beta isomer	5700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Gamma isomer	1900	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
BHC, Delta isomer	3800	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
p,p-DDD	3800	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
p,p-DDE	3800	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
p,-p-DDMU		NG/KG	NR	ND	NR	ND	NR	ND	NR	ND
p,p-DDT	11000	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDD	5700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDE	5700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
o,p-DDT	3800	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	5700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	5700	NG/KG	ND	ND	ND	ND	ND	ND	ND	<5700
Alpha (cis) Chlordane	5700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Gamma (trans) Chlordane	3800	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Alpha Chlordene	1400	NG/KG	NA	NA	NA	NA	NA	NA	NA	NA
Gamma Chlordene	120	NG/KG	NA	NA	NA	NA	NA	NA	NA	NA
Oxychlordane	5700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Trans Nonachlor	3800	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Cis Nonachlor	3800	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Alpha Endosulfan	5700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Beta Endosulfan	5700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	19000	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	7600	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	15000	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Mirex	5700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	15000	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Aldrin + Dieldrin	15000	NG/KG	0	0	0	0	0	0	0	0
Hexachlorocyclohexanes	5700	NG/KG	0	0	0	0	0	0	0	0
DDT and derivatives	11000	NG/KG	0	0	0	0	0	0	0	0
Chlordane + related cmpds.	5700	NG/KG	0	0	0	0	0	0	0	0
Chlorinated Hydrocarbons	19000	NG/KG	0	0	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 Chlorinated Pesticide Analysis - STANDARD STATIONS

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

Analyte	MDL	Units	Average
E-26 2004			
=====	=====	=====	=====
Aldrin	7700	NG/KG	ND
Dieldrin	15000	NG/KG	ND
BHC, Alpha isomer	3800	NG/KG	ND
BHC, Beta isomer	5700	NG/KG	ND
BHC, Gamma isomer	1900	NG/KG	ND
BHC, Delta isomer	3800	NG/KG	ND
p,p-DDD	3800	NG/KG	ND
p,p-DDE	3800	NG/KG	<3800
p,-p-DDMU		NG/KG	ND
p,p-DDT	11000	NG/KG	ND
o,p-DDD	5700	NG/KG	ND
o,p-DDE	5700	NG/KG	ND
o,p-DDT	3800	NG/KG	ND
Heptachlor	5700	NG/KG	ND
Heptachlor epoxide	5700	NG/KG	ND
Alpha (cis) Chlordane	5700	NG/KG	ND
Gamma (trans) Chlordane	3800	NG/KG	ND
Alpha Chlordene	1400	NG/KG	NA
Gamma Chlordene	120	NG/KG	NA
Oxychlordane	5700	NG/KG	ND
Trans Nonachlor	3800	NG/KG	ND
Cis Nonachlor	3800	NG/KG	ND
Alpha Endosulfan	5700	NG/KG	ND
Beta Endosulfan	5700	NG/KG	ND
Endosulfan Sulfate	19000	NG/KG	ND
Endrin	7600	NG/KG	ND
Endrin aldehyde	15000	NG/KG	ND
Mirex	5700	NG/KG	ND
Methoxychlor	15000	NG/KG	ND
=====	=====	=====	=====
Aldrin + Dieldrin	15000	NG/KG	0
Hexachlorocyclohexanes	5700	NG/KG	0
DDT and derivatives	11000	NG/KG	0
Chlordane + related cmpds.	5700	NG/KG	0
=====	=====	=====	=====
Chlorinated Hydrocarbons	19000	NG/KG	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-2004 To 31-DEC-2004

Analyte	MDL	Units	B-8	B-9	B-9 DUP	B-10	B-11	B-12	E-1	E-2
			2004 Avg	2004 Avg	2004 Avg	2004 Avg	2004 Avg	2004 Avg	2004 Avg	2004 Avg
PCB 18	2600	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 28	3000	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 52	3100	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 49	2700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 44	2600	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 37	2100	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 74	2700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 70	2700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 66	2100	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 101	2600	NG/KG	ND	ND	ND	ND	ND	ND	ND	<2600
PCB 99	2500	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 119	2400	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 87	2800	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 110	2900	NG/KG	ND	ND	ND	ND	ND	ND	ND	<2900
PCB 81	2500	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 151	2500	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 77	2100	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 149	2500	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 123	2800	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 118	2700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 114	3000	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 105	2600	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 138	3000	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 158	2600	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 187	2700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 183	2700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 126	3000	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 128	2700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 167	3000	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 177	3000	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 201	2900	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 156	2900	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 157	2700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 180	2600	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 170	3100	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
===== Total PCB's	3100	NG/KG	0	0	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 - PCB Congeners (STANDARD STATIONS)

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

Analyte	MDL	Units	E-3	E-5	E-7	E-8	E-9	E-11	E-14	E-14 DUP
			2004	2004	2004	2004	2004	2004	2004	2004
			Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg
PCB 18	2600	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 28	3000	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 52	3100	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 49	2700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 44	2600	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 37	2100	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 74	2700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 70	2700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 66	2100	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 101	2600	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 99	2500	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 119	2400	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 87	2800	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 110	2900	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 81	2500	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 151	2500	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 77	2100	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 149	2500	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 123	2800	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 118	2700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 114	3000	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 105	2600	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 138	3000	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 158	2600	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 187	2700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 183	2700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 126	3000	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 128	2700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 167	3000	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 177	3000	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 201	2900	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 156	2900	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 157	2700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 180	2600	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 170	3100	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
Total PCB's	3100	NG/KG	0	0	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 - PCB Congeners (STANDARD STATIONS)

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

Analyte	MDL	Units	E-15	E-17	E-19	E-20	E-21	E-23	E-23 DUP	E-25
			2004	2004	2004	2004	2004	2004	2004	2004
			Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg
PCB 18	2600	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 28	3000	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 52	3100	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 49	2700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 44	2600	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 37	2100	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 74	2700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 70	2700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 66	2100	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 101	2600	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 99	2500	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 119	2400	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 87	2800	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 110	2900	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 81	2500	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 151	2500	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 77	2100	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 149	2500	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 123	2800	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 118	2700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 114	3000	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 105	2600	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 138	3000	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 158	2600	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 187	2700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 183	2700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 126	3000	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 128	2700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 167	3000	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 177	3000	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 201	2900	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 156	2900	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 157	2700	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 180	2600	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
PCB 170	3100	NG/KG	ND	ND	ND	ND	ND	ND	ND	ND
===== Total PCB's	3100	NG/KG	0	0	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 - PCB Congeners (STANDARD STATIONS)

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

Analyte	MDL	Units	E-26
			2004 Avg
=====	=====	=====	=====
PCB 18	2600	NG/KG	ND
PCB 28	3000	NG/KG	ND
PCB 52	3100	NG/KG	ND
PCB 49	2700	NG/KG	ND
PCB 44	2600	NG/KG	ND
PCB 37	2100	NG/KG	ND
PCB 74	2700	NG/KG	ND
PCB 70	2700	NG/KG	ND
PCB 66	2100	NG/KG	ND
PCB 101	2600	NG/KG	ND
PCB 99	2500	NG/KG	ND
PCB 119	2400	NG/KG	ND
PCB 87	2800	NG/KG	ND
PCB 110	2900	NG/KG	ND
PCB 81	2500	NG/KG	ND
PCB 151	2500	NG/KG	ND
PCB 77	2100	NG/KG	ND
PCB 149	2500	NG/KG	ND
PCB 123	2800	NG/KG	ND
PCB 118	2700	NG/KG	ND
PCB 114	3000	NG/KG	ND
PCB 105	2600	NG/KG	ND
PCB 138	3000	NG/KG	ND
PCB 158	2600	NG/KG	ND
PCB 187	2700	NG/KG	ND
PCB 183	2700	NG/KG	ND
PCB 126	3000	NG/KG	ND
PCB 128	2700	NG/KG	ND
PCB 167	3000	NG/KG	ND
PCB 177	3000	NG/KG	ND
PCB 201	2900	NG/KG	ND
PCB 156	2900	NG/KG	ND
PCB 157	2700	NG/KG	ND
PCB 180	2600	NG/KG	ND
PCB 170	3100	NG/KG	ND
=====	=====	=====	=====
Total PCB's	3100	NG/KG	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-2004 to 31-DEC-2004

Analyte	MDL	Units	B-8	B-9	B-9 DUP	B-10	B-11	B-12	E-1	E-2	E-3	E-5	E-7	E-8	E-11
			2004	2004	2004	2004	2004	2004	2004	2004	2004	2004	2004	2004	2004
			Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg
Acenaphthene	28	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	15	UG/KG	ND	<15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	18	UG/KG	ND	<18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[A]anthracene	32	UG/KG	ND	<32	ND	ND	ND	ND	**	**	ND	**	ND	ND	ND
Benzo[A]pyrene	55	UG/KG	ND	ND	ND	ND	ND	ND	ND	<55	ND	ND	ND	ND	ND
3,4-benzo(B)fluoranthene	63	UG/KG	ND	ND	ND	ND	ND	ND	ND	<63	ND	ND	ND	ND	ND
Benzo[e]pyrene	57	UG/KG	ND	ND	ND	ND	ND	ND	ND	<57	ND	ND	ND	ND	ND
Benzo[G,H,I]perylene	56	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[K]fluoranthene	82	UG/KG	ND	ND	ND	ND	ND	ND	ND	<82	ND	ND	ND	ND	ND
Biphenyl	10	UG/KG	*	*	*	*	*	*	*	*	*	*	*	*	*
Chrysene	36	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(A,H)anthracene	52	UG/KG	ND	ND	ND	ND	ND	ND	**	**	ND	**	ND	ND	ND
2,6-dimethylnaphthalene	32	UG/KG	ND	41	ND	ND	ND	<32	ND	<32	ND	<32	ND	<32	40
Fluoranthene	24	UG/KG	ND	<24	ND	ND	ND	<24	ND	<24	ND	<24	ND	<24	E7
Fluorene	13	UG/KG	ND	13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-CD)pyrene	76	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-methylphenanthrene	41	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-methylnaphthalene	12	UG/KG	28	64	23	22	37	34	18	32	17	37	23	33	45
1-methylnaphthalene	12	UG/KG	ND	35	ND	ND	17	<12	ND	<12	ND	<12	ND	<12	15
Naphthalene	21	UG/KG	27	79	23	22	108	35	<21	<21	ND	<21	ND	21	52
Perylene	23	UG/KG	ND	ND	ND	ND	ND	ND	**	**	ND	**	ND	ND	ND
Phenanthrene	21	UG/KG	ND	21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	35	UG/KG	ND	<35	ND	ND	ND	ND	ND	<35	ND	<35	ND	<35	E13
2,3,5-trimethylnaphthalene	21	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Base/Neutral Compounds	82	UG/KG	55	253	46	44	162	69	18	32	17	37	23	54	172

Analyte	MDL	Units	E-14	E-15	E-17	E-19	E-20	E-21	E-23	E-23 DUP	E-25	E-26
			2004	2004	2004	2004	2004	2004	2004	2004	2004	2004
			Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg
Acenaphthene	28	UG/KG	ND	ND	ND	ND	ND	ND	<28	ND	ND	ND
Acenaphthylene	15	UG/KG	ND	ND	<15	ND	ND	ND	<15	ND	ND	ND
Anthracene	18	UG/KG	ND	ND	ND	ND	ND	ND	30	ND	ND	ND
Benzo[A]anthracene	32	UG/KG	ND	E30	<32	E28	<32	32	116	ND	ND	ND
Benzo[A]pyrene	55	UG/KG	ND	ND	ND	ND	ND	ND	88	ND	ND	ND
3,4-benzo(B)fluoranthene	63	UG/KG	ND	ND	ND	ND	ND	ND	124	ND	ND	ND
Benzo[e]pyrene	57	UG/KG	ND	ND	ND	ND	ND	ND	66	ND	ND	ND
Benzo[G,H,I]perylene	56	UG/KG	ND	ND	ND	ND	ND	ND	59	ND	ND	ND
Benzo[K]fluoranthene	82	UG/KG	ND	ND	ND	ND	ND	ND	<82	ND	ND	ND
Biphenyl	10	UG/KG	20	31	22	*	19	20	*	23	*	*
Chrysene	36	UG/KG	ND	E11	<36	E10	<36	ND	128	ND	ND	ND
Dibenzo(A,H)anthracene	52	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-dimethylnaphthalene	32	UG/KG	53	ND	E38	E20	<32	E21	<32	71	<32	<32
Fluoranthene	24	UG/KG	E13	E14	<24	E11	<24	E13	268	E19	ND	<24
Fluorene	13	UG/KG	ND	ND	<13	ND	<13	E8	ND	ND	ND	ND
Indeno(1,2,3-CD)pyrene	76	UG/KG	ND	ND	ND	ND	ND	ND	<76	ND	ND	ND
1-methylphenanthrene	41	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-methylnaphthalene	12	UG/KG	45	23	53	22	40	27	51	70	48	46
1-methylnaphthalene	12	UG/KG	15	<12	25	13	E12	17	12	21	12	<12
Naphthalene	21	UG/KG	31	26	45	27	28	40	32	34	33	38
Perylene	23	UG/KG	ND	ND	ND	ND	ND	ND	30	ND	ND	ND
Phenanthrene	21	UG/KG	ND	ND	<21	E8	ND	E9	165	ND	ND	ND
Pyrene	35	UG/KG	E19	E16	<35	E11	E11	ND	242	E12	<35	<35
2,3,5-trimethylnaphthalene	21	UG/KG	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Base/Neutral Compounds	82	UG/KG	176	140	192	172	110	187	1411	250	93	84

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

* Biphenyl is not reportable due to blank contamination. Biphenyl presence in blank is due to impurity of BN surrogate spike mix.
** Perylene, Dibenzo(A,H)anthracene and Benzo[A]anthracene not reportable due to presence of analytes in blank.

B. Fish Tissue Data.

Fish were taken from the stations shown in the below tables during 2004. The fish were dissected, preserved by freezing, and each sample analyzed for PAHs, trace metals, chlorinated pesticides and PCBs. Lipids and total solids were also determined for each liver sample.

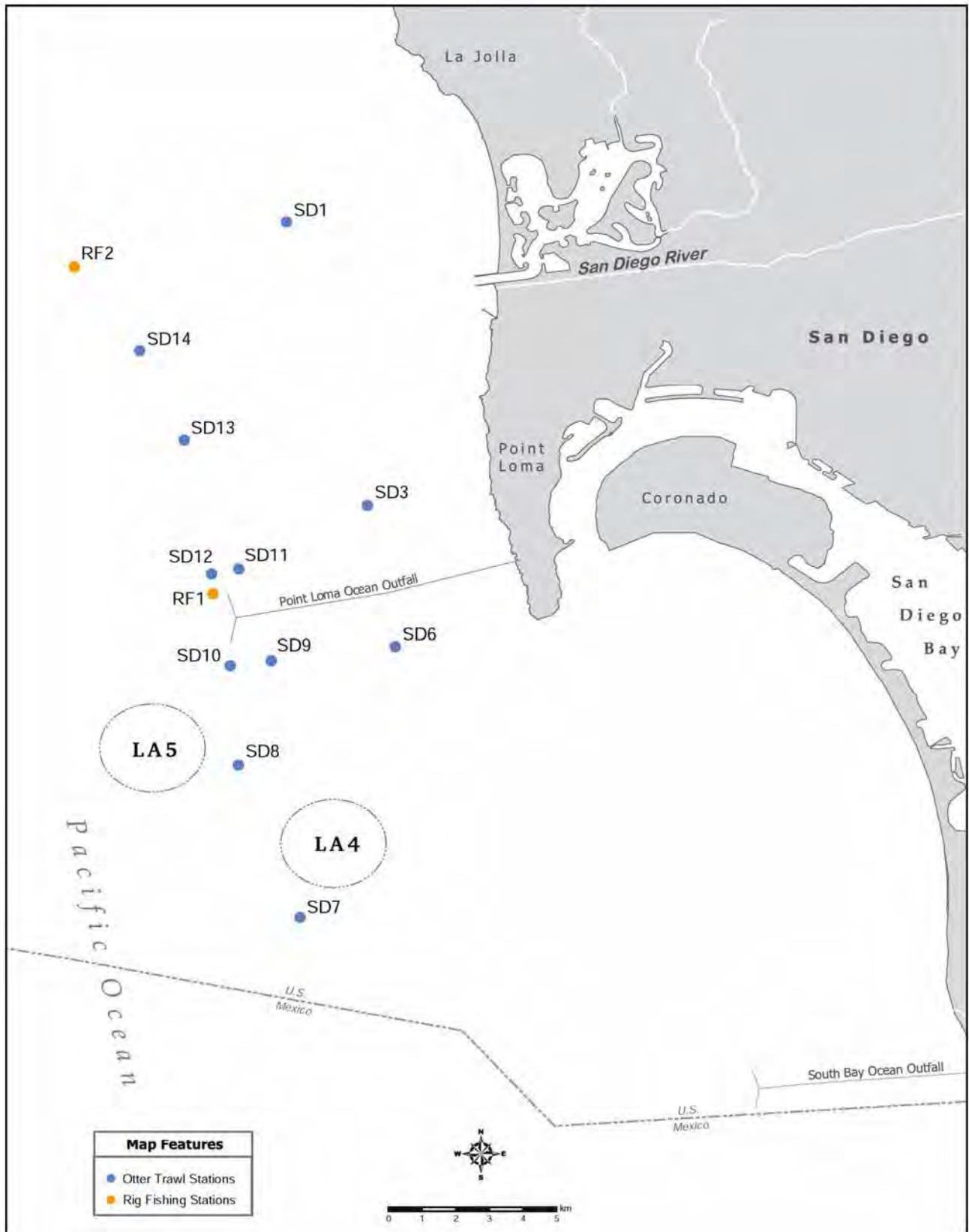
Addendum 1 (June 2003) to MRP R9-2002-0025/NPDES CA0107409 changed the station definitions for trawl and rig fishing sampling, primarily eliminating or redefining stations. Trawl stations SD-7 through SD-14 were reorganized into zones as shown in the below table and following diagram.

In previous years' reports, samples from stations involved in the South Bay Ocean Outfall Predischarge Monitoring, such as SD-15, SD-17, ...SD-21 and RF-3 & -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) was removed by the modifications, although they were done in 2004 for RF-1 and -2 and are included here this year.

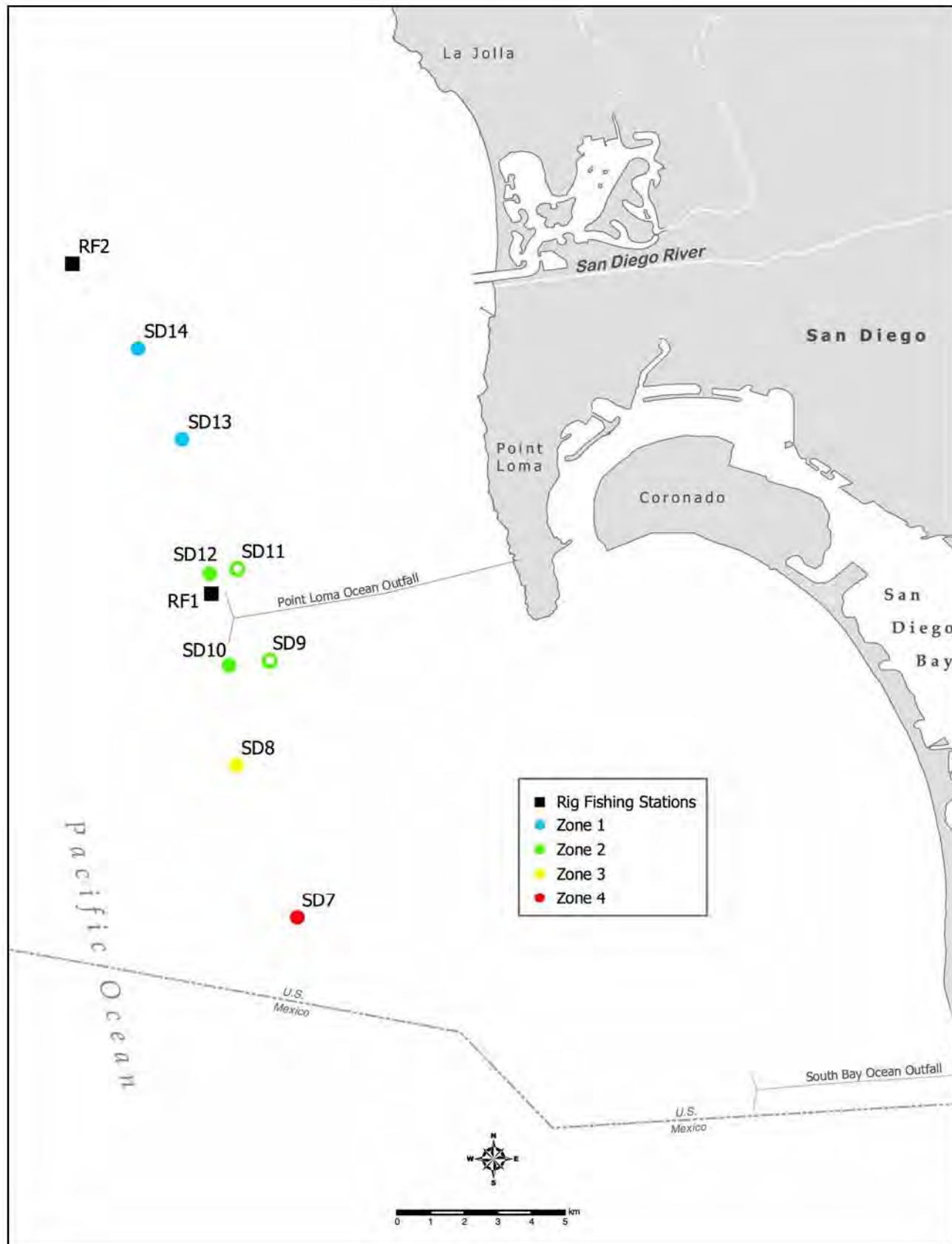
The reported values are annual averages. Results for individual sampling events are contained in the previously published quarterly reports.

Fish sampling stations, 2004

<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
RF-4	FISH_MUSCLE	TFZONE3 (SD-8)	FISH_LIVER
		TFZONE4 (SD-7)	FISH_LIVER



San Diego Rig Fishing and Trawl Stations



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

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

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

Source:		TFZONE1	TFZONE2	Source:		TFZONE3	TFZONE4
Date:		2004	2004	Date:		2004	2004
Analyte:	MDL Units	Average	Average	Analyte:	MDL Units	Average	Average
Aluminum	.583 MG/KG	5.18	3.71	Aluminum	.583 MG/KG	ND	3.36
Antimony	.478 MG/KG	ND	<0.48	Antimony	.478 MG/KG	<0.48	<0.48
Arsenic	.375 MG/KG	6.29	6.78	Arsenic	.375 MG/KG	5.38	1.84
Beryllium	.00297 MG/KG	ND	ND	Beryllium	.00297 MG/KG	ND	ND
Cadmium	.0288 MG/KG	3.34	2.89	Cadmium	.0288 MG/KG	3.89	8.05
Chromium	.0804 MG/KG	0.32	0.34	Chromium	.0804 MG/KG	0.23	0.34
Copper	.0684 MG/KG	4.03	4.09	Copper	.0684 MG/KG	4.29	4.05
Iron	.0958 MG/KG	136	132	Iron	.0958 MG/KG	107	57
Lead	.3 MG/KG	<0.30	<0.30	Lead	.3 MG/KG	<0.30	ND
Manganese	.00712 MG/KG	0.97	1.02	Manganese	.00712 MG/KG	1.07	0.86
Mercury	.03 MG/KG	0.082	0.065	Mercury	.03 MG/KG	0.080	0.079
Nickel	.0939 MG/KG	<0.09	ND	Nickel	.0939 MG/KG	ND	ND
Selenium	.06 MG/KG	2.33	2.60	Selenium	.06 MG/KG	2.12	0.91
Silver	.0568 MG/KG	0.17	0.17	Silver	.0568 MG/KG	0.11	<0.06
Thallium	.845 MG/KG	ND	ND	Thallium	.845 MG/KG	ND	ND
Tin	.24 MG/KG	0.54	0.57	Tin	.24 MG/KG	0.49	0.67
Zinc	.0487 MG/KG	35.1	35.8	Zinc	.0487 MG/KG	29.5	24.1
Total Solids	.4 WT%	42.0	46.3	Total Solids	.4 WT%	43.8	52.9

Source:		RF-1	RF-2
Date:		2004	2004
Analyte:	MDL Units	Average	Average
Aluminum	.583 MG/KG	1.68	<0.58
Antimony	.478 MG/KG	ND	ND
Arsenic	.375 MG/KG	1.62	1.46
Beryllium	.00297 MG/KG	ND	ND
Cadmium	.0288 MG/KG	ND	ND
Chromium	.0804 MG/KG	0.18	0.16
Copper	.0684 MG/KG	0.15	0.19
Iron	.0958 MG/KG	1.60	2.17
Lead	.3 MG/KG	ND	ND
Manganese	.00712 MG/KG	0.08	0.10
Mercury	.03 MG/KG	0.364	0.216
Nickel	.0939 MG/KG	ND	ND
Selenium	.06 MG/KG	0.484	0.295
Silver	.0568 MG/KG	ND	ND
Thallium	.845 MG/KG	ND	ND
Tin	.24 MG/KG	ND	0.35
Zinc	.0487 MG/KG	3.98	3.26
Total Solids	.4 WT%	22.7	21.1

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

POINT LOMA WASTEWATER TREATMENT PLANT
 TISSUE - Chlorinated Pesticides
 From 01-JAN-2004 To 31-DEC-2004

FISH - Lipids & Total Solids

Tissue	Analyte	MDL	Units	RF-1	RF-2	TFZONE1	TFZONE2	TFZONE3	TFZONE4
				2004	2004	2004	2004	2004	2004
				Avg	Avg	Avg	Avg	Avg	Avg
Liver	Lipids	.005	WT%			23.9	26.7	29.9	40.9
Liver	Total Solids	.4	WT%			42.0	46.3	43.8	52.9
Muscle	Lipids	.005	WT%	0.90	0.54				
Muscle	Total Solids	.4	WT%	22.7	21.1				

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

POINT LOMA WASTEWATER TREATMENT PLANT
ANNUAL FISH LIVER - Chlorinated Pesticides
From 01-JAN-2004 To 31-DEC-2004

FISH LIVER

Analyte	MDL	Units	TFZONE1	TFZONE2	TFZONE3	TFZONE4
			2004	2004	2004	2004
			Avg	Avg	Avg	Avg
Hexachlorobenzene	13.3	UG/KG	<13.3	<13.3	E2.9	E3.3
BHC, Gamma isomer	167	UG/KG	ND	ND	ND	ND
Heptachlor	33.3	UG/KG	ND	ND	ND	ND
Aldrin		UG/KG	ND	ND	ND	ND
Heptachlor epoxide	100	UG/KG	ND	ND	ND	ND
o,p-DDE	13.3	UG/KG	<13.3	<13.3	<13.3	<13.3
Alpha Endosulfan	167	UG/KG	ND	ND	ND	ND
Alpha (cis) Chlordane	13.3	UG/KG	<13.3	<13.3	<13.3	E4.8
Trans Nonachlor	13.3	UG/KG	<13.3	<13.3	<13.3	E6.6
p,p-DDE	13.3	UG/KG	500.0	627.0	575.0	270.0
p,-p-DDMU	13.3	UG/KG	<13.3	E14.8	<13.3	<13.3
Dieldrin	13.3	UG/KG	ND	ND	ND	ND
o,p-DDD	13.3	UG/KG	<13.3	<13.3	<13.3	ND
Endrin	13.3	UG/KG	ND	ND	ND	ND
o,p-DDT	13.3	UG/KG	<13.3	<13.3	<13.3	<13.3
p,p-DDD	13.3	UG/KG	<13.3	<13.3	<13.3	E4.3
p,p-DDT	13.3	UG/KG	<13.3	<13.3	<13.3	E7.1
Mirex	13.3	UG/KG	<13.3	<13.3	ND	ND

Analyte	MDL	Units	RF-1	RF-2
			2004	2004
			Avg	Avg
Hexachlorobenzene	1.33	UG/KG	<1.3	E0.1
BHC, Gamma isomer	3.33	UG/KG	ND	ND
Heptachlor	3.33	UG/KG	ND	ND
Aldrin	6.67	UG/KG	ND	ND
Heptachlor epoxide	6.67	UG/KG	ND	ND
o,p-DDE	1.33	UG/KG	E0.7	<1.3
Alpha Endosulfan	33	UG/KG	ND	ND
Alpha (cis) Chlordane	2	UG/KG	<2.0	ND
Trans Nonachlor	2	UG/KG	<2.0	ND
p,p-DDE	1.33	UG/KG	29.2	13.5
p,-p-DDMU	1.33	UG/KG	<1.3	E0.5
Dieldrin	1.33	UG/KG	ND	ND
o,p-DDD	1.33	UG/KG	ND	ND
Endrin	1.33	UG/KG	ND	ND
o,p-DDT	1.33	UG/KG	ND	ND
p,p-DDD	1.33	UG/KG	E0.5	<1.3
p,p-DDT	1.33	UG/KG	<1.3	ND
Mirex	1.33	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.

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 - Analysis of Poly Aromatic Hydrocarbon (PAH)
 From 01-JAN-2004 To 31-DEC-2004

Analyte	MDL	Units	RF-1	RF-2
			2004	2004
			Avg	Avg
Acenaphthene	17.4	UG/KG	ND	ND
Acenaphthylene	9.7	UG/KG	ND	ND
Anthracene	21.2	UG/KG	ND	ND
Benzo[A]anthracene	12.4	UG/KG	ND	ND
Benzo[A]pyrene	16.1	UG/KG	ND	ND
3,4-benzo(B)fluoranthene	7.6	UG/KG	ND	ND
Benzo[e]pyrene	11	UG/KG	ND	ND
Benzo[G,H,I]perylene	10.2	UG/KG	ND	ND
Benzo[K]fluoranthene	15.8	UG/KG	ND	ND
Biphenyl	12.3	UG/KG	ND	ND
Chrysene	12.2	UG/KG	ND	ND
Dibenzo(A,H)anthracene	11.9	UG/KG	ND	ND
2,6-dimethylnaphthalene	16	UG/KG	ND	ND
Fluoranthene	10.8	UG/KG	ND	ND
Fluorene	15.1	UG/KG	ND	ND
Indeno(1,2,3-CD)pyrene	14.1	UG/KG	ND	ND
1-methylnaphthalene	20.2	UG/KG	ND	ND
2-methylnaphthalene	13.7	UG/KG	ND	ND
1-methylphenanthrene	8.1	UG/KG	ND	ND
Naphthalene	9.2	UG/KG	ND	ND
Perylene	14.3	UG/KG	ND	ND
Phenanthrene	9.9	UG/KG	ND	ND
Pyrene	9.4	UG/KG	ND	ND
2,3,5-trimethylnaphthalene	19.2	UG/KG	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT
 ANNUAL FISH LIVER - Analysis of Poly Chlorinated Biphenyls
 From 01-JAN-2004 To 31-DEC-2004

Analyte	MDL	Units	TFZONE1	TFZONE2	Analyte	MDL	Units	TFZONE3	TFZONE4
			2004	2004				2004	2004
			Avg	Avg				Avg	Avg
PCB 18	33.3	UG/KG	ND	ND	PCB 18	33.3	UG/KG	ND	ND
PCB 28	13.3	UG/KG	ND	ND	PCB 28	13.3	UG/KG	ND	ND
PCB 49	13.3	UG/KG	<13.3	<13.3	PCB 49	13.3	UG/KG	<13.3	<13.3
PCB 37	13.3	UG/KG	ND	ND	PCB 37	13.3	UG/KG	ND	ND
PCB 70	13.3	UG/KG	E1.9	E2.3	PCB 70	13.3	UG/KG	E3.3	E1.8
PCB 101	13.3	UG/KG	<13.3	E14.2	PCB 101	13.3	UG/KG	E21.1	E7.3
PCB 119	13.3	UG/KG	ND	ND	PCB 119	13.3	UG/KG	ND	ND
PCB 87	13.3	UG/KG	<13.3	<13.3	PCB 87	13.3	UG/KG	<13.3	<13.3
PCB 110	13.3	UG/KG	<13.3	<13.3	PCB 110	13.3	UG/KG	E19.2	<13.3
PCB 151	13.3	UG/KG	<13.3	<13.3	PCB 151	13.3	UG/KG	<13.3	<13.3
PCB 77	13.3	UG/KG	ND	ND	PCB 77	13.3	UG/KG	ND	ND
PCB 149	13.3	UG/KG	<13.3	E15.2	PCB 149	13.3	UG/KG	E13.5	<13.3
PCB 123	13.3	UG/KG	<13.3	<13.3	PCB 123	13.3	UG/KG	<13.3	ND
PCB 118	13.3	UG/KG	E27.5	E31.0	PCB 118	13.3	UG/KG	E43.6	E15.3
PCB 114	13.3	UG/KG	ND	ND	PCB 114	13.3	UG/KG	<13.3	ND
PCB 153/168	13.3	UG/KG	73.9	95.7	PCB 153/168	13.3	UG/KG	E99.6	31.0
PCB 105	13.3	UG/KG	E7.5	<13.3	PCB 105	13.3	UG/KG	<13.3	E4.7
PCB 138	13.3	UG/KG	E47.7	E60.1	PCB 138	13.3	UG/KG	E66.3	E22.3
PCB 158	13.3	UG/KG	<13.3	<13.3	PCB 158	13.3	UG/KG	<13.3	<13.3
PCB 187	13.3	UG/KG	E32.2	E41.9	PCB 187	13.3	UG/KG	E37.3	<13.3
PCB 183	13.3	UG/KG	<13.3	E13.3	PCB 183	13.3	UG/KG	<13.3	E3.5
PCB 126	13.3	UG/KG	ND	ND	PCB 126	13.3	UG/KG	ND	ND
PCB 128	13.3	UG/KG	<13.3	<13.3	PCB 128	13.3	UG/KG	E14.0	E4.8
PCB 167	13.3	UG/KG	<13.3	<13.3	PCB 167	13.3	UG/KG	<13.3	<13.3
PCB 177	13.3	UG/KG	<13.3	<13.3	PCB 177	13.3	UG/KG	<13.3	<13.3
PCB 156	13.3	UG/KG	<13.3	<13.3	PCB 156	13.3	UG/KG	<13.3	<13.3
PCB 157	13.3	UG/KG	<13.3	<13.3	PCB 157	13.3	UG/KG	<13.3	ND
PCB 180	13.3	UG/KG	E37.4	E49.7	PCB 180	13.3	UG/KG	E44.9	<13.3
PCB 170	13.3	UG/KG	<13.3	E13.5	PCB 170	13.3	UG/KG	<13.3	<13.3
PCB 169	13.3	UG/KG	ND	ND	PCB 169	13.3	UG/KG	ND	ND
PCB 189	13.3	UG/KG	ND	<13.3	PCB 189	13.3	UG/KG	ND	ND
PCB 194	13.3	UG/KG	E7.4	<13.3	PCB 194	13.3	UG/KG	<13.3	E2.1
PCB 206	13.3	UG/KG	E4.5	<13.3	PCB 206	13.3	UG/KG	E4.5	E1.4

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 - Analysis of Poly Chlorinated Biphenyls
 From 01-JAN-2004 To 31-DEC-2004

Analyte	MDL	Units	RF-1	RF-2
			2004	2004
			Avg	Avg
=====	=====	=====	=====	=====
PCB 18	1.33	UG/KG	ND	ND
PCB 28	1.33	UG/KG	ND	ND
PCB 49	1.33	UG/KG	<1.3	ND
PCB 37	1.33	UG/KG	ND	ND
PCB 70	1.33	UG/KG	<1.3	ND
PCB 101		UG/KG	E0.7	E0.3
PCB 119	1.33	UG/KG	ND	ND
PCB 87	1.33	UG/KG	<1.3	ND
PCB 110	1.33	UG/KG	<1.3	ND
PCB 151	1.33	UG/KG	<1.3	ND
PCB 77	1.33	UG/KG	ND	ND
PCB 149	1.33	UG/KG	<1.3	ND
PCB 123	1.33	UG/KG	ND	ND
PCB 118		UG/KG	E1.1	E0.6
PCB 114	1.33	UG/KG	ND	ND
PCB 153/168	1.33	UG/KG	E2.0	E1.1
PCB 105		UG/KG	E0.4	E0.2
PCB 138	1.33	UG/KG	E1.5	E0.9
PCB 158	1.33	UG/KG	ND	ND
PCB 187	1.33	UG/KG	E0.8	<1.3
PCB 183	1.33	UG/KG	<1.3	ND
PCB 126	1.33	UG/KG	ND	ND
PCB 128	1.33	UG/KG	<1.3	ND
PCB 167	1.33	UG/KG	ND	ND
PCB 177	1.33	UG/KG	ND	ND
PCB 156	1.33	UG/KG	<1.3	ND
PCB 157	1.33	UG/KG	ND	ND
PCB 180	1.33	UG/KG	<1.3	E0.5
PCB 170	1.33	UG/KG	ND	ND
PCB 169	1.33	UG/KG	ND	ND
PCB 189	1.33	UG/KG	ND	ND
PCB 194	1.33	UG/KG	<1.3	<1.3
PCB 206	1.33	UG/KG	<1.3	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

