

VI. Annual Pretreatment Program Analyses

2012 Annual Pretreatment Program Analyses
(QUARTERLY SLUDGE PROJECT)

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

The Quarterly Sludge Project was conducted four times during 2012. Sampling occurred on February 07, May 01, August 07, and October 02. Monthly composite samples of MBC dewatered sludge during the respective calendar months were taken and analyzed for a similar suite of parameters. The tables showing the results of these analyses follow in this section.

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

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

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

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

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

Abbreviations:

PLR	Pt Loma WWTP influent.	RAW COMP	Pt. Loma raw sludge composite
PLE	Pt Loma WWTP effluent.	DIG COMP	Pt. Loma digested sludge composite
MBCDEWCN	MBC dewatered sludge from centrifuges.	MBC_COMBCN	MBC combined centrate from dewatering centrifuges.
MBC_NC_RSL	NCWRP to MBC raw sludge line	MBC_NC_DSL	MBC digested sludge line

A. Point Loma Wastewater Treatment Plant and Metro Biosolids Center Sources

POINT LOMA WASTEWATER TREATMENT PLANT
Physical/Aggregate Properties Report

2012 Annual

Source Analyte	MDL Units	PLR 07-FEB-2012	PLR 01-MAY-2012	PLR 07-AUG-2012	PLR 02-OCT-2012
Conductivity	10 umhos/cm	3590	2700	2710	2830
HEM (Grease & Oil)	1.2 mg/L	43.7	41.7	48.4	40.5
Total Suspended Solids	1.4 mg/L	384	377	376	333
Volatile Suspended Solids	1.6 mg/L	341	328	320	291
Total Alkalinity (bicarbonate)	20 mg/L	281	304	311	297
Total Solids	10 mg/L	2380	1880	1860	2020
Total Volatile Solids	100 mg/L	563	529	526	632
Total Kjeldahl Nitrogen	1.6 mg/L	54	56	56	50
BOD (Biochemical Oxygen Demand)	2 mg/L	287	291	316	304
Chemical Oxygen Demand	18 mg/L	649	603	648	655
pH (grab)	pH Units	7.31	7.42	7.41	7.52
Ammonia-N	.3 mg/L	34.6	36.7	38.8	36.7
Turbidity	.13 NTU	137	139	145	161
Total Dissolved Solids	28 mg/L	2040	1530	1630	1710
MBAS (Surfactants)	.03 mg/L	9.0	7.7	8.84	8.1

Source Analyte	MDL Units	PLE 07-FEB-2012	PLE 01-MAY-2012	PLE 07-AUG-2012	PLE 02-OCT-2012
Conductivity	10 umhos/cm	3610	2730	2850	2880
HEM (Grease & Oil)	1.2 mg/L	20.5	9.1	20.5	8.8
Total Suspended Solids	1.4 mg/L	50	32	38	34
Volatile Suspended Solids	1.6 mg/L	40	25	31	27
Total Alkalinity (bicarbonate)	20 mg/L	269	290	305	284
Total Solids	10 mg/L	2110	1570	1620	1790
Total Volatile Solids	100 mg/L	317	264	284	398
Total Kjeldahl Nitrogen	1.6 mg/L	45	36	46	42
BOD (Biochemical Oxygen Demand)	2 mg/L	123	112	120	92
Chemical Oxygen Demand	18 mg/L	291	224	254	254
pH (grab)	pH Units	7.23	7.27	7.26	7.24
Ammonia-N	.3 mg/L	34.3	37.0	38.4	35.1
Turbidity	.13 NTU	44.3	33.4	52.7	43.4
Total Dissolved Solids	28 mg/L	2060	1540	1580	1730
MBAS (Surfactants)	.03 mg/L	5.60	5.90	6.25	5.64

Source Analyte	MDL Units	RAW COMP 07-FEB-2012	RAW COMP 01-MAY-2012	RAW COMP 07-AUG-2012	RAW COMP 02-OCT-2012
Total Alkalinity (bicarbonate)	20 mg/L	382	621	302	480
Total Solids	Wt%	3.92	3.97	4.00	3.90
Total Volatile Solids	Wt%	77	80	79	79
Total Kjeldahl Nitrogen	.04 Wt%	5.0	2.6	4.4	NR
pH (composite)	pH Units	5.99	5.87	5.64	5.69

NR= Not required

POINT LOMA WASTEWATER TREATMENT PLANT
Physical/Aggregate Properties Report

2012 Annual

Source Analyte	MDL	Units	DIG COMP 07-FEB-2012	DIG COMP 01-MAY-2012	DIG COMP 07-AUG-2012	DIG COMP 02-OCT-2012
Total Alkalinity (bicarbonate)	20	mg/L	2340	2590	2200	2040
Total Solids		Wt%	2.12	2.25	2.30	2.40
Total Volatile Solids		Wt%	58	61	62	60
Total Kjeldahl Nitrogen	.04	Wt%	3.1	6.3	6.2	NR
pH (composite)		pH Units	7.24	7.22	7.21	7.22

Source Analyte	MDL	Units	MBC_COMBCN 07-FEB-2012	MBC_COMBCN 01-MAY-2012	MBC_COMBCN 07-AUG-2012	MBC_COMBCN 02-OCT-2012
Conductivity	10	umhos/cm	6130	5690	4540	NR
HEM (Grease & Oil)	1.2	mg/L	5.4	37.5	26.1	11.7
Total Suspended Solids	1.4	mg/L	695	685	530	590
Volatile Suspended Solids	1.6	mg/L	510	530	410	435
Total Alkalinity (bicarbonate)	20	mg/L	1500	1580	1230	1150
Total Solids		Wt%	0.34	0.33	0.40	0.40
Total Volatile Solids		Wt%	42	48	52	54
Total Kjeldahl Nitrogen	1.6	mg/L	430	400	402	391
BOD (Biochemical Oxygen Demand)	2	mg/L	233	395	199	296
Chemical Oxygen Demand	18	mg/L	1410	1040	1320	873
pH (grab sample)		pH	7.55	7.70	7.48	7.57
Ammonia-N	.3	mg/L	399	398	340	362

Source Analyte	MDL	Units	MBCDEWCN 29-FEB-2012	MBCDEWCN 31-MAY-2012	MBCDEWCN 31-AUG-2012	MBCDEWCN 31-OCT-2012
Total Solids		Wt%	30.30	28.00	27.30	27.90
Total Volatile Solids		Wt%	57	60	58	59
Total Kjeldahl Nitrogen	.04	Wt%	4.4	5.0	4.8	4.7
pH (composite)		pH	7.69	7.72	7.66	7.46

Source Analyte	MDL	Units	MBC_NC_DSL 07-FEB-2012	MBC_NC_DSL 01-MAY-2012	MBC_NC_DSL 07-AUG-2012	MBC_NC_DSL 02-OCT-2012
Total Alkalinity (bicarbonate)	20	mg/L	2530	2540	1640	1840
Total Solids		Wt%	2.29	2.46	2.70	2.60
Total Volatile Solids		Wt%	68	67	66	66
Total Kjeldahl Nitrogen	1.6	mg/L	1890	1930	759	1890
pH (composite)		pH	7.18	7.24	7.01	7.08

Source Analyte	MDL	Units	MBC_NC_RSL 07-FEB-2012	MBC_NC_RSL 01-MAY-2012	MBC_NC_RSL 07-AUG-2012	MBC_NC_RSL 02-OCT-2012
Total Suspended Solids	1.4	mg/L	6350	6300	6400	4150
Volatile Suspended Solids	1.6	mg/L	5200	5200	5200	3450
Total Alkalinity (bicarbonate)	20	mg/L	196	294	352	330
Total Solids		Wt%	0.63	2.47	0.60	0.50
Total Volatile Solids		Wt%	75	67	71	70
Total Kjeldahl Nitrogen	1.6	mg/L	197	156	235	192
pH (composite)		pH	6.88	7.15	6.95	6.84

NR= Not required

POINT LOMA WASTEWATER TREATMENT PLANT
 QUARTERLY SLUDGE PROJECT
 (Metals from Digestion and Ions from Supernatant)

2012 Annual

Source:		PLE	PLE	PLE	PLE
Date:		07-FEB-2012	01-MAY-2012	07-AUG-2012	02-OCT-2012
Sample ID:	MDL Units	P602738	P613974	P626871	P634304
=====	=====	=====	=====	=====	=====
Aluminum	47 UG/L	101	70	194	127
Antimony	2.9 UG/L	ND	ND	ND	ND
Arsenic	.4 UG/L	0.7	0.6	0.7	0.8
Barium	.039 UG/L	20	25	34	26
Beryllium	.022 UG/L	ND	ND	ND	ND
Boron	7 UG/L	258	373	403	461
Cadmium	.53 UG/L	ND	ND	ND	ND
Chromium	1.2 UG/L	1.8	2.4	1.8	2.0
Cobalt	.85 UG/L	ND	ND	ND	ND
Copper	2 UG/L	20	15	26	18
Iron	37 UG/L	2760	2600	2880	2390
Lead	2 UG/L	<2	ND	<2	<2
Manganese	.24 UG/L	94	103	105	109
Mercury	.5 NG/L	16.3	7.3	8.0	4.6
Molybdenum	.89 UG/L	3.9	5.1	6.2	8.1
Nickel	.53 UG/L	4.31	6.39	6.76	7.46
Selenium	.28 UG/L	0.84	0.65	0.98	0.68
Silver	.4 UG/L	ND	ND	ND	<0.4
Thallium, Total Recoverable	3.9 UG/L	<3.9	ND	ND	ND
Vanadium	.64 UG/L	0.82	1.63	1.39	1.00
Zinc	2.5 UG/L	31	19	29	26
=====	=====	=====	=====	=====	=====
Calcium	.04 MG/L	71.3	75.4	69.1	62.2
Lithium	.002 MG/L	0.03	0.03	0.04	0.04
Magnesium	.1 MG/L	67	52	48	48
Potassium	.3 MG/L	31	27	27	26
Sodium	1 MG/L	493	356	351	359
=====	=====	=====	=====	=====	=====
Bromide	.1 MG/L	2.3	1.3	1.5	1.7
Chloride	7 MG/L	854	572	614	642
Fluoride	.05 MG/L	0.78	0.78	0.97	0.86
Nitrate	.04 MG/L	1.06	0.34	0.36	0.60
Ortho Phosphate	.2 MG/L	2.9	3.6	5.5	5.3
Sulfate	9 MG/L	211	190	184	167
=====	=====	=====	=====	=====	=====
Calcium Hardness	.1 MG/L	178	188	172	155
Magnesium Hardness	.4 MG/L	276	213	196	197
Total Hardness	.4 MG/L	454	401	369	352
=====	=====	=====	=====	=====	=====
Cyanides, Total	.002 MG/L	ND	0.002	0.002	0.003
Sulfides-Total	.4 MG/L	ND	ND	ND	0.7
Total Kjeldahl Nitrogen	1.6 MG/L	44.9	36.4	45.5	42.3

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

POINT LOMA WASTEWATER TREATMENT PLANT
 QUARTERLY SLUDGE PROJECT
 (Metals from Digestion and Ions from Supernatant)

2012 Annual

Source:		PLR	PLR	PLR	PLR
Date:		07-FEB-2012	01-MAY-2012	07-AUG-2012	02-OCT-2012
Sample ID:	MDL Units	P602744	P613980	P626877	P634310
=====	=====	=====	=====	=====	=====
Aluminum	47 UG/L	1130	692	921	1090
Antimony	2.9 UG/L	ND	ND	ND	4
Arsenic	.4 UG/L	1.2	1.3	1.2	1.1
Barium	.039 UG/L	60	71	78	77
Beryllium	.022 UG/L	ND	ND	ND	ND
Boron	7 UG/L	334	376	330	462
Cadmium	.53 UG/L	ND	ND	ND	0.7
Chromium	1.2 UG/L	6.8	6.4	5.4	5.3
Cobalt	.85 UG/L	ND	0.9	ND	ND
Copper	2 UG/L	84	96	135	116
Iron	37 UG/L	7520	7100	6840	6560
Lead	2 UG/L	4	2	3	3
Manganese	.24 UG/L	113	117	106	115
Mercury	.5 NG/L	43.7	233	92.7	160
Molybdenum	.89 UG/L	5.5	5.5	10.5	12.0
Nickel	.53 UG/L	7.95	7.72	9.09	10.40
Selenium	.28 UG/L	1.58	1.47	1.70	1.19
Silver	.4 UG/L	0.8	1.0	1.3	1.2
Thallium, Total Recoverable	3.9 UG/L	ND	4.6	ND	ND
Vanadium	.64 UG/L	3.91	4.35	4.13	5.54
Zinc	2.5 UG/L	154	158	187	186
=====	=====	=====	=====	=====	=====
Calcium	.04 MG/L	70.8	76.2	70.7	62.3
Lithium	.002 MG/L	0.03	0.04	0.04	0.04
Magnesium	.1 MG/L	65	52	47	47
Potassium	.3 MG/L	31	27	27	26
Sodium	1 MG/L	471	350	323	343
=====	=====	=====	=====	=====	=====
Bromide	.1 MG/L	2.2	1.4	1.4	1.6
Chloride	7 MG/L	818	556	550	623
Fluoride	.05 MG/L	1.01	0.98	0.97	0.10
Nitrate	.04 MG/L	0.56	0.17	0.09	0.11
Ortho Phosphate	.2 MG/L	5.1	5.3	7.2	6.6
Sulfate	9 MG/L	206	193	182	167
=====	=====	=====	=====	=====	=====
Calcium Hardness	.1 MG/L	177	190	176	156
Magnesium Hardness	.4 MG/L	267	215	194	195
Total Hardness	.4 MG/L	444	405	370	351
=====	=====	=====	=====	=====	=====
Cyanides, Total	.002 MG/L	ND	ND	ND	0.004
Sulfides-Total	.4 MG/L	0.7	1.7	2.5	2.9
Total Kjeldahl Nitrogen	1.6 MG/L	53.7	56.1	55.8	50.3

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

POINT LOMA WASTEWATER TREATMENT PLANT
 QUARTERLY SLUDGE PROJECT
 (Metals from Digestion and Ions from Supernatant)

2012 Annual

Source:		MBC_COMBCN	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN
Date:		07-FEB-2012	01-MAY-2012	07-AUG-2012	02-OCT-2012
Sample ID:	MDL Units	P602755	P613991	P626888	P634321
=====					
Aluminum	47 UG/L	1760	1790	2140	1110
Antimony	2.9 UG/L	ND	ND	ND	ND
Arsenic	.4 UG/L	2.5	3.0	2.9	2.3
Barium	.039 UG/L	162	155	204	147
Beryllium	.022 UG/L	ND	ND	ND	ND
Boron	7 UG/L	337	402	377	431
Cadmium	.53 UG/L	ND	ND	ND	0.7
Chromium	1.2 UG/L	17.8	16.8	19.1	7.6
Cobalt	.85 UG/L	4.1	5.2	4.1	4.5
Copper	2 UG/L	233	223	310	163
Iron	37 UG/L	46500	30900	44400	30100
Lead	2 UG/L	7	6	6	3
Manganese	.24 UG/L	363	284	355	371
Mercury	.5 NG/L	273	203	231	170
Molybdenum	.89 UG/L	7.8	7.3	12.6	9.0
Nickel	.53 UG/L	26.10	29.40	27.90	25.80
Selenium	.28 UG/L	3.09	2.29	3.10	2.56
Silver	.4 UG/L	1.6	1.3	2.0	ND
Thallium, Total Recoverable	3.9 UG/L	ND	4.2	ND	ND
Vanadium	.64 UG/L	10.40	7.70	7.24	6.53
Zinc	2.5 UG/L	327	291	373	209
=====					
Calcium	.04 MG/L	159	158	159	171
Lithium	.002 MG/L	0.03	0.04	0.04	0.04
Magnesium	.1 MG/L	71	59	56	62
Potassium	.3 MG/L	57	52	42	45
Sodium	1 MG/L	384	280	264	278
=====					
Bromide	.1 MG/L	1.7	1.1	1.1	1.1
Chloride	7 MG/L	1060	823	894	986
Fluoride	.05 MG/L	0.52	0.71	0.73	0.69
Nitrate	.04 MG/L	0.27	0.73	0.21	0.35
Ortho Phosphate	.2 MG/L	4.0	13.3	8.4	3.1
Sulfate	9 MG/L	31	36	32	28
=====					
Calcium Hardness	.1 MG/L	397	394	397	427
Magnesium Hardness	.4 MG/L	292	241	231	255
Total Hardness	.4 MG/L	689	636	628	682
=====					
Cyanides, Total	.002 MG/L	0.005	0.005	0.005	0.003
Sulfides-Total	.4 MG/L	0.7	3.0	5.9	3.7
Total Kjeldahl Nitrogen	1.6 MG/L	430	400	402	391

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

MBC_COMBCN = Combined Sludge Centrate

POINT LOMA WASTEWATER TREATMENT PLANT
 QUARTERLY SLUDGE PROJECT
 (Metals from Digestion and Ions from Supernatant)

2012 Annual

Source:		MBC_NC_DSL	MBC_NC_DSL	MBC_NC_DSL	MBC_NC_DSL
Date:		07-FEB-2012	01-MAY-2012	07-AUG-2012	02-OCT-2012
Sample ID:	MDL Units	P602809	P614045	P626942	P634375
=====					
Aluminum	47 UG/L	188000	171000	204000	233000
Antimony	2.9 UG/L	30	19	53	92
Arsenic	.4 UG/L	146	84.2	129	159
Barium	.039 UG/L	6210	6750	10600	6180
Beryllium	.022 UG/L	2.05	2.57	2.67	1.50
Boron	7 UG/L	1250	975	1140	1170
Cadmium	.53 UG/L	12.4	19.2	23.5	28.8
Chromium	1.2 UG/L	1190	1340	1540	1850
Cobalt	.85 UG/L	104	56.4	74.6	126
Copper	2 UG/L	15600	15800	20000	24100
Iron	37 UG/L	1860000	2000000	2980000	2610000
Lead	2 UG/L	303	306	351	473
Manganese	.24 UG/L	6700	6930	10100	11700
Mercury	.5 NG/L	16600	11500	12200	8150
Molybdenum	.89 UG/L	454	451	706	724
Nickel	.53 UG/L	886	822	940	1130
Selenium	.28 UG/L	126	93.2	136	119
Silver	.4 UG/L	157	117	129	162
Thallium, Total Recoverable	3.9 UG/L	ND	ND	ND	38.4
Vanadium	.64 UG/L	794	489	406	716
Zinc	2.5 UG/L	14100	14400	17500	20300
=====					
Calcium	.04 MG/L	57.8	130.0	224.0	190.0
Lithium	.002 MG/L	0.04	0.04	0.05	0.04
Magnesium	.1 MG/L	62	47	72	64
Potassium	.3 MG/L	69	48	58	56
Sodium	1 MG/L	177	133	185	169
=====					
Bromide	.1 MG/L	0.7	0.6	0.6	0.6
Chloride	7 MG/L	1070	1130	1510	1330
Fluoride	.05 MG/L	0.74	ND	0.66	0.65
Nitrate	.04 MG/L	0.28	0.22	0.23	0.20
Ortho Phosphate	.2 MG/L	ND	1.4	ND	ND
Sulfate	9 MG/L	30	21	20	20
=====					
Cyanides, Total	.002 MG/L	0.010	0.011	0.010	0.013
Sulfides-Total	.4 MG/L	412	578	527	454
Sulfides-Reactive	11 MG/KG	118	194	128	127
Total Kjeldahl Nitrogen	1.6 MG/L	1890	1930	759	1890

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

MBC_NC_DSL = Combined North City Digested Sludge Line

POINT LOMA WASTEWATER TREATMENT PLANT
 QUARTERLY SLUDGE PROJECT
 (Metals from Digestion and Ions from Supernatant)

2012 Annual

Source:		MBC_NC_RSL	MBC_NC_RSL	MBC_NC_RSL	MBC_NC_RSL
Date:		07-FEB-2012	01-MAY-2012	07-AUG-2012	02-OCT-2012
Sample ID:	MDL Units	P602807	P614043	P626940	P634373
=====					
Aluminum	47 UG/L	18600	13700	22600	20100
Antimony	2.9 UG/L	12	ND	3	ND
Arsenic	.4 UG/L	9.8	2.9	17.9	17.2
Barium	.039 UG/L	437	528	1110	921
Beryllium	.022 UG/L	0.36	0.10	0.32	0.18
Boron	7 UG/L	2000	372	455	433
Cadmium	.53 UG/L	ND	1.0	4.2	2.1
Chromium	1.2 UG/L	83.00	74.10	149.00	133.00
Cobalt	.85 UG/L	2.1	3.2	10.0	7.3
Copper	2 UG/L	941	976	2220	1980
Iron	37 UG/L	122000	111000	242000	176000
Lead	2 UG/L	29	19	51	32
Manganese	.24 UG/L	764	551	891	1120
Mercury	.5 NG/L	745	1960	3100	2190
Molybdenum	.89 UG/L	30.6	32.1	78.3	55.2
Nickel	.53 UG/L	50.1	46.1	104	81.8
Selenium	.28 UG/L	9.80	12.90	15.30	9.06
Silver	.4 UG/L	9.5	6.4	19.1	10.3
Thallium, Total Recoverable	3.9 UG/L	13.4	6.4	19.0	12.8
Vanadium	.64 UG/L	39.00	21.80	34.30	52.30
Zinc	2.5 UG/L	1140	1000	2270	2000
=====					
Calcium	.04 MG/L	58.9	65.4	64.7	58.9
Lithium	.002 MG/L	0.03	0.03	0.04	0.03
Magnesium	.1 MG/L	38	33	32	32
Potassium	.3 MG/L	31	24	26	27
Sodium	1 MG/L	170	149	165	160
=====					
Bromide	.1 MG/L	0.6	0.5	0.49	0.5
Chloride	7 MG/L	440	319	326	330
Fluoride	.05 MG/L	0.65	0.75	0.68	0.69
Nitrate	.04 MG/L	0.21	0.18	0.12	ND
Ortho Phosphate	.2 MG/L	ND	15.60	27.60	9.10
Sulfate	9 MG/L	36	45	25	22
=====					
Cyanides, Total	.002 MG/L	0.003	0.004	0.004	0.003
Sulfides-Total	.4 MG/L	12.3	31.4	68.5	37.0
Sulfides-Reactive	11 MG/KG	ND	36	37	15
Total Kjeldahl Nitrogen	1.6 MG/L	197	156	235	192

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

MBC_NC_RSL = Combined North City Raw Sludge Line

POINT LOMA WASTEWATER TREATMENT PLANT
 QUARTERLY SLUDGE PROJECT
 (Metals from Digestion and Ions from Supernatant)

2012 Annual

Source:		RAW COMP	RAW COMP	RAW COMP	RAW COMP
Date:		07-FEB-2012	01-MAY-2012	07-AUG-2012	02-OCT-2012
Sample ID:	MDL Units	P602780	P614016	P626913	P634346
Aluminum	4 MG/KG	1760	2330	1760	2250
Antimony	.5 MG/KG	0.7	0.9	1.2	2.4
Arsenic	.68 MG/KG	1.43	1.56	1.27	1.49
Barium	.05 MG/KG	123	172	200	176
Beryllium	.02 MG/KG	ND	0.06	0.03	ND
Boron	.7 MG/KG	15.4	10.7	21.0	8.3
Cadmium	.1 MG/KG	0.3	0.8	0.6	0.8
Chromium	.3 MG/KG	21.2	22.8	19.7	24.3
Cobalt	.2 MG/KG	0.9	1.1	1.0	1.4
Copper	.4 MG/KG	250	325	340	379
Iron	20 MG/KG	32800	31400	40700	47300
Lead	2 MG/KG	7	8	7	10
Manganese	.2 MG/KG	116	116	160	138
Mercury	.4 MG/KG	0.4	9.6	0.8	0.5
Molybdenum	.1 MG/KG	6.2	6.8	9.6	10.5
Nickel	.3 MG/KG	16	14	15	17
Selenium	.47 MG/KG	1.85	2.38	2.26	1.89
Silver	.07 MG/KG	3.2	3.6	1.9	2.9
Thallium, Total Recoverable	1 MG/KG	ND	ND	ND	ND
Vanadium	.2 MG/KG	10.4	12.1	9.1	16.3
Zinc	.5 MG/KG	335	415	399	459
Bromide	3 MG/KG	100	27.6	32.3	34.0
Chloride	180 MG/KG	56900	20100	37700	35900
Fluoride	1.3 MG/KG	ND	ND	5.0	15.2
Nitrate	1 MG/KG	ND	4.68	4.74	3.00
Ortho Phosphate	4 MG/KG	53	4630	49	84
Sulfate	220 MG/KG	1330	471	455	472
Cyanides, Total	.1 MG/KG	52.4	2.3	3.4	0.3
Cyanide, Releaseable	.018 MG/KG	ND	ND	ND	ND
Sulfides-Total	2170 MG/KG	9820	21500	19600	17900
Sulfides-Reactive	11 MG/KG	88	144	128	107
Total Kjeldahl Nitrogen	.04 WT%	5.04	2.56	4.38	3.18

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

RAW COMP = Point Loma Raw Sludge Composite

POINT LOMA WASTEWATER TREATMENT PLANT
 QUARTERLY SLUDGE PROJECT
 (Metals from Digestion and Ions from Supernatant)

2012 Annual

Source:		DIG COMP	DIG COMP	DIG COMP	DIG COMP
Date:		07-FEB-2012	01-MAY-2012	07-AUG-2012	02-OCT-2012
Sample ID:	MDL Units	P602794	P614030	P626927	P634360
=====	=====	=====	=====	=====	=====
Aluminum	4 MG/KG	3980	4360	3890	4000
Antimony	.5 MG/KG	1.5	1.0	2.2	3.4
Arsenic	.68 MG/KG	3.17	2.84	3.29	1.67
Barium	.05 MG/KG	235	276	253	314
Beryllium	.02 MG/KG	0.03	0.11	0.08	ND
Boron	.7 MG/KG	32.1	27.5	22.2	24.9
Cadmium	.1 MG/KG	1.0	1.4	1.2	1.4
Chromium	.3 MG/KG	41.9	46.2	41.6	39.1
Cobalt	.2 MG/KG	2.2	1.9	2.0	2.9
Copper	.4 MG/KG	506	622	635	724
Iron	20 MG/KG	66900	67100	75100	86800
Lead	2 MG/KG	14	15	13	20
Manganese	.2 MG/KG	256	279	250	270
Mercury	.4 MG/KG	0.6	2.4	0.8	0.6
Molybdenum	.1 MG/KG	13.4	13.2	18.3	19.1
Nickel	.3 MG/KG	29	31	32	32
Selenium	.47 MG/KG	3.22	3.90	5.47	1.70
Silver	.07 MG/KG	4.8	4.7	4.0	4.1
Thallium, Total Recoverable	1 MG/KG	ND	ND	1	ND
Vanadium	.2 MG/KG	28.3	23.5	20.1	34.9
Zinc	.5 MG/KG	609	839	720	793
=====	=====	=====	=====	=====	=====
Bromide	3 MG/KG	125	68.7	74.6	70.0
Chloride	180 MG/KG	75500	55200	61800	60500
Fluoride	1.3 MG/KG	34.3	49.9	23.7	26.2
Nitrate	1 MG/KG	12.00	9.87	16.00	6.50
Ortho Phosphate	4 MG/KG	168	314	154	ND
Sulfate	220 MG/KG	1290	878	936	791
=====	=====	=====	=====	=====	=====
Cyanides, Total	.1 MG/KG	8.7	8.5	7.1	0.4
Cyanide, Releaseable	.018 MG/KG	ND	ND	ND	ND
Sulfides-Total	2170 MG/KG	22000	38000	39300	23000
Sulfides-Reactive	11 MG/KG	74	131	128	115
Total Kjeldahl Nitrogen	.04 WT%	3.14	6.29	6.17	5.1

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

DIG COMP = Point Loma Digested Sludge Composite

POINT LOMA WASTEWATER TREATMENT PLANT
 QUARTERLY SLUDGE PROJECT
 (Metals from Digestion and Ions from Supernatant)

2012 Annual

Source:		MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
Date:		29-FEB-2012	31-MAY-2012	31-AUG-2012	31-OCT-2012
Sample ID:	MDL Units	P609246	P619405	P631787	P638482
=====	=====	=====	=====	=====	=====
Aluminum	4 MG/KG	4760	5020	4850	5190
Antimony	.5 MG/KG	1.2	1.6	2.9	4.1
Arsenic	.68 MG/KG	4.56	3.88	3.41	3.87
Barium	.05 MG/KG	167	251	278	304
Beryllium	.02 MG/KG	ND	0.11	0.09	0.03
Boron	.7 MG/KG	19.0	14.6	14.9	10.1
Cadmium	.1 MG/KG	1.03	1.49	1.43	1.60
Chromium	.3 MG/KG	50.3	55.0	52.3	52.7
Cobalt	.2 MG/KG	2.4	2.0	2.2	2.9
Copper	.4 MG/KG	585	704	786	830
Iron	20 MG/KG	76500	81500	93600	102000
Lead	2 MG/KG	16	15	17	21
Manganese	.2 MG/KG	289	314	316	327
Mercury	.4 MG/KG	1.8	1.4	1.3	1.4
Molybdenum	.1 MG/KG	15.1	16.7	23.6	22.9
Nickel	.3 MG/KG	35	35	38	40
Selenium	.47 MG/KG	6.01	5.43	5.64	4.23
Silver	.07 MG/KG	6.2	5.4	4.7	5.8
Thallium, Total Recoverable	1 MG/KG	ND	ND	1	ND
Vanadium	.2 MG/KG	31.5	26.0	25.2	36.4
Zinc	.5 MG/KG	833	851	873	905
=====	=====	=====	=====	=====	=====
Cyanides, Total	.1 MG/KG	1.4	2.0	1.5	1.3
Cyanide, Releaseable	.018 MG/KG	ND	ND	ND	<0.02
Sulfides-Total	2170 MG/KG	9550	18300	19000	25900
Sulfides-Reactive	11 MG/KG	ND	16	138	137
Total Kjeldahl Nitrogen	.04 WT%	4.42	5.01	4.81	4.66

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

MBCDEWCN = MBC Dewatered Sludge Composite

POINT LOMA WASTEWATER TREATMENT PLANT
 QUARTERLY SLUDGE PROJECT
 Radioactivity

Analyzed by: TestAmerica Laboratories Richland
 Method: EPA 00-02 or EPA 900.0

2012 Annual

Source	Sample Date	Sample ID	Gross Alpha Radiation pCi/L	Gross Beta Radiation pCi/L
PLE	07-FEB-2012	P602738	2.5±1.6	33.5±6.2
PLE	01-MAY-2012	P613974	4.2±4.6	29.3±9.7
PLE	07-AUG-2012	P626871	8.4±6.6	24.4±6.7
PLE	02-OCT-2012	P634304	0.6±5.2	29.2±5.6
PLR	07-FEB-2012	P602744	3.1±2.1	29.9±7.5
PLR	01-MAY-2012	P613980	2.6±6.5	30.0±9.9
PLR	07-AUG-2012	P626877	2.0±4.5	30.4±8.3
PLR	02-OCT-2012	P634310	2.8±5.2	30.7±5.6
MBC_COMBCN	07-FEB-2012	P602755	1.4±3.5	57.6±9.4
MBC_COMBCN	01-MAY-2012	P613991	3.7±6.3	59.2±21.0
MBC_COMBCN	07-AUG-2012	P626888	10.3±7.6	45.8±11.0
MBC_COMBCN	02-OCT-2012	P634321	0.0±7.0	48.2±8.1

Units in picocuries per Liter (pCi/L)

Source	Sample Date	Sample ID	Gross Alpha Radiation pCi/kg	Gross Beta Radiation pCi/kg
MBCDEWCN	29-FEB-2012	P609246	1570±4350	8800±2000
MBCDEWCN	31-MAY-2012	P619405	447±4650	8940±2000
MBCDEWCN	31-AUG-2012	P631787	2190±4600	10600±2200
MBCDEWCN	31-OCT-2012	P638482	1050±4550	9430±2050

Units in picocuries per Kilogram (pCi/Kg)

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

METROBIOSOLIDS CENTER
 SLUDGE PROJECT - ANNUAL SUMMARY
 Chlorinated Pesticide Analysis

Annual 2012

Source Date			PLE 07-FEB-2012	PLE 01-MAY-2012	PLE 07-AUG-2012	PLE 02-OCT-2012	PLR 07-FEB-2012	PLR 01-MAY-2012
Analyte	MDL	Units	P602738	P613974	P626871	P634304	P602744	P613980
Aldrin	7	NG/L	ND	ND	ND	ND	ND	ND
BHC, Alpha isomer	7	NG/L	ND	ND	ND	ND	ND	ND
BHC, Beta isomer	6	NG/L	ND	ND	ND	ND	ND	ND
BHC, Delta isomer	4	NG/L	ND	ND	ND	ND	ND	ND
BHC, Gamma isomer	5	NG/L	ND	ND	ND	ND	ND	ND
Alpha (cis) Chlordane	3	NG/L	ND	ND	ND	ND	ND	ND
Gamma (trans) Chlordane	4	NG/L	ND	ND	ND	ND	ND	ND
Alpha Chlordene		NG/L	NA	NA	NA	NA	NA	NA
Gamma Chlordene		NG/L	NA	NA	NA	NA	NA	NA
Cis Nonachlor	5	NG/L	ND	ND	ND	ND	ND	ND
Dieldrin	8	NG/L	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	6	NG/L	ND	ND	ND	ND	ND	ND
Alpha Endosulfan	4	NG/L	ND	ND	ND	ND	ND	ND
Beta Endosulfan	5	NG/L	ND	ND	ND	ND	ND	ND
Endrin	8	NG/L	ND	ND	ND	ND	ND	ND
Endrin aldehyde	9	NG/L	ND	ND	ND	ND	ND	ND
Heptachlor	8	NG/L	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	4	NG/L	ND	ND	ND	ND	ND	ND
Methoxychlor	10	NG/L	ND	ND	ND	ND	ND	ND
Mirex	10	NG/L	ND	ND	ND	ND	ND	ND
o,p-DDD	4	NG/L	ND	ND	ND	ND	ND	ND
o,p-DDE	5	NG/L	ND	ND	ND	ND	ND	ND
o,p-DDT	3	NG/L	ND	ND	ND	ND	ND	ND
Oxychlordane	6	NG/L	ND	ND	ND	ND	ND	ND
PCB 1016	4000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1221	4000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1232	360	NG/L	ND	ND	ND	ND	ND	ND
PCB 1242	4000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1248	2000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1254	2000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1260	2000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1262	930	NG/L	ND	ND	ND	ND	ND	ND
p,p-DDD	4	NG/L	ND	ND	ND	ND	ND	ND
p,p-DDE	4	NG/L	ND	ND	2.0	ND	ND	ND
p,p-DDT	8	NG/L	ND	ND	ND	ND	ND	ND
Toxaphene	330	NG/L	ND	ND	ND	ND	ND	ND
Trans Nonachlor	5	NG/L	ND	ND	ND	ND	ND	ND
Heptachlors	8	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
Endosulfans	6	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
Polychlorinated biphenyls	4000	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
Chlordane + related cmpds.	6	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
DDT and derivatives	8	NG/L	0.0	0.0	2.0	0.0	0.0	0.0
Hexachlorocyclohexanes	7	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
Aldrin + Dieldrin	8	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
Chlorinated Hydrocarbons	4000	NG/L	0.0	0.0	2.0	0.0	0.0	0.0

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

METROBIOSOLIDS CENTER
 SLUDGE PROJECT - ANNUAL SUMMARY
 Chlorinated Pesticide Analysis

Annual 2012

Source			PLR	PLR	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN
Date			07-AUG-2012	02-OCT-2012	07-FEB-2012	01-MAY-2012	07-AUG-2012	02-OCT-2012
Analyte	MDL	Units	P626877	P634310	P602755	P613991	P626888	P634321
Aldrin	7	NG/L	ND	ND	ND	ND	ND	ND
BHC, Alpha isomer	7	NG/L	ND	ND	ND	ND	ND	ND
BHC, Beta isomer	6	NG/L	ND	ND	ND	ND	ND	ND
BHC, Delta isomer	4	NG/L	ND	ND	ND	ND	ND	ND
BHC, Gamma isomer	5	NG/L	ND	ND	ND	ND	ND	ND
Alpha (cis) Chlordane	3	NG/L	ND	ND	ND	ND	ND	ND
Gamma (trans) Chlordane	4	NG/L	ND	ND	ND	ND	ND	ND
Alpha Chlordene		NG/L	NA	NA	NA	NA	NA	NA
Gamma Chlordene		NG/L	NA	NA	NA	NA	NA	NA
Cis Nonachlor	5	NG/L	ND	ND	ND	ND	ND	ND
Dieldrin	8	NG/L	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	6	NG/L	ND	ND	ND	ND	ND	ND
Alpha Endosulfan	4	NG/L	ND	ND	ND	ND	ND	ND
Beta Endosulfan	5	NG/L	ND	ND	ND	ND	ND	ND
Endrin	8	NG/L	ND	ND	ND	ND	ND	270
Endrin aldehyde	9	NG/L	ND	ND	ND	ND	ND	ND
Heptachlor	8	NG/L	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	4	NG/L	ND	ND	ND	ND	ND	ND
Methoxychlor	10	NG/L	ND	ND	ND	ND	ND	ND
Mirex	10	NG/L	ND	ND	ND	ND	ND	ND
o,p-DDD	4	NG/L	ND	ND	ND	ND	ND	ND
o,p-DDE	5	NG/L	ND	ND	ND	ND	ND	ND
o,p-DDT	3	NG/L	ND	ND	ND	ND	ND	ND
Oxychlordane	6	NG/L	ND	ND	ND	ND	ND	ND
PCB 1016	4000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1221	4000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1232	360	NG/L	ND	ND	ND	ND	ND	ND
PCB 1242	4000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1248	2000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1254	2000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1260	2000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1262	930	NG/L	ND	ND	ND	ND	ND	ND
p,p-DDD	4	NG/L	ND	ND	ND	ND	ND	ND
p,p-DDE	4	NG/L	ND	2.7	ND	ND	ND	ND
p,p-DDT	8	NG/L	ND	ND	ND	ND	ND	ND
Toxaphene	330	NG/L	ND	ND	ND	ND	ND	ND
Trans Nonachlor	5	NG/L	ND	ND	ND	ND	ND	ND
Heptachlors	8	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
Endosulfans	6	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
Polychlorinated biphenyls	4000	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
Chlordane + related cmpds.	6	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
DDT and derivatives	8	NG/L	0.0	2.7	0.0	0.0	0.0	0.0
Hexachlorocyclohexanes	7	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
Aldrin + Dieldrin	8	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
Chlorinated Hydrocarbons	4000	NG/L	0.0	2.7	0.0	0.0	0.0	270

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

METROBIOSOLIDS CENTER
 SLUDGE PROJECT - ANNUAL SUMMARY
 Chlorinated Pesticide Analysis

Annual 2012

Source			MBC_NC_DSL	MBC_NC_DSL	MBC_NC_DSL
Date			07-FEB-2012	07-AUG-2012	02-OCT-2012
Analyte	MDL	Units	P602809	P626942	P634375
===== Aldrin	7	NG/L	ND	ND	ND
BHC, Alpha isomer	7	NG/L	ND	ND	ND
BHC, Beta isomer	6	NG/L	ND	ND	ND
BHC, Delta isomer	4	NG/L	ND	ND	ND
BHC, Gamma isomer	5	NG/L	ND	ND	ND
Alpha (cis) Chlordane	3	NG/L	ND	ND	ND
Gamma (trans) Chlordane	4	NG/L	ND	ND	ND
Alpha Chlordene		NG/L	NA	NA	NA
Gamma Chlordene		NG/L	NA	NA	NA
Cis Nonachlor	5	NG/L	ND	ND	ND
Dieldrin	8	NG/L	ND	ND	ND
Endosulfan Sulfate	6	NG/L	ND	ND	ND
Alpha Endosulfan	4	NG/L	ND	ND	ND
Beta Endosulfan	5	NG/L	ND	ND	ND
Endrin	8	NG/L	ND	ND	ND
Endrin aldehyde	9	NG/L	ND	ND	ND
Heptachlor	8	NG/L	ND	ND	ND
Heptachlor epoxide	4	NG/L	ND	ND	ND
Methoxychlor	10	NG/L	ND	ND	ND
Mirex	10	NG/L	ND	ND	ND
o,p-DDD	4	NG/L	ND	150	66
o,p-DDE	5	NG/L	ND	ND	ND
o,p-DDT	3	NG/L	ND	ND	ND
Oxychlordane	6	NG/L	ND	ND	ND
PCB 1016	4000	NG/L	ND	ND	ND
PCB 1221	4000	NG/L	ND	ND	ND
PCB 1232	360	NG/L	ND	ND	ND
PCB 1242	4000	NG/L	ND	ND	ND
PCB 1248	2000	NG/L	ND	ND	ND
PCB 1254	2000	NG/L	ND	ND	ND
PCB 1260	2000	NG/L	ND	ND	ND
PCB 1262	930	NG/L	ND	ND	ND
p,p-DDD	4	NG/L	ND	ND	ND
p,p-DDE	4	NG/L	ND	210	140
p,p-DDT	8	NG/L	ND	ND	ND
Toxaphene	330	NG/L	ND	ND	ND
Trans Nonachlor	5	NG/L	ND	ND	ND
===== Heptachlors	8	NG/L	0.0	0.0	0.0
Endosulfans	6	NG/L	0.0	0.0	0.0
Polychlorinated biphenyls	4000	NG/L	0.0	0.0	0.0
Chlordane + related cmpds.	6	NG/L	0.0	0.0	0.0
DDT and derivatives	8	NG/L	0.0	360	206
Hexachlorocyclohexanes	7	NG/L	0.0	0.0	0.0
Aldrin + Dieldrin	8	NG/L	0.0	0.0	0.0
Chlorinated Hydrocarbons	4000	NG/L	0.0	360	206

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

METROBIOSOLIDS CENTER
 SLUDGE PROJECT - ANNUAL SUMMARY
 Chlorinated Pesticide Analysis

Annual 2012

Source			MBC_NC_RSL	MBC_NC_RSL	MBC_NC_RSL	MBC_NC_RSL	RAW COMP	RAW COMP
Date			07-FEB-2012	01-MAY-2012	07-AUG-2012	02-OCT-2012	07-FEB-2012	01-MAY-2012
Analyte	MDL	Units	P602807	P614043	P626940	P634373	P602780	P614016
Aldrin	7	NG/L	ND	ND	ND	ND	ND	ND
BHC, Alpha isomer	7	NG/L	ND	ND	ND	ND	ND	ND
BHC, Beta isomer	6	NG/L	ND	ND	ND	ND	ND	ND
BHC, Delta isomer	4	NG/L	ND	ND	ND	ND	ND	ND
BHC, Gamma isomer	5	NG/L	ND	ND	ND	ND	ND	ND
Alpha (cis) Chlordane	3	NG/L	ND	ND	ND	ND	ND	ND
Gamma (trans) Chlordane	4	NG/L	ND	ND	ND	ND	ND	ND
Alpha Chlordene		NG/L	NA	NA	NA	NA	NA	NA
Gamma Chlordene		NG/L	NA	NA	NA	NA	NA	NA
Cis Nonachlor	5	NG/L	ND	ND	ND	ND	ND	ND
Dieldrin	8	NG/L	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	6	NG/L	ND	ND	ND	ND	ND	ND
Alpha Endosulfan	4	NG/L	ND	ND	ND	ND	ND	ND
Beta Endosulfan	5	NG/L	ND	ND	ND	ND	ND	ND
Endrin	8	NG/L	ND	ND	ND	ND	ND	ND
Endrin aldehyde	9	NG/L	ND	ND	ND	ND	ND	ND
Heptachlor	8	NG/L	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	4	NG/L	ND	ND	ND	ND	ND	ND
Methoxychlor	10	NG/L	ND	ND	ND	ND	ND	ND
Mirex	10	NG/L	ND	ND	ND	ND	ND	ND
o,p-DDD	4	NG/L	ND	ND	ND	ND	ND	ND
o,p-DDE	5	NG/L	ND	ND	ND	ND	ND	ND
o,p-DDT	3	NG/L	ND	ND	ND	ND	ND	ND
Oxychlordane	6	NG/L	ND	ND	ND	ND	ND	ND
PCB 1016	4000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1221	4000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1232	360	NG/L	ND	ND	ND	ND	ND	ND
PCB 1242	4000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1248	2000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1254	2000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1260	2000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1262	930	NG/L	ND	ND	ND	ND	ND	ND
p,p-DDD	4	NG/L	ND	ND	ND	ND	ND	ND
p,p-DDE	4	NG/L	ND	ND	ND	ND	ND	ND
p,p-DDT	8	NG/L	ND	ND	ND	ND	ND	ND
Toxaphene	330	NG/L	ND	ND	ND	ND	ND	ND
Trans Nonachlor	5	NG/L	ND	ND	ND	ND	ND	ND
Heptachlors	8	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
Endosulfans	6	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
Polychlorinated biphenyls	4000	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
Chlordane + related cmpds.	6	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
DDT and derivatives	8	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
Hexachlorocyclohexanes	7	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
Aldrin + Dieldrin	8	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
Chlorinated Hydrocarbons	4000	NG/L	0.0	0.0	0.0	0.0	0.0	0.0

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

METROBIOSOLIDS CENTER
 SLUDGE PROJECT - ANNUAL SUMMARY
 Chlorinated Pesticide Analysis

Annual 2012

Source			RAW COMP	RAW COMP	DIG COMP	DIG COMP	DIG COMP	DIG COMP
Date			07-AUG-2012	02-OCT-2012	07-FEB-2012	01-MAY-2012	07-AUG-2012	02-OCT-2012
Analyte	MDL	Units	P626913	P634346	P602794	P614030	P626927	P634360
Aldrin	7	NG/L	ND	ND	ND	ND	ND	ND
BHC, Alpha isomer	7	NG/L	ND	ND	ND	ND	ND	ND
BHC, Beta isomer	6	NG/L	ND	ND	ND	ND	ND	ND
BHC, Delta isomer	4	NG/L	ND	ND	ND	ND	ND	ND
BHC, Gamma isomer	5	NG/L	ND	ND	ND	ND	ND	ND
Alpha (cis) Chlordane	3	NG/L	ND	ND	ND	ND	ND	ND
Gamma (trans) Chlordane	4	NG/L	ND	ND	ND	ND	ND	150
Alpha Chlordene		NG/L	NA	NA	NA	NA	NA	NA
Gamma Chlordene		NG/L	NA	NA	NA	NA	NA	NA
Cis Nonachlor	5	NG/L	ND	ND	ND	ND	ND	ND
Dieldrin	8	NG/L	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	6	NG/L	ND	ND	ND	ND	ND	ND
Alpha Endosulfan	4	NG/L	ND	ND	ND	ND	ND	ND
Beta Endosulfan	5	NG/L	ND	ND	ND	ND	ND	ND
Endrin	8	NG/L	ND	550	ND	ND	ND	ND
Endrin aldehyde	9	NG/L	ND	ND	ND	ND	ND	ND
Heptachlor	8	NG/L	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	4	NG/L	ND	ND	ND	ND	ND	ND
Methoxychlor	10	NG/L	ND	ND	ND	ND	ND	ND
Mirex	10	NG/L	ND	ND	ND	ND	ND	ND
o,p-DDD	4	NG/L	ND	88	ND	ND	103	92
o,p-DDE	5	NG/L	ND	ND	ND	ND	ND	ND
o,p-DDT	3	NG/L	ND	ND	ND	ND	ND	ND
Oxychlordane	6	NG/L	ND	ND	ND	ND	ND	ND
PCB 1016	4000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1221	4000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1232	360	NG/L	ND	ND	ND	ND	ND	ND
PCB 1242	4000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1248	2000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1254	2000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1260	2000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1262	930	NG/L	ND	ND	ND	ND	ND	ND
p,p-DDD	4	NG/L	ND	ND	ND	ND	ND	ND
p,p-DDE	4	NG/L	220	180	ND	ND	225	195
p,p-DDT	8	NG/L	ND	ND	ND	ND	ND	ND
Toxaphene	330	NG/L	ND	ND	ND	ND	ND	ND
Trans Nonachlor	5	NG/L	ND	ND	ND	ND	ND	ND
Heptachlors	8	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
Endosulfans	6	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
Polychlorinated biphenyls	4000	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
Chlordane + related cmpds.	6	NG/L	0.0	0.0	0.0	0.0	0.0	150
DDT and derivatives	8	NG/L	220	268	0.0	0.0	328	287
Hexachlorocyclohexanes	7	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
Aldrin + Dieldrin	8	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
Chlorinated Hydrocarbons	4000	NG/L	220	818	0.0	0.0	328	437

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

METROBIOSOLIDS CENTER
 SLUDGE PROJECT - ANNUAL SUMMARY
 Chlorinated Pesticide Analysis
 Annual 2012

Source Date Analyte	MDL	Units	MBCDEWCN 31-JAN-2012 P605067	MBCDEWCN 29-FEB-2012 P609246	MBCDEWCN 31-MAR-2012 P612206	MBCDEWCN 30-APR-2012 P615900	MBCDEWCN 31-MAY-2012 P619405
Aldrin	71000	NG/KG	ND	ND	ND	ND	ND
Dieldrin	35000	NG/KG	ND	ND	ND	ND	ND
BHC, Alpha isomer	28000	NG/KG	ND	ND	ND	ND	ND
BHC, Beta isomer	32000	NG/KG	ND	ND	ND	ND	ND
BHC, Gamma isomer	18000	NG/KG	ND	ND	ND	ND	ND
BHC, Delta isomer	28000	NG/KG	ND	ND	ND	ND	ND
p,p-DDD	18000	NG/KG	ND	ND	ND	ND	ND
p,p-DDE	28000	NG/KG	ND	ND	ND	ND	ND
p,p-DDT	35000	NG/KG	ND	ND	ND	ND	ND
o,p-DDD	28000	NG/KG	ND	ND	ND	ND	ND
o,p-DDE	52000	NG/KG	ND	ND	ND	ND	ND
o,p-DDT	71000	NG/KG	ND	ND	ND	ND	ND
Heptachlor	16000	NG/KG	ND	ND	ND	ND	ND
Heptachlor epoxide	28000	NG/KG	ND	ND	ND	ND	ND
Alpha (cis) Chlordane	13000	NG/KG	ND	ND	ND	ND	ND
Gamma (trans) Chlordane	48000	NG/KG	ND	ND	ND	ND	ND
Alpha Chlordene		NG/KG	NA	NA	NA	NA	NA
Gamma Chlordene		NG/KG	NA	NA	NA	NA	NA
Oxychlordane	28000	NG/KG	ND	ND	ND	ND	ND
Trans Nonachlor	18000	NG/KG	ND	ND	ND	ND	ND
Cis Nonachlor	52000	NG/KG	ND	ND	ND	ND	ND
Alpha Endosulfan	18000	NG/KG	ND	ND	ND	ND	ND
Beta Endosulfan	28000	NG/KG	ND	ND	ND	ND	ND
Endosulfan Sulfate	45000	NG/KG	ND	ND	ND	ND	ND
Endrin aldehyde	52000	NG/KG	ND	ND	ND	ND	ND
Toxaphene	183000	NG/KG	ND	ND	ND	ND	ND
Mirex	18000	NG/KG	ND	ND	ND	ND	ND
Methoxychlor	71000	NG/KG	ND	ND	ND	ND	ND
PCB 1016	260000	NG/KG	ND	ND	ND	ND	ND
PCB 1221	580000	NG/KG	ND	ND	ND	ND	ND
PCB 1232	220000	NG/KG	ND	ND	ND	ND	ND
PCB 1242	7000	NG/KG	ND	ND	ND	ND	ND
PCB 1248	310000	NG/KG	ND	ND	ND	ND	ND
PCB 1254	130000	NG/KG	ND	ND	ND	ND	ND
PCB 1260	86000	NG/KG	ND	ND	ND	ND	ND
PCB 1262	5000	NG/KG	ND	ND	ND	ND	ND
Aldrin + Dieldrin	71000	NG/KG	0	0	0	0	0
Hexachlorocyclohexanes	32000	NG/KG	0	0	0	0	0
DDT and derivatives	71000	NG/KG	0	0	0	0	0
Chlordane + related cmpds.	48000	NG/KG	0	0	0	0	0
Polychlorinated biphenyls	580000	NG/KG	0	0	0	0	0
Chlorinated Hydrocarbons	580000	NG/KG	0	0	0	0	0

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

METROBIOSOLIDS CENTER
 SLUDGE PROJECT - ANNUAL SUMMARY
 Chlorinated Pesticide Analysis
 Annual 2012

Source Date			MBCDEWCN 30-JUN-2012	MBCDEWCN 31-JUL-2012	MBCDEWCN 31-AUG-2012	MBCDEWCN 30-SEP-2012	MBCDEWCN 31-OCT-2012
Analyte	MDL	Units	P623145	P627353	P631787	P635237	P638482
Aldrin	71000	NG/KG	ND	ND	ND	ND	ND
Dieldrin	35000	NG/KG	ND	ND	ND	ND	ND
BHC, Alpha isomer	28000	NG/KG	ND	ND	ND	ND	ND
BHC, Beta isomer	32000	NG/KG	ND	ND	ND	ND	ND
BHC, Gamma isomer	18000	NG/KG	ND	ND	ND	ND	ND
BHC, Delta isomer	28000	NG/KG	ND	ND	ND	ND	ND
p,p-DDD	18000	NG/KG	ND	ND	ND	ND	ND
p,p-DDE	28000	NG/KG	ND	ND	ND	17700	14900
p,p-DDT	35000	NG/KG	ND	ND	ND	ND	ND
o,p-DDD	28000	NG/KG	ND	ND	ND	9850	9150
o,p-DDE	52000	NG/KG	ND	ND	ND	ND	ND
o,p-DDT	71000	NG/KG	ND	ND	ND	ND	ND
Heptachlor	16000	NG/KG	ND	ND	ND	ND	ND
Heptachlor epoxide	28000	NG/KG	ND	ND	ND	ND	ND
Alpha (cis) Chlordane	13000	NG/KG	ND	ND	ND	ND	ND
Gamma (trans) Chlordane	48000	NG/KG	ND	ND	ND	7170	ND
Alpha Chlordene		NG/KG	NA	NA	NA	NA	NA
Gamma Chlordene		NG/KG	NA	NA	NA	NA	NA
Oxychlordane	28000	NG/KG	ND	ND	ND	ND	ND
Trans Nonachlor	18000	NG/KG	ND	ND	ND	ND	ND
Cis Nonachlor	52000	NG/KG	ND	ND	ND	ND	ND
Alpha Endosulfan	18000	NG/KG	ND	ND	ND	ND	ND
Beta Endosulfan	28000	NG/KG	ND	ND	ND	ND	ND
Endosulfan Sulfate	45000	NG/KG	ND	ND	ND	ND	ND
Endrin aldehyde	52000	NG/KG	ND	ND	ND	ND	ND
Toxaphene	183000	NG/KG	ND	ND	ND	ND	ND
Mirex	18000	NG/KG	ND	ND	ND	ND	ND
Methoxychlor	71000	NG/KG	ND	ND	ND	ND	ND
PCB 1016	260000	NG/KG	ND	ND	ND	ND	ND
PCB 1221	580000	NG/KG	ND	ND	ND	ND	ND
PCB 1232	220000	NG/KG	ND	ND	ND	ND	ND
PCB 1242	7000	NG/KG	ND	ND	ND	ND	ND
PCB 1248	310000	NG/KG	ND	ND	ND	ND	ND
PCB 1254	130000	NG/KG	ND	ND	ND	ND	ND
PCB 1260	86000	NG/KG	ND	ND	ND	ND	ND
PCB 1262	5000	NG/KG	ND	ND	ND	ND	ND
Aldrin + Dieldrin	71000	NG/KG	0	0	0	0	0
Hexachlorocyclohexanes	32000	NG/KG	0	0	0	0	0
DDT and derivatives	71000	NG/KG	0	0	0	27550	24050
Chlordane + related cmpds.	48000	NG/KG	0	0	0	7170	0
Polychlorinated biphenyls	580000	NG/KG	0	0	0	0	0
Chlorinated Hydrocarbons	580000	NG/KG	0	0	0	34720	24050

nd= not detected
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METROBIOSOLIDS CENTER
 SLUDGE PROJECT - ANNUAL SUMMARY
 Chlorinated Pesticide Analysis
 Annual 2012

Source Date Analyte	MDL	Units	MBCDEWCN 30-NOV-2012 P642007	MBCDEWCN 31-DEC-2012 P644970	Annual Average
Aldrin	71000	NG/KG	80200	ND	6683
Dieldrin	35000	NG/KG	ND	ND	ND
BHC, Alpha isomer	28000	NG/KG	ND	ND	ND
BHC, Beta isomer	32000	NG/KG	ND	ND	ND
BHC, Gamma isomer	18000	NG/KG	ND	ND	ND
BHC, Delta isomer	28000	NG/KG	ND	ND	ND
p,p-DDD	18000	NG/KG	ND	ND	ND
p,p-DDE	28000	NG/KG	18400	12800	5317
p,p-DDT	35000	NG/KG	ND	ND	ND
o,p-DDD	28000	NG/KG	18000	27100	5342
o,p-DDE	52000	NG/KG	ND	ND	ND
o,p-DDT	71000	NG/KG	ND	ND	ND
Heptachlor	16000	NG/KG	ND	ND	ND
Heptachlor epoxide	28000	NG/KG	ND	ND	ND
Alpha (cis) Chlordane	13000	NG/KG	ND	ND	ND
Gamma (trans) Chlordane	48000	NG/KG	ND	ND	598
Alpha Chlordene		NG/KG	NA	NA	NA
Gamma Chlordene		NG/KG	NA	NA	NA
Oxychlordane	28000	NG/KG	ND	ND	ND
Trans Nonachlor	18000	NG/KG	ND	ND	ND
Cis Nonachlor	52000	NG/KG	ND	ND	ND
Alpha Endosulfan	18000	NG/KG	ND	ND	ND
Beta Endosulfan	28000	NG/KG	ND	ND	ND
Endosulfan Sulfate	45000	NG/KG	ND	ND	ND
Endrin aldehyde	52000	NG/KG	ND	ND	ND
Toxaphene	183000	NG/KG	ND	ND	ND
Mirex	18000	NG/KG	ND	ND	ND
Methoxychlor	71000	NG/KG	ND	ND	ND
PCB 1016	260000	NG/KG	ND	ND	ND
PCB 1221	580000	NG/KG	ND	ND	ND
PCB 1232	220000	NG/KG	ND	ND	ND
PCB 1242	7000	NG/KG	ND	ND	ND
PCB 1248	310000	NG/KG	ND	ND	ND
PCB 1254	130000	NG/KG	ND	ND	ND
PCB 1260	86000	NG/KG	ND	ND	ND
PCB 1262	5000	NG/KG	ND	ND	ND
Aldrin + Dieldrin	71000	NG/KG	80200	0	6683
Hexachlorocyclohexanes	32000	NG/KG	0	0	0
DDT and derivatives	71000	NG/KG	36400	39900	10658
Chlordane + related cmpds.	48000	NG/KG	0	0	598
Polychlorinated biphenyls	580000	NG/KG	0	0	0
Chlorinated Hydrocarbons	580000	NG/KG	116600	39900	17939

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

POINT LOMA WASTEWATER TREATMENT PLANT
 SLUDGE PROJECT- ANNUAL SUMMARY
 Organophosphorus Pesticides

Annual 2012

Analyte	MDL Units	PLE	PLE	PLE	PLE	PLE	PLE
		12-JAN-2012 P601998	07-FEB-2012 P602738	11-FEB-2012 P606232	14-MAR-2012 P609933	15-APR-2012 P613749	01-MAY-2012 P613974
Demeton O	.15 UG/L	ND	ND	ND	ND	ND	ND
Demeton S	.08 UG/L	ND	ND	ND	ND	ND	ND
Diazinon	.03 UG/L	ND	ND	ND	ND	ND	ND
Guthion	.15 UG/L	ND	ND	ND	ND	ND	ND
Malathion	.03 UG/L	0.05	ND	ND	ND	ND	0.15
Parathion	.03 UG/L	ND	ND	ND	ND	ND	ND
Chlorpyrifos	.03 UG/L	ND	ND	ND	ND	ND	ND
Coumaphos	.15 UG/L	ND	ND	NA	ND	ND	ND
Dichlorvos	.05 UG/L	ND	ND	NA	ND	ND	ND
Dimethoate	.04 UG/L	ND	ND	NA	ND	ND	ND
Disulfoton	.02 UG/L	ND	ND	NA	ND	ND	ND
Stirophos	.03 UG/L	ND	ND	NA	ND	ND	ND
Thiophosphorus Pesticides	.15 UG/L	0.05	0.00	0.00	0.00	0.00	0.15
Demeton -O, -S	.15 UG/L	0.00	0.00	0.00	0.00	0.00	0.00
Total Organophosphorus Pesticides	.15 UG/L	0.05	0.00	0.00	0.00	0.00	0.15

Analyte	MDL Units	PLE	PLE	PLE	PLE	PLE	PLE
		09-JUN-2012 P620240	11-JUL-2012 P623671	12-AUG-2012 P629010	05-SEP-2012 P631933	02-OCT-2012 P634304	16-NOV-2012 P640594
Demeton O	.15 UG/L	ND	ND	ND	ND	ND	ND
Demeton S	.08 UG/L	ND	ND	ND	ND	ND	ND
Diazinon	.03 UG/L	ND	ND	ND	ND	ND	0.1
Guthion	.15 UG/L	ND	ND	ND	ND	ND	ND
Malathion	.03 UG/L	ND	ND	0.07	0.04	ND	ND
Parathion	.03 UG/L	ND	ND	ND	ND	ND	ND
Chlorpyrifos	.03 UG/L	ND	ND	ND	ND	ND	ND
Coumaphos	.15 UG/L	ND	ND	ND	ND	ND	ND
Dichlorvos	.05 UG/L	ND	ND	ND	ND	ND	ND
Dimethoate	.04 UG/L	ND	ND	ND	ND	ND	ND
Disulfoton	.02 UG/L	ND	ND	ND	ND	ND	ND
Stirophos	.03 UG/L	ND	ND	ND	ND	ND	ND
Thiophosphorus Pesticides	.15 UG/L	0.00	0.00	0.07	0.04	0.00	0.00
Demeton -O, -S	.15 UG/L	0.00	0.00	0.00	0.00	0.00	0.00
Total Organophosphorus Pesticides	.15 UG/L	0.00	0.00	0.07	0.04	0.00	0.10

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

POINT LOMA WASTEWATER TREATMENT PLANT
 SLUDGE PROJECT- ANNUAL SUMMARY
 Organophosphorus Pesticides

Annual 2012

Analyte	MDL Units	PLE
		10-DEC-2012 P642562
Demeton O	.15 UG/L	ND
Demeton S	.08 UG/L	ND
Diazinon	.03 UG/L	ND
Guthion	.15 UG/L	ND
Malathion	.03 UG/L	ND
Parathion	.03 UG/L	ND
Chlorpyrifos	.03 UG/L	ND
Coumaphos	.15 UG/L	ND
Dichlorvos	.05 UG/L	ND
Dimethoate	.04 UG/L	ND
Disulfoton	.02 UG/L	ND
Stirophos	.03 UG/L	ND
Thiophosphorus Pesticides	.15 UG/L	0.00
Demeton -O, -S	.15 UG/L	0.00
Total Organophosphorus Pesticides	.15 UG/L	0.00

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

POINT LOMA WASTEWATER TREATMENT PLANT
 SLUDGE PROJECT- ANNUAL SUMMARY
 Organophosphorus Pesticides

Annual 2012

Analyte	MDL Units	PLR	PLR	PLR	PLR	PLR	PLR
		12-JAN-2012 P602001	07-FEB-2012 P602744	14-MAR-2012 P609936	15-APR-2012 P613752	01-MAY-2012 P613980	09-JUN-2012 P620243
Demeton O	.15 UG/L	ND	ND	ND	ND	ND	ND
Demeton S	.08 UG/L	ND	ND	ND	ND	ND	ND
Diazinon	.03 UG/L	ND	ND	ND	ND	ND	ND
Guthion	.15 UG/L	ND	ND	ND	ND	ND	ND
Malathion	.03 UG/L	ND	ND	ND	ND	ND	ND
Parathion	.03 UG/L	ND	ND	ND	ND	ND	ND
Chlorpyrifos	.03 UG/L	ND	ND	ND	ND	ND	ND
Coumaphos	.15 UG/L	ND	ND	ND	ND	ND	ND
Dichlorvos	.05 UG/L	ND	ND	ND	ND	ND	ND
Dimethoate	.04 UG/L	ND	ND	ND	ND	ND	ND
Disulfoton	.02 UG/L	ND	ND	ND	ND	ND	ND
Stirophos	.03 UG/L	ND	ND	ND	ND	ND	ND
Thiophosphorus Pesticides	.15 UG/L	0.00	0.00	0.00	0.00	0.00	0.00
Demeton -O, -S	.15 UG/L	0.00	0.00	0.00	0.00	0.00	0.00
Total Organophosphorus Pesticides	.15 UG/L	0.00	0.00	0.00	0.00	0.00	0.00

Analyte	MDL Units	PLR	PLR	PLR	PLR	PLR	PLR
		11-JUL-2012 P623674	12-AUG-2012 P629013	05-SEP-2012 P631936	02-OCT-2012 P634310	16-NOV-2012 P640597	10-DEC-2012 P642565
Demeton O	.15 UG/L	ND	ND	ND	ND	ND	ND
Demeton S	.08 UG/L	ND	ND	ND	ND	ND	ND
Diazinon	.03 UG/L	ND	ND	ND	ND	0.1	ND
Guthion	.15 UG/L	ND	ND	ND	ND	ND	ND
Malathion	.03 UG/L	ND	0.10	0.06	ND	ND	ND
Parathion	.03 UG/L	ND	ND	ND	ND	ND	ND
Chlorpyrifos	.03 UG/L	ND	ND	ND	ND	ND	ND
Coumaphos	.15 UG/L	ND	ND	ND	ND	ND	ND
Dichlorvos	.05 UG/L	ND	ND	ND	ND	ND	ND
Dimethoate	.04 UG/L	ND	ND	ND	ND	ND	ND
Disulfoton	.02 UG/L	ND	ND	ND	ND	ND	ND
Stirophos	.03 UG/L	ND	ND	ND	ND	ND	ND
Thiophosphorus Pesticides	.15 UG/L	0.00	0.10	0.06	0.00	0.00	0.00
Demeton -O, -S	.15 UG/L	0.00	0.00	0.00	0.00	0.00	0.00
Total Organophosphorus Pesticides	.15 UG/L	0.00	0.10	0.06	0.00	0.10	0.00

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

POINT LOMA WASTEWATER TREATMENT PLANT
 SLUDGE PROJECT- ANNUAL SUMMARY
 Organophosphorus Pesticides

Annual 2012

Analyte	MDL Units	MBC_COMBCN	MBC_COMBCN
		01-MAY-2012 P613991	02-OCT-2012 P634321
Demeton O	.15 UG/L	ND	ND
Demeton S	.08 UG/L	ND	ND
Diazinon	.03 UG/L	ND	ND
Guthion	.15 UG/L	ND	ND
Malathion	.03 UG/L	ND	ND
Parathion	.03 UG/L	ND	ND
Chlorpyrifos	.03 UG/L	ND	ND
Coumaphos	.15 UG/L	ND	ND
Dichlorvos	.05 UG/L	ND	ND
Dimethoate	.04 UG/L	ND	ND
Disulfoton	.02 UG/L	ND	ND
Stirophos	.03 UG/L	ND	ND
Thiophosphorus Pesticides	.15 UG/L	0.00	0.00
Demeton -O, -S	.15 UG/L	0.00	0.00
Total Organophosphorus Pesticides	.15 UG/L	0.00	0.00

Analyte	MDL Units	MBC_NC_DSL	MBC_NC_DSL
		01-MAY-2012 P614045	02-OCT-2012 P634375
Demeton O	.15 UG/L	ND	ND
Demeton S	.08 UG/L	ND	ND
Diazinon	.03 UG/L	ND	ND
Guthion	.15 UG/L	ND	ND
Malathion	.03 UG/L	ND	ND
Parathion	.03 UG/L	ND	ND
Chlorpyrifos	.03 UG/L	ND	ND
Coumaphos	.15 UG/L	ND	ND
Dichlorvos	.05 UG/L	ND	ND
Dimethoate	.04 UG/L	ND	ND
Disulfoton	.02 UG/L	ND	ND
Stirophos	.03 UG/L	ND	ND
Thiophosphorus Pesticides	.15 UG/L	0.00	0.00
Demeton -O, -S	.15 UG/L	0.00	0.00
Total Organophosphorus Pesticides	.15 UG/L	0.00	0.00

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

POINT LOMA WASTEWATER TREATMENT PLANT
 SLUDGE PROJECT- ANNUAL SUMMARY
 Organophosphorus Pesticides

Annual 2012

Analyte	MDL Units	MBC_NC_RSL	MBC_NC_RSL
		01-MAY-2012 P614043	02-OCT-2012 P634373
Demeton O	.15 UG/L	ND	ND
Demeton S	.08 UG/L	ND	ND
Diazinon	.03 UG/L	ND	ND
Guthion	.15 UG/L	ND	ND
Malathion	.03 UG/L	ND	ND
Parathion	.03 UG/L	ND	ND
Chlorpyrifos	.03 UG/L	ND	ND
Coumaphos	.15 UG/L	ND	ND
Dichlorvos	.05 UG/L	ND	ND
Dimethoate	.04 UG/L	ND	ND
Disulfoton	.02 UG/L	ND	ND
Stirophos	.03 UG/L	ND	ND
Thiophosphorus Pesticides	.15 UG/L	0.00	0.00
Demeton -O, -S	.15 UG/L	0.00	0.00
Total Organophosphorus Pesticides	.15 UG/L	0.00	0.00

Analyte	MDL Units	RAW COMP	RAW COMP
		01-MAY-2012 P614016	02-OCT-2012 P634346
Demeton O	.15 UG/L	ND	ND
Demeton S	.08 UG/L	ND	ND
Diazinon	.03 UG/L	ND	ND
Guthion	.15 UG/L	ND	ND
Malathion	.03 UG/L	ND	ND
Parathion	.03 UG/L	ND	ND
Chlorpyrifos	.03 UG/L	ND	ND
Coumaphos	.15 UG/L	ND	ND
Dichlorvos	.05 UG/L	ND	ND
Dimethoate	.04 UG/L	ND	ND
Disulfoton	.02 UG/L	ND	ND
Stirophos	.03 UG/L	ND	ND
Thiophosphorus Pesticides	.15 UG/L	0.00	0.00
Demeton -O, -S	.15 UG/L	0.00	0.00
Total Organophosphorus Pesticides	.15 UG/L	0.00	0.00

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

POINT LOMA WASTEWATER TREATMENT PLANT
 SLUDGE PROJECT- ANNUAL SUMMARY
 Organophosphorus Pesticides

Annual 2012

Analyte	MDL Units	DIG COMP	DIG COMP
		01-MAY-2012 P614030	02-OCT-2012 P634360
Demeton O	.15 UG/L	ND	ND
Demeton S	.08 UG/L	ND	ND
Diazinon	.03 UG/L	ND	ND
Guthion	.15 UG/L	ND	ND
Malathion	.03 UG/L	ND	ND
Parathion	.03 UG/L	ND	ND
Chlorpyrifos	.03 UG/L	ND	ND
Coumaphos	.15 UG/L	ND	ND
Dichlorvos	.05 UG/L	ND	ND
Dimethoate	.04 UG/L	ND	ND
Disulfoton	.02 UG/L	ND	ND
Stirophos	.03 UG/L	ND	ND
Thiophosphorus Pesticides	.15 UG/L	0.00	0.00
Demeton -O, -S	.15 UG/L	0.00	0.00
Total Organophosphorus Pesticides	.15 UG/L	0.00	0.00

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

METROBIOSOLIDS CENTER
 ORGANOPHOSPHORUS PESTICIDES

Annual 2012

Source			MBCDEWCN	MBCDEWCN
Date			31-MAY-2012	31-OCT-2012
Analyte	MDL	Units	P619405	P638482
=====				
Demeton O	67	UG/KG	ND	ND
Demeton S	27	UG/KG	ND	ND
Diazinon		UG/KG	ND	ND
Guthion	33	UG/KG	ND	ND
Malathion	20	UG/KG	ND	ND
Parathion	20	UG/KG	ND	ND
Chlorpyrifos		UG/KG	ND	58.1
Coumaphos	33	UG/KG	ND	ND
Dichlorvos	17	UG/KG	ND	ND
Dimethoate	27	UG/KG	ND	ND
Disulfoton	20	UG/KG	ND	ND
Stirophos	20	UG/KG	ND	ND
=====				
Thiophosphorus Pesticides	33	UG/KG	0.0	0.0
Demeton -O, -S	67	UG/KG	0.0	0.0
=====				
Total Organophosphorus Pesticides	67	UG/KG	0.0	58.1
=====				

ND=not detected

POINT LOMA WASTEWATER TREATMENT PLANT / METROBIOSOLIDS CENTER
 SLUDGE PROJECT
 Tributyl Tin (Sewage)

Annual 2012

Source	PLE	PLE	PLE	PLE	PLR	PLR	PLR
Date	07-FEB-2012	01-MAY-2012	07-AUG-2012	02-OCT-2012	07-FEB-2012	01-MAY-2012	07-AUG-2012
Analyte	P602738	P613974	P626871	P634304	P602744	P613980	P626877
Monobutyltin	ND	ND	ND	ND	ND	ND	ND
Tributyltin	ND	ND	ND	ND	ND	ND	ND

Source	PLR	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN	MBCDEWCN	MBCDEWCN
Date	02-OCT-2012	07-FEB-2012	01-MAY-2012	07-AUG-2012	02-OCT-2012	31-MAY-2012	31-OCT-2012
Analyte	P634310	P602755	P613991	P626888	P634321	P619405	P638482
Monobutyltin	ND	ND	ND	ND	ND	ND	ND
Tributyltin	ND	ND	ND	ND	ND	ND	ND

ND= not detected

POINT LOMA WASTEWATER TREATMENT PLANT
Herbicide Analysis

Annual 2012

Source:			MBCDEWCN	MBCDEWCN	MBCDEWCN
Date:			29-FEB-2012	31-MAY-2012	31-OCT-2012
Sample:	MDL	Units	P609246	P619405	P638482
=====					
2,4-Dichlorophenoxyacetic acid	2.66	MG/KG	ND	ND	ND
2,4,5-TP (Silvex)	2.87	MG/KG	ND	ND	ND

Note: No data is reported for August 2012

ND=not detected

POINT LOMA WASTEWATER TREATMENT PLANT
 PRIORITY POLLUTANT ANALYSIS-ACID EXTRACTABLE COMPOUNDS, EPA Method 625

Annual 2012

Source:		PLE	PLE	PLE	PLE	PLR	PLR
Date:		07-FEB-2012	01-MAY-2012	07-AUG-2012	02-OCT-2012	07-FEB-2012	01-MAY-2012
Analyte:	MDL Units	P602738	P613974	P626871	P634304	P602744	P613980
2-Chlorophenol	1.32 UG/L	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	1.67 UG/L	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	1.01 UG/L	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	2.01 UG/L	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	2.16 UG/L	ND	ND	ND	ND	ND	ND
2-Methyl-4,6-dinitrophenol	1.52 UG/L	ND	ND	ND	ND	ND	ND
2-Nitrophenol	1.55 UG/L	ND	ND	ND	ND	ND	ND
4-Nitrophenol	1.14 UG/L	ND	ND	ND	ND	ND	ND
Pentachlorophenol	1.12 UG/L	ND	ND	ND	ND	ND	ND
Phenol	1.76 UG/L	21.3	18.5	17.7	16.9	27.8	20.7
2,4,6-Trichlorophenol	1.65 UG/L	ND	ND	ND	ND	ND	ND
=====							
Total Chlorinated Phenols	1.67 UG/L	0.0	0.0	0.0	0.0	0.0	0.0
=====							
Total Non-Chlorinated Phenols	2.16 UG/L	21.3	18.5	17.7	16.9	27.8	20.7
=====							
Phenols	2.16 UG/L	21.3	18.5	17.7	16.9	27.8	20.7

Additional Analytes Determined;

2-Methylphenol	2.15 UG/L	ND	ND	ND	ND	ND	ND
3-Methylphenol(4-MP is unresolved)	UG/L	NA	NA	NA	NA	NA	NA
4-Methylphenol(3-MP is unresolved)	2.11 UG/L	58.4	36.8	38.1	37.3	65.4	46.2
2,4,5-Trichlorophenol	1.66 UG/L	ND	ND	ND	ND	ND	ND

Source:		PLR	PLR	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN
Date:		07-AUG-2012	02-OCT-2012	07-FEB-2012	01-MAY-2012	07-AUG-2012	02-OCT-2012
Analyte:	MDL Units	P626877	P634310	P602755	P613991	P626888	P634321
2-Chlorophenol	1.32 UG/L	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	1.67 UG/L	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	1.01 UG/L	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	2.01 UG/L	ND	ND	14.3	ND	ND	ND
2,4-Dinitrophenol	2.16 UG/L	ND	ND	ND	ND	ND	ND
2-Methyl-4,6-dinitrophenol	1.52 UG/L	ND	ND	ND	ND	ND	ND
2-Nitrophenol	1.55 UG/L	ND	ND	ND	ND	ND	ND
4-Nitrophenol	1.14 UG/L	ND	ND	ND	ND	ND	ND
Pentachlorophenol	1.12 UG/L	ND	ND	ND	ND	ND	ND
Phenol	1.76 UG/L	21.7	24.4	9.3	4.5	6.5	7.2
2,4,6-Trichlorophenol	1.65 UG/L	ND	ND	ND	ND	ND	ND
=====							
Total Chlorinated Phenols	1.67 UG/L	0.0	0.0	0.0	0.0	0.0	0.0
=====							
Total Non-Chlorinated Phenols	2.16 UG/L	21.7	24.4	23.6	4.5	6.5	7.2
=====							
Phenols	2.16 UG/L	21.7	24.4	23.6	4.5	6.5	7.2

Additional Analytes Determined;

2-Methylphenol	2.15 UG/L	ND	ND	ND	ND	ND	ND
3-Methylphenol(4-MP is unresolved)	UG/L	NA	NA	NA	NA	NA	NA
4-Methylphenol(3-MP is unresolved)	2.11 UG/L	47.5	50.6	8.5	ND	2.6	ND
2,4,5-Trichlorophenol	1.66 UG/L	ND	ND	ND	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT
 PRIORITY POLLUTANT ANALYSIS-ACID EXTRACTABLE COMPOUNDS, EPA Method 625

Annual 2012

Source:		RAW COMP	RAW COMP	RAW COMP	RAW COMP	DIG COMP	DIG COMP
Date:		07-FEB-2012	01-MAY-2012	07-AUG-2012	02-OCT-2012	07-FEB-2012	01-MAY-2012
Analyte:	MDL Unit	P602780	P614016	P626913	P634346	P602794	P614030
2-Chlorophenol	1.32 UG/L	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	1.67 UG/L	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	1.01 UG/L	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	2.01 UG/L	ND	ND	ND	ND	ND	23.0
2,4-Dinitrophenol	2.16 UG/L	ND	ND	ND	ND	ND	ND
2-Methyl-4,6-dinitrophenol	1.52 UG/L	ND	ND	ND	ND	ND	ND
2-Nitrophenol	1.55 UG/L	ND	ND	ND	ND	ND	ND
4-Nitrophenol	1.14 UG/L	ND	ND	ND	ND	ND	ND
Pentachlorophenol	1.12 UG/L	ND	ND	ND	ND	ND	ND
Phenol	1.76 UG/L	57.9	49.4	51.3	33.9	ND	ND
2,4,6-Trichlorophenol	1.65 UG/L	ND	ND	ND	ND	ND	ND
Total Chlorinated Phenols	1.67 UG/L	0.0	0.0	0.0	0.0	0.0	0.0
Total Non-Chlorinated Phenols	2.16 UG/L	57.9	49.4	51.3	33.9	0.0	23.0
Phenols	2.16 UG/L	57.9	49.4	51.3	33.9	0.0	23.0

Additional Analytes Determined;

2-Methylphenol	2.15 UG/L	ND	ND	ND	ND	ND	ND
3-Methylphenol(4-MP is unresolved)	UG/L	NA	NA	NA	NA	NA	NA
4-Methylphenol(3-MP is unresolved)	2.11 UG/L	257	396	287	251	4.4	2.6
2,4,5-Trichlorophenol	1.66 UG/L	ND	ND	ND	ND	ND	ND

Source:		DIG COMP	DIG COMP	MBC_NC_DSL	MBC_NC_DSL	MBC_NC_DSL	MBC_NC_DSL
Date:		07-AUG-2012	02-OCT-2012	07-FEB-2012	01-MAY-2012	07-AUG-2012	02-OCT-2012
Analyte:	MDL Units	P626927	P634360	P602809	P614045	P626942	P634375
2-Chlorophenol	1.32 UG/L	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	1.67 UG/L	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	1.01 UG/L	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	2.01 UG/L	ND	ND	45.7	30.2	ND	26.4
2,4-Dinitrophenol	2.16 UG/L	ND	ND	ND	ND	ND	ND
2-Methyl-4,6-dinitrophenol	1.52 UG/L	ND	ND	ND	ND	ND	ND
2-Nitrophenol	1.55 UG/L	ND	ND	ND	ND	ND	ND
4-Nitrophenol	1.14 UG/L	ND	ND	ND	ND	ND	ND
Pentachlorophenol	1.12 UG/L	ND	ND	ND	ND	ND	ND
Phenol	1.76 UG/L	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	1.65 UG/L	ND	ND	ND	ND	ND	ND
Total Chlorinated Phenols	1.67 UG/L	0.0	0.0	0.0	0.0	0.0	0.0
Total Non-Chlorinated Phenols	2.16 UG/L	0.0	0.0	45.7	30.2	0.0	26.4
Phenols	2.16 UG/L	0.0	0.0	45.7	30.2	0.0	26.4

Additional Analytes Determined;

2-Methylphenol	2.15 UG/L	ND	ND	ND	ND	ND	ND
3-Methylphenol(4-MP is unresolved)	UG/L	NA	NA	NA	NA	NA	NA
4-Methylphenol(3-MP is unresolved)	2.11 UG/L	ND	ND	10.8	3.8	ND	ND
2,4,5-Trichlorophenol	1.66 UG/L	ND	ND	ND	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT
 PRIORITY POLLUTANT ANALYSIS-ACID EXTRACTABLE COMPOUNDS, EPA Method 625

Annual 2012

Source:		MBC_NC_RSL	MBC_NC_RSL	MBC_NC_RSL	MBC_NC_RSL
Date:		07-FEB-2012	01-MAY-2012	07-AUG-2012	02-OCT-2012
Analyte:	MDL Units	P602807	P614043	P626940	P634373
2-Chlorophenol	1.32 UG/L	ND	ND	ND	ND
4-Chloro-3-methylphenol	1.67 UG/L	ND	ND	ND	ND
2,4-Dichlorophenol	1.01 UG/L	ND	ND	ND	ND
2,4-Dimethylphenol	2.01 UG/L	ND	3.0	ND	ND
2,4-Dinitrophenol	2.16 UG/L	ND	ND	ND	ND
2-Methyl-4,6-dinitrophenol	1.52 UG/L	ND	ND	ND	ND
2-Nitrophenol	1.55 UG/L	ND	ND	ND	ND
4-Nitrophenol	1.14 UG/L	ND	ND	ND	ND
Pentachlorophenol	1.12 UG/L	ND	ND	ND	ND
Phenol	1.76 UG/L	3.8	ND	7.0	ND
2,4,6-Trichlorophenol	1.65 UG/L	ND	ND	ND	ND
=====					
Total Chlorinated Phenols	1.67 UG/L	0.0	0.0	0.0	0.0
=====					
Total Non-Chlorinated Phenols	2.16 UG/L	3.8	3.0	7.0	0.0
=====					
Phenols	2.16 UG/L	3.8	3.0	7.0	0.0

Additional Analytes Determined;

2-Methylphenol	2.15 UG/L	ND	ND	ND	ND
3-Methylphenol(4-MP is unresolved)	UG/L	NA	NA	NA	NA
4-Methylphenol(3-MP is unresolved)	2.11 UG/L	55.7	7.3	135.0	65.7
2,4,5-Trichlorophenol	1.66 UG/L	ND	ND	ND	ND

Source:		MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
Date:		29-FEB-2012	31-MAY-2012	31-AUG-2012	31-OCT-2012
Analyte:	MDL Units	P609246	P619405	P631787	P638482
2-Chlorophenol	330 UG/KG	ND	ND	ND	ND
4-Chloro-3-methylphenol	330 UG/KG	ND	ND	ND	ND
2,4-Dichlorophenol	330 UG/KG	ND	ND	ND	<330.0
2,4-Dimethylphenol	330 UG/KG	ND	ND	ND	ND
2,4-Dinitrophenol	330 UG/KG	ND	ND	ND	ND
2-Methyl-4,6-dinitrophenol	800 UG/KG	ND	ND	ND	ND
2-Nitrophenol	330 UG/KG	ND	ND	ND	ND
4-Nitrophenol	800 UG/KG	ND	ND	ND	ND
Pentachlorophenol	800 UG/KG	ND	ND	ND	ND
Phenol	330 UG/KG	3150	5700	4560	3620
2,4,6-Trichlorophenol	330 UG/KG	ND	ND	ND	ND
Total Chlorinated Phenols	800 UG/KG	0.0	0.0	0.0	0.0
=====					
Total Non-Chlorinated Phenols	800 UG/KG	3150	5700	4560	3620
=====					
Phenols	800 UG/KG	3150	5700	4560	3620

Additional Analytes Determined;

2-Methylphenol	330 UG/KG	1500	ND	ND	987
4-Methylphenol(3-MP is unresolved)	330 UG/KG	695	1560	1790	1140
2,4,5-Trichlorophenol	800 UG/KG	ND	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT
Priority Pollutants Purgeable Compounds, EPA Method 624

Annual 2012

Source:		PLR	PLR	PLR	PLR	PLE	PLE
Date:		07-FEB-2012	01-MAY-2012	07-AUG-2012	02-OCT-2012	07-FEB-2012	01-MAY-2012
Analyte	MDL Units	P602747	P613983	P626880	P634313	P602741	P613977
Acrolein	1.3 UG/L	ND	ND	ND	ND	ND	ND
Acrylonitrile	.7 UG/L	ND	ND	ND	ND	ND	ND
Benzene	.4 UG/L	ND	ND	ND	ND	ND	ND
Bromodichloromethane	.5 UG/L	ND	ND	ND	ND	ND	<0.5
Bromoform	.5 UG/L	ND	ND	ND	ND	ND	ND
Bromomethane	.7 UG/L	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	.4 UG/L	ND	ND	ND	ND	ND	ND
Chlorobenzene	.4 UG/L	ND	ND	ND	ND	ND	ND
Chloroethane	.9 UG/L	ND	ND	ND	ND	ND	ND
Chloroform	.2 UG/L	2.1	3.9	2.6	2.1	3.8	6.1
Chloromethane	.5 UG/L	ND	ND	ND	ND	2.0	3.5
Dibromochloromethane	.6 UG/L	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	.4 UG/L	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	.5 UG/L	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	.4 UG/L	0.7	0.5	0.5	ND	0.5	0.6
1,1-Dichloroethane	.4 UG/L	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	.5 UG/L	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	.4 UG/L	ND	ND	ND	ND	ND	ND
trans-1,2-dichloroethene	.6 UG/L	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	.3 UG/L	ND	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	.3 UG/L	ND	ND	ND	ND	ND	ND
trans-1,3-dichloropropene	.5 UG/L	ND	ND	ND	ND	ND	ND
Ethylbenzene	.3 UG/L	1.0	ND	0.3	0.4	ND	0.4
Methylene chloride	.3 UG/L	1.0	1.2	1.3	1.1	1.1	1.3
1,1,2,2-Tetrachloroethane	.5 UG/L	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1.1 UG/L	ND	ND	ND	ND	ND	ND
Toluene	.4 UG/L	0.7	0.9	0.8	2.0	0.8	1.2
1,1,1-Trichloroethane	.4 UG/L	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	.5 UG/L	ND	ND	ND	ND	ND	ND
Trichloroethene	.7 UG/L	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	.3 UG/L	ND	ND	ND	ND	ND	ND
Vinyl chloride	.4 UG/L	ND	ND	ND	ND	ND	ND
Halomethane Purgeable Cmpnds	.7 UG/L	0.0	0.0	0.0	0.0	2.0	3.5
Total Dichlorobenzenes	.5 UG/L	0.0	0.0	0.0	0.0	0.0	0.0
Purgeable Compounds	1.3 UG/L	5.5	6.5	5.5	5.6	8.2	13.1

Additional Analytes Determined;

Acetone	4.5 UG/L	2330	1030	607	875	1300	1430
Allyl chloride	.6 UG/L	ND	ND	ND	ND	ND	ND
Benzyl chloride	1.1 UG/L	ND	ND	ND	ND	ND	ND
2-Butanone	6.3 UG/L	6.7	10.9	12.4	9.3	14.8	14.4
Carbon disulfide	.6 UG/L	1.7	1.7	3.7	2.9	1.9	2.6
Chloroprene	.4 UG/L	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	.3 UG/L	ND	ND	ND	ND	ND	ND
Isopropylbenzene	.3 UG/L	ND	ND	ND	ND	ND	ND
Methyl Iodide	.6 UG/L	ND	ND	ND	ND	ND	ND
Methyl methacrylate	.8 UG/L	ND	ND	ND	ND	ND	ND
2-Nitropropane	12 UG/L	ND	ND	ND	ND	ND	ND
ortho-xylene	.4 UG/L	ND	ND	ND	0.6	ND	0.4
Styrene	.3 UG/L	0.9	0.9	ND	ND	ND	0.6
1,2,4-Trichlorobenzene	.7 UG/L	ND	ND	ND	ND	ND	ND
meta,para xylenes	.6 UG/L	0.6	ND	0.8	1.2	<0.6	0.9
2-Chloroethylvinyl ether	1.1 UG/L	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	1.3 UG/L	ND	ND	ND	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT
Priority Pollutants Purgeable Compounds, EPA Method 624

Annual 2012

Source:		PLE	PLE	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN
Date:		07-AUG-2012	02-OCT-2012	07-FEB-2012	01-MAY-2012	07-AUG-2012	02-OCT-2012
Analyte	MDL Units	P626874	P634307	P602758	P613994	P626891	P634324
Acrolein	1.3 UG/L	ND	ND	ND	ND	ND	ND
Acrylonitrile	.7 UG/L	ND	ND	ND	ND	ND	ND
Benzene	.4 UG/L	ND	ND	ND	ND	ND	ND
Bromodichloromethane	.5 UG/L	ND	ND	ND	ND	ND	ND
Bromoform	.5 UG/L	ND	ND	ND	ND	ND	ND
Bromomethane	.7 UG/L	ND	1.7	ND	ND	ND	ND
Carbon tetrachloride	.4 UG/L	ND	ND	ND	ND	ND	ND
Chlorobenzene	.4 UG/L	ND	ND	ND	ND	ND	ND
Chloroethane	.9 UG/L	1.3	2.2	ND	ND	ND	ND
Chloroform	.2 UG/L	6.1	7.0	3.1	2.6	0.5	1.1
Chloromethane	.5 UG/L	9.6	19.7	ND	ND	ND	ND
Dibromochloromethane	.6 UG/L	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	.4 UG/L	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	.5 UG/L	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	.4 UG/L	<0.4	ND	0.7	1.0	ND	ND
1,1-Dichloroethane	.4 UG/L	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	.5 UG/L	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	.4 UG/L	ND	ND	ND	ND	ND	ND
trans-1,2-dichloroethene	.6 UG/L	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	.3 UG/L	ND	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	.3 UG/L	ND	ND	ND	ND	ND	ND
trans-1,3-dichloropropene	.5 UG/L	ND	ND	ND	ND	ND	ND
Ethylbenzene	.3 UG/L	ND	0.5	0.6	1.3	ND	0.6
Methylene chloride	.3 UG/L	2.0	1.2	1.2	1.5	0.6	0.7
1,1,2,2-Tetrachloroethane	.5 UG/L	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1.1 UG/L	ND	ND	ND	ND	ND	ND
Toluene	.4 UG/L	1.2	2.0	2.3	2.4	1.0	1.6
1,1,1-Trichloroethane	.4 UG/L	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	.5 UG/L	ND	ND	ND	ND	ND	ND
Trichloroethene	.7 UG/L	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	.3 UG/L	ND	ND	ND	ND	ND	ND
Vinyl chloride	.4 UG/L	ND	ND	ND	ND	ND	ND
Halomethane Purgeable Cmpnds	.7 UG/L	9.6	21.4	0.0	0.0	0.0	0.0
Total Dichlorobenzenes	.5 UG/L	0.0	0.0	0.0	0.0	0.0	0.0
Purgeable Compounds	1.3 UG/L	20.2	34.3	7.9	8.8	2.1	4.0

Additional Analytes Determined;

Acetone	4.5 UG/L	753	1270	120	157	154	152
Allyl chloride	.6 UG/L	ND	ND	ND	ND	ND	ND
Benzyl chloride	1.1 UG/L	ND	ND	ND	ND	ND	ND
2-Butanone	6.3 UG/L	10.0	12.0	11.8	17.6	11.5	10.3
Carbon disulfide	.6 UG/L	4.2	3.7	0.8	1.4	ND	0.8
Chloroprene	.4 UG/L	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	.3 UG/L	ND	ND	ND	ND	ND	ND
Isopropylbenzene	.3 UG/L	ND	ND	ND	ND	ND	ND
Methyl Iodide	.6 UG/L	ND	ND	ND	ND	ND	ND
Methyl methacrylate	.8 UG/L	ND	ND	ND	ND	ND	ND
2-Nitropropane	12 UG/L	ND	ND	ND	ND	ND	ND
ortho-xylene	.4 UG/L	ND	0.7	ND	0.8	ND	ND
Styrene	.3 UG/L	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	.7 UG/L	ND	ND	ND	ND	ND	ND
meta,para xylenes	.6 UG/L	<0.6	1.2	ND	1.6	ND	ND
2-Chloroethylvinyl ether	1.1 UG/L	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	1.3 UG/L	ND	ND	ND	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT
Priority Pollutants Purgeable Compounds, EPA Method 624

Annual 2012

Source:			DIG COMP	DIG COMP	DIG COMP	DIG COMP	RAW COMP	RAW COMP
Date:			07-FEB-2012	01-MAY-2012	07-AUG-2012	02-OCT-2012	07-FEB-2012	01-MAY-2012
Analyte	MDL	Units	P602794	P614030	P626927	P634360	P602780	P614016
Acrolein	6.4	UG/KG	ND	ND	ND	ND	ND	ND
Acrylonitrile	3.9	UG/KG	ND	ND	ND	ND	ND	ND
Benzene	2.1	UG/KG	ND	ND	ND	ND	ND	ND
Bromodichloromethane	2.2	UG/KG	ND	ND	ND	ND	ND	ND
Bromoform	2.4	UG/KG	ND	ND	ND	ND	ND	ND
Bromomethane	6.9	UG/KG	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	3	UG/KG	ND	ND	ND	ND	ND	ND
Chlorobenzene	1	UG/KG	ND	ND	ND	ND	ND	ND
Chloroethane	3.6	UG/KG	ND	ND	ND	ND	ND	ND
Chloroform	2.3	UG/KG	ND	ND	ND	ND	ND	ND
Chloromethane	3.4	UG/KG	ND	ND	ND	ND	ND	ND
Dibromochloromethane	2.4	UG/KG	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	1.5	UG/KG	25.9	47.5	ND	ND	ND	ND
1,3-Dichlorobenzene	1.8	UG/KG	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	1.5	UG/KG	225	ND	222	ND	192	154
1,1-Dichloroethane	1.9	UG/KG	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	3.6	UG/KG	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	UG/KG	ND	ND	ND	ND	ND	ND
trans-1,2-dichloroethene	3.5	UG/KG	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	2.6	UG/KG	ND	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	2.5	UG/KG	ND	ND	ND	ND	ND	ND
trans-1,3-dichloropropene	2.1	UG/KG	ND	ND	ND	ND	ND	ND
Ethylbenzene	1.4	UG/KG	379	320	257	322	60.4	108
Methylene chloride	3.5	UG/KG	ND	ND	ND	1650	ND	189
1,1,2,2-Tetrachloroethane	5.9	UG/KG	ND	ND	ND	ND	ND	ND
Tetrachloroethene	2.8	UG/KG	ND	ND	ND	ND	ND	97.6
Toluene	1.2	UG/KG	117	104	85.1	ND	246	408
1,1,1-Trichloroethane	3.2	UG/KG	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	2.8	UG/KG	ND	ND	ND	ND	ND	ND
Trichloroethene	2.6	UG/KG	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	2.2	UG/KG	ND	ND	ND	ND	ND	ND
Vinyl chloride	4.8	UG/KG	ND	ND	ND	ND	ND	ND
Halomethane Purgeable Cmpnds	6.9	UG/KG	0.0	0.0	0.0	0.0	0.0	0.0
Total Dichlorobenzenes	1.8	UG/KG	25.9	47.5	0.0	0.0	0.0	0.0
Purgeable Compounds	6.9	UG/KG	747	472	564	1972	498	957

Additional Analytes Determined;

Acetone	31.4	UG/KG	2040	4790	6830	2150	170000	23200
Allyl chloride	3.6	UG/KG	ND	ND	ND	ND	ND	ND
Benzyl chloride	4.3	UG/KG	ND	ND	ND	ND	ND	ND
2-Butanone	36.3	UG/KG	842	1920	2560	1020	2810	2800
Carbon disulfide	4.7	UG/KG	114	378	346	120	131	206
Chloroprene	3.1	UG/KG	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	2.5	UG/KG	ND	ND	ND	ND	ND	ND
Isopropylbenzene	1.3	UG/KG	50.6	50.5	44.2	ND	68.8	85.6
Methyl Iodide	3.8	UG/KG	ND	ND	ND	ND	ND	ND
Methyl methacrylate	2.4	UG/KG	ND	ND	ND	ND	ND	ND
2-Nitropropane	45.8	UG/KG	ND	ND	ND	ND	ND	ND
ortho-xylene	1.9	UG/KG	68.2	77.8	83.6	ND	59.2	157.0
Styrene	1.7	UG/KG	52.5	59.4	ND	ND	351	541
1,2,4-Trichlorobenzene	2.5	UG/KG	ND	ND	ND	ND	ND	ND
meta,para xylenes	4.2	UG/KG	119	141	155	ND	112	319
2-Chloroethylvinyl ether	5.5	UG/KG	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	9.7	UG/KG	ND	ND	ND	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT
 Priority Pollutants Purgeable Compounds, EPA Method 624

Annual 2012

Source:			RAW COMP	RAW COMP
Date:			07-AUG-2012	02-OCT-2012
Analyte	MDL	Units	P626913	P634346
=====				
Acrolein	6.4	UG/KG	ND	ND
Acrylonitrile	3.9	UG/KG	ND	ND
Benzene	2.1	UG/KG	ND	ND
Bromodichloromethane	2.2	UG/KG	ND	ND
Bromoform	2.4	UG/KG	ND	ND
Bromomethane	6.9	UG/KG	ND	ND
Carbon tetrachloride	3	UG/KG	ND	ND
Chlorobenzene	1	UG/KG	ND	ND
Chloroethane	3.6	UG/KG	ND	ND
Chloroform	2.3	UG/KG	ND	ND
Chloromethane	3.4	UG/KG	ND	ND
Dibromochloromethane	2.4	UG/KG	ND	ND
1,2-Dichlorobenzene	1.5	UG/KG	ND	ND
1,3-Dichlorobenzene	1.8	UG/KG	ND	ND
1,4-Dichlorobenzene	1.5	UG/KG	150	123
1,1-Dichloroethane	1.9	UG/KG	ND	ND
1,2-Dichloroethane	3.6	UG/KG	ND	ND
1,1-Dichloroethene	5	UG/KG	ND	ND
trans-1,2-dichloroethene	3.5	UG/KG	ND	ND
1,2-Dichloropropane	2.6	UG/KG	ND	ND
cis-1,3-dichloropropene	2.5	UG/KG	ND	ND
trans-1,3-dichloropropene	2.1	UG/KG	ND	ND
Ethylbenzene	1.4	UG/KG	130	70.0
Methylene chloride	3.5	UG/KG	113	50.9
1,1,2,2-Tetrachloroethane	5.9	UG/KG	ND	ND
Tetrachloroethene	2.8	UG/KG	ND	ND
Toluene	1.2	UG/KG	304	177
1,1,1-Trichloroethane	3.2	UG/KG	ND	ND
1,1,2-Trichloroethane	2.8	UG/KG	ND	ND
Trichloroethene	2.6	UG/KG	ND	ND
Trichlorofluoromethane	2.2	UG/KG	ND	ND
Vinyl chloride	4.8	UG/KG	ND	ND
=====				
Halomethane Purgeable Cmpnds	6.9	UG/KG	0.0	0.0
Total Dichlorobenzenes	1.8	UG/KG	0.0	0.0
=====				
Purgeable Compounds	6.9	UG/KG	697	421

Additional Analytes Determined;

			=====	=====
Acetone	31.4	UG/KG	23900	30100
Allyl chloride	3.6	UG/KG	ND	ND
Benzyl chloride	4.3	UG/KG	ND	ND
2-Butanone	36.3	UG/KG	2590	4570
Carbon disulfide	4.7	UG/KG	142	259
Chloroprene	3.1	UG/KG	ND	ND
1,2-Dibromoethane	2.5	UG/KG	ND	ND
Isopropylbenzene	1.3	UG/KG	60.1	ND
Methyl Iodide	3.8	UG/KG	ND	ND
Methyl methacrylate	2.4	UG/KG	ND	ND
2-Nitropropane	45.8	UG/KG	ND	ND
ortho-xylene	1.9	UG/KG	152	56.4
Styrene	1.7	UG/KG	135	97.0
1,2,4-Trichlorobenzene	2.5	UG/KG	ND	ND
meta,para xylenes	4.2	UG/KG	348	115
2-Chloroethylvinyl ether	5.5	UG/KG	ND	ND
4-Methyl-2-pentanone	9.7	UG/KG	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT
Purgeables

Annual 2012

Source Date	MDL	Units	MBCDEWCN 31-JAN-2012 P605067	MBCDEWCN 29-FEB-2012 P609246	MBCDEWCN 31-MAR-2012 P612206	MBCDEWCN 30-APR-2012 P615900	MBCDEWCN 31-MAY-2012 P619405	MBCDEWCN 30-JUN-2012 P623145
Acrolein	6.4	UG/KG	ND	ND	ND	ND	ND	ND
Acrylonitrile	3.9	UG/KG	ND	ND	ND	ND	ND	ND
Benzene	2.1	UG/KG	ND	ND	ND	ND	6.9	ND
Bromodichloromethane	2.2	UG/KG	ND	ND	ND	ND	ND	ND
Bromoform	2.4	UG/KG	ND	ND	ND	ND	ND	ND
Bromomethane	6.9	UG/KG	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	3	UG/KG	ND	ND	ND	ND	ND	ND
Chlorobenzene	1	UG/KG	ND	ND	ND	ND	ND	ND
Chloroethane	3.6	UG/KG	ND	ND	ND	ND	ND	ND
Chloroform	2.3	UG/KG	ND	ND	ND	ND	ND	ND
Chloromethane	3.4	UG/KG	ND	ND	ND	ND	ND	ND
Dibromochloromethane	2.4	UG/KG	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	1.5	UG/KG	29.8	19.8	13.6	18.0	ND	ND
1,3-Dichlorobenzene	1.8	UG/KG	ND	ND	ND	ND	ND	3.4
1,4-Dichlorobenzene	1.5	UG/KG	101.0	86.8	113.0	121.0	40.4	84.8
Dichlorodifluoromethane	5.56	UG/KG	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	1.9	UG/KG	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	3.6	UG/KG	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	UG/KG	ND	ND	ND	ND	ND	ND
trans-1,2-dichloroethene	3.5	UG/KG	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	2.6	UG/KG	ND	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	2.5	UG/KG	ND	ND	ND	ND	ND	ND
trans-1,3-dichloropropene	2.1	UG/KG	ND	ND	ND	ND	ND	ND
Ethylbenzene	1.4	UG/KG	463	179	208	246	274	433
Methylene chloride	3.5	UG/KG	ND	ND	ND	ND	5.6	ND
1,1,2,2-Tetrachloroethane	5.9	UG/KG	ND	ND	ND	ND	ND	ND
Tetrachloroethene	2.8	UG/KG	ND	ND	ND	ND	ND	ND
Toluene	1.2	UG/KG	51.9	35.4	61.6	81.5	73.9	44.6
1,1,1-Trichloroethane	3.2	UG/KG	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	2.8	UG/KG	ND	ND	ND	ND	ND	ND
Trichloroethene	2.6	UG/KG	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	2.2	UG/KG	ND	ND	ND	ND	ND	ND
Vinyl chloride	4.8	UG/KG	ND	ND	ND	ND	ND	ND
Halomethane Purgeable Compounds	6.9	UG/KG	0.0	0.0	0.0	0.0	0.0	0.0
Purgeable Compounds	6.9	UG/KG	645.7	321.0	396.2	466.5	400.8	565.8
Additional Analytes Determined;								
Acetone	31.4	UG/KG	37900	27700	36400	19500	20700	34300
Allyl chloride	3.6	UG/KG	ND	ND	ND	ND	ND	ND
Benzyl chloride	4.3	UG/KG	ND	ND	ND	ND	ND	ND
2-Butanone	36.3	UG/KG	8020	5510	8620	7070	6200	7290
Carbon disulfide	4.7	UG/KG	117.0	89.9	112.0	169.0	121.0	87.2
Chloroprene	3.1	UG/KG	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	2.5	UG/KG	ND	ND	ND	ND	ND	ND
Isopropylbenzene	1.3	UG/KG	28.4	19.9	24.7	36.8	30.1	108.0
Methyl Iodide	3.8	UG/KG	ND	ND	ND	ND	ND	ND
Methyl methacrylate	2.4	UG/KG	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	3.4	UG/KG	ND	ND	ND	ND	ND	ND
2-Nitropropane	45.8	UG/KG	ND	ND	ND	ND	ND	ND
ortho-xylene	1.9	UG/KG	51.7	35.6	53.5	64.1	56.4	207.0
Styrene	1.7	UG/KG	56.5	28.2	39.1	186.0	118.0	79.3
1,2,4-Trichlorobenzene	2.5	UG/KG	ND	ND	5.5	7.5	ND	14.4
meta,para xylenes	4.2	UG/KG	86.6	56.9	91.1	106.0	24.5	377.0
2-Chloroethylvinyl ether	5.5	UG/KG	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	9.7	UG/KG	30.2	26.1	12.6	48.2	31.3	23.2

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

POINT LOMA WASTEWATER TREATMENT PLANT
Purgeables

Annual 2012

Source Date	MDL	Units	MBCDEWCN 31-JUL-2012 P627353	MBCDEWCN 31-AUG-2012 P631787	MBCDEWCN 30-SEP-2012 P635237	MBCDEWCN 31-OCT-2012 P638482	MBCDEWCN 30-NOV-2012 P642007	MBCDEWCN 31-DEC-2012 P644970
Acrolein	6.4	UG/KG	ND	ND	ND	ND	ND	ND
Acrylonitrile	3.9	UG/KG	ND	ND	ND	ND	ND	ND
Benzene	2.1	UG/KG	ND	ND	ND	ND	ND	ND
Bromodichloromethane	2.2	UG/KG	ND	ND	ND	ND	ND	ND
Bromoform	2.4	UG/KG	ND	ND	ND	ND	ND	ND
Bromomethane	6.9	UG/KG	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	3	UG/KG	ND	ND	ND	ND	ND	ND
Chlorobenzene	1	UG/KG	ND	ND	ND	ND	ND	ND
Chloroethane	3.6	UG/KG	ND	ND	ND	ND	ND	ND
Chloroform	2.3	UG/KG	ND	ND	ND	ND	ND	ND
Chloromethane	3.4	UG/KG	ND	ND	ND	ND	ND	ND
Dibromochloromethane	2.4	UG/KG	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	1.5	UG/KG	ND	ND	ND	10.1	12.0	ND
1,3-Dichlorobenzene	1.8	UG/KG	8.8	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	1.5	UG/KG	96.4	23.0*	73.3	56.7	82.1	67.1
Dichlorodifluoromethane	5.56	UG/KG	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	1.9	UG/KG	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	3.6	UG/KG	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	UG/KG	ND	ND	ND	ND	ND	ND
trans-1,2-dichloroethene	3.5	UG/KG	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	2.6	UG/KG	ND	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	2.5	UG/KG	ND	ND	ND	ND	ND	ND
trans-1,3-dichloropropene	2.1	UG/KG	ND	ND	ND	ND	ND	ND
Ethylbenzene	1.4	UG/KG	265	70.6	1060	282	198	150
Methylene chloride	3.5	UG/KG	8.9	ND	<3.5	ND	9.0	ND
1,1,2,2-Tetrachloroethane	5.9	UG/KG	ND	ND	ND	ND	ND	ND
Tetrachloroethene	2.8	UG/KG	ND	ND	ND	ND	ND	ND
Toluene	1.2	UG/KG	53.8	17.4	68.7	57.4	68.1	53.4
1,1,1-Trichloroethane	3.2	UG/KG	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	2.8	UG/KG	ND	ND	ND	ND	ND	ND
Trichloroethene	2.6	UG/KG	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	2.2	UG/KG	ND	ND	ND	ND	ND	ND
Vinyl chloride	4.8	UG/KG	ND	ND	ND	ND	ND	ND
Halomethane Purgeable Compounds	6.9	UG/KG	0.0	0.0	0.0	0.0	0.0	0.0
Purgeable Compounds	6.9	UG/KG	432.9	88.0	1202	406.2	369.2	270.5

Additional Analytes Determined;

Acetone	31.4	UG/KG	30500	25600	30400	15500	25100	45600
Allyl chloride	3.6	UG/KG	ND	ND	ND	ND	ND	ND
Benzyl chloride	4.3	UG/KG	ND	ND	ND	ND	ND	ND
2-Butanone	36.3	UG/KG	7300	6270	8840	4820	5920	13500
Carbon disulfide	4.7	UG/KG	100.0	60.1	244.0	119.0	139.0	275.0
Chloroprene	3.1	UG/KG	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	2.5	UG/KG	ND	ND	ND	ND	ND	ND
Isopropylbenzene	1.3	UG/KG	37.6	ND	22.6	28.9	33.4	26.2
Methyl Iodide	3.8	UG/KG	ND	ND	ND	ND	ND	ND
Methyl methacrylate	2.4	UG/KG	ND	ND	ND	ND	ND	37.7
Methyl tert-butyl ether	3.4	UG/KG	ND	ND	ND	ND	ND	ND
2-Nitropropane	45.8	UG/KG	ND	ND	ND	ND	ND	ND
ortho-xylene	1.9	UG/KG	78.0	12.2	42.7	50.3	49.8	53.9
Styrene	1.7	UG/KG	40.9	22.7	114	47.9	37.9	547
1,2,4-Trichlorobenzene	2.5	UG/KG	ND	ND	ND	ND	ND	ND
meta,para xylenes	4.2	UG/KG	122	21.6	83.1	95.5	100	92.2
2-Chloroethylvinyl ether	5.5	UG/KG	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	9.7	UG/KG	25.1	9.8	30.6	ND	29.7	38.9

*= Did not meet blank acceptance criteria, value for this batch was 1.54 ug/kg. Data not included in averages.

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

POINT LOMA WASTEWATER TREATMENT PLANT
Purgeables

Annual 2012

Analyte	MDL	Units	Average
Acrolein	6.4	UG/KG	ND
Acrylonitrile	3.9	UG/KG	ND
Benzene	2.1	UG/KG	0.6
Bromodichloromethane	2.2	UG/KG	ND
Bromoform	2.4	UG/KG	ND
Bromomethane	6.9	UG/KG	ND
Carbon tetrachloride	3	UG/KG	ND
Chlorobenzene	1	UG/KG	ND
Chloroethane	3.6	UG/KG	ND
Chloroform	2.3	UG/KG	ND
Chloromethane	3.4	UG/KG	ND
Dibromochloromethane	2.4	UG/KG	ND
1,2-Dichlorobenzene	1.5	UG/KG	8.6
1,3-Dichlorobenzene	1.8	UG/KG	1.0
1,4-Dichlorobenzene	1.5	UG/KG	83.9
Dichlorodifluoromethane	5.56	UG/KG	ND
1,1-Dichloroethane	1.9	UG/KG	ND
1,2-Dichloroethane	3.6	UG/KG	ND
1,1-Dichloroethene	5	UG/KG	ND
trans-1,2-dichloroethene	3.5	UG/KG	ND
1,2-Dichloropropane	2.6	UG/KG	ND
cis-1,3-dichloropropene	2.5	UG/KG	ND
trans-1,3-dichloropropene	2.1	UG/KG	ND
Ethylbenzene	1.4	UG/KG	319.1
Methylene chloride	3.5	UG/KG	2.0
1,1,2,2-Tetrachloroethane	5.9	UG/KG	ND
Tetrachloroethene	2.8	UG/KG	ND
Toluene	1.2	UG/KG	55.6
1,1,1-Trichloroethane	3.2	UG/KG	ND
1,1,2-Trichloroethane	2.8	UG/KG	ND
Trichloroethene	2.6	UG/KG	ND
Trichlorofluoromethane	2.2	UG/KG	ND
Vinyl chloride	4.8	UG/KG	ND
Halomethane Purgeable Compounds	6.9	UG/KG	0.0
Purgeable Compounds	6.9	UG/KG	463.7
Additional Analytes Determined;			
Acetone	31.4	UG/KG	29100
Allyl chloride	3.6	UG/KG	ND
Benzyl chloride	4.3	UG/KG	ND
2-Butanone	36.3	UG/KG	7447
Carbon disulfide	4.7	UG/KG	136.1
Chloroprene	3.1	UG/KG	ND
1,2-Dibromoethane	2.5	UG/KG	ND
Isopropylbenzene	1.3	UG/KG	33.1
Methyl Iodide	3.8	UG/KG	ND
Methyl methacrylate	2.4	UG/KG	3.1
Methyl tert-butyl ether	3.4	UG/KG	ND
2-Nitropropane	45.8	UG/KG	ND
ortho-xylene	1.9	UG/KG	62.9
Styrene	1.7	UG/KG	109.8
1,2,4-Trichlorobenzene	2.5	UG/KG	2.3
meta,para xylenes	4.2	UG/KG	104.7
2-Chloroethylvinyl ether	5.5	UG/KG	ND
4-Methyl-2-pentanone	9.7	UG/KG	25.5

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

POINT LOMA WASTEWATER TREATMENT PLANT
Priority Pollutants Base/Neutral Compounds, EPA Method 625 & 605

Annual 2012

Source Date	MDL	Units	PLE 07-FEB-2012 P602738	PLE 01-MAY-2012 P613974	PLE 07-AUG-2012 P626871	PLE 02-OCT-2012 P634304	PLR 07-FEB-2012 P602744	PLR 01-MAY-2012 P613980
Acenaphthene	1.8	UG/L	ND	ND	ND	ND	ND	ND
Acenaphthylene	1.77	UG/L	ND	ND	ND	ND	ND	ND
Anthracene	1.29	UG/L	ND	ND	ND	ND	ND	ND
Benzo[a]anthracene	1.52	UG/L	ND	ND	ND	ND	ND	ND
Benzo[a]anthracene	1.1	UG/L	ND	ND	ND	ND	ND	ND
3,4-Benzo(b)fluoranthene	1.35	UG/L	ND	ND	ND	ND	ND	ND
Benzo[k]fluoranthene	1.49	UG/L	ND	ND	ND	ND	ND	ND
Benzo[a]pyrene	1.25	UG/L	ND	ND	ND	ND	ND	ND
Benzo[g,h,i]perylene	1.09	UG/L	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	1.4	UG/L	ND	ND	ND	ND	ND	ND
Bis-(2-chloroethoxy) methane	1.01	UG/L	ND	ND	ND	ND	ND	ND
Bis-(2-chloroisopropyl) ether	1.16	UG/L	ND	ND	ND	ND	ND	ND
Bis-(2-chloroethyl) ether	1.38	UG/L	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	1.57	UG/L	ND	ND	ND	ND	ND	ND
Chrysene	1.16	UG/L	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	1.01	UG/L	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	2.84	UG/L	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	3.96	UG/L	ND	ND	ND	ND	ND	ND
Bis-(2-ethylhexyl) phthalate	8.96	UG/L	ND	ND	<9.0	ND	11.2	ND
Diethyl phthalate	3.05	UG/L	5.2	4.7	6.6	5.5	5.5	4.4
Dimethyl phthalate	1.44	UG/L	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	1	UG/L	ND	ND	ND	ND	ND	ND
3,3-Dichlorobenzidine	2.44	UG/L	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	1.36	UG/L	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	1.53	UG/L	ND	ND	ND	ND	ND	ND
1,2-Diphenylhydrazine	1.37	UG/L	ND	ND	ND	ND	ND	ND
Fluoranthene	1.33	UG/L	ND	ND	ND	ND	ND	ND
Fluorene	1.61	UG/L	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	1.48	UG/L	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	1.64	UG/L	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	1.25	UG/L	ND	ND	ND	ND	ND	ND
Hexachloroethane	1.32	UG/L	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-CD)pyrene	1.14	UG/L	ND	ND	ND	ND	ND	ND
Isophorone	1.53	UG/L	ND	ND	ND	ND	ND	ND
Naphthalene	1.65	UG/L	ND	ND	ND	ND	ND	ND
Nitrobenzene	1.6	UG/L	ND	ND	ND	ND	ND	ND
N-nitrosodimethylamine	1.27	UG/L	ND	ND	ND	ND	ND	ND
N-nitrosodi-n-propylamine	1.16	UG/L	ND	ND	ND	ND	ND	ND
N-nitrosodiphenylamine	3.48	UG/L	ND	ND	ND	ND	ND	ND
Phenanthrene	1.34	UG/L	ND	ND	ND	ND	ND	ND
Pyrene	1.43	UG/L	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	1.52	UG/L	ND	ND	ND	ND	ND	ND
Polynuc. Aromatic Hydrocarbons	1.77	UG/L	0.0	0.0	0.0	0.0	0.0	0.0
Base/Neutral Compounds	8.96	UG/L	5.2	4.7	6.6	5.5	16.7	4.4

Additional Analytes Determined;

Benzo[e]pyrene	1.44	UG/L	ND	ND	ND	ND	ND	ND
Biphenyl	2.29	UG/L	ND	ND	ND	ND	ND	ND
2,6-Dimethylnaphthalene	2.16	UG/L	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	2.18	UG/L	ND	ND	ND	ND	ND	ND
1-Methylphenanthrene	1.46	UG/L	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	2.14	UG/L	ND	ND	ND	ND	ND	ND
2,3,5-Trimethylnaphthalene	2.18	UG/L	ND	ND	ND	ND	ND	ND
Perylene	1.41	UG/L	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	1.87	UG/L	ND	ND	ND	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT
Priority Pollutants Base/Neutral Compounds, EPA Method 625 & 605

Annual 2012

Source Date	MDL	Units	PLR 07-AUG-2012 P626877	PLR 02-OCT-2012 P634310	MBC_COMBCN 07-FEB-2012 P602755	MBC_COMBCN 01-MAY-2012 P613991	MBC_COMBCN 07-AUG-2012 P626888	MBC_COMBCN 02-OCT-2012 P634321
Acenaphthene	1.8	UG/L	ND	ND	ND	ND	ND	ND
Acenaphthylene	1.77	UG/L	ND	ND	ND	ND	ND	ND
Anthracene	1.29	UG/L	ND	ND	ND	ND	ND	ND
Benzidine	1.52	UG/L	ND	ND	ND	ND	ND	ND
Benzo[a]anthracene	1.1	UG/L	ND	ND	ND	ND	ND	ND
3,4-Benzo(b)fluoranthene	1.35	UG/L	ND	ND	ND	ND	ND	ND
Benzo[k]fluoranthene	1.49	UG/L	ND	ND	ND	ND	ND	ND
Benzo[a]pyrene	1.25	UG/L	ND	ND	ND	ND	ND	ND
Benzo[g,h,i]perylene	1.09	UG/L	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	1.4	UG/L	ND	ND	ND	ND	ND	ND
Bis-(2-chloroethoxy) methane	1.01	UG/L	ND	ND	ND	ND	ND	ND
Bis-(2-chloroisopropyl) ether	1.16	UG/L	ND	ND	ND	ND	ND	ND
Bis-(2-chloroethyl) ether	1.38	UG/L	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	1.57	UG/L	ND	ND	ND	ND	ND	ND
Chrysene	1.16	UG/L	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	1.01	UG/L	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	2.84	UG/L	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	3.96	UG/L	ND	ND	ND	ND	ND	ND
Bis-(2-ethylhexyl) phthalate	8.96	UG/L	10.0	10.5	ND	20.4	21.6	ND
Diethyl phthalate	3.05	UG/L	5.6	5.3	ND	ND	ND	ND
Dimethyl phthalate	1.44	UG/L	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	1	UG/L	ND	ND	ND	ND	ND	ND
3,3-Dichlorobenzidine	2.44	UG/L	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	1.36	UG/L	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	1.53	UG/L	ND	ND	ND	ND	ND	ND
1,2-Diphenylhydrazine	1.37	UG/L	ND	ND	ND	ND	ND	ND
Fluoranthene	1.33	UG/L	ND	ND	ND	ND	ND	ND
Fluorene	1.61	UG/L	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	1.48	UG/L	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	1.64	UG/L	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	1.25	UG/L	ND	ND	ND	ND	ND	ND
Hexachloroethane	1.32	UG/L	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-CD)pyrene	1.14	UG/L	ND	ND	ND	ND	ND	ND
Isophorone	1.53	UG/L	ND	ND	ND	ND	ND	ND
Naphthalene	1.65	UG/L	ND	ND	ND	ND	ND	ND
Nitrobenzene	1.6	UG/L	ND	ND	ND	ND	ND	ND
N-nitrosodimethylamine	1.27	UG/L	ND	ND	ND	ND	ND	ND
N-nitrosodi-n-propylamine	1.16	UG/L	ND	ND	ND	ND	ND	ND
N-nitrosodiphenylamine	3.48	UG/L	ND	ND	ND	ND	ND	ND
Phenanthrene	1.34	UG/L	ND	ND	ND	ND	ND	ND
Pyrene	1.43	UG/L	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	1.52	UG/L	ND	ND	ND	ND	ND	ND
Polynuc. Aromatic Hydrocarbons	1.77	UG/L	0.0	0.0	0.0	0.0	0.0	0.0
Base/Neutral Compounds	8.96	UG/L	15.6	15.8	0.0	20.4	21.6	0.0

Additional Analytes Determined;

Benzo[e]pyrene	1.44	UG/L	ND	ND	ND	ND	ND	ND
Biphenyl	2.29	UG/L	ND	ND	ND	ND	ND	ND
2,6-Dimethylnaphthalene	2.16	UG/L	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	2.18	UG/L	ND	ND	ND	ND	ND	ND
1-Methylphenanthrene	1.46	UG/L	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	2.14	UG/L	ND	ND	ND	ND	ND	ND
2,3,5-Trimethylnaphthalene	2.18	UG/L	ND	ND	ND	ND	ND	ND
Perylene	1.41	UG/L	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	1.87	UG/L	ND	ND	ND	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT
Priority Pollutants Base/Neutral Compounds, EPA Method 605 & 8270C

Annual 2012

Source Date	Analyte	Units	MBCDEWCN 29-FEB-2012 P609246	MBCDEWCN 31-MAY-2012 P619405	MBCDEWCN 31-AUG-2012 P631787	MBCDEWCN 31-OCT-2012 P638482
	Acenaphthene	330 UG/KG	ND	ND	ND	ND
	Acenaphthylene	330 UG/KG	ND	ND	ND	ND
	Anthracene	330 UG/KG	ND	ND	ND	ND
	Benzidine	330 UG/KG	ND	ND	ND	ND
	Benzo[a]anthracene	330 UG/KG	ND	ND	ND	ND
	3,4-Benzo(b)fluoranthene	330 UG/KG	ND	ND	ND	ND
	Benzo[k]fluoranthene	330 UG/KG	ND	ND	ND	ND
	Benzo[a]pyrene	330 UG/KG	ND	ND	ND	ND
	Benzo[g,h,i]perylene	330 UG/KG	ND	ND	ND	ND
	4-Bromophenyl phenyl ether	330 UG/KG	ND	ND	ND	ND
	Bis-(2-chloroethoxy) methane	330 UG/KG	ND	ND	ND	ND
	Bis-(2-chloroethyl) ether	330 UG/KG	ND	ND	ND	ND
	Bis-(2-chloroisopropyl) ether	330 UG/KG	ND	ND	ND	ND
	4-Chlorophenyl phenyl ether	330 UG/KG	ND	ND	ND	ND
	Chrysene	330 UG/KG	ND	ND	ND	ND
	Dibenzo(a,h)anthracene	330 UG/KG	ND	ND	ND	ND
	Butyl benzyl phthalate	330 UG/KG	ND	ND	ND	ND
	Di-n-butyl phthalate	330 UG/KG	ND	ND	ND	ND
	Bis-(2-ethylhexyl) phthalate	330 UG/KG	66000	93100	84100	85100
	Diethyl phthalate	330 UG/KG	ND	ND	ND	ND
	Dimethyl phthalate	330 UG/KG	ND	ND	ND	ND
	Di-n-octyl phthalate	330 UG/KG	ND	ND	ND	ND
	3,3-Dichlorobenzidine	330 UG/KG	ND	ND	ND	ND
	2,4-Dinitrotoluene	330 UG/KG	ND	ND	ND	ND
	2,6-Dinitrotoluene	330 UG/KG	ND	ND	ND	ND
	1,2-Diphenylhydrazine	UG/KG	ND	ND	ND	ND
	Fluoranthene	330 UG/KG	ND	ND	ND	ND
	Fluorene	330 UG/KG	ND	ND	ND	ND
	Hexachlorobenzene	330 UG/KG	ND	ND	ND	ND
	Hexachlorobutadiene	330 UG/KG	ND	ND	ND	ND
	Hexachlorocyclopentadiene	330 UG/KG	ND	ND	ND	ND
	Hexachloroethane	330 UG/KG	ND	ND	ND	ND
	Indeno(1,2,3-CD)pyrene	330 UG/KG	ND	ND	ND	ND
	Isophorone	330 UG/KG	ND	ND	ND	ND
	Naphthalene	330 UG/KG	ND	455	ND	ND
	Nitrobenzene	330 UG/KG	ND	ND	ND	ND
	N-nitrosodimethylamine	330 UG/KG	ND	ND	ND	ND
	N-nitrosodi-n-propylamine	330 UG/KG	ND	ND	ND	ND
	N-nitrosodiphenylamine	330 UG/KG	ND	ND	ND	ND
	Phenanthrene	330 UG/KG	ND	657	ND	ND
	Pyrene	330 UG/KG	ND	ND	ND	ND
	1,2,4-Trichlorobenzene	330 UG/KG	ND	ND	ND	ND
	Polynuc. Aromatic Hydrocarbons		0	657	0	0
	Base/Neutral Compounds		66000	94212	84100	85100

Additional Analytes Determined;

	Benzo[e]pyrene	UG/KG	ND	ND	ND	ND
	Biphenyl	UG/KG	ND	563	229	515
	2,6-Dimethylnaphthalene	UG/KG	1690	1530	1930	1460
	1-Methylnaphthalene	UG/KG	402	ND	ND	ND
	1-Methylphenanthrene	UG/KG	ND	ND	ND	ND
	2-Methylnaphthalene	UG/KG	474	547	613	462
	2,3,5-Trimethylnaphthalene	UG/KG	ND	ND	ND	ND
	Perylene	330 UG/KG	ND	ND	ND	ND
	2-Chloronaphthalene	UG/KG	ND	ND	ND	ND
	Pyridine	UG/KG	ND	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT
EFFLUENT
Dioxin and Furan Analysis

ANALYZED BY: Frontier Analytical Laboratories

2012 Annual

Source		PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
Analyte	MDL Units	P601998	P602738	P609086	P612733	P613974	P619448	P622820	P629010	P631933
2,3,7,8-tetra CDD	.26 PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.317 PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.482 PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.484 PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.46 PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.497 PG/L	DNQ5.04	DNQ5.56	DQN3.89	DNQ3.74	DNQ3.07	ND	DNQ2.90	DNQ5.51	DNQ4.06
octa CDD	1.41 PG/L	DNQ45.0	DNQ46.0	DNQ36.0	DNQ31.0	DNQ25.0	DNQ18.0	DNQ26.0	DNQ31.0	DNQ29.0
2,3,7,8-tetra CDF	.257 PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.335 PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.34 PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.284 PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.281 PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.348 PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.294 PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.324 PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	.49 PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
octa CDF	.805 PG/L	ND	4.40	ND	ND	ND	ND	ND	ND	ND

Source		PLE	PLE	PLE
		OCT	NOV	DEC
Analyte	MDL Units	P634304	P638993	P641974
2,3,7,8-tetra CDD	.26 PG/L	ND	ND	ND
1,2,3,7,8-penta CDD	.317 PG/L	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.482 PG/L	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.484 PG/L	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.46 PG/L	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.497 PG/L	ND	ND	ND
octa CDD	1.41 PG/L	DNQ21.0	DNQ22.0	DNQ26.0
2,3,7,8-tetra CDF	.257 PG/L	ND	ND	ND
1,2,3,7,8-penta CDF	.335 PG/L	ND	ND	ND
2,3,4,7,8-penta CDF	.34 PG/L	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.284 PG/L	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.281 PG/L	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.348 PG/L	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.294 PG/L	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.324 PG/L	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	.49 PG/L	ND	ND	ND
octa CDF	.805 PG/L	ND	ND	ND

Above are permit required CDD/CDF isomers.
nd= not detected
NA= not analyzed NS= not sampled

POINT LOMA WASTEWATER TREATMENT
EFFLUENT
Dioxin and Furan Analysis

ANALYZED BY: Frontier Analytical Laboratories

2012 Annual

Source				PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE
				TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	TCDD
				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
Analyte	MDL	Units	Equiv	P601998	P602738	P609086	P612733	P613974	P619448	P622820	P629010	P631933
2,3,7,8-tetra CDD	.26	PG/L	1.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.317	PG/L	0.500	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.482	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.484	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.46	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.497	PG/L	0.010	DNQ0.050	DNQ0.056	DNQ0.039	DNQ0.037	DNQ0.031	ND	DNQ0.029	DNQ0.055	DNQ0.041
octa CDD	1.41	PG/L	0.001	DNQ0.045	DNQ0.046	DNQ0.036	DNQ0.031	DNQ0.025	DNQ0.018	DNQ0.026	DNQ0.031	DNQ0.029
2,3,7,8-tetra CDF	.257	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.335	PG/L	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.34	PG/L	0.500	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.284	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.281	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.348	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.294	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.324	PG/L	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	.49	PG/L	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND
octa CDF	.805	PG/L	0.001	ND	0.004	ND	ND	ND	ND	ND	ND	ND

Source				PLE	PLE	PLE
				TCDD	TCDD	TCDD
				OCT	NOV	DEC
Analyte	MDL	Units	Equiv	P634304	P638993	P641974
2,3,7,8-tetra CDD	.26	PG/L	1.000	ND	ND	ND
1,2,3,7,8-penta CDD	.317	PG/L	0.500	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.482	PG/L	0.100	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.484	PG/L	0.100	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.46	PG/L	0.100	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.497	PG/L	0.010	ND	ND	ND
octa CDD	1.41	PG/L	0.001	DNQ0.021	DNQ0.022	DNQ0.026
2,3,7,8-tetra CDF	.257	PG/L	0.100	ND	ND	ND
1,2,3,7,8-penta CDF	.335	PG/L	0.050	ND	ND	ND
2,3,4,7,8-penta CDF	.34	PG/L	0.500	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.284	PG/L	0.100	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.281	PG/L	0.100	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.348	PG/L	0.100	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.294	PG/L	0.100	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.324	PG/L	0.010	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	.49	PG/L	0.010	ND	ND	ND
octa CDF	.805	PG/L	0.001	ND	ND	ND

Above are permit required CDD/CDF isomers.
nd= not detected
NA= not analyzed NS= not sampled

POINT LOMA WASTEWATER TREATMENT
EFFLUENT
Dioxin and Furan Analysis

ANALYZED BY: Frontier Analytical Laboratories

2012 Annual

Source			PLR#	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR
Analyte	MDL	Units	JAN#	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
			P602001	P602744	P609089	P612736	P613980	P619451	P622823	P629013	P631936	P634310
2,3,7,8-tetra CDD	.26	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.317	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa_CDD	.482	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.484	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.46	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.497	PG/L	30.2	48.5	DNQ19.3	27.6	41.3	DNQ20.6	DNQ22.8	DNQ22.2	DNQ17.8	DNQ20.2
octa CDD	1.41	PG/L	270.0	350.0	220.0	200.0	270.0	180.0	250.0	160.0	130.0	220.0
2,3,7,8-tetra CDF	.257	PG/L	ND	ND	ND	DNQ1.31	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.335	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.34	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.284	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.281	PG/L	ND	DNQ1.74	DNQ1.36	ND	ND	ND	DNQ5.75	DNQ2.30	DNQ2.07	ND
1,2,3,7,8,9-hexa CDF	.348	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.294	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.324	PG/L	DNQ5.10	DNQ6.50	DNQ4.91	DNQ4.19	DNQ6.71	DNQ3.48	DNQ6.62	DNQ3.49	DNQ3.38	DNQ4.33
1,2,3,4,7,8,9-hepta CDF	.49	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
octa CDF	.805	PG/L	DNQ14.5	DNQ16.5	DNQ12.5	DNQ10.4	DNQ17.5	DNQ9.42	DNQ15.3	DNQ8.14	DNQ7.22	DNQ9.07

Source			PLR	PLR
Analyte	MDL	Units	NOV	DEC
			P638996	P641977
2,3,7,8-tetra CDD	.26	PG/L	ND	ND
1,2,3,7,8-penta CDD	.317	PG/L	ND	ND
1,2,3,4,7,8-hexa_CDD	.482	PG/L	ND	ND
1,2,3,6,7,8-hexa CDD	.484	PG/L	ND	ND
1,2,3,7,8,9-hexa CDD	.46	PG/L	ND	ND
1,2,3,4,6,7,8-hepta CDD	.497	PG/L	DNQ16.2	DNQ17.0
octa CDD	1.41	PG/L	210.0	150.0
2,3,7,8-tetra CDF	.257	PG/L	ND	ND
1,2,3,7,8-penta CDF	.335	PG/L	ND	ND
2,3,4,7,8-penta CDF	.34	PG/L	ND	ND
1,2,3,4,7,8-hexa CDF	.284	PG/L	ND	ND
1,2,3,6,7,8-hexa CDF	.281	PG/L	ND	ND
1,2,3,7,8,9-hexa CDF	.348	PG/L	ND	ND
2,3,4,6,7,8-hexa CDF	.294	PG/L	ND	ND
1,2,3,4,6,7,8-hepta CDF	.324	PG/L	DNQ3.92	ND
1,2,3,4,7,8,9-hepta CDF	.49	PG/L	ND	ND
octa CDF	.805	PG/L	DNQ9.36	DNQ8.55

#= Refer to self monitoring report

Above are permit required CDD/CDF isomers.
 ND= not detected
 NA= not analyzed
 NS= not sampled

POINT LOMA WASTEWATER TREATMENT
EFFLUENT
Dioxin and Furan Analysis

ANALYZED BY: Frontier Analytical Laboratories

2012 Annual

Source				PLR#	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR
				TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	TCDD
Analyte	MDL	Units	Equiv	JAN#	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
				P602001	P602744	P609089	P612736	P613980	P619451	P622823	P629013	P631936	
2,3,7,8-tetra CDD	.26	PG/L	1.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.317	PG/L	0.500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.482	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.484	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.46	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.497	PG/L	0.010	0.302	0.485	DNQ0.193	0.276	0.413	DNQ0.206	DNQ0.228	DNQ0.222	DNQ0.178	
octa CDD	1.41	PG/L	0.001	0.270	0.350	0.220	0.200	0.270	0.180	0.250	0.160	0.130	
2,3,7,8-tetra CDF	.257	PG/L	0.100	ND	ND	ND	DNQ0.131	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.335	PG/L	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.34	PG/L	0.500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.284	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.281	PG/L	0.100	ND	DNQ0.174	DNQ0.136	ND	ND	ND	DNQ0.575	DNQ0.230	DNQ0.207	
1,2,3,7,8,9-hexa CDF	.348	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.294	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.324	PG/L	0.010	DNQ0.051	DNQ0.065	DNQ0.049	DNQ0.042	DNQ0.067	DNQ0.035	DNQ0.066	DNQ0.035	DNQ0.034	
1,2,3,4,7,8,9-hepta CDF	.49	PG/L	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
octa CDF	.805	PG/L	0.001	DNQ0.015	DNQ0.017	DNQ0.013	DNQ0.010	DNQ0.018	DNQ0.009	DNQ0.015	DNQ0.008	DNQ0.007	

Source				PLR	PLR	PLR
				TCDD	TCDD	TCDD
Analyte	MDL	Units	Equiv	OCT	NOV	DEC
				P634310	P638996	P641977
2,3,7,8-tetra CDD	.26	PG/L	1.000	ND	ND	ND
1,2,3,7,8-penta CDD	.317	PG/L	0.500	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.482	PG/L	0.100	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.484	PG/L	0.100	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.46	PG/L	0.100	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.497	PG/L	0.010	DNQ0.202	DNQ0.162	DNQ0.170
octa CDD	1.41	PG/L	0.001	0.220	0.210	0.150
2,3,7,8-tetra CDF	.257	PG/L	0.100	ND	ND	ND
1,2,3,7,8-penta CDF	.335	PG/L	0.050	ND	ND	ND
2,3,4,7,8-penta CDF	.34	PG/L	0.500	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.284	PG/L	0.100	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.281	PG/L	0.100	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.348	PG/L	0.100	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.294	PG/L	0.100	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.324	PG/L	0.010	DNQ0.043	DNQ0.039	ND
1,2,3,4,7,8,9-hepta CDF	.49	PG/L	0.010	ND	ND	ND
octa CDF	.805	PG/L	0.001	DNQ0.009	DNQ0.009	DNQ0.009

#= Refer to self monitoring report

Above are permit required CDD/CDF isomers.
nd= not detected
NA= not analyzed
NS= not sampled

METROBIOSOLIDS CENTER
Dioxin and Furan Analysis, SW-846 Method 8290

Annual 2012

Analyzed by: Frontier Analytical Laboratories

Source		MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
Date		31-JAN-2012	29-FEB-2012	31-MAR-2012	30-APR-2012	31-MAY-2012	30-JUN-2012	31-JUL-2012
Analyte	MDL Units	P605067	P609246	P612206	P615900	P619405	P623145	P627353
2,3,7,8-tetra CDD	.0414 NG/KG	ND	DNQ0.72	DNQ0.56	DNQ0.65	DNQ0.57	DNQ0.55	DNQ0.73
1,2,3,7,8-penta CDD	.0563 NG/KG	3.25	DNQ3.12	DNQ4.73	DNQ2.30	DNQ3.96	DNQ3.44	DNQ3.79
1,2,3,4,7,8-hexa CDD	.0747 NG/KG	1.80	DNQ1.76	DNQ1.89	DNQ1.82	DNQ1.17	DNQ1.81	DNQ1.77
1,2,3,6,7,8-hexa CDD	.081 NG/KG	33.70	28.70	17.00	20.90	19.00	23.40	29.80
1,2,3,7,8,9-hexa CDD	.0748 NG/KG	11.00	8.86	5.59	7.01	5.73	7.11	8.57
1,2,3,4,6,7,8-hepta CDD	.138 NG/KG	306.00	236.00	211.00	258.00	221.00	288.00	295.00
octa CDD	.248 NG/KG	1670.00	1300.00	1390.00	1670.00	1340.00	1720.00	1630.00
2,3,7,8-tetra CDF	.0435 NG/KG	3.61	4.11	3.78	3.71	3.66	5.25	5.15
1,2,3,7,8-penta CDF	.0608 NG/KG	1.24	DNQ1.48	DNQ1.52	DNQ1.26	DNQ1.20	DNQ1.75	DNQ1.60
2,3,4,7,8-penta CDF	.66 NG/KG	1.54	DNQ1.33	DNQ1.69	DNQ1.70	DNQ0.97	DNQ2.00	DNQ1.33
1,2,3,4,7,8-hexa CDF	.0484 NG/KG	2.31	DNQ2.21	DNQ2.39	DNQ1.87	DNQ1.74	DNQ2.43	DNQ2.18
1,2,3,6,7,8-hexa CDF	.0487 NG/KG	1.78	DNQ1.86	DNQ2.40	DNQ1.87	DNQ1.31	DNQ2.30	DNQ3.23
1,2,3,7,8,9-hexa CDF	.0607 NG/KG	ND	DNQ0.54	DNQ0.75	DNQ0.65	DNQ0.60	DNQ0.77	ND
2,3,4,6,7,8-hexa CDF	.0531 NG/KG	2.42	DNQ2.47	DNQ2.66	DNQ2.11	DNQ1.89	DNQ2.89	DNQ2.84
1,2,3,4,6,7,8-hepta CDF	.0642 NG/KG	26.70	23.60	25.00	47.20	30.80	31.70	26.80
1,2,3,4,7,8,9-hepta CDF	.0704 NG/KG	1.64	DNQ1.63	DNQ1.94	DNQ1.90	DNQ1.44	DNQ1.73	DNQ1.55
octa CDF	.151 NG/KG	85.00	73.90	71.30	606.00	279.00	139.00	71.80

Source		MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
Date		31-AUG-2012	30-SEP-2012	31-OCT-2012	30-NOV-2012
Analyte	MDL Units	P631787	P635237	P638482	P642007
2,3,7,8-tetra CDD	.0414 NG/KG	DNQ0.75	DNQ0.55	ND	DNQ0.69
1,2,3,7,8-penta CDD	.0563 NG/KG	DNQ3.62	DNQ3.55	DNQ3.19	DNQ2.50
1,2,3,4,7,8-hexa CDD	.0747 NG/KG	DNQ2.43	DNQ1.50	DNQ1.52	DNQ1.49
1,2,3,6,7,8-hexa CDD	.081 NG/KG	33.40	20.40	17.40	23.60
1,2,3,7,8,9-hexa CDD	.0748 NG/KG	10.20	5.84	5.99	8.15
1,2,3,4,6,7,8-hepta CDD	.138 NG/KG	370.00	246.00	230.00	259.00
octa CDD	.248 NG/KG	1990.00	1530.00	1330.00	1370.00
2,3,7,8-tetra CDF	.0435 NG/KG	5.68	4.36	3.97	4.45
1,2,3,7,8-penta CDF	.0608 NG/KG	DNQ1.66	DNQ1.15	DNQ1.22	DNQ0.99
2,3,4,7,8-penta CDF	.66 NG/KG	DNQ1.55	DNQ1.60	DNQ1.58	DNQ0.76
1,2,3,4,7,8-hexa CDF	.0484 NG/KG	DNQ2.73	DNQ2.03	DNQ1.77	DNQ1.57
1,2,3,6,7,8-hexa CDF	.0487 NG/KG	DNQ2.91	DNQ2.24	DNQ1.70	DNQ1.39
1,2,3,7,8,9-hexa CDF	.0607 NG/KG	DNQ0.85	DNQ0.93	DNQ0.63	DNQ0.49
2,3,4,6,7,8-hexa CDF	.0531 NG/KG	DNQ3.03	DNQ2.62	DNQ2.28	DNQ1.90
1,2,3,4,6,7,8-hepta CDF	.0642 NG/KG	31.40	25.20	22.70	21.00
1,2,3,4,7,8,9-hepta CDF	.0704 NG/KG	DNQ1.79	DNQ1.33	DNQ1.44	DNQ1.29
octa CDF	.151 NG/KG	81.40	62.80	58.10	58.20

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

DNQ= (Detected but not quantified). Estimated analyte concentration below calibration range.

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