IV. Combined Ocean Outfall Data

Data Summaries

This section presents the results of analyses of the combined or mixed effluent stream being discharged to the South Bay Ocean Outfall from the South Bay Wastewater Reclamation and International Wastewater Treatment Plant for 2011.

SB_ITP_COMB_EFF designates a composite sample taken at a point downstream of the discharges of both plants where the wastewater stream is a mixture of both effluents (the secondary or tertiary effluent from SBWRP and the primary effluent from the IWTP).

Sampling and monitoring analyses occurred quarterly in February, May, August and October.

Discharge limits do not apply to this combined flow; but quarterly monitoring is required.

SOUTH BAY WATER RECLAMATION PLANT
COMBINED OUTFALL

Annual 2011

Source: SB_ITP_COMB_EFF

Date:	MDL	Units	01-FEB-2011	03-FEB-2011	15-FEB-2011	03-MAY-2011	02-AUG-2011
Aluminum	47	UG/L		439		ND	112
Antimony	2.9	UG/L		ND		ND	3.2
Arsenic	.4	UG/L		1.0		2.0	2.33
Barium	.039	UG/L		35.2		2.7	37.7
Beryllium	.022	UG/L		ND		0.03	0.06
Boron	7	UG/L		445		72.8	424
Cadmium	.53	UG/L		ND		ND	ND
Chromium	1.2	UG/L		2.4		ND	4.5
Cobalt	.85	UG/L		ND		ND	ND
Copper	2	UG/L		52		3.9	33.6
Iron	37	UG/L		1550		37	2550
Lead	2	UG/L		22.2		2.3	2.4
Manganese	.24	UG/L		101		20.5	112
Mercury	.005	UG/L		0.02		0.01	0.04
Molybdenum	.89	UG/L		7.7		2.1	8.1
Nickel	.53	UG/L		15		3.6	13.2
Selenium	.28	UG/L		1.0		1.0	1.23
Silver	.4	UG/L		ND		ND	ND
Thallium	3.9	UG/L		ND		ND	ND
Vanadium	.64	UG/L		2.0		1.0	4.0
Zinc	2.5	UG/L		46.7		6.0	53.9
Calcium Hardness	.1	MG/L		226		217	229
Magnesium Hardness	.4	MG/L		153		157	179
Total Hardness	.4	MG/L		378		374	408
Total Alkalinity (bicarbonate)	20	MG/L		280		204	163
Calcium	.04	MG/L		90		87	92
Lithium	.002	MG/L		0.05		0.04	0.06
Magnesium	.1	MG/L		37		38	43
Potassium	.3	MG/L		22		22	24
Sodium	1	MG/L		256		253	296
Bromide	.1	MG/L		0.44		1.03	0.52
Chloride	7	MG/L		313		358	363
Fluoride	.05	MG/L		0.59		0.64	0.69
Nitrate	.04	MG/L		11.5		50.7	59
Ortho Phosphate	.2	MG/L		2.29		3.04	3.87
Sulfate	9	MG/L		305		267	358
Cyanides,Total	.002	MG/L		0.009		0.005	0.005
Sulfides-Total	.18	MG/L		0.33		ND	ND
BOD (Biochemical Oxygen Demand)	2	MG/L			58.2	33.4	78.8
Total Suspended Solids	1.4	MG/L		120		7.5	158
Volatile Suspended Solids	1.6	MG/L		90		6.0	130
Total Dissolved Solids	28	MG/L		1230		1290	1680
Settleable Solids	.1	ML/L	0.3			ND	0.4
pH		PH	7.3			7.2	7.4
Turbidity	.13	NTU		31.1		2.3	39.5
Chlorine Residual, Total	.03	MG/L	ND			ND	0.1
Ammonia-N	.3	MG/L		22		6.4	2.1
Total Kjeldahl Nitrogen	1.6	MG/L		32.3		6.9	10.9

ND= Not Detected
NA= Not Analyzed
NS= Not Sampled
Chromium results are for Total Chromium

SOUTH BAY WATER RECLAMATION PLANT
COMBINED OUTFALL

Annual 2011

Source: SB_ITP_COMB_EFF

Date:	MDL	Units	04-OCT-2011	05-OCT-2011
Aluminum	47	UG/L	246	
Antimony	2.9	UG/L	ND	
Arsenic	.4	UG/L	2.68	
Barium	.039	UG/L	22	
Beryllium	.022	UG/L	ND	
Boron	7	UG/L	474	
Cadmium	.53	UG/L	ND	
Chromium	1.2	UG/L	2.0	
Cobalt	.85	UG/L	ND	
Copper	2	UG/L	7.4	
Iron	37	UG/L	579	
Lead	2	UG/L	ND	
Manganese	.24	UG/L	62.8	
Mercury	.005	UG/L	0.02	
Molybdenum	.89	UG/L	7.6	
Nickel	.53	UG/L	14.6	
Selenium	.28	UG/L	0.93	
Silver	.4	UG/L	ND	
Thallium	3.9	UG/L	ND	
Vanadium	.64	UG/L	0.9	
Zinc	2.5	UG/L	24.8	
Calcium Hardness	.1	MG/L	219	
Magnesium Hardness	.4	MG/L	173	
Total Hardness	.4	MG/L	392	
Total Alkalinity (bicarbonate)	20	MG/L	181	
Calcium	.04	MG/L	88	
Lithium	.002	MG/L	0.07	
Magnesium	.1	MG/L	42	
Potassium	.3	MG/L	25	
Sodium	1	MG/L	293	
Bromide	.1	MG/L	0.44	
Chloride	7	MG/L	358	
Fluoride	.05	MG/L	0.65	
Nitrate	.04	MG/L	33.8	
Ortho Phosphate	.2	MG/L	16.9	
Sulfate	9	MG/L	360	
Cyanides,Total	.002	MG/L	0.005	
Sulfides-Total	.18	MG/L	ND	
BOD (Biochemical Oxygen Demand)	2	MG/L	47.5	
Total Suspended Solids	1.4	MG/L	26.7	
Volatile Suspended Solids	1.6	MG/L	16.7	
Total Dissolved Solids	28	MG/L	1180	
Settleable Solids	.1	ML/L	0.2	
pH		PH	7.2	
Turbidity	.13	NTU	7.9	
Chlorine Residual, Total	.03	MG/L		0.04
Ammonia-N	.3	MG/L	3.3	
Total Kjeldahl Nitrogen	1.6	MG/L	9.1	

ND= Not Detected
NA= Not Analyzed
NS= Not Sampled
Chromium results are for Total Chromium

SOUTH BAY WATER RECLAMATION PLANT
ANNUAL SEWAGE: COMBINED OUTFALL (SB_ITP_COMB_EFF)
Temperature

Annual 2011

	Temperature GRAB (C)
01-FEB-2011	19.7
03-MAY-2011	24.8
02-AUG-2011	26.9
04-OCT-2011	24.2
Average:	23.9
Maximum:	26.9
Minimum:	19.7

SOUTH BAY WATER RECLAMATION PLANT
ANNUAL SEWAGE: COMBINED EFFLUENT (SB_ITP_COMB_EFF)

Ammonia-Nitrogen and Total Cyanides

Annual 2011

Analyte:	Ammonia-N	Cyanides,Total
MDL:	.3 MG/L	.002 MG/L
Source:	COMB EFF	COMB EFF
FEBRUARY -2011	21.8	0.009
MAY -2011	6.4	0.005
AUGUST -2011	2.1	0.005
OCTOBER -2011	3.3	0.005
Average:	8.4	0.006

ND= not detected

SOUTH BAY WATER RECLAMATION PLANT
ANNUAL SEWAGE: COMBINED OUTFALL (SB_ITP_COMB_EFF)
Radioactivity

Annual 2011

Source	Month	Gross Alpha Radiation
SB_ITP_COMB_EFF	FEBRUARY -2011	0.9 ± 3.0
SB_ITP_COMB_EFF	MAY -2011	4.4 ± 2.6
SB_ITP_COMB_EFF	AUGUST -2011	4.8 ± 3.1
SB_ITP_COMB_EFF	OCTOBER -2011	-0.2 ± 5.3
AVERAGE		2.5 ± 3.5

Source	Month	Gross Beta Radiation
SB_ITP_COMB_EFF	FEBRUARY -2011	27.9 ± 7.4
SB_ITP_COMB_EFF	MAY -2011	24.7 ± 6.9
SB_ITP_COMB_EFF	AUGUST -2011	27.6 ± 7.3
SB_ITP_COMB_EFF	OCTOBER -2011	26.9 ± 6.1
AVERAGE		26.8 ± 6.9

Units in picocuries/liter (pCi/L)

SOUTH BAY WATER RECLAMATION PLANT
QUARTTERLY SEWAGE - COMBINED EFFLUENT

Chlorinated Pesticide Analysis

Annual 2011

Analyte	MDL	Units	COMB_EFF 03-FEB-2011	COMB_EFF 03-MAY-2011	COMB_EFF 02-AUG-2011	COMB_EFF 04-OCT-2011	COMB_EFF Avg
Aldrin	7	NG/L	ND	ND	ND	ND	ND
Dieldrin	3	NG/L	ND	ND	ND	ND	ND
BHC, Alpha isomer	7	NG/L	ND	ND	ND	ND	ND
BHC, Beta isomer	3	NG/L	ND	ND	ND	ND	ND
BHC, Gamma isomer	5	NG/L	ND	ND	ND	ND	ND
BHC, Delta isomer	3	NG/L	ND	ND	ND	ND	ND
p,p-DDD	3	NG/L	ND	ND	ND	ND	ND
p,p-DDE	4	NG/L	ND	ND	ND	ND	ND
p,p-DDT	8	NG/L	ND	ND	ND	ND	ND
o,p-DDD	4	NG/L	ND	ND	ND	ND	ND
o,p-DDE	5	NG/L	ND	ND	ND	ND	ND
o,p-DDT	3	NG/L	ND	ND	ND	ND	ND
Heptachlor	8	NG/L	ND	ND	ND	ND	ND
Heptachlor epoxide	4	NG/L	ND	ND	ND	ND	ND
Alpha (cis) Chlordane	3	NG/L	ND	ND	ND	ND	ND
Gamma (trans) Chlordane	4	NG/L	ND	ND	ND	ND	ND
Alpha Chlordene		NG/L	NA	NA	NA	NA	NA
Gamma Chlordene		NG/L	NA	NA	NA	NA	NA
Oxychlordane	6	NG/L	ND	ND	ND	ND	ND
Trans Nonachlor	5	NG/L	ND	ND	ND	ND	ND
Cis Nonachlor	3	NG/L	ND	ND	ND	ND	ND
Alpha Endosulfan	4	NG/L	ND	ND	ND	ND	ND
Beta Endosulfan	2	NG/L	ND	ND	ND	ND	ND
Endosulfan Sulfate	6	NG/L	ND	ND	ND	ND	ND
Endrin	2	NG/L	ND	ND	ND	ND	ND
Endrin aldehyde	9	NG/L	ND	ND	ND	ND	ND
Mirex	10	NG/L	ND	ND	ND	ND	ND
Methoxychlor	10	NG/L	ND	ND	ND	ND	ND
Toxaphene	330	NG/L	ND	ND	ND	ND	ND
PCB 1016	4000	NG/L	ND	ND	ND	ND	ND
PCB 1221	4000	NG/L	ND	ND	ND	ND	ND
PCB 1232	360	NG/L	ND	ND	ND	ND	ND
PCB 1242	4000	NG/L	ND	ND	ND	ND	ND
PCB 1248	2000	NG/L	ND	ND	ND	ND	ND
PCB 1254	2000	NG/L	ND	ND	ND	ND	ND
PCB 1260	2000	NG/L	ND	ND	ND	ND	ND
PCB 1262	930	NG/L	ND	ND	ND	ND	ND
Aldrin + Dieldrin	7	NG/L	0	0	0	0	0
Hexachlorocyclohexanes	7	NG/L	0	0	0	0	0
DDT and derivatives	8	NG/L	0	0	0	0	0
Chlordane + related cmpds.	6	NG/L	0	0	0	0	0
Polychlorinated biphenyls	4000	NG/L	0	0	0	0	0
Endosulfans	6	NG/L	0	0	0	0	0
Heptachlors	8	NG/L	0	0	0	0	0
Chlorinated Hydrocarbons	4000	NG/L	0	0	0	0	0

Standards for alpha and gamma chlordene are no longer available in the U.S. for the analysis of these compounds.
ND=not detected

SOUTH BAY WATER RECLAMATION PLANT
COMBINED EFFLUENT

Acid Extractables

Annual 2011

Source: SB_ITP_COMB_EFF

Analyte	MDL	Units	FEB	MAY	AUG	OCT	Avg
2-Chlorophenol	1.32	UG/L	ND	ND	ND	ND	ND
2,4-Dichlorophenol	1.01	UG/L	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	1.67	UG/L	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	1.65	UG/L	ND	ND	ND	ND	ND
Pentachlorophenol	1.12	UG/L	ND	ND	ND	ND	ND
Phenol	1.76	UG/L	ND	ND	ND	ND	ND
2-Nitrophenol	1.55	UG/L	ND	ND	ND	ND	ND
2,4-Dimethylphenol	2.01	UG/L	ND	ND	ND	ND	ND
2,4-Dinitrophenol	2.16	UG/L	ND	ND	ND	ND	ND
4-Nitrophenol	1.14	UG/L	ND	ND	ND	ND	ND
2-Methyl-4,6-dinitrophenol	1.52	UG/L	ND	ND	ND	ND	ND
Total Chlorinated Phenols	1.67	UG/L	0.0	0.0	0.0	0.0	0.0
Total Non-Chlorinated Phenols	2.16	UG/L	0.0	0.0	0.0	0.0	0.0
Total Phenols	2.16	UG/L	0.0	0.0	0.0	0.0	0.0
2-Methylphenol	2.15	UG/L	ND	ND	ND	ND	ND
3-Methylphenol(4-MP is unresolved)		UG/L	NA	NA	NA	NA	NA
4-Methylphenol(3-MP is unresolved)	2.11	UG/L	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	1.66	UG/L	ND	ND	ND	ND	ND

ND=not detected

SOUTH BAY WATER RECLAMATION PLANT
COMBINED EFFLUENT

Priority Pollutants Base/Neutrals

Annual 2011

Analyte	MDL	Units	FEB	MAY	AUG	OCT	Avg
Acenaphthene	1.8	UG/L	ND	ND	ND	ND	ND
Acenaphthylene	1.77	UG/L	ND	ND	ND	ND	ND
Anthracene	1.29	UG/L	ND	ND	ND	ND	ND
Benzidine	1.52	UG/L	ND	ND	ND	ND	ND
Benzo[a]anthracene	1.1	UG/L	ND	ND	ND	ND	ND
3,4-Benzo(b)fluoranthene	1.35	UG/L	ND	ND	ND	ND	ND
Benzo[k]fluoranthene	1.49	UG/L	ND	ND	ND	ND	ND
Benzo[a]pyrene	1.25	UG/L	ND	ND	ND	ND	ND
Benzo[g,h,i]perylene	1.09	UG/L	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	1.4	UG/L	ND	ND	ND	ND	ND
Bis-(2-chloroethoxy) methane	1.01	UG/L	ND	ND	ND	ND	ND
Bis-(2-chloroethyl) ether	1.38	UG/L	ND	ND	ND	ND	ND
Bis-(2-chloroisopropyl) ether	1.16	UG/L	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	1.57	UG/L	ND	ND	ND	ND	ND
2-Chloronaphthalene	1.87	UG/L	ND	ND	ND	ND	ND
Chrysene	1.16	UG/L	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	1.01	UG/L	ND	ND	ND	ND	ND
Butyl benzyl phthalate	2.84	UG/L	ND	ND	ND	ND	ND
Di-n-butyl phthalate	3.96	UG/L	ND	ND	ND	ND	ND
Bis-(2-ethylhexyl) phthalate	8.96	UG/L	ND	ND	ND	ND	ND
Diethyl phthalate	3.05	UG/L	ND	ND	ND	ND	ND
Dimethyl phthalate	1.44	UG/L	ND	ND	ND	ND	ND
Di-n-octyl phthalate	1	UG/L	ND	ND	ND	ND	ND
3,3-Dichlorobenzidine	2.44	UG/L	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	1.36	UG/L	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	1.53	UG/L	ND	ND	ND	ND	ND
1,2-Diphenylhydrazine	1.37	UG/L	ND	ND	ND	ND	ND
Fluoranthene	1.33	UG/L	ND	ND	ND	ND	ND
Fluorene	1.61	UG/L	ND	ND	ND	ND	ND
Hexachlorobenzene	1.48	UG/L	ND	ND	ND	ND	ND
Hexachlorobutadiene	1.64	UG/L	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	1.25	UG/L	ND	ND	ND	ND	ND
Hexachloroethane	1.32	UG/L	ND	ND	ND	ND	ND
Indeno(1,2,3-CD)pyrene	1.14	UG/L	ND	ND	ND	ND	ND
Isophorone	1.53	UG/L	ND	ND	ND	ND	ND
Naphthalene	1.65	UG/L	ND	ND	ND	ND	ND
Nitrobenzene	1.6	UG/L	ND	ND	ND	ND	ND
N-nitrosodimethylamine	1.27	UG/L	ND	ND	ND	ND	ND
N-nitrosodi-n-propylamine	1.16	UG/L	ND	ND	ND	ND	ND
N-nitrosodiphenylamine	3.48	UG/L	ND	ND	ND	ND	ND
Phenanthrene	1.34	UG/L	ND	ND	ND	ND	ND
Pyrene	1.43	UG/L	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	1.52	UG/L	ND	ND	ND	ND	ND
Polynuc. Aromatic Hydrocarbons	1.77	UG/L	0.0	0.0	0.0	0.0	0.0
Base/Neutral Compounds	8.96	UG/L	0.0	0.0	0.0	0.0	0.0
Benzo[e]pyrene	1.44	UG/L	ND	ND	ND	ND	ND
Biphenyl	2.29	UG/L	ND	ND	ND	ND	ND
2,6-Dimethylnaphthalene	2.16	UG/L	ND	ND	ND	ND	ND
1-Methylnaphthalene	2.18	UG/L	ND	ND	ND	ND	ND
1-Methylphenanthrene	1.46	UG/L	ND	ND	ND	ND	ND
2-Methylnaphthalene	2.14	UG/L	ND	ND	ND	ND	ND
2,3,5-Trimethylnaphthalene	2.18	UG/L	ND	ND	ND	ND	ND
Perylene	1.41	UG/L	ND	ND	ND	ND	ND

ND=not detected

SOUTH BAY WATER RECLAMATION PLANT
ANNUAL SEWAGE: COMBINED EFFLUENT

Tributyl Tin Analysis

Annual 2011

Source: SB_ITP_COMB_EFF

Analyte	MDL	Units	FEB	MAY	AUG	OCT	Avg
Dibutyltin	7	UG/L	ND	ND	ND	ND	ND
Monobutyltin	16	UG/L	ND	ND	ND	ND	ND
Tributyltin	2	UG/L	ND	ND	ND	ND	ND

ND=not detected

SOUTH BAY WATER RECLAMATION PLANT
SEWAGE ANNUAL: COMBINED EFFLUENT

Priority Pollutants Purgeables

Annual 2011

Source: SB_ITP_COMB_EFF

Analyte	MDL	Units	FEB	MAY	AUG	OCT	Avg
Dichlorodifluoromethane	.66	UG/L	ND	ND	ND	ND	ND
Chloromethane	.5	UG/L	ND	ND	ND	ND	ND
Vinyl chloride	.4	UG/L	ND	ND	ND	ND	ND
Bromomethane	.7	UG/L	ND	ND	ND	ND	ND
Chloroethane	.9	UG/L	ND	ND	ND	ND	ND
Trichlorofluoromethane	.3	UG/L	ND	ND	ND	ND	ND
Acrolein	1.3	UG/L	ND	ND	ND	ND	ND
1,1-Dichloroethane	.4	UG/L	ND	ND	ND	ND	ND
Methylene chloride	.3	UG/L	1.0	0.4	ND	ND	0.4
trans-1,2-dichloroethene	.6	UG/L	ND	ND	ND	ND	ND
1,1-Dichloroethene	.4	UG/L	ND	ND	ND	ND	ND
Acrylonitrile	.7	UG/L	ND	ND	ND	ND	ND
Chloroform	.2	UG/L	3.1	2.6	0.8	0.5	1.8
1,1,1-Trichloroethane	.4	UG/L	ND	ND	ND	ND	ND
Carbon tetrachloride	.4	UG/L	ND	ND	ND	ND	ND
Benzene	.4	UG/L	ND	ND	ND	ND	ND
1,2-Dichloroethane	.5	UG/L	ND	ND	ND	ND	ND
Trichloroethene	.7	UG/L	ND	ND	ND	ND	ND
1,2-Dichloropropane	.3	UG/L	ND	ND	ND	ND	ND
Bromodichloromethane	.5	UG/L	ND	ND	ND	ND	ND
2-Chloroethylvinyl ether	1.1	UG/L	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	.3	UG/L	ND	ND	ND	ND	ND
Toluene	.4	UG/L	ND	4.2	3.6	1.9	2.4
trans-1,3-dichloropropene	.5	UG/L	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	.5	UG/L	ND	ND	ND	ND	ND
Tetrachloroethene	1.1	UG/L	ND	ND	ND	ND	ND
Dibromochloromethane	.6	UG/L	1.0	ND	ND	ND	0.3
Chlorobenzene	.4	UG/L	ND	ND	ND	ND	ND
Ethylbenzene	.3	UG/L	ND	ND	ND	ND	ND
Bromoform	.5	UG/L	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	.5	UG/L	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	.5	UG/L	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	.4	UG/L	2.4	1.3	1.6*	1.4	1.7
1,2-Dichlorobenzene	.4	UG/L	ND	ND	ND	ND	ND
Halomethane Purgeable Cmpnds	.7	UG/L	0.0	0.0	0.0	0.0	0.0
Dichlorobenzenes	.5	UG/L	0.0	0.0	0.0	0.0	0.0
Total Chloromethanes	.5	UG/L	4.1	3.0	0.8	0.5	2.1
Purgeable Compounds	1.3	UG/L	7.5	8.5	4.4	3.8	6.1
Methyl Iodide	.6	UG/L	ND	ND	ND	ND	ND
Carbon disulfide	.6	UG/L	ND	ND	ND	ND	ND
Acetone	4.5	UG/L	ND	ND	ND	ND	ND
Allyl chloride	.6	UG/L	ND	ND	ND	ND	ND
Methyl tert-butyl ether	.4	UG/L	ND	ND	ND	ND	ND
Chloroprene	.4	UG/L	ND	ND	ND	ND	ND
1,2-Dibromoethane	.3	UG/L	ND	ND	ND	ND	ND
2-Butanone	6.3	UG/L	ND	ND	ND	ND	ND
Methyl methacrylate	.8	UG/L	ND	ND	ND	ND	ND
2-Nitropropane	12	UG/L	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	1.3	UG/L	ND	ND	ND	ND	ND
meta,para xylenes	.6	UG/L	ND	ND	ND	ND	ND
ortho-xylene	.4	UG/L	ND	ND	ND	ND	ND
Isopropylbenzene	.3	UG/L	ND	ND	ND	ND	ND
Styrene	.3	UG/L	ND	ND	ND	ND	ND
Benzyl chloride	1.1	UG/L	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	1.52	UG/L	ND	ND	ND	ND	ND

* = The blank in this batch was 0.55 UG/L, result above the MDL.

ND=not detected

SOUTH BAY WATER RECLAMATION PLANT
Organophosphorus Pesticides
COMBINED OUTFALL (SB_ITP_COMB_EFF)

Annual 2011

Analyte:	MDL	Units	03-MAY-2011 P558047	04-OCT-2011 P584736
Demeton O	.15	UG/L	ND	ND
Demeton S	.08	UG/L	ND	ND
Diazinon	.03	UG/L	ND	0.1
Guthion	.15	UG/L	ND	ND
Malathion	.03	UG/L	ND	ND
Parathion	.03	UG/L	ND	ND
Dichlorvos	.05	UG/L	ND	ND
Disulfoton	.02	UG/L	ND	ND
Dimethoate	.04	UG/L	ND	ND
Stirophos	.03	UG/L	ND	ND
Coumaphos	.15	UG/L	ND	ND
Chlorpyrifos	.03	UG/L	ND	ND
Thiophosphorus Pesticides	.15	UG/L	0.0	0.0
Demeton -O, -S	.15	UG/L	0.0	0.0
Total Organophosphorus Pesticides	.15	UG/L	0.0	0.1

ND=not detected

SOUTH BAY WATER RECLAMATION PLANT
COMBINED OUTFALL

Annual Sewage Dioxin and Furan Analysis

Annual 2011

Analyte:	MDL	Units	Equiv	COMB EFF FEB P549349	COMB EFF MAY P558047	COMB EFF AUG P564991	COMB EFF OCT P584736
2,3,7,8-tetra CDD	125	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	123	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	113	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	98	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	111	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	137	PG/L	0.010	ND	ND	ND	ND
octa CDD	247	PG/L	0.001	ND	ND	ND	DNQ19.7
2,3,7,8-tetra CDF	115	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	140	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	118	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	147	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	107	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	152	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	148	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	90	PG/L	0.010	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	166	PG/L	0.010	ND	ND	ND	ND
octa CDF	222	PG/L	0.001	ND	ND	ND	ND

Analyte:	MDL	Units	Equiv	COMB EFF TCCD FEB P549349	COMB EFF TCCD MAY P558047	COMB EFF TCCD AUG P564991	COMB EFF TCCD OCT P584736
2,3,7,8-tetra CDD	125	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	123	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	113	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	98	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	111	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	137	PG/L	0.010	ND	ND	ND	ND
octa CDD	247	PG/L	0.001	ND	ND	ND	DNQ0.02
2,3,7,8-tetra CDF	115	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	140	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	118	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	147	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	107	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	152	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	148	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	90	PG/L	0.010	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	166	PG/L	0.010	ND	ND	ND	ND
octa CDF	222	PG/L	0.001	ND	ND	ND	ND

ND= not detected

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