

VII. Reclaimed Water Data Summary.

The results of all analyses performed on Reclaimed water are summarized in tables with monthly and annual averages (and in some cases annual totals) calculated. Graphs of monthly averages are presented.

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- B. Reclaimed Water Graphs
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## A. Reclaimed Water Data Summaries

The results of all analyses performed on the SBWRP Reclaimed are summarized in tables with monthly and annual averages (and in some cases annual totals) calculated.

South Bay Water Reclamation Plant  
Annual Recycled Water Turbidity Report - 2011

Data from in-plant meter 4

Date	Average Daily Turbidity (NTU)	Minimum Daily 1 Turbidity (NTU)	Maximum Daily 2 Turbidity (NTU)	Time over 3 5 ntu's (minutes)
Jan	0.69	0.55	1.20	0
Feb	0.81	0.59	1.15	0
Mar	0.65	0.35	1.72	0
Apr	0.73	0.51	1.18	0
May	0.52	0.30	1.17	0
Jun	0.48	0.27	0.87	0
Jul	0.30	0.14	0.92	0
Aug	0.62	0.40	1.07	0
Sep	0.64	0.43	1.19	0
Oct	0.41	0.27	0.69	0
Nov	0.19	0.13	0.30	0
Dec	0.61	0.39	1.23	0.01
Average:	0.55			

1 Minimum Daily value is the average recorded for the month.

2 Maximum Daily value is the average recorded value for the month.

3 Total time for the month.

4 Compliance monitoring point, values taken from the DCS Point (S29AI0203), located at the UV Vault in Area 29 (Tertiary UV Disinfection System)

SOUTH BAY WATER RECLAMATION PLANT

Annual 2011

Reclaim Water  
(SB\_REC\_WATER\_34)

Analyte: Units:	Flow (mgd)	pH	Biochemical Oxygen Demand (mg/L)	Total Suspended Solids (mg/L)	Volatile Suspended Solids (mg/L)	Total Dissolved Solids (mg/L)	Turbidity* (NTU)
JANUARY -2011	1.01	7.43	5.1	2.3	<1.6	988	1.14
FEBRUARY -2011	1.47	7.34	3.3	1.8	<1.6	886	1.69
MARCH -2011	0.84	7.35	2.7	1.5	<1.6	950	0.99
APRIL -2011	2.94	7.37	2.6	<1.4	<1.6	939	1.31
MAY -2011	4.27	7.39	2.1	1.4	<1.6	971	1.37
JUNE -2011	5.32	7.49	4.4	<1.4	<1.6	982	NR
JULY -2011	5.67	7.45	4.6	<1.4	<1.6	971	NR
AUGUST -2011	6.24	7.43	<2.0	<1.4	<1.6	990	0.96
SEPTEMBER -2011	5.44	7.40	2.0	<1.4	<1.6	929	1.21
OCTOBER -2011	4.27	7.38	2.2	<1.4	<1.6	847	1.41
NOVEMBER -2011	0.78	7.34	<2.0	<1.4	<1.6	902	NR
DECEMBER -2011	0.33	7.34	<2.0	<1.4	<1.6	897	NR
Average	3.22	7.39	2.4	0.6	<1.6	938	1.26

\*= Not for compliance monitoring  
ND=not detected; NR=not required

SOUTH BAY WATER RECLAMATION PLANT  
SB\_REC\_WATER\_34 Reclaimed Water- Annual Averages

Annual 2011

Source:	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron
MDL:	47	2.9	.4	.039	.022	7
Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
=====	=====	=====	=====	=====	=====	=====
JANUARY -2011	NR	NR	NR	NR	NR	260
FEBRUARY -2011	463	ND	1.16	46.0	0.03	328
MARCH -2011	NR	NR	NR	NR	NR	289
APRIL -2011	NR	NR	NR	NR	NR	313
MAY -2011	129	ND	0.90	51.7	ND	219
JUNE -2011	NR	NR	NR	NR	NR	244
JULY -2011	NR	NR	NR	NR	NR	327
AUGUST -2011	ND	3.4	0.52	45.3	ND	333
SEPTEMBER-2011	NR	NR	NR	NR	NR	259
OCTOBER -2011	223	ND	1.04	38.3	ND	325
NOVEMBER -2011	NR	NR	NR	NR	NR	141
DECEMBER -2011	NR	NR	NR	NR	NR	300
=====	=====	=====	=====	=====	=====	=====
Annual Average:	204	0.9	0.91	45.3	0.003	278

Source:	Cadmium	Chromium	Copper	Iron	Manganese	Mercury
MDL:	.53	1.2	2	37	.24	.005
Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
=====	=====	=====	=====	=====	=====	=====
JANUARY -2011	NR	NR	NR	51	28.7	NR
FEBRUARY -2011	ND	ND	10.2	64	33.4	ND
MARCH -2011	NR	NR	NR	65	15.4	NR
APRIL -2011	NR	NR	NR	43	23.5	NR
MAY -2011	ND	ND	9.6	ND	24.2	ND
JUNE -2011	NR	NR	NR	ND	24.0	NR
JULY -2011	NR	NR	NR	40	27.9	ND
AUGUST -2011	ND	ND	5.7	ND	13.7	ND
SEPTEMBER-2011	NR	NR	NR	ND	21.3	ND
OCTOBER -2011	ND	1.50	6.7	43	14.4	ND
NOVEMBER -2011	NR	NR	NR	ND	23.4	NR
DECEMBER -2011	NR	NR	NR	ND	34.9	NR
=====	=====	=====	=====	=====	=====	=====
Annual Average:	ND	0.38	8.1	26	23.7	ND

Source:	Nickel	Selenium	Thallium	Chloride	Fluoride	Sulfate
MDL:	.53	.28	3.9	7	.05	9
Units:	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L
=====	=====	=====	=====	=====	=====	=====
JANUARY -2011	NR	NR	NR	280	0.59	201
FEBRUARY -2011	4.55	0.63	ND	244	0.50	174
MARCH -2011	NR	NR	NR	262	0.63	177
APRIL -2011	NR	NR	NR	245	0.71	183
MAY -2011	5.47	0.60	ND	254	0.67	184
JUNE -2011	NR	NR	NR	236	0.72	167
JULY -2011	NR	NR	NR	251	0.72	163
AUGUST -2011	2.94	0.36	ND	249	0.72	159
SEPTEMBER-2011	NR	NR	NR	243	0.63	146
OCTOBER -2011	6.48	ND	ND	226	0.66	139
NOVEMBER -2011	NR	NR	NR	222	0.62	124
DECEMBER -2011	NR	NR	NR	242	0.67	139
=====	=====	=====	=====	=====	=====	=====
Annual Average:	4.86	0.40	ND	246	0.65	163

ND= Not Detected  
NR= Not Required

SOUTH BAY WATER RECLAMATION PLANT  
SB\_REC\_WATER\_34 Reclaimed Water- Annual Averages

Annual 2011

Source:	Total Cyanides (surfactants)	MBAS	Percent Sodium Calculated %	Calcium	Magnesium	Potassium
MDL:	.002	.03		.04	.1	.3
Units:	MG/L	MG/L		MG/L	MG/L	MG/L
JANUARY -2011	NR	0.07	55.4	78.1	36.2	18.7
FEBRUARY -2011	0.0026	0.19	56.2	67.1	28.2	17.2
MARCH -2011	NR	0.22	56.7	63.7	28.3	15.9
APRIL -2011	NR	0.11	55.4	64.1	25.5	16.1
MAY -2011	0.0029	0.21	51.0	79.8	37.5	13.2
JUNE -2011	NR	0.21	57.4	65.1	27.7	18.2
JULY -2011	NR	0.16	58.4	60.3	26.3	16.9
AUGUST -2011	0.0033	0.15	56.8	65.7	30.6	17.8
SEPTEMBER -2011	NR	0.28	57.9	57.7	29.3	18.2
OCTOBER -2011	0.0027	0.14	57.9	62.6	30.1	18.8
NOVEMBER -2011	NR	0.15	62.4	49.6	21.0	16.9
DECEMBER -2011	NR	0.10	58.5	60.0	26.6	18.1
Annual Average:	0.0029	0.17	57.0	64.5	28.9	17.2

Source:	Sodium	Calcium Hardness	Magnesium Hardness	Total Hardness	Total Dissolved Solids	Lithium
MDL:	1	.04	.1	.1	28	.002
Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
JANUARY -2011	210	195	148	343	988	0.03
FEBRUARY -2011	180	168	116	284	886	0.03
MARCH -2011	178	159	116	275	950	0.02
APRIL -2011	163	160	105	265	939	0.03
MAY -2011	177	200	154	354	971	0.04
JUNE -2011	186	163	114	277	982	0.03
JULY -2011	181	151	108	259	971	0.03
AUGUST -2011	189	164	125	289	990	0.02
SEPTEMBER -2011	182	144	120	264	929	0.02
OCTOBER -2011	192	157	123	280	847	0.02
NOVEMBER -2011	177	124	86	210	902	0.02
DECEMBER -2011	183	150	109	259	897	0.02
Annual Average:	183	161	119	280	938	0.03

Source:	Cobalt	Molybdenum	Vanadium	Nitrate	Ortho Phosphat	Total Alkalinity (bicarbonate)
MDL:	.85	.89	.64	.04	.2	20
Units:	UG/L	UG/L	UG/L	MG/L	MG/L	MG/L
JANUARY -2011	NR	NR	NR	16.3	6.68	202
FEBRUARY -2011	ND	3.27	ND	18.3	5.75	178
MARCH -2011	NR	NR	NR	16.2	6.58	171
APRIL -2011	NR	NR	NR	21.7	7.30	169
MAY -2011	ND	3.53	0.76	27.4	6.79	176
JUNE -2011	NR	NR	NR	16.5	4.86	197
JULY -2011	NR	NR	NR	25.9	2.00	202
AUGUST -2011	ND	3.28	1.30	36.0	4.14	156
SEPTEMBER -2011	NR	NR	NR	27.8	4.90	156
OCTOBER -2011	ND	2.76	ND	33.2	5.78	160
NOVEMBER -2011	NR	NR	NR	32.0	6.08	141
DECEMBER -2011	NR	NR	NR	33.0	4.48	151
Annual Average:	ND	3.21	0.52	25.4	5.45	172

ND= Not Detected  
NR= Not Required

SOUTH BAY WATER RECLAMATION PLANT  
Reclaimed Water

Annual 2011

Source:		SB_REC_WATER_34	SB_REC_WATER_34	SB_REC_WATER_34	SB_REC_WATER_34
Date:		01-FEB-2011	03-MAY-2011	02-AUG-2011	04-OCT-2011
Sample ID:	MDL Units	P549375	P558071	P565017	P584760
Aluminum	47 UG/L	463	129	ND	223
Antimony	2.9 UG/L	ND	ND	3.0	ND
Arsenic	.4 UG/L	1.16	0.90	0.52	1.04
Barium	.039 UG/L	46	52	45	38
Beryllium	.022 UG/L	0.03	ND	ND	ND
Boron	7 UG/L	328	219	333	325
Cadmium	.53 UG/L	ND	ND	ND	ND
Chromium	1.2 UG/L	ND	ND	ND	1.50
Cobalt	.85 UG/L	ND	ND	ND	ND
Copper	2 UG/L	10	10	6	7
Iron	37 UG/L	64	ND	ND	43
Lead	2 UG/L	ND	ND	ND	ND
Manganese	.24 UG/L	33.4	24.2	13.7	14.4
Mercury	.005 UG/L	ND	ND	ND	NA
Molybdenum	.89 UG/L	3.27	3.53	3.28	2.76
Nickel	.53 UG/L	4.55	5.47	2.94	6.48
Selenium	.28 UG/L	0.63	0.60	0.36	ND
Silver	.4 UG/L	ND	ND	ND	ND
Thallium	3.9 UG/L	ND	ND	ND	ND
Vanadium	.64 UG/L	ND	0.76	1.30	ND
Zinc	2.5 UG/L	22	28	27	30
Bromide	.1 MG/L	0.40	0.44	0.42	0.44
Chloride	7 MG/L	238	260	246	246
Fluoride	.05 MG/L	0.54	0.67	0.70	0.71
Nitrate	.04 MG/L	14.9	24.3	38.8	32.8
Ortho Phosphate	.2 MG/L	5.7	6.7	1.1	5.9
Sulfate	9 MG/L	182	185	162	147
Calcium	.04 MG/L	67	80	66	63
Lithium	.002 MG/L	0.03	0.04	0.02	0.02
Magnesium	.1 MG/L	28	38	31	30
Potassium	.3 MG/L	17	13	18	19
Sodium	1 MG/L	180	177	189	192
Calcium Hardness	.1 MG/L	168	199	164	156
Magnesium Hardness	.4 MG/L	116	154	126	124
Total Hardness	.4 MG/L	284	354	290	280
Cyanides, Total	.002 MG/L	0.003	0.003	0.003	0.003
Sulfides-Total	.18 MG/L	0.33	ND	ND	ND
Total Kjeldahl Nitrogen	1.6 MG/L	1.9	ND	1.9	2.3
Ammonia-N	.3 MG/L	3.8	0.6	ND	ND
Adjusted Sodium Adsorption	MG/L	4.6	4.6	4.8	5.2
Percent Sodium	PERCENT	56.2	51.0	56.8	57.9
Total Organic Carbon	MG/L	11.4	9.9	11.2	9.6

ND= Not Detected  
NR= Not Required

SOUTH BAY WATER RECLAMATION PLANT  
QUARTERLY SLUDGE PROJECT

Radioactivity

Annual 2011

Source	Sample Date	Sample ID	Gross Alpha Radiation	Gross Beta Radiation
=====	=====	=====	=====	=====
SB_REC_WATER_34	01-FEB-2011	P549375	2.2 ± 1.9	20.8 ± 5.2
SB_REC_WATER_34	03-MAY-2011	P558071	3.0 ± 2.0	20.5 ± 4.7
SB_REC_WATER_34	02-AUG-2011	P565017	1.7 ± 1.7	17.3 ± 4.1
SB_REC_WATER_34	04-OCT-2011	P584760	0.0 ± 4.4	19.1 ± 4.7

Units in picocuries per Liter (pCi/L)



South Bay Water Reclamation Plant  
Reclaimed Water

Annual 2011

Chlorinated Pesticides

Source:			REC_WATER	REC_WATER	REC_WATER	REC_WATER
Date:			01-FEB-2011	03-MAY-2011	02-AUG-2011	06-OCT-2011
Analyte	MDL	Units	P549375	P558071	P565017	P586994
=====						
Aldrin	7	NG/L	ND	ND	ND	ND
BHC, Alpha isomer	7	NG/L	ND	ND	ND	ND
BHC, Beta isomer	3	NG/L	ND	ND	ND	ND
BHC, Delta isomer	3	NG/L	ND	ND	ND	ND
BHC, Gamma isomer	5	NG/L	ND	ND	ND	ND
Alpha (cis) Chlordane	3	NG/L	ND	ND	ND	ND
Gamma (trans) Chlordane	4	NG/L	ND	ND	ND	ND
Alpha Chlordene		NG/L	NA	NA	NA	NA
Gamma Chlordene		NG/L	NA	NA	NA	NA
Cis Nonachlor	3	NG/L	ND	ND	ND	ND
Dieldrin	3	NG/L	ND	ND	ND	ND
Endosulfan Sulfate	6	NG/L	ND	ND	ND	ND
Alpha Endosulfan	4	NG/L	ND	ND	ND	ND
Beta Endosulfan	2	NG/L	ND	ND	ND	ND
Endrin	2	NG/L	ND	ND	ND	ND
Endrin aldehyde	9	NG/L	ND	ND	ND	ND
Heptachlor	8	NG/L	ND	ND	ND	ND
Heptachlor epoxide	4	NG/L	ND	ND	ND	ND
Methoxychlor	10	NG/L	ND	ND	ND	ND
Mirex	10	NG/L	ND	ND	ND	ND
o,p-DDD	4	NG/L	ND	ND	ND	ND
o,p-DDE	5	NG/L	ND	ND	ND	ND
o,p-DDT	3	NG/L	ND	ND	ND	ND
Oxychlordane	6	NG/L	ND	ND	ND	ND
PCB 1016	4000	NG/L	ND	ND	ND	ND
PCB 1221	4000	NG/L	ND	ND	ND	ND
PCB 1232	360	NG/L	ND	ND	ND	ND
PCB 1242	4000	NG/L	ND	ND	ND	ND
PCB 1248	2000	NG/L	ND	ND	ND	ND
PCB 1254	2000	NG/L	ND	ND	ND	ND
PCB 1260	2000	NG/L	ND	ND	ND	ND
PCB 1262	930	NG/L	ND	ND	ND	ND
p,p-DDD	3	NG/L	ND	ND	ND	ND
p,p-DDE	4	NG/L	ND	ND	ND	ND
p,p-DDT	8	NG/L	ND	ND	ND	ND
Toxaphene	330	NG/L	ND	ND	ND	ND
Trans Nonachlor	5	NG/L	ND	ND	ND	ND
=====						
Heptachlors	8	NG/L	0	0	0	0
Endosulfans	6	NG/L	0	0	0	0
Polychlorinated biphenyls	4000	NG/L	0	0	0	0
Chlordane + related cmpds.	6	NG/L	0	0	0	0
DDT and derivatives	8	NG/L	0	0	0	0
Hexachlorocyclohexanes	7	NG/L	0	0	0	0
Aldrin + Dieldrin	7	NG/L	0	0	0	0
=====						
Chlorinated Hydrocarbons	4000	NG/L	0	0	0	0

ND= Not Detected

NA= Standards for alpha and gamma chlordene are no longer available in the U.S. for the analysis of these compounds.

South Bay Water Reclamation Plant  
Reclaimed Water  
OrganoPhosphorous

Annual 2011

Source:		REC_WATER	REC_WATER
Date:		03-MAY-2011	06-OCT-2011
Analyte	MDL Units	P558071	P586994
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
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	0.0

ND= Not Detected

South Bay Water Reclamation Plant  
 Reclaimed Water  
 Organotins  
 Annual 2011

Source:		SB_REC_WATER_34	SB_REC_WATER_34	SB_REC_WATER_34	SB_REC_WATER_34
Date:		01-FEB-2011	03-MAY-2011	02-AUG-2011	06-OCT-2011
Analyte	MDL Units	P549375	P558071	P565017	P586994
=====	====	=====	=====	=====	=====
Tributyltin	2 UG/L	ND	ND	ND	ND
Dibutyltin	7 UG/L	ND	ND	ND	ND
Monobutyltin	16 UG/L	ND	ND	ND	ND

ND= Not Detected

South Bay Water Reclamation Plant  
Reclaimed Water  
Phenols

Annual 2011

Source:		REC_WATER	REC_WATER	REC_WATER	REC_WATER
Date:		01-FEB-2011	03-MAY-2011	02-AUG-2011	06-OCT-2011
Analyte	MDL Units	P549375	P558071	P565017	P586994
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	ND	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	ND	ND	ND	ND
2,4,6-Trichlorophenol	1.65 UG/L	ND	ND	ND	ND
<b>Total Chlorinated Phenols</b>	<b>1.67 UG/L</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>Total Non-Chlorinated Phenols</b>	<b>2.16 UG/L</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>Total Phenols</b>	<b>2.16 UG/L</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
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	ND	ND	ND	ND
2,4,5-Trichlorophenol	1.66 UG/L	ND	ND	ND	ND

ND= not detected  
NA= not analyzed

South Bay Water Reclamation Plant

Base/Neutrals

Annual 2011

Source:			REC_WATER	REC_WATER	REC_WATER	REC_WATER
Date:			01-FEB-2011	03-MAY-2011	02-AUG-2011	06-OCT-2011
Analyte	MDL	Units	P549375	P558071	P565017	P586994
=====						
Acenaphthene	1.8	UG/L	ND	ND	ND	ND
Acenaphthylene	1.77	UG/L	ND	ND	ND	ND
Anthracene	1.29	UG/L	ND	ND	ND	ND
Benzidine	1.52	UG/L	ND	ND	ND	ND
Benzo[a]anthracene	1.1	UG/L	ND	ND	ND	ND
3,4-Benzo(b)fluoranthene	1.35	UG/L	ND	ND	ND	ND
Benzo[k]fluoranthene	1.49	UG/L	ND	ND	ND	ND
Benzo[a]pyrene	1.25	UG/L	ND	ND	ND	ND
Benzo[g,h,i]perylene	1.09	UG/L	ND	ND	ND	ND
4-Bromophenyl phenyl ether	1.4	UG/L	ND	ND	ND	ND
Bis-(2-chloroethoxy) methane	1.01	UG/L	ND	ND	ND	ND
Bis-(2-chloroethyl) ether	1.38	UG/L	ND	ND	ND	ND
Bis-(2-chloroisopropyl) ether	1.16	UG/L	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	1.57	UG/L	ND	ND	ND	ND
2-Chloronaphthalene	1.87	UG/L	ND	ND	ND	ND
Chrysene	1.16	UG/L	ND	ND	ND	ND
Dibenzo(a,h)anthracene	1.01	UG/L	ND	ND	ND	ND
Butyl benzyl phthalate	2.84	UG/L	ND	ND	ND	ND
Di-n-butyl phthalate	3.96	UG/L	ND	ND	ND	ND
Bis-(2-ethylhexyl) phthalate	8.96	UG/L	ND	ND	14.1	ND
Diethyl phthalate	3.05	UG/L	ND	ND	ND	ND
Dimethyl phthalate	1.44	UG/L	ND	ND	ND	ND
Di-n-octyl phthalate	1	UG/L	ND	ND	ND	ND
3,3-Dichlorobenzidine	2.44	UG/L	ND	ND	ND	ND
2,4-Dinitrotoluene	1.36	UG/L	ND	ND	ND	ND
2,6-Dinitrotoluene	1.53	UG/L	ND	ND	ND	ND
1,2-Diphenylhydrazine	1.37	UG/L	ND	ND	ND	ND
Fluoranthene	1.33	UG/L	ND	ND	ND	ND
Fluorene	1.61	UG/L	ND	ND	ND	ND
Hexachlorobenzene	1.48	UG/L	ND	ND	ND	ND
Hexachlorobutadiene	1.64	UG/L	ND	ND	ND	ND
Hexachlorocyclopentadiene	1.25	UG/L	ND	ND	ND	ND
Hexachloroethane	1.32	UG/L	ND	ND	ND	ND
Indeno(1,2,3-CD)pyrene	1.14	UG/L	ND	ND	ND	ND
Isophorone	1.53	UG/L	ND	ND	ND	ND
Naphthalene	1.65	UG/L	ND	ND	ND	ND
Nitrobenzene	1.6	UG/L	ND	ND	ND	ND
N-nitrosodimethylamine	1.27	UG/L	ND	ND	ND	ND
N-nitrosodi-n-propylamine	1.16	UG/L	ND	ND	ND	ND
N-nitrosodiphenylamine	3.48	UG/L	ND	ND	ND	ND
Phenanthrene	1.34	UG/L	ND	ND	ND	ND
Pyrene	1.43	UG/L	ND	ND	ND	ND
1,2,4-Trichlorobenzene	1.52	UG/L	ND	ND	ND	ND
=====						
Polynuc. Aromatic Hydrocarbons	1.77	UG/L	0.0	0.0	0.0	0.0
=====						
Base/Neutral Compounds	8.96	UG/L	0.0	0.0	14.1	0.0
=====						
Benzo[e]pyrene	1.44	UG/L	ND	ND	ND	ND
Biphenyl	2.29	UG/L	ND	ND	ND	ND
2,6-Dimethylnaphthalene	2.16	UG/L	ND	ND	ND	ND
1-Methylnaphthalene	2.18	UG/L	ND	ND	ND	ND
1-Methylphenanthrene	1.46	UG/L	ND	ND	ND	ND
2-Methylnaphthalene	2.14	UG/L	ND	ND	ND	ND
2,3,5-Trimethylnaphthalene	2.18	UG/L	ND	ND	ND	ND
Perylene	1.41	UG/L	ND	ND	ND	ND

ND= Not Detected

SOUTH BAY WASTEWATER TREATMENT PLANT  
Annual Priority Pollutants Purgeable Compounds, EPA Method 624 Report

Annual 2011

Source:		SB_REC_WATER_34	SB_REC_WATER_34	SB_REC_WATER_34	SB_REC_WATER_34
Date:		01-FEB-2011	03-MAY-2011	02-AUG-2011	04-OCT-2011
Analyte	MDL Units	P549378	P558074	P565020	P584763
=====					
Dichlorodifluoromethane	.66 UG/L	ND	ND	ND	ND
Chloromethane	.5 UG/L	ND	ND	ND	<0.5
Vinyl chloride	.4 UG/L	ND	ND	ND	ND
Bromomethane	.7 UG/L	ND	ND	ND	ND
Chloroethane	.9 UG/L	ND	ND	ND	ND
Trichlorofluoromethane	.3 UG/L	ND	ND	ND	ND
Acrolein	1.3 UG/L	ND	ND	ND	ND
1,1-Dichloroethane	.4 UG/L	ND	ND	ND	ND
Methylene chloride	.3 UG/L	0.6	2.0	ND	0.5
trans-1,2-dichloroethene	.6 UG/L	ND	ND	ND	ND
1,1-Dichloroethene	.4 UG/L	ND	ND	ND	ND
Acrylonitrile	.7 UG/L	ND	ND	ND	ND
Chloroform	.2 UG/L	1.2	2.4	4.3	21.5
1,1,1-Trichloroethane	.4 UG/L	ND	ND	ND	ND
Carbon tetrachloride	.4 UG/L	ND	ND	ND	ND
Benzene	.4 UG/L	ND	ND	ND	ND
1,2-Dichloroethane	.5 UG/L	ND	ND	ND	ND
Trichloroethene	.7 UG/L	ND	ND	ND	ND
1,2-Dichloropropane	.3 UG/L	ND	ND	ND	ND
Bromodichloromethane	.5 UG/L	ND	1.4	1.7	10.9
2-Chloroethylvinyl ether	1.1 UG/L	ND	ND	ND	ND
cis-1,3-dichloropropene	.3 UG/L	ND	ND	ND	ND
Toluene	.4 UG/L	ND	ND	ND	ND
trans-1,3-dichloropropene	.5 UG/L	ND	ND	ND	ND
1,1,2-Trichloroethane	.5 UG/L	ND	ND	ND	ND
Tetrachloroethene	1.1 UG/L	ND	ND	ND	ND
Dibromochloromethane	.6 UG/L	ND	0.7	0.7	12.0
Chlorobenzene	.4 UG/L	ND	ND	ND	ND
Ethylbenzene	.3 UG/L	ND	ND	ND	ND
Bromoform	.5 UG/L	ND	ND	ND	1.3
1,1,2,2-Tetrachloroethane	.5 UG/L	ND	ND	ND	ND
1,3-Dichlorobenzene	.5 UG/L	ND	ND	ND	ND
1,4-Dichlorobenzene	.4 UG/L	ND	ND	ND	ND
1,2-Dichlorobenzene	.4 UG/L	ND	ND	ND	ND
=====					
Halomethane Purgeable Cmpnds	.7 UG/L	0.0	0.0	0.0	1.3
=====					
Total Dichlorobenzenes	.5 UG/L	0.0	0.0	0.0	0.0
=====					
Total Chloromethanes	.5 UG/L	1.8	4.4	4.3	22.0
=====					
Purgeable Compounds	1.3 UG/L	1.8	6.5	6.7	46.2
Methyl Iodide	.6 UG/L	ND	ND	ND	ND
Carbon disulfide	.6 UG/L	ND	ND	ND	ND
Acetone	4.5 UG/L	ND	ND	ND	5.1
Additional analytes determined					
=====					
Allyl chloride	.6 UG/L	ND	ND	ND	ND
Methyl tert-butyl ether	.4 UG/L	ND	ND	ND	ND
Chloroprene	.4 UG/L	ND	ND	ND	ND
1,2-Dibromoethane	.3 UG/L	ND	ND	ND	ND
2-Butanone	6.3 UG/L	ND	ND	ND	ND
Methyl methacrylate	.8 UG/L	ND	ND	ND	ND
2-Nitropropane	12 UG/L	ND	ND	ND	ND
4-Methyl-2-pentanone	1.3 UG/L	ND	ND	ND	ND
meta,para xylenes	.6 UG/L	ND	ND	ND	ND
ortho-xylene	.4 UG/L	ND	ND	ND	ND
Isopropylbenzene	.3 UG/L	ND	ND	ND	ND
Styrene	.3 UG/L	ND	ND	ND	ND
Benzyl chloride	1.1 UG/L	ND	ND	ND	ND
1,2,4-Trichlorobenzene	.7 UG/L	ND	ND	ND	ND

ND= not detected

South Bay Water Reclamation Plant  
Reclaimed Water - Benzidines

Annual 2011

Source:		SB_REC_WATER_34	SB_REC_WATER_34	SB_REC_WATER_34	SB_REC_WATER_34
Date:		01-FEB-2011	03-MAY-2011	02-AUG-2011	06-OCT-2011
Analyte	MDL Units	P549375	P558071	P565017	P586994
=====	=====	=====	=====	=====	=====
3,3-Dichlorobenzidine	2.44 UG/L	ND	ND	ND	ND
Benzidine	1.52 UG/L	ND	ND	ND	ND

ND= Not Detected

## B. Reclaimed Water Graphs

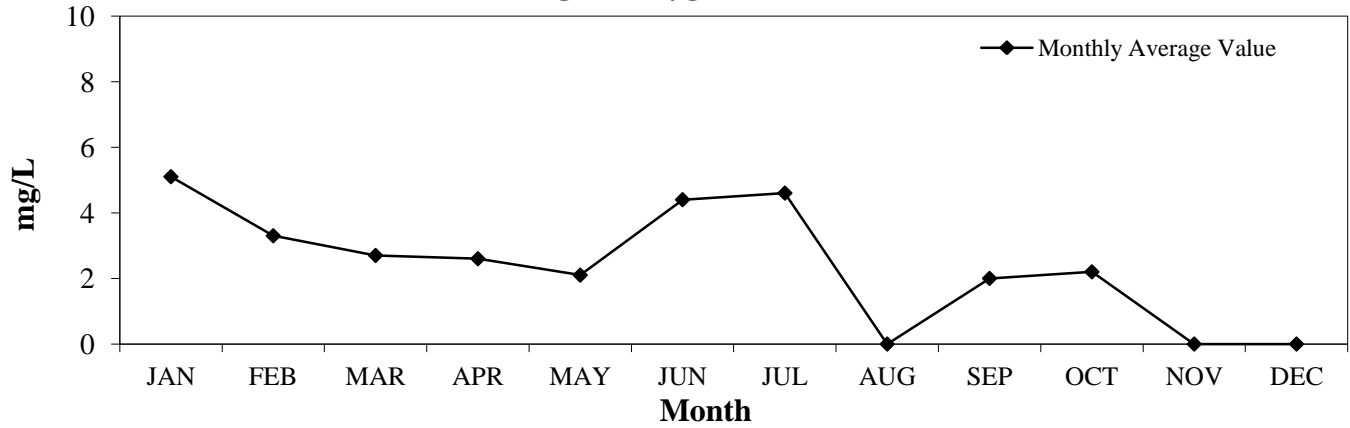
Graphs of monthly averages for permit parameters with measurable concentration averages.

Please note that many of the graphs are on expanded scales. That is, they normally don't go to zero concentrations but show, in magnified scale, that range of concentrations where variation takes place. This makes differences and some trends obvious that might normally not be noticed. However, it also provides the temptation to interpret minor changes or trends as being of more significance than they are. Frequent reference to the scales and the actual differences in concentrations is therefore necessary.

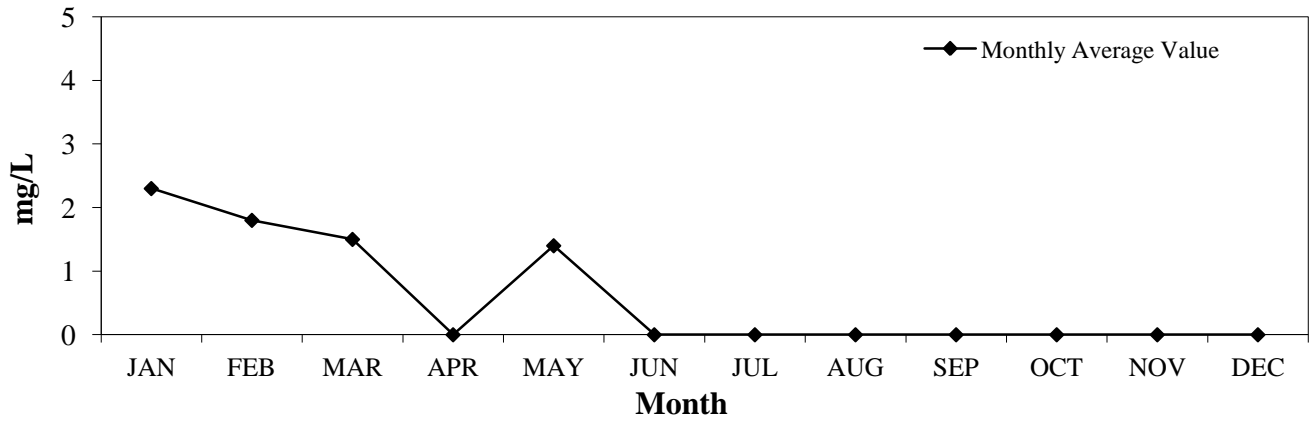


# 2011 South Bay Reclaimed Water

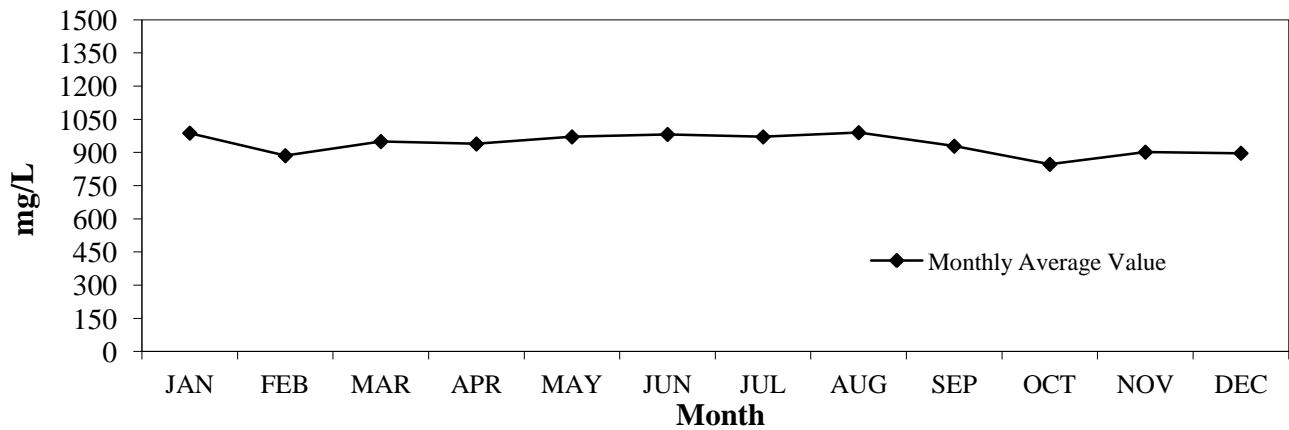
## Biological Oxygen Demand



## Total Suspended Solids

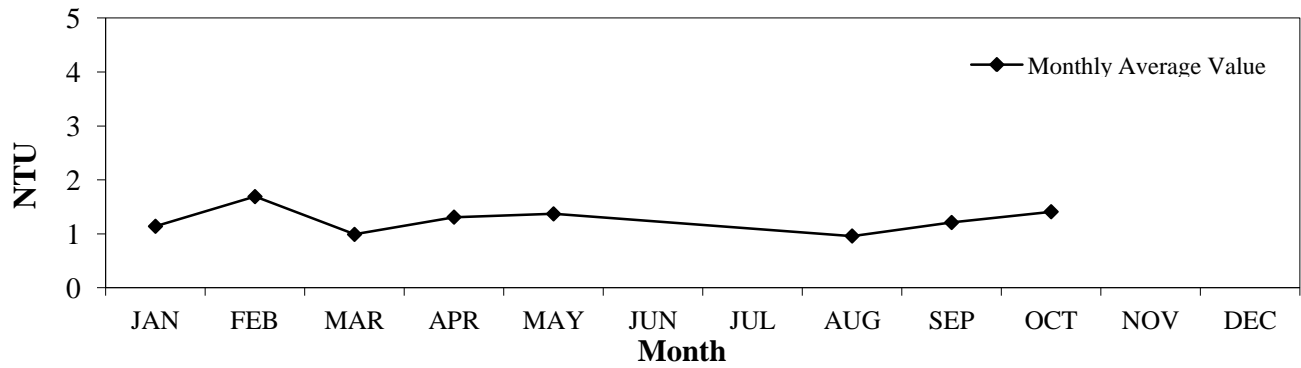


## Total Dissolved Solids



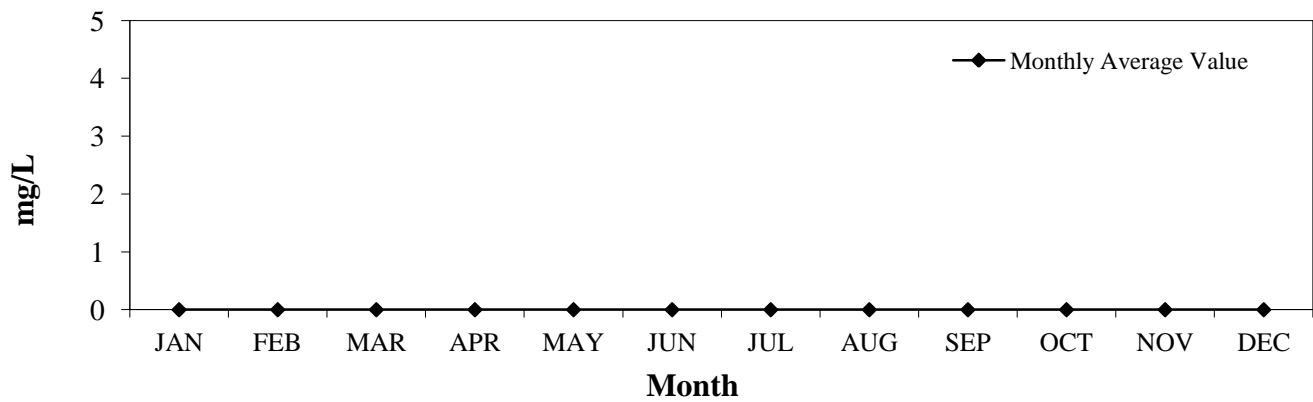
## 2011 South Bay Reclaimed Water

### Turbidity

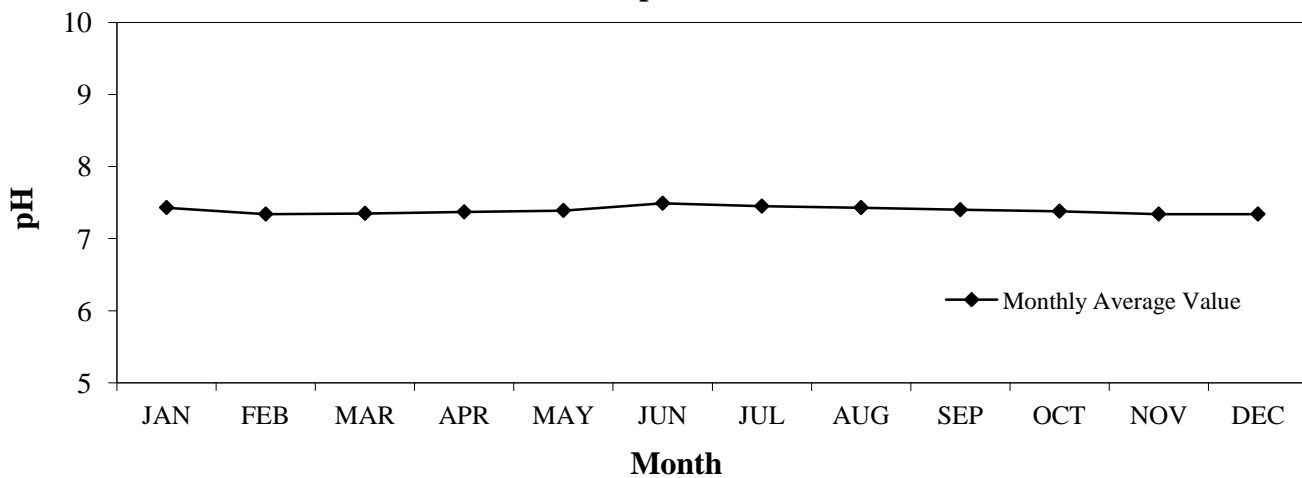


Not for reclaimed turbidity compliance, see monthly reports for compliance monitoring.

### Volatile Suspended Solids

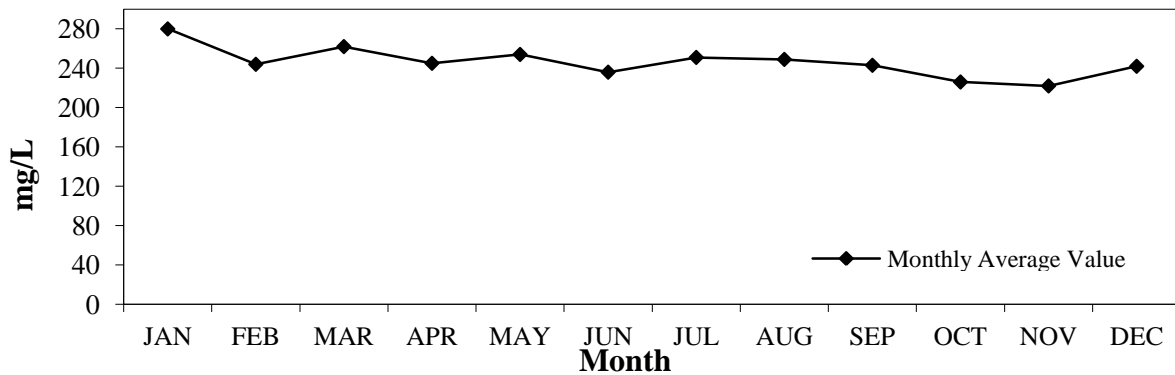


### pH

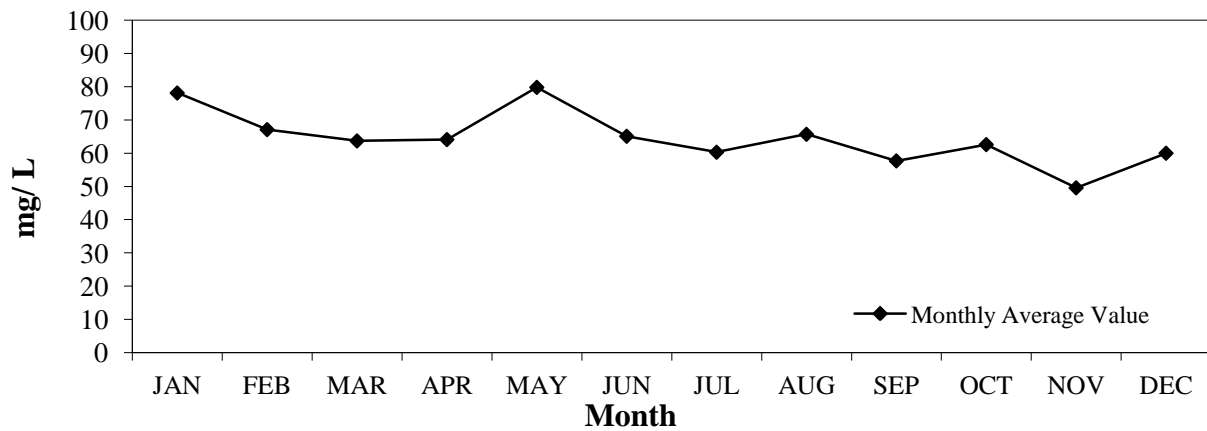


## 2011 South Bay Reclaimed Water

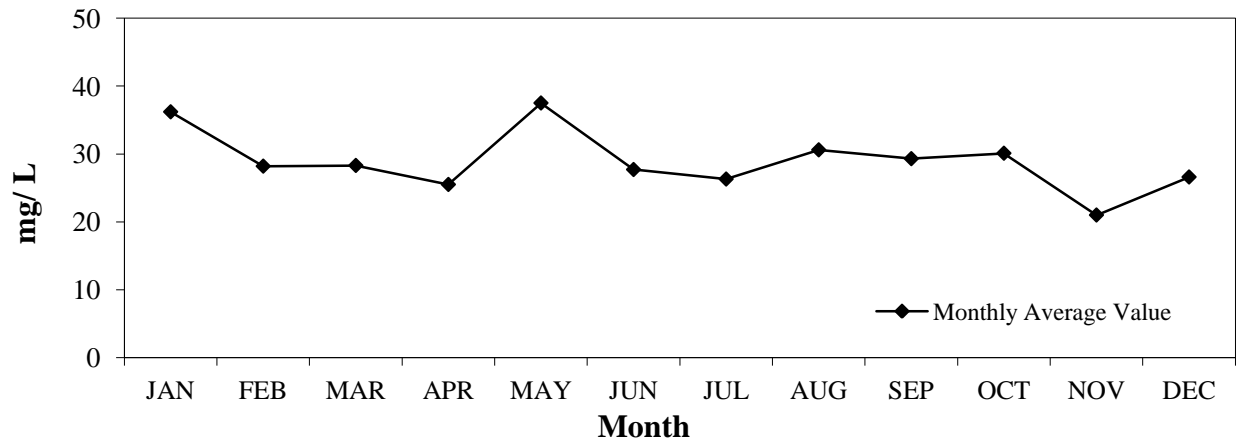
### Chloride



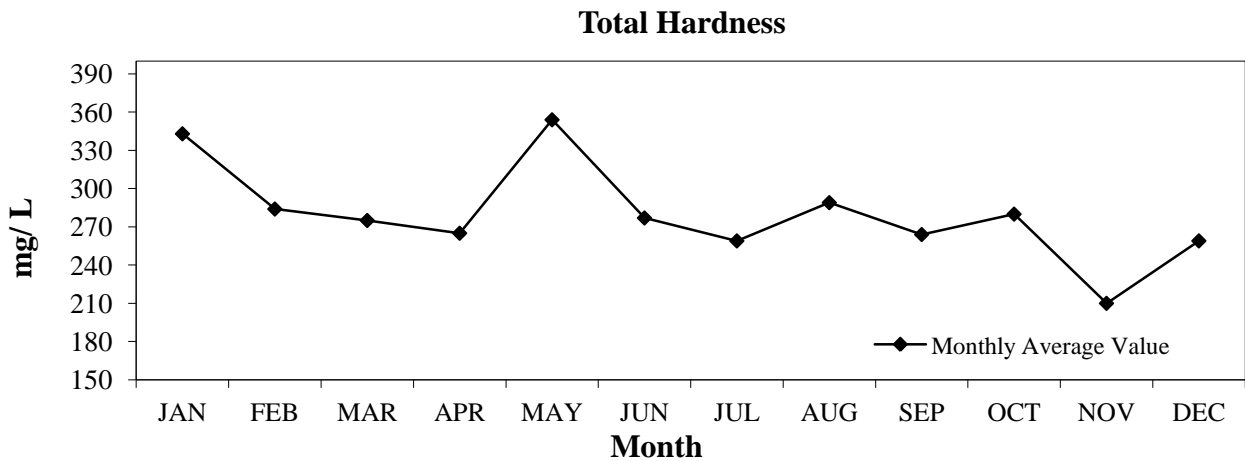
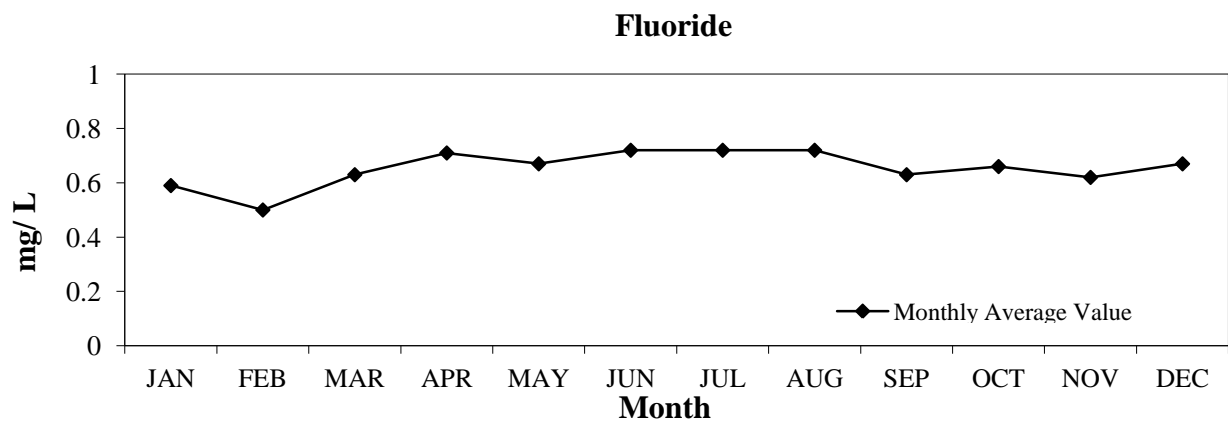
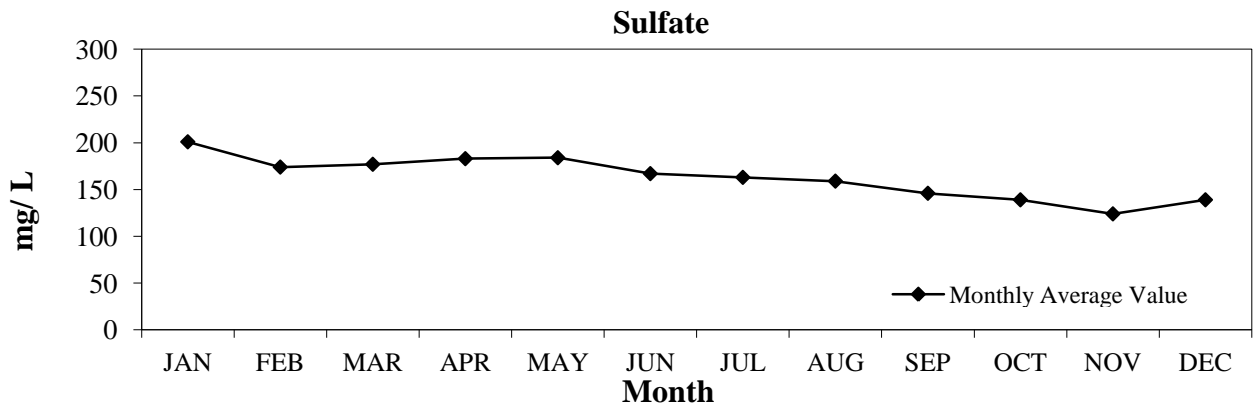
### Calcium



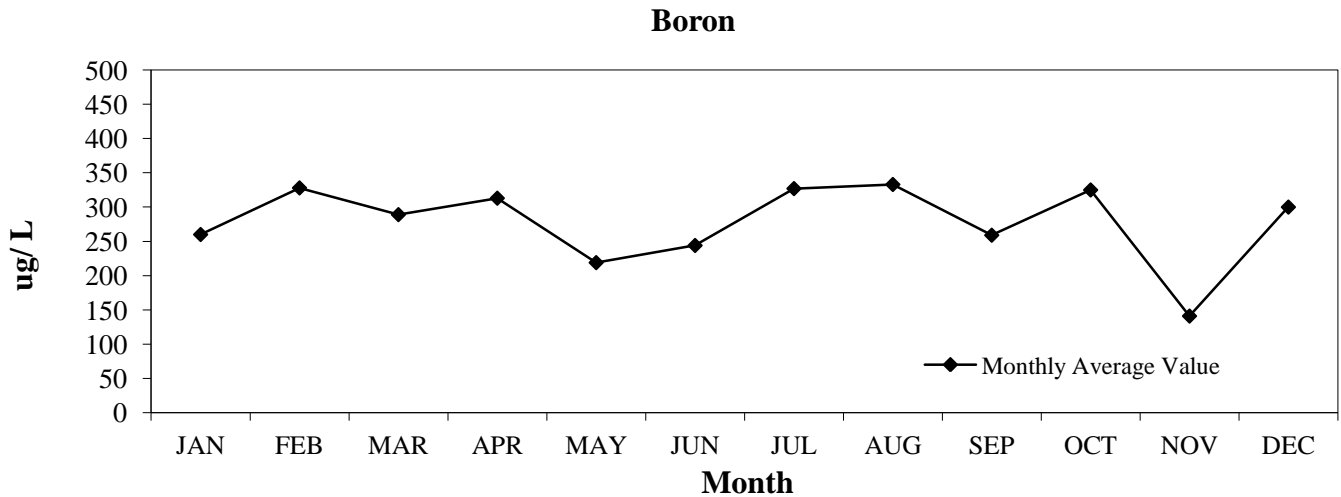
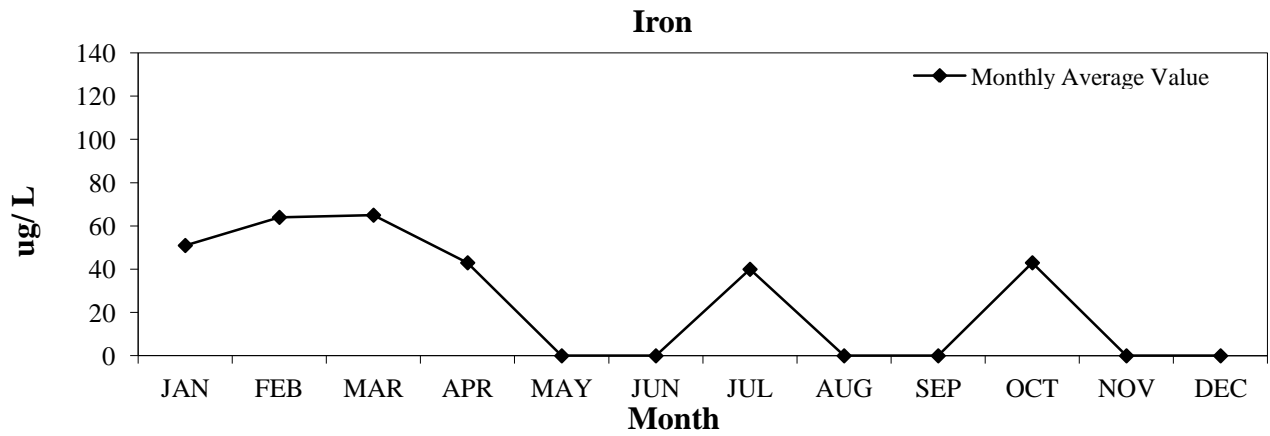
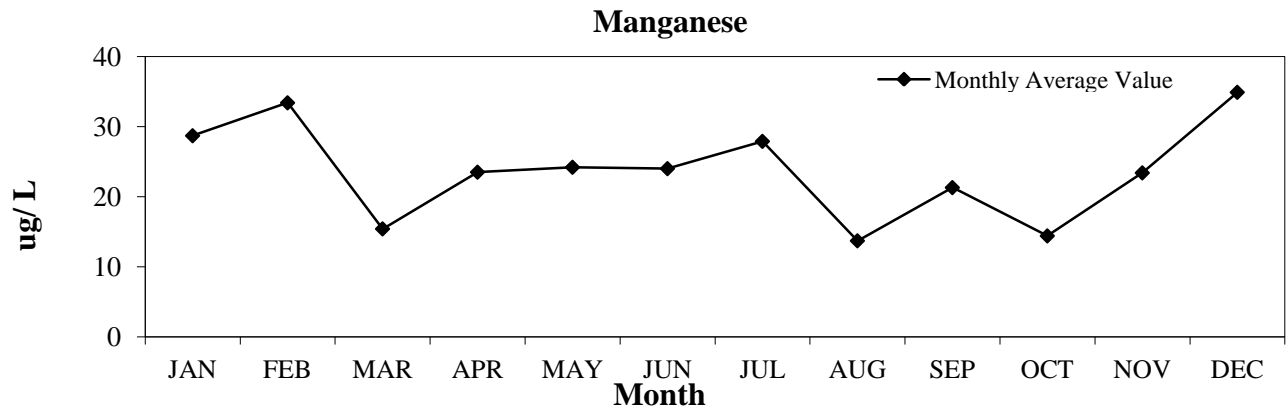
### Magnesium



## 2011 South Bay Reclaimed Water

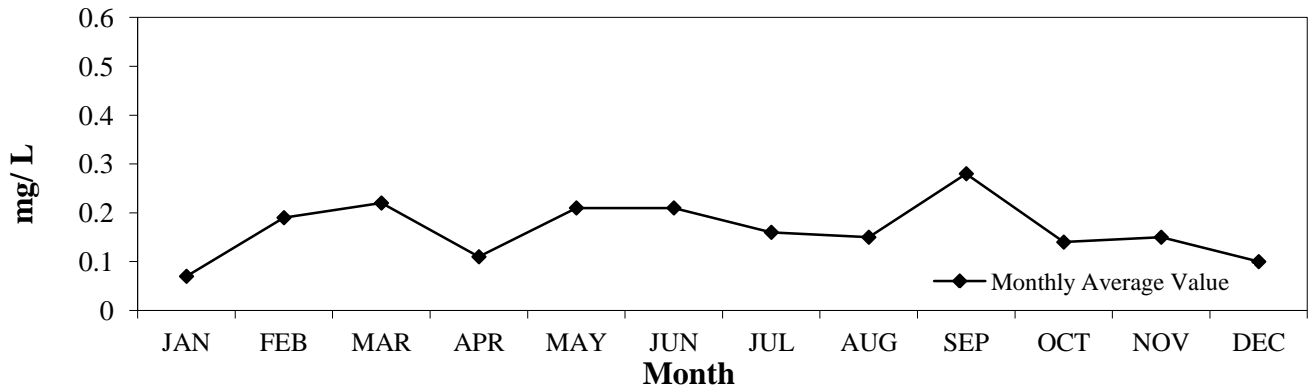


## 2011 South Bay Reclaimed Water

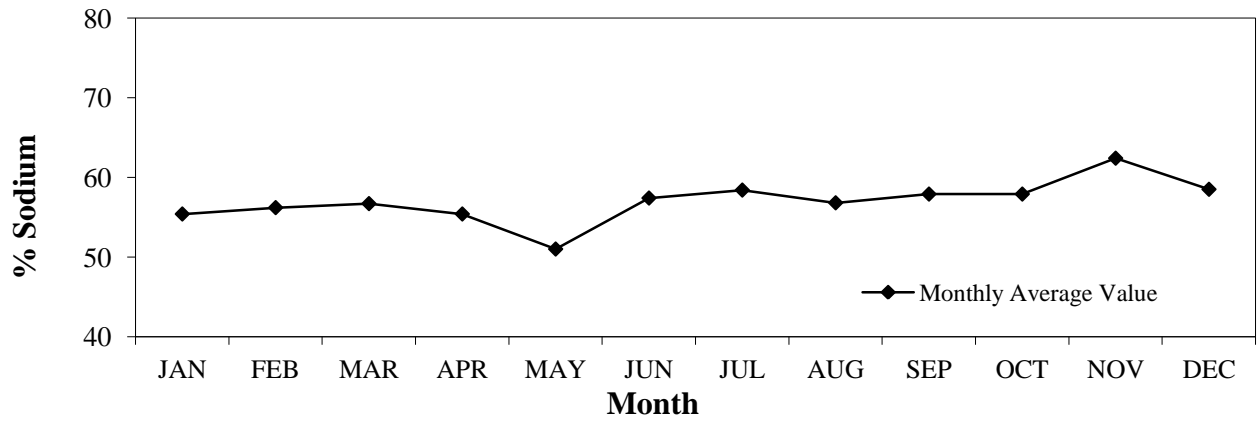


## 2011 South Bay Reclaimed Water

### MBAS



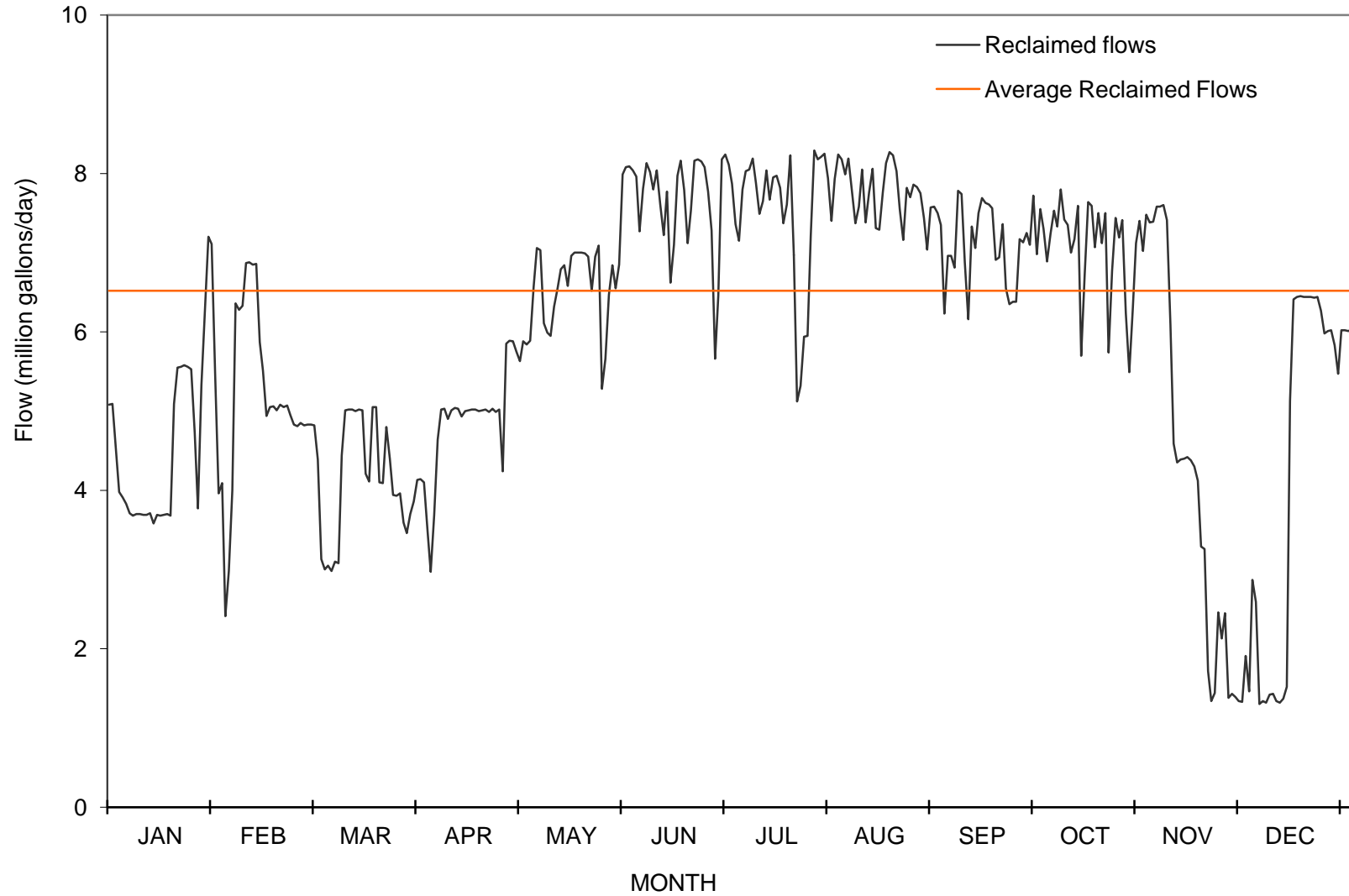
### Percent Sodium



### C. Daily Values of Selected Parameters.

Daily values of selected parameters (e.g. TSS, Flow, BOD, etc.) are tabulated and presented graphically; statistical summary information is provided.

## South Bay Wastewater Reclamation Plant 2011 Reclaimed Water Production Flows





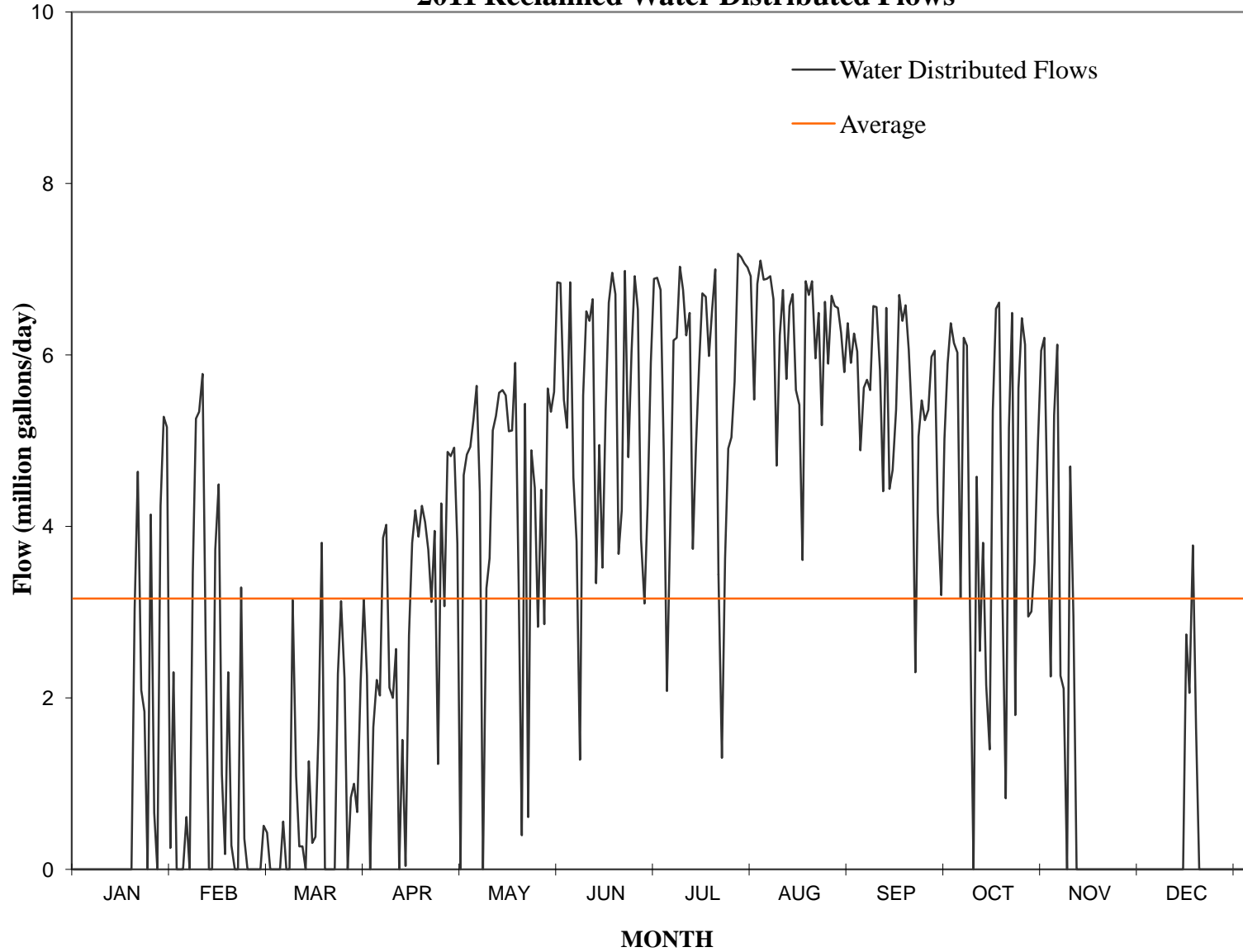
**Daily Flows - Reclaimed Water Produced in 2011**

Days	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	5.08	5.47	4.83	4.13	5.63	8.08	8.11	7.93	7.35	7.30	7.38	2.87	
2	5.09	3.96	4.82	4.14	5.88	8.09	7.87	8.24	6.23	6.89	7.39	2.59	
3	4.51	4.09	4.39	4.10	5.84	8.04	7.36	8.18	6.96	7.24	7.58	1.30	
4	3.98	2.41	3.13	3.50	5.89	7.96	7.15	7.99	6.96	7.53	7.58	1.34	
5	3.91	2.98	3.00	2.97	6.57	7.27	7.80	8.19	6.81	7.33	7.60	1.32	
6	3.83	4.00	3.05	3.69	7.06	7.81	8.03	7.78	7.78	7.80	7.41	1.42	
7	3.71	6.36	2.98	4.64	7.03	8.13	8.05	7.37	7.74	7.42	6.10	1.43	
8	3.68	6.28	3.10	5.02	6.11	8.02	8.19	7.58	6.88	7.35	4.59	1.34	
9	3.70	6.33	3.08	5.03	5.99	7.80	7.88	8.05	6.16	7.00	4.35	1.32	
10	3.70	6.87	4.44	4.90	5.95	8.04	7.49	7.38	7.33	7.17	4.39	1.37	
11	3.69	6.88	5.01	5.01	6.32	7.61	7.65	7.76	7.06	7.59	4.40	1.52	
12	3.69	6.85	5.02	5.04	6.55	7.22	8.04	8.06	7.50	5.70	4.42	5.13	
13	3.71	6.86	5.02	5.03	6.79	7.77	7.67	7.31	7.69	6.72	4.38	6.41	
14	3.58	5.87	5.00	4.93	6.84	6.62	7.95	7.29	7.63	7.64	4.30	6.44	
15	3.69	5.51	5.02	5.00	6.58	7.10	7.97	7.76	7.61	7.59	4.12	6.45	
16	3.68	4.94	5.01	5.01	6.96	7.97	7.82	8.13	7.56	7.07	3.29	6.44	
17	3.69	5.05	4.21	5.02	7.00	8.16	7.37	8.27	6.91	7.50	3.26	6.44	
18	3.70	5.06	4.11	5.02	7.00	7.79	7.61	8.23	6.94	7.12	1.72	6.44	
19	3.68	5.01	5.05	5.00	7.00	7.12	8.23	8.03	7.36	7.50	1.34	6.43	
20	5.09	5.08	5.05	5.01	6.99	7.53	6.97	7.55	6.55	5.74	1.44	6.44	
21	5.55	5.05	4.10	5.02	6.95	8.16	5.12	7.16	6.35	6.77	2.46	6.27	
22	5.56	5.07	4.09	4.99	6.52	8.18	5.32	7.82	6.38	7.44	2.13	5.98	
23	5.58	4.95	4.80	5.03	6.95	8.15	5.94	7.70	6.38	7.19	2.45	6.01	
24	5.56	4.83	4.40	4.99	7.09	8.08	5.95	7.86	7.17	7.41	1.38	6.02	
25	5.53	4.81	3.94	5.02	5.28	7.77	7.22	7.83	7.13	6.24	1.43	5.83	
26	4.73	4.85	3.93	4.24	5.66	7.28	8.29	7.75	7.25	5.49	1.39	5.47	
27	3.77	4.82	3.96	5.85	6.47	5.66	8.18	7.44	7.10	6.29	1.34	6.02	
28	5.33	4.83	3.59	5.89	6.84	6.46	8.21	7.04	7.72	7.12	1.33	6.02	
29	6.27		3.46	5.88	6.55	8.18	8.25	7.57	6.98	7.40	1.91	6.01	
30	7.20		3.70	5.75	6.85	8.24	7.94	7.58	7.55	7.02	1.46	6.03	Annual
31	7.11		3.86		7.99		7.40	7.50		7.48		5.99	Summary
<b>Average</b>	4.57	5.18	4.17	4.83	6.55	7.68	7.52	7.75	7.10	7.07	3.81	4.52	5.89
<b>Minimum</b>	3.58	2.41	2.98	2.97	5.28	5.66	5.12	7.04	6.16	5.49	1.33	1.30	1.30
<b>Maximum</b>	7.20	6.88	5.05	5.89	7.99	8.24	8.29	8.27	7.78	7.80	7.60	6.45	8.29
<b>Total</b>	142	145	129	145	203	230	233	240	213	219	114	140	2154

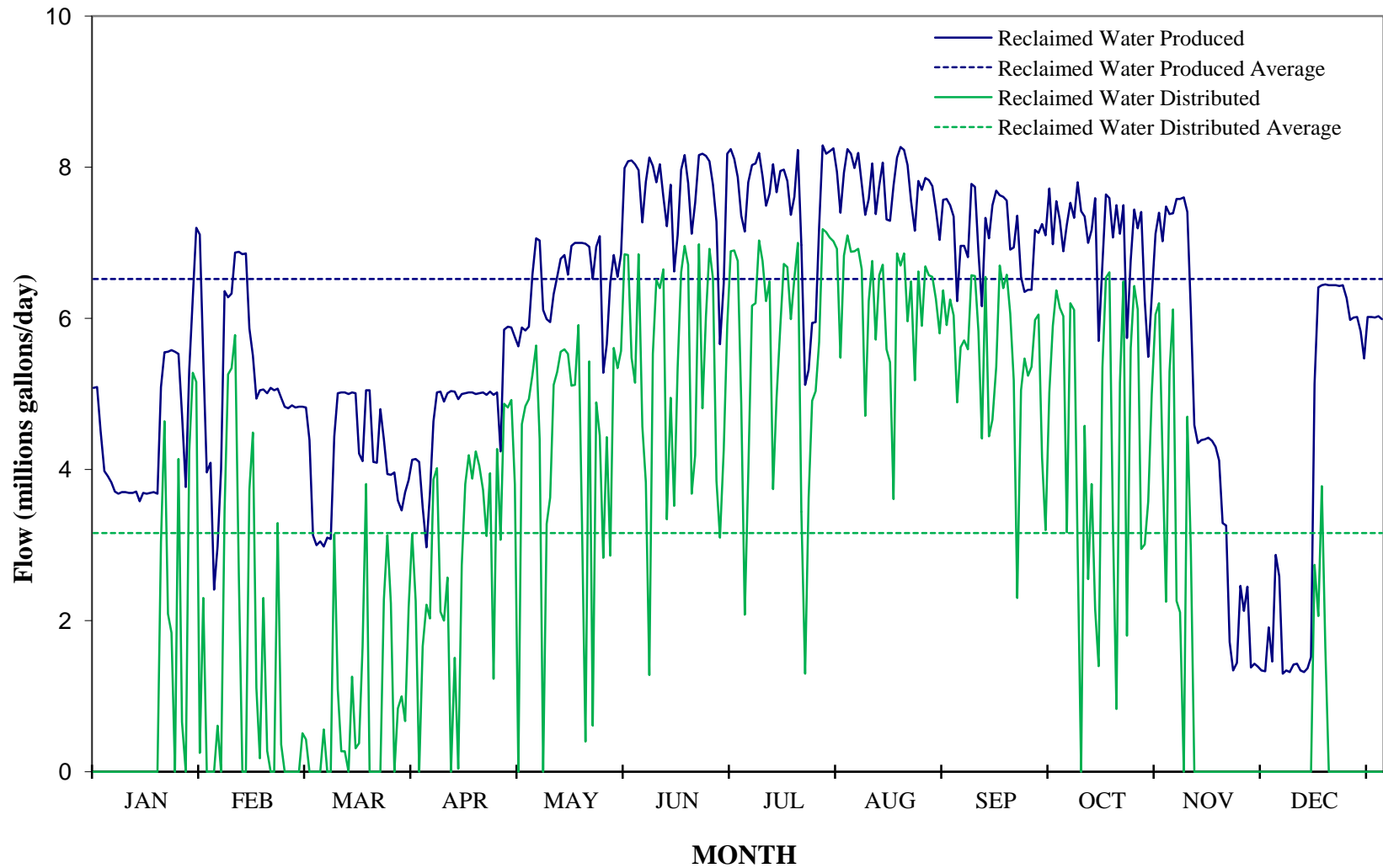
**Daily Flows - Reclaimed Water Distributed in 2011**

Days	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.00	2.30	0.51	3.15	0.00	6.84	6.90	6.83	6.04	6.14	5.30	0.00	
2	0.00	0.00	0.43	2.26	4.60	5.48	6.76	7.10	4.89	6.03	6.12	0.00	
3	0.00	0.00	0.00	0.00	4.84	5.15	4.87	6.88	5.62	3.17	2.26	0.00	
4	0.00	0.00	0.00	1.66	4.93	6.85	2.08	6.89	5.71	6.20	2.11	0.00	
5	0.00	0.61	0.00	2.21	5.25	4.57	3.94	6.92	5.59	6.11	0.00	0.00	
6	0.00	0.00	0.00	2.03	5.64	3.83	6.17	6.65	6.57	2.95	4.70	0.00	
7	0.00	3.46	0.56	3.87	4.40	1.28	6.20	4.71	6.56	0.00	2.95	0.00	
8	0.00	5.26	0.00	4.02	0.00	5.53	7.03	6.23	5.83	4.58	0.00	0.00	
9	0.00	5.34	0.00	2.12	3.28	6.51	6.76	6.76	4.41	2.55	0.00	0.00	
10	0.00	5.78	3.14	2.00	3.63	6.40	6.23	5.72	6.55	3.81	0.00	0.00	
11	0.00	2.58	1.09	2.57	5.12	6.65	6.49	6.57	4.44	2.15	0.00	0.00	
12	0.00	0.00	0.27	0.00	5.29	3.34	3.74	6.71	4.66	1.40	0.00	2.74	
13	0.00	0.00	0.27	1.51	5.56	4.95	4.95	5.59	5.36	5.35	0.00	2.06	
14	0.00	3.73	0.00	0.04	5.59	3.52	5.90	5.42	6.70	6.54	0.00	3.78	
15	0.00	4.49	1.26	2.73	5.53	5.35	6.72	3.61	6.40	6.61	0.00	1.65	
16	0.00	1.11	0.31	3.81	5.11	6.61	6.68	6.86	6.58	3.27	0.00	0.00	
17	0.00	0.18	0.38	4.19	5.12	6.96	5.99	6.70	6.06	0.83	0.00	0.00	
18	0.00	2.30	1.65	3.88	5.91	6.71	6.53	6.86	5.18	5.15	0.00	0.00	
19	0.00	0.28	3.81	4.24	3.31	3.68	7.00	5.96	2.30	6.49	0.00	0.00	
20	3.04	0.00	0.00	4.05	0.40	4.19	3.44	6.49	5.05	1.80	0.00	0.00	
21	4.64	0.00	0.00	3.73	5.43	6.98	1.30	5.18	5.47	5.61	0.00	0.00	
22	2.09	3.29	0.00	3.12	0.61	4.81	3.63	6.62	5.24	6.43	0.00	0.00	
23	1.84	0.36	0.00	3.95	4.89	6.03	4.91	5.90	5.36	6.12	0.00	0.00	
24	0.00	0.00	2.28	1.23	4.45	6.92	5.04	6.69	5.98	2.95	0.00	0.00	
25	4.14	0.00	3.13	4.27	2.83	6.53	5.69	6.57	6.05	3.01	0.00	0.00	
26	0.66	0.00	2.23	3.07	4.43	3.85	7.18	6.55	4.16	3.58	0.00	0.00	
27	0.00	0.00	0.00	4.87	2.86	3.10	7.14	6.26	3.20	5.00	0.00	0.00	
28	4.24	0.00	0.84	4.82	5.61	4.26	7.07	5.80	5.02	6.05	0.00	0.00	
29	5.28		1.00	4.92	5.34	5.91	7.02	6.37	5.90	6.20	0.00	0.00	
30	5.16		0.67	3.80	5.57	6.89	6.92	5.91	6.37	4.18	0.00	0.00	
31	0.25		2.18		6.85		5.48	6.25		2.25		0.00	Annual Summary
<b>Average</b>	1.01	1.47	0.84	2.94	4.27	5.32	5.67	6.24	5.44	4.27	0.78	0.33	3.22
<b>Minimum</b>	0.00	0.00	0.00	0.00	0.00	1.28	1.30	3.61	2.30	0.00	0.00	0.00	0.00
<b>Maximum</b>	5.28	5.78	3.81	4.92	6.85	6.98	7.18	7.10	6.70	6.61	6.12	3.78	7.18
<b>Total</b>	31.3	41.1	26.0	88.1	132.4	159.7	175.8	193.6	163.3	132.5	23.4	10.2	1177

### South Bay Wastewater Reclamation Plant 2011 Reclaimed Water Distributed Flows

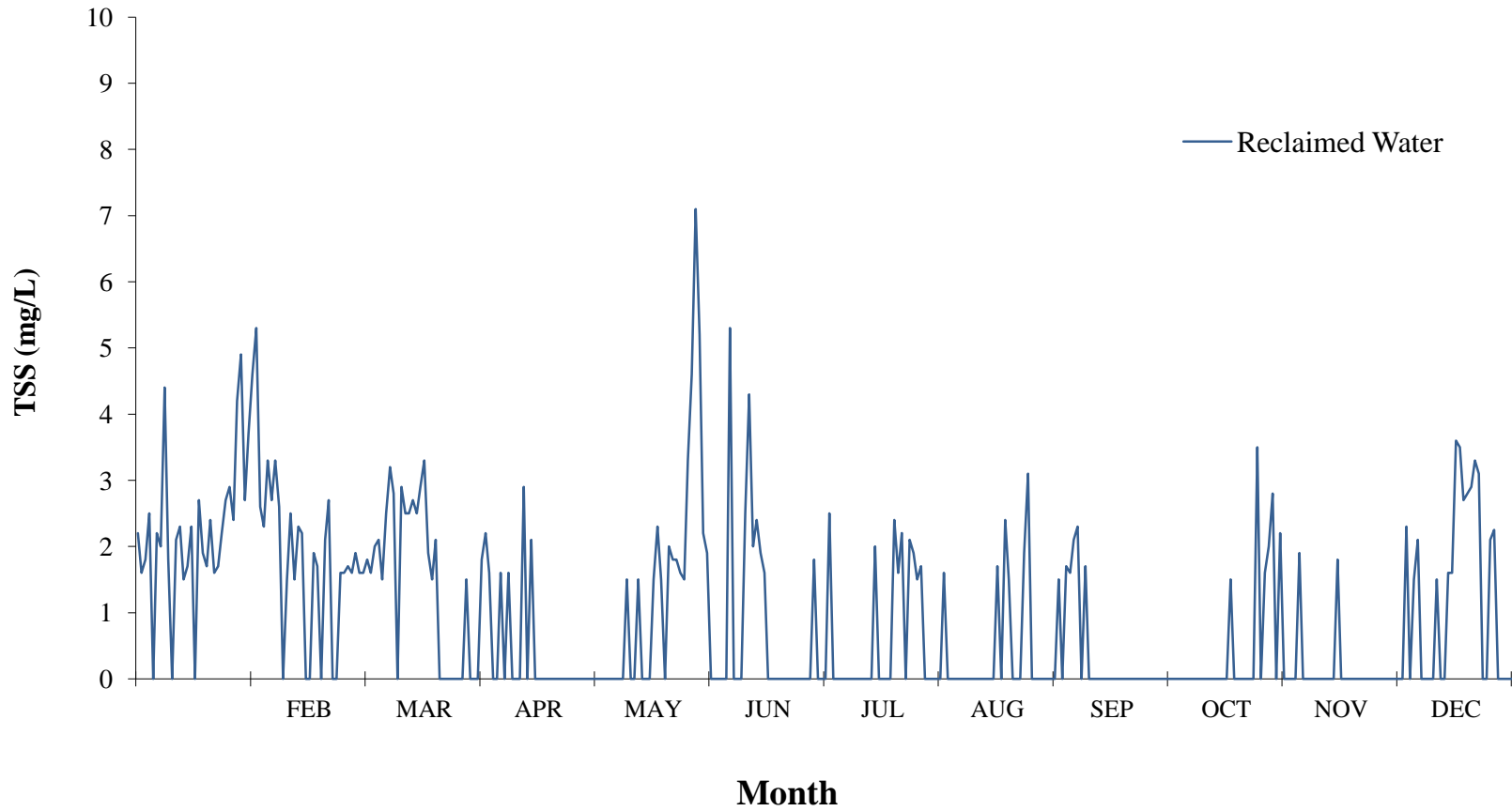


## South Bay Wastewater Reclamation Plant 2011 Reclaimed Water Produced and Distributed Flows



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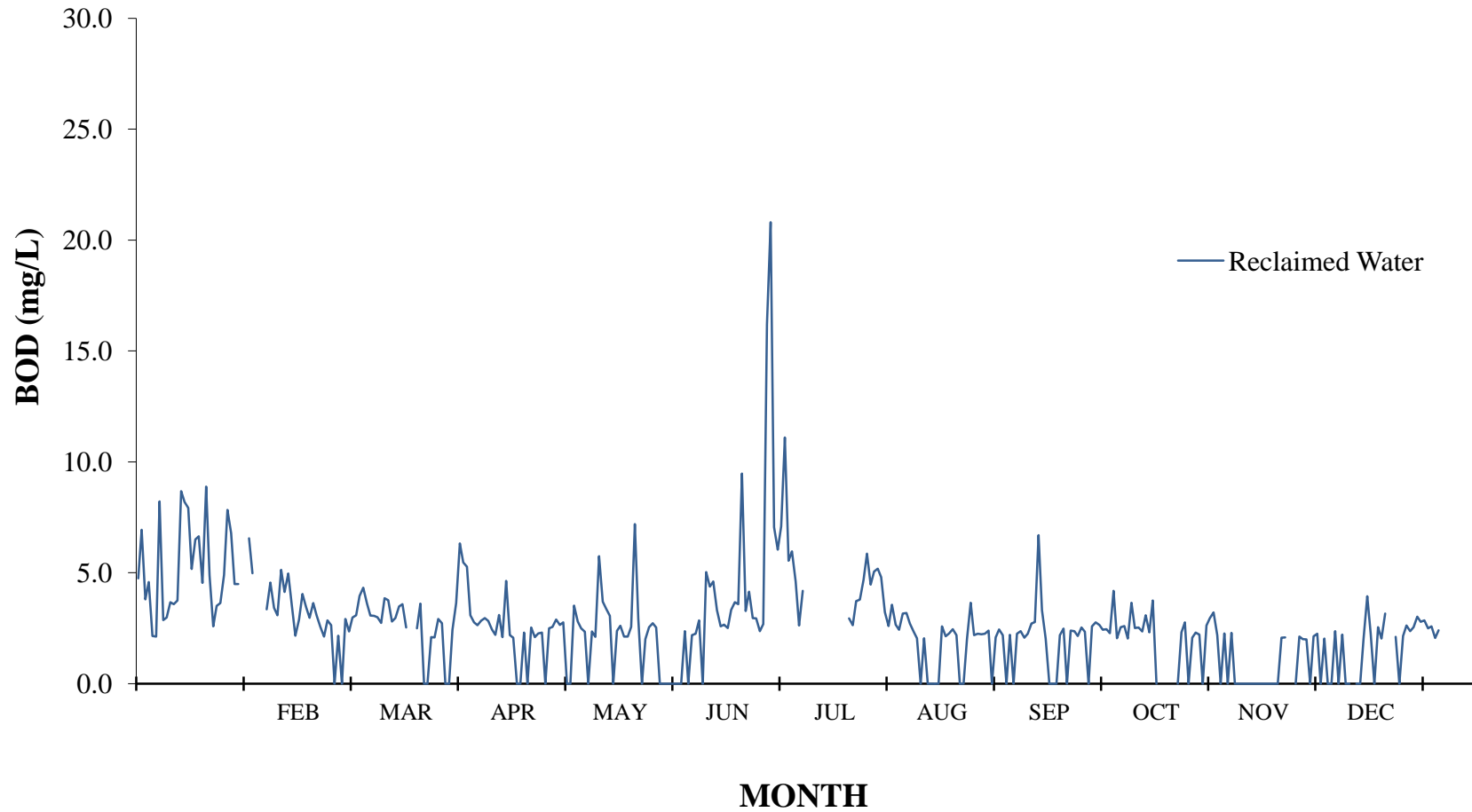
## South Bay Wastewater Reclamation Plant 2011 Total Suspended Solids



**Daily Reclaimed Water TSS Values in 2011**

<b>Day</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	
<b>1</b>	2.2	5.3	1.6	1.8	ND	ND	2.5	ND	1.7	ND	1.9	1.5	
<b>2</b>	1.6	2.6	1.8	2.2	ND	ND	ND	ND	1.6	ND	ND	2.1	
<b>3</b>	1.8	2.3	1.6	1.6	ND	ND	ND	ND	2.1	ND	ND	ND	
<b>4</b>	2.5	3.3	2.0	ND	ND	ND	ND	ND	2.3	ND	ND	ND	
<b>5</b>	ND	2.7	2.1	ND	ND	5.3	ND	ND	ND	ND	ND	ND	
<b>6</b>	2.2	3.3	1.5	1.6	ND	ND	ND	ND	1.7	ND	ND	ND	
<b>7</b>	2.0	2.6	2.5	ND	ND	ND	ND	ND	ND	ND	ND	1.5	
<b>8</b>	4.4	ND	3.2	1.6	ND	ND	ND	ND	ND	ND	ND	ND	
<b>9</b>	1.8	1.5	2.8	ND	1.5	2.5	ND	ND	ND	ND	ND	ND	
<b>10</b>	ND	2.5	ND	ND	ND	4.3	ND	ND	ND	ND	ND	1.6	
<b>11</b>	2.1	1.5	2.9	ND	ND	2.0	ND	ND	ND	ND	1.8	1.6	
<b>12</b>	2.3	2.3	2.5	2.9	1.5	2.4	ND	ND	ND	ND	ND	3.6	
<b>13</b>	1.5	2.2	2.5	ND	ND	1.9	2.0	ND	ND	ND	ND	3.5	
<b>14</b>	1.7	ND	2.7	2.1	NA	1.6	ND	1.7	ND	1.5	ND	2.7	
<b>15</b>	2.3	ND	2.5	ND	ND	ND	ND	ND	ND	ND	ND	2.8	
<b>16</b>	ND	1.9	2.9	ND	1.5	ND	ND	2.4	ND	ND	ND	2.9	
<b>17</b>	2.7	1.7	3.3	ND	2.3	ND	ND	1.5	ND	ND	ND	3.3	
<b>18</b>	1.9	ND	1.9	ND	1.5	ND	2.4	ND	ND	ND	ND	3.1	
<b>19</b>	1.7	2.1	1.5	ND	ND	ND	1.6	ND	ND	ND	ND	ND	
<b>20</b>	2.4	2.7	2.1	ND	2.0	ND	2.2	ND	ND	ND	ND	ND	
<b>21</b>	1.6	ND	ND	ND	1.8	ND	ND	1.9	ND	3.5	ND	2.1	
<b>22</b>	1.7	ND	ND	ND	1.8	ND	2.1	3.1	ND	ND	ND	2.3	
<b>23</b>	2.2	1.6	ND	ND	1.6	ND	1.9	ND	ND	1.6	ND	ND	
<b>24</b>	2.7	1.6	ND	ND	1.5	ND	1.5	ND	ND	2.0	ND	ND	
<b>25</b>	2.9	1.7	ND	ND	3.3	ND	1.7	ND	ND	2.8	ND	ND	
<b>26</b>	2.4	1.6	ND	ND	4.6	ND	ND	ND	ND	ND	ND	ND	
<b>27</b>	4.2	1.9	ND	ND	7.1	1.8	ND	ND	ND	2.2	ND	ND	
<b>28</b>	4.9	1.6	1.5	ND	5.2	ND	ND	ND	ND	ND	NA	ND	
<b>29</b>	2.7		ND	ND	2.2	ND	ND	ND	ND	ND	2.3	1.8	
<b>30</b>	3.7		ND	ND	1.9	ND	ND	1.5	ND	ND	ND	ND	
<b>31</b>	4.6		ND		ND		1.6	ND		ND		ND	
<b>Ave</b>	2.28	1.80	1.46	0.46	1.33	0.73	0.63	0.39	0.31	0.44	0.20	1.17	0.93
<b>Min</b>	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<b>Max</b>	4.90	5.30	3.30	2.90	7.10	5.30	2.50	3.10	2.30	3.50	2.30	3.60	7.1

# South Bay Wastewater Reclamation Plant 2011 Biochemical Oxygen Demand





**Daily Reclaimed Water BOD Values 2011**

<b>Day</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	
<b>1</b>	4.75	6.55	2.36	6.33	ND	ND	11.1	2.66	ND	4.19	2.26	ND	
<b>2</b>	6.94	4.98	2.98	5.47	ND	ND	5.55	2.43	2.2	2.05	ND	2.37	
<b>3</b>	3.80		3.08	5.28	3.52	2.37	5.97	3.16	ND	2.55	2.29	ND	
<b>4</b>	4.58		3.96	3.09	2.81	ND	4.61	3.19	2.25	2.6	ND	2.21	
<b>5</b>	2.15		4.33	2.76	2.5	2.19	2.62	2.71	2.37	2.03	ND	ND	
<b>6</b>	2.12	3.36	3.62	2.64	2.34	2.25	4.19	2.36	2.07	3.65	ND	ND	
<b>7</b>	8.22	4.56	3.07	2.84	ND	2.86		2.05	2.25	2.51	ND		
<b>8</b>	2.87	3.42	3.06	2.96	2.35	ND		ND	2.72	2.54	ND	ND	
<b>9</b>	2.98	3.08	3.00	2.83	2.11	5.03		2.05	2.78	2.35	ND	ND	
<b>10</b>	3.67	5.14	2.74	2.44	5.75	4.38		ND	6.7	3.09	ND	2.04	
<b>11</b>	3.59	4.14	3.85	2.20	3.7	4.61		ND	3.31	2.32	ND	3.94	
<b>12</b>	3.75	4.97	3.77	3.10	3.38	3.31		ND	2.04	3.75	ND	2.26	
<b>13</b>	8.68	3.60	2.80	2.10	3.06	2.58		ND	ND	ND	ND	ND	
<b>14</b>	8.20	2.17	2.96	4.63	NA	2.66		2.58	ND		ND	2.55	
<b>15</b>	7.93	2.90	3.48	2.19	2.38	2.51		2.14	ND		ND	2.04	
<b>16</b>	5.17	4.05	3.58	2.08	2.61	3.33		2.27	2.19		ND	3.16	
<b>17</b>	6.51	3.45	2.54	ND	2.12	3.67		2.46	2.49		2.07		
<b>18</b>	6.64	2.97		ND	2.13	3.58		2.19	ND		2.09		
<b>19</b>	4.55	3.64		2.30	2.56	9.47	2.95	ND	2.39	ND		2.11	
<b>20</b>	8.88	3.07	2.50	ND	7.19	3.28	2.64	ND	2.37	2.32		ND	
<b>21</b>	4.88	2.56	3.61	2.54	2.94	4.15	3.73	2.01	2.15	2.77	ND	2.15	
<b>22</b>	2.58	2.12	ND	2.10	ND	2.96	3.79	3.65	2.53	ND	2.12	2.63	
<b>23</b>	3.51	2.86	ND	2.26	2.01	2.94	4.68	2.19	2.34	2.08	2.01	2.37	
<b>24</b>	3.63	2.64	2.10	2.31	2.55	2.37	5.86	2.25	ND	2.3	2	2.55	
<b>25</b>	4.90	ND	2.09	ND	2.73	2.69	4.47	2.23	2.58	2.22	ND	3.02	
<b>26</b>	7.84	2.17	2.92	2.50	2.53	16.2	5.06	2.25	2.77	ND	2.14	2.79	
<b>27</b>	6.78	ND	2.73	2.56	ND	20.8	5.19	2.39	2.65	2.62	2.25	2.85	
<b>28</b>	4.49	2.92	ND	2.90	ND	7.05	4.8	ND	2.43	2.96	ND	2.5	
<b>29</b>	4.49		ND	2.65	ND	6.04	3.23	2.09	2.46	3.22	2.03	2.59	
<b>30</b>			2.43	2.77	ND	7.09	2.6	2.45	2.28	2.19	ND	2.06	
<b>31</b>			3.63		ND		3.56	2.19		ND		2.41	Annual Summary
<b>Ave</b>	5.14	3.25	2.66	2.59	2.04	4.35	4.56	1.80	2.01	2.17	0.76	1.81	2.76
<b>Min</b>	2.12	ND	ND	ND	ND	ND	2.60	ND	ND	ND	ND	ND	ND
<b>Max</b>	8.88	6.55	4.33	6.33	7.19	20.8	11.10	3.65	6.70	4.2	2.29	3.9	20.8

## D. Total Coliform Data Summaries

### 2011 Annual South Bay Water Reclamation Plant Total Coliform Report

#### 2011 SBWRP Total Coliforms (MPN/ 100 ml)

Sample Date	SAMPLE			FIELD DUPLICATE			Sample Date	SAMPLE			FIELD DUPLICATE		
	Total Coliforms	7-Day Median	30-Day Average	Total Coliforms	7-Day Median	30-Day Average		Total Coliforms	7-Day Median	30-Day Average	Total Coliforms	7-Day Median	30-Day Average
1-Jan-11	<1.8	<1.8	18.1	4.5	<1.8	19.6	1-Mar-11	11	<1.8	2.1	7.8	<1.8	3.3
2-Jan-11	17	<1.8	18.6	4.5	4.5	19.0	2-Mar-11	1.8	<1.8	1.9	<1.8	<1.8	2.6
3-Jan-11	23	<1.8	19.3	7.8	4.5	19.3	3-Mar-11	NA	<1.8	1.9	NA	<1.8	2.6
4-Jan-11	4.5	<1.8	19.5	4.5	4.5	19.4	4-Mar-11	NA	<1.8	1.9	NA	<1.8	2.6
5-Jan-11	<1.8	<1.8	19.5	<1.8	4.5	19.4	5-Mar-11	NA	<1.8	1.9	NA	<1.8	2.6
6-Jan-11	<1.8	<1.8	18.7	<1.8	4.5	19.3	6-Mar-11	NA	<1.8	1.9	NA	<1.8	2.6
7-Jan-11	<1.8	<1.8	18.7	<1.8	4.5	19.3	7-Mar-11	920	<1.8	32.1	240	<1.8	10.3
8-Jan-11	7.8	4.5	18.9	4.5	4.5	19.4	8-Mar-11	<1.8	<1.8	31.4	<1.8	<1.8	8.7
9-Jan-11	2	2.0	19.0	6.8	4.5	19.7	9-Mar-11	<1.8	<1.8	31.4	<1.8	<1.8	8.7
10-Jan-11	13	2.0	19.4	11	4.5	20.0	10-Mar-11	<1.8	<1.8	31.4	<1.8	<1.8	8.7
11-Jan-11	2	2.0	19.5	2	2.0	20.1	11-Mar-11	19	1.8	32.0	540	<1.8	26.7
12-Jan-11	7.8	2.0	19.8	13	4.5	20.5	12-Mar-11	26	1.8	32.9	13	<1.8	27.1
13-Jan-11	2	2.0	19.6	2	4.5	20.4	13-Mar-11	33	19.0	34.0	6.8	6.8	27.3
14-Jan-11	4	4.0	19.3	11	6.8	19.7	14-Mar-11	2	2.0	34.0	4.5	4.5	27.5
15-Jan-11	<1.8	2.0	17.8	<1.8	6.8	19.0	15-Mar-11	<1.8	2.0	34.0	<1.8	4.5	27.5
16-Jan-11	<1.8	2.0	15.1	<1.8	2.0	15.3	16-Mar-11	<1.8	2.0	34.0	<1.8	4.5	27.5
17-Jan-11	<1.8	2.0	15.0	<1.8	2.0	15.2	17-Mar-11	2	2.0	34.1	<1.8	4.5	27.4
18-Jan-11	17	2.0	15.4	23	2.0	15.9	18-Mar-11	<1.8	2.0	34.1	2	2.0	27.4
19-Jan-11	1.8	1.8	15.5	2	2.0	15.9	19-Mar-11	7.8	2.0	34.4	4.5	2.0	27.4
20-Jan-11	2	1.8	3.9	1.8	1.8	4.3	20-Mar-11	2	2.0	34.4	<1.8	<1.8	27.4
21-Jan-11	7.8	1.8	3.9	23	1.8	4.9	21-Mar-11	<1.8	<1.8	34.3	<1.8	<1.8	27.4
22-Jan-11	13	2.0	4.2	7.8	2.0	5.0	22-Mar-11	<1.8	<1.8	34.2	<1.8	<1.8	27.4
23-Jan-11	23	7.8	4.9	49	7.8	6.5	23-Mar-11	<1.8	<1.8	34.2	<1.8	<1.8	27.4
24-Jan-11	<1.8	7.8	4.9	<1.8	7.8	6.5	24-Mar-11	4	<1.8	34.3	2	<1.8	27.4
25-Jan-11	<1.8	2.0	4.9	<1.8	2.0	6.5	25-Mar-11	<1.8	<1.8	34.3	2	<1.8	27.5
26-Jan-11	<1.8	2.0	4.9	<1.8	1.8	6.5	26-Mar-11	2	<1.8	34.4	<1.8	<1.8	27.4
27-Jan-11	<1.8	<1.8	4.9	<1.8	<1.8	6.5	27-Mar-11	1.8	<1.8	34.4	7.8	<1.8	27.7
28-Jan-11	<1.8	<1.8	4.9	<1.8	<1.8	6.1	28-Mar-11	<1.8	<1.8	34.4	<1.8	<1.8	27.7
29-Jan-11	<1.8	<1.8	4.9	<1.8	<1.8	6.1	29-Mar-11	<1.8	<1.8	34.4	<1.8	<1.8	27.7
30-Jan-11	<1.8	<1.8	4.9	<1.8	<1.8	5.9	30-Mar-11	<1.8	<1.8	34.4	<1.8	<1.8	27.7
31-Jan-11	<1.8	<1.8	4.9	<1.8	<1.8	5.8	31-Mar-11	<1.8	<1.8	34.4	<1.8	<1.8	27.7
1-Feb-11	<1.8	<1.8	4.4	4	<1.8	5.8	1-Apr-11	<1.8	<1.8	34.4	<1.8	<1.8	27.7
2-Feb-11	<1.8	<1.8	3.6	<1.8	<1.8	5.5	2-Apr-11	2	<1.8	34.5	<1.8	<1.8	27.7
3-Feb-11	NA	<1.8	3.6	NA	<1.8	5.5	3-Apr-11	33	<1.8	35.6	2	<1.8	27.7
4-Feb-11	NA	<1.8	3.6	NA	<1.8	5.5	4-Apr-11	<1.8	<1.8	35.2	<1.8	<1.8	27.5
5-Feb-11	NA	<1.8	3.6	NA	<1.8	5.5	5-Apr-11	<1.8	<1.8	35.2	<1.8	<1.8	27.5
6-Feb-11	NA	<1.8	3.6	NA	<1.8	5.5	6-Apr-11	1.8	<1.8	4.5	6.1	<1.8	19.7
7-Feb-11	<1.8	<1.8	3.4	4.5	<1.8	5.5	7-Apr-11	4.5	1.8	4.7	<1.8	<1.8	19.7
8-Feb-11	2	<1.8	3.5	<1.8	<1.8	5.5	8-Apr-11	<1.8	1.8	4.7	<1.8	<1.8	19.7
9-Feb-11	2	<1.8	3.6	<1.8	<1.8	5.5	9-Apr-11	6.8	1.8	4.9	2	<1.8	19.8
10-Feb-11	4	<1.8	3.7	2	<1.8	5.6	10-Apr-11	<1.8	<1.8	4.3	<1.8	<1.8	1.8
11-Feb-11	<1.8	<1.8	3.4	<1.8	<1.8	5.4	11-Apr-11	<1.8	<1.8	3.4	<1.8	<1.8	1.3
12-Feb-11	<1.8	<1.8	3.4	<1.8	<1.8	5.2	12-Apr-11	<1.8	<1.8	2.3	<1.8	<1.8	1.1
13-Feb-11	<1.8	<1.8	2.9	<1.8	<1.8	4.8	13-Apr-11	<1.8	<1.8	2.3	<1.8	<1.8	0.9
14-Feb-11	<1.8	<1.8	2.9	2	<1.8	4.8	14-Apr-11	49	<1.8	3.9	11	<1.8	1.3
15-Feb-11	<1.8	<1.8	2.6	<1.8	<1.8	4.4	15-Apr-11	2	<1.8	4.0	2	<1.8	1.4
16-Feb-11	<1.8	<1.8	2.6	<1.8	<1.8	4.3	16-Apr-11	<1.8	<1.8	3.9	<1.8	<1.8	1.4
17-Feb-11	<1.8	<1.8	2.4	<1.8	<1.8	4.0	17-Apr-11	<1.8	<1.8	3.9	<1.8	<1.8	1.3
18-Feb-11	<1.8	<1.8	2.4	<1.8	<1.8	4.0	18-Apr-11	2	<1.8	3.7	2	<1.8	1.2
19-Feb-11	<1.8	<1.8	2.4	<1.8	<1.8	4.0	19-Apr-11	4.5	2.0	3.8	<1.8	<1.8	1.2
20-Feb-11	NA	<1.8	2.4	NA	<1.8	4.0	20-Apr-11	<1.8	2.0	3.8	<1.8	<1.8	1.2
21-Feb-11	NA	<1.8	2.4	NA	<1.8	4.0	21-Apr-11	<1.8	<1.8	3.8	<1.8	<1.8	1.2
22-Feb-11	<1.8	<1.8	2.4	<1.8	<1.8	4.0	22-Apr-11	<1.8	<1.8	3.8	<1.8	<1.8	1.2
23-Feb-11	<1.8	<1.8	1.9	<1.8	<1.8	3.2	23-Apr-11	4.5	<1.8	3.8	2	<1.8	1.2
24-Feb-11	<1.8	<1.8	1.8	<1.8	<1.8	3.1	24-Apr-11	<1.8	<1.8	3.8	<1.8	<1.8	1.2
25-Feb-11	NA	<1.8	1.8	NA	<1.8	3.1	25-Apr-11	<1.8	<1.8	3.7	<1.8	<1.8	1.2
26-Feb-11	NA	<1.8	1.8	NA	<1.8	3.1	26-Apr-11	<1.8	<1.8	3.7	<1.8	<1.8	0.9
27-Feb-11	NA	<1.8	1.8	NA	<1.8	3.1	27-Apr-11	<1.8	<1.8	3.7	<1.8	<1.8	0.9
28-Feb-11	NA	<1.8	1.8	NA	<1.8	3.1	28-Apr-11	<1.8	<1.8	3.7	<1.8	<1.8	0.9
							29-Apr-11	<1.8	<1.8	3.7	<1.8	<1.8	0.9
							30-Apr-11	<1.8	<1.8	3.7	<1.8	<1.8	0.9

NA= not analyzed

**2011 Annual South Bay Water Reclamation Plant  
Total Coliform Report**

**2011 SBWRP Total Coliforms (MPN/ 100 ml)**

Sample Date	SAMPLE			FIELD DUPLICATE			Sample Date	SAMPLE			FIELD DUPLICATE		
	Total Coliforms	7-Day Median	30-Day Average	Total Coliforms	7-Day Median	30-Day Average		Total Coliforms	7-Day Median	30-Day Average	Total Coliforms	7-Day Median	30-Day Average
1-May-11	<1.8	<1.8	3.7	<1.8	<1.8	0.9	1-Jul-11	2	<1.8	0.1	2	<1.8	0.3
2-May-11	<1.8	<1.8	3.6	<1.8	<1.8	0.9	2-Jul-11	2	<1.8	0.2	<1.8	<1.8	0.3
3-May-11	<1.8	<1.8	2.5	<1.8	<1.8	0.8	3-Jul-11	2	<1.8	0.3	<1.8	<1.8	0.3
4-May-11	<1.8	<1.8	2.5	<1.8	<1.8	0.8	4-Jul-11	<1.8	<1.8	0.3	<1.8	<1.8	0.3
5-May-11	11	<1.8	2.9	<1.8	<1.8	0.8	5-Jul-11	<1.8	<1.8	0.3	<1.8	<1.8	0.3
6-May-11	<1.8	<1.8	2.8	<1.8	<1.8	0.6	6-Jul-11	<1.8	<1.8	0.3	<1.8	<1.8	0.3
7-May-11	21	<1.8	3.4	<1.8	<1.8	0.6	7-Jul-11	<1.8	<1.8	0.3	<1.8	<1.8	0.3
8-May-11	<1.8	<1.8	3.4	<1.8	<1.8	0.6	8-Jul-11	13	<1.8	0.7	4.5	<1.8	0.4
9-May-11	2	<1.8	3.2	2	<1.8	0.6	9-Jul-11	4.5	<1.8	0.9	<1.8	<1.8	0.4
10-May-11	<1.8	<1.8	3.2	<1.8	<1.8	0.6	10-Jul-11	<1.8	<1.8	0.9	<1.8	<1.8	0.4
11-May-11	<1.8	<1.8	3.2	<1.8	<1.8	0.6	11-Jul-11	<1.8	<1.8	0.9	<1.8	<1.8	0.4
12-May-11	<1.8	<1.8	3.2	<1.8	<1.8	0.6	12-Jul-11	2	<1.8	0.9	4.5	<1.8	0.4
13-May-11	<1.8	<1.8	3.2	<1.8	<1.8	0.6	13-Jul-11	<1.8	<1.8	0.9	2	<1.8	0.5
14-May-11	<1.8	<1.8	1.6	<1.8	<1.8	0.3	14-Jul-11	<1.8	<1.8	0.9	<1.8	<1.8	0.5
15-May-11	4.5	<1.8	1.7	<1.8	<1.8	0.2	15-Jul-11	13	<1.8	1.4	4.5	<1.8	0.7
16-May-11	<1.8	<1.8	1.7	<1.8	<1.8	0.2	16-Jul-11	<1.8	<1.8	1.4	<1.8	<1.8	0.7
17-May-11	<1.8	<1.8	1.7	<1.8	<1.8	0.2	17-Jul-11	<1.8	<1.8	1.4	<1.8	<1.8	0.7
18-May-11	<1.8	<1.8	1.6	<1.8	<1.8	0.1	18-Jul-11	<1.8	<1.8	1.4	<1.8	<1.8	0.7
19-May-11	<1.8	<1.8	1.4	<1.8	<1.8	0.1	19-Jul-11	<1.8	<1.8	1.4	2	<1.8	0.7
20-May-11	<1.8	<1.8	1.4	<1.8	<1.8	0.1	20-Jul-11	<1.8	<1.8	1.4	<1.8	<1.8	0.7
21-May-11	<1.8	<1.8	1.4	<1.8	<1.8	0.1	21-Jul-11	<1.8	<1.8	1.4	4	<1.8	0.9
22-May-11	<1.8	<1.8	1.4	2	<1.8	0.2	22-Jul-11	<1.8	<1.8	1.4	<1.8	<1.8	0.9
23-May-11	<1.8	<1.8	1.3	<1.8	<1.8	0.1	23-Jul-11	<1.8	<1.8	1.4	<1.8	<1.8	0.9
24-May-11	<1.8	<1.8	1.3	<1.8	<1.8	0.1	24-Jul-11	<1.8	<1.8	1.3	<1.8	<1.8	0.9
25-May-11	<1.8	<1.8	1.3	<1.8	<1.8	0.1	25-Jul-11	<1.8	<1.8	1.3	<1.8	<1.8	0.9
26-May-11	<1.8	<1.8	1.3	<1.8	<1.8	0.1	26-Jul-11	<1.8	<1.8	1.3	<1.8	<1.8	0.8
27-May-11	<1.8	<1.8	1.3	<1.8	<1.8	0.1	27-Jul-11	<1.8	<1.8	1.3	<1.8	<1.8	0.8
28-May-11	<1.8	<1.8	1.3	<1.8	<1.8	0.1	28-Jul-11	2	<1.8	1.4	4.5	<1.8	0.9
29-May-11	<1.8	<1.8	1.3	<1.8	<1.8	0.1	29-Jul-11	<1.8	<1.8	1.4	<1.8	<1.8	0.9
30-May-11	<1.8	<1.8	1.3	2	<1.8	0.2	30-Jul-11	1.8	<1.8	1.4	4.5	<1.8	1.1
31-May-11	<1.8	<1.8	1.3	<1.8	<1.8	0.2	31-Jul-11	7.8	<1.8	1.6	1.8	<1.8	1.1
1-Jun-11	<1.8	<1.8	1.3	<1.8	<1.8	0.2	1-Aug-11	<1.8	<1.8	1.5	<1.8	<1.8	1.1
2-Jun-11	<1.8	<1.8	1.3	<1.8	<1.8	0.2	2-Aug-11	2	1.8	1.5	2	1.8	1.1
3-Jun-11	<1.8	<1.8	1.3	<1.8	<1.8	0.2	3-Aug-11	4.5	2.0	1.7	<1.8	1.8	1.1
4-Jun-11	<1.8	<1.8	0.9	<1.8	<1.8	0.2	4-Aug-11	<1.8	1.8	1.7	6.8	1.8	1.4
5-Jun-11	<1.8	<1.8	0.9	<1.8	<1.8	0.2	5-Aug-11	13	2.0	2.1	<1.8	1.8	1.4
6-Jun-11	<1.8	<1.8	0.2	<1.8	<1.8	0.2	6-Aug-11	23	4.5	2.9	7.8	1.8	1.6
7-Jun-11	<1.8	<1.8	0.2	<1.8	<1.8	0.2	7-Aug-11	<1.8	2.0	2.5	1.8	1.8	1.5
8-Jun-11	<1.8	<1.8	0.2	<1.8	<1.8	0.1	8-Aug-11	2	2.0	2.4	<1.8	1.8	1.5
9-Jun-11	<1.8	<1.8	0.2	<1.8	<1.8	0.1	9-Aug-11	<1.8	2.0	2.4	2	1.8	1.6
10-Jun-11	<1.8	<1.8	0.2	<1.8	<1.8	0.1	10-Aug-11	<1.8	<1.8	2.4	<1.8	1.8	1.6
11-Jun-11	<1.8	<1.8	0.2	2	<1.8	0.2	11-Aug-11	<1.8	<1.8	2.3	<1.8	<1.8	1.5
12-Jun-11	<1.8	<1.8	0.2	2	<1.8	0.3	12-Aug-11	<1.8	<1.8	2.3	<1.8	<1.8	1.4
13-Jun-11	<1.8	<1.8	0.2	<1.8	<1.8	0.3	13-Aug-11	4.5	<1.8	2.5	2	<1.8	1.5
14-Jun-11	<1.8	<1.8	<1.8	<1.8	<1.8	0.3	14-Aug-11	<1.8	<1.8	2.0	<1.8	<1.8	1.3
15-Jun-11	<1.8	<1.8	<1.8	<1.8	<1.8	0.3	15-Aug-11	<1.8	<1.8	2.0	<1.8	<1.8	1.3
16-Jun-11	<1.8	<1.8	<1.8	<1.8	<1.8	0.3	16-Aug-11	<1.8	<1.8	2.0	<1.8	<1.8	1.3
17-Jun-11	<1.8	<1.8	<1.8	<1.8	<1.8	0.3	17-Aug-11	<1.8	<1.8	2.0	<1.8	<1.8	1.3
18-Jun-11	<1.8	<1.8	<1.8	<1.8	<1.8	0.3	18-Aug-11	13	<1.8	2.5	49	<1.8	2.9
19-Jun-11	<1.8	<1.8	<1.8	<1.8	<1.8	0.3	19-Aug-11	<1.8	<1.8	2.5	<1.8	<1.8	2.9
20-Jun-11	<1.8	<1.8	<1.8	<1.8	<1.8	0.3	20-Aug-11	<1.8	<1.8	2.5	<1.8	<1.8	2.7
21-Jun-11	<1.8	<1.8	<1.8	<1.8	<1.8	0.2	21-Aug-11	17	<1.8	3.0	6.1	<1.8	2.9
22-Jun-11	<1.8	<1.8	<1.8	<1.8	<1.8	0.2	22-Aug-11	<1.8	<1.8	3.0	<1.8	<1.8	2.9
23-Jun-11	<1.8	<1.8	<1.8	<1.8	<1.8	0.2	23-Aug-11	<1.8	<1.8	3.0	<1.8	<1.8	2.9
24-Jun-11	2	<1.8	0.1	<1.8	<1.8	0.2	24-Aug-11	<1.8	<1.8	3.0	<1.8	<1.8	2.9
25-Jun-11	<1.8	<1.8	0.1	<1.8	<1.8	0.2	25-Aug-11	<1.8	<1.8	3.0	<1.8	<1.8	2.9
26-Jun-11	<1.8	<1.8	0.1	2	<1.8	0.3	26-Aug-11	<1.8	<1.8	3.0	<1.8	<1.8	2.9
27-Jun-11	<1.8	<1.8	0.1	<1.8	<1.8	0.3	27-Aug-11	<1.8	<1.8	3.0	<1.8	<1.8	2.8
28-Jun-11	<1.8	<1.8	0.1	<1.8	<1.8	0.3	28-Aug-11	<1.8	<1.8	3.0	<1.8	<1.8	2.8
29-Jun-11	<1.8	<1.8	0.1	<1.8	<1.8	0.2	29-Aug-11	<1.8	<1.8	2.9	<1.8	<1.8	2.6
30-Jun-11	<1.8	<1.8	0.1	<1.8	<1.8	0.2	30-Aug-11	2	<1.8	2.7	2	<1.8	2.7
NA= not analyzed							31-Aug-11	<1.8	<1.8	2.7	<1.8	<1.8	2.7

**2011 Annual South Bay Water Reclamation Plant  
Total Coliform Report**

**2011 SBWRP Total Coliforms (MPN/ 100 ml)**

Sample Date	SAMPLE			FIELD DUPLICATE			Sample Date	SAMPLE			FIELD DUPLICATE		
	Total Coliforms	7-Day Median	30-Day Average	Total Coliforms	7-Day Median	30-Day Average		Total Coliforms	7-Day Median	30-Day Average	Total Coliforms	7-Day Median	30-Day Average
1-Sep-11	<1.8	<1.8	2.6	<1.8	<1.8	2.6	1-Nov-11	<1.8	<1.8	0.3	<1.8	<1.8	0.1
2-Sep-11	<1.8	<1.8	2.5	<1.8	<1.8	2.6	2-Nov-11	<1.8	<1.8	0.3	<1.8	<1.8	0.1
3-Sep-11	<1.8	<1.8	2.5	<1.8	<1.8	2.4	3-Nov-11	<1.8	<1.8	0.3	<1.8	<1.8	0.1
4-Sep-11	2	<1.8	2.1	<1.8	<1.8	2.4	4-Nov-11	<1.8	<1.8	0.3	<1.8	<1.8	0.1
5-Sep-11	<1.8	<1.8	1.4	<1.8	<1.8	2.1	5-Nov-11	<1.8	<1.8	0.3	<1.8	<1.8	0.1
6-Sep-11	<1.8	<1.8	1.4	<1.8	<1.8	2.0	6-Nov-11	<1.8	<1.8	0.3	<1.8	<1.8	0.1
7-Sep-11	<1.8	<1.8	1.3	<1.8	<1.8	2.0	7-Nov-11	<1.8	<1.8	0.3	<1.8	<1.8	0.1
8-Sep-11	<1.8	<1.8	1.3	<1.8	<1.8	2.0	8-Nov-11	<1.8	<1.8	0.3	<1.8	<1.8	0.1
9-Sep-11	4	<1.8	1.4	<1.8	<1.8	2.0	9-Nov-11	<1.8	<1.8	0.1	<1.8	<1.8	<1.8
10-Sep-11	2	<1.8	1.5	2	<1.8	2.0	10-Nov-11	<1.8	<1.8	0.1	<1.8	<1.8	<1.8
11-Sep-11	<1.8	<1.8	1.5	<1.8	<1.8	2.0	11-Nov-11	4	<1.8	0.2	15	<1.8	0.5
12-Sep-11	2	<1.8	1.4	33	<1.8	3.1	12-Nov-11	<1.8	<1.8	0.2	<1.8	<1.8	0.5
13-Sep-11	<1.8	<1.8	1.4	<1.8	<1.8	3.1	13-Nov-11	<1.8	<1.8	0.1	<1.8	<1.8	0.5
14-Sep-11	<1.8	<1.8	1.4	<1.8	<1.8	3.1	14-Nov-11	<1.8	<1.8	0.1	<1.8	<1.8	0.5
15-Sep-11	<1.8	<1.8	1.4	<1.8	<1.8	3.1	15-Nov-11	<1.8	<1.8	0.1	<1.8	<1.8	0.5
16-Sep-11	<1.8	<1.8	1.4	<1.8	<1.8	3.1	16-Nov-11	<1.8	<1.8	0.1	<1.8	<1.8	0.5
17-Sep-11	<1.8	<1.8	1.0	<1.8	<1.8	1.4	17-Nov-11	<1.8	<1.8	0.1	<1.8	<1.8	0.5
18-Sep-11	<1.8	<1.8	1.0	<1.8	<1.8	1.4	18-Nov-11	<1.8	<1.8	0.1	<1.8	<1.8	0.5
19-Sep-11	<1.8	<1.8	1.0	<1.8	<1.8	1.4	19-Nov-11	<1.8	<1.8	0.1	<1.8	<1.8	0.5
20-Sep-11	<1.8	<1.8	0.4	<1.8	<1.8	1.2	20-Nov-11	<1.8	<1.8	0.1	<1.8	<1.8	0.5
21-Sep-11	49	<1.8	2.0	7.8	<1.8	1.5	21-Nov-11	<1.8	<1.8	0.1	<1.8	<1.8	0.5
22-Sep-11	<1.8	<1.8	2.0	<1.8	<1.8	1.5	22-Nov-11	NA	<1.8	0.1	NA	<1.8	0.5
23-Sep-11	<1.8	<1.8	2.0	<1.8	<1.8	1.5	23-Nov-11	NA	<1.8	0.1	NA	<1.8	0.5
24-Sep-11	<1.8	<1.8	2.0	<1.8	<1.8	1.5	24-Nov-11	<1.8	<1.8	0.1	<1.8	<1.8	0.5
25-Sep-11	<1.8	<1.8	2.0	<1.8	<1.8	1.5	25-Nov-11	<1.8	<1.8	0.1	<1.8	<1.8	0.5
26-Sep-11	<1.8	<1.8	2.0	<1.8	<1.8	1.5	26-Nov-11	<1.8	<1.8	0.1	<1.8	<1.8	0.5
27-Sep-11	<1.8	<1.8	2.0	<1.8	<1.8	1.5	27-Nov-11	<1.8	<1.8	0.1	<1.8	<1.8	0.5
28-Sep-11	<1.8	<1.8	2.0	2	<1.8	1.6	28-Nov-11	NA	<1.8	0.1	NA	<1.8	0.5
29-Sep-11	1.8	<1.8	2.0	<1.8	<1.8	1.5	29-Nov-11	NA	<1.8	0.1	NA	<1.8	0.5
30-Sep-11	1.8	<1.8	2.1	4.5	<1.8	1.6	30-Nov-11	NA	<1.8	0.1	NA	<1.8	0.5
1-Oct-11	<1.8	<1.8	2.1	<1.8	<1.8	1.6	1-Dec-11	NA	<1.8	0.1	NA	<1.8	0.5
2-Oct-11	<1.8	<1.8	2.1	<1.8	<1.8	1.6	2-Dec-11	NA	<1.8	0.1	NA	<1.8	0.5
3-Oct-11	<1.8	<1.8	2.1	<1.8	<1.8	1.6	3-Dec-11	NA	<1.8	0.1	NA	<1.8	0.5
4-Oct-11	<1.8	<1.8	2.0	<1.8	<1.8	1.6	4-Dec-11	<1.8	<1.8	0.1	<1.8	<1.8	0.5
5-Oct-11	<1.8	<1.8	2.0	<1.8	<1.8	1.6	5-Dec-11	NA	<1.8	0.1	NA	<1.8	0.5
6-Oct-11	<1.8	<1.8	2.0	2	<1.8	1.7	6-Dec-11	NA	<1.8	0.1	NA	<1.8	0.5
7-Oct-11	<1.8	<1.8	2.0	<1.8	<1.8	1.7	7-Dec-11	NA	<1.8	0.1	NA	<1.8	0.5
8-Oct-11	<1.8	<1.8	2.0	<1.8	<1.8	1.7	8-Dec-11	NA	<1.8	0.1	NA	<1.8	0.5
9-Oct-11	<1.8	<1.8	1.9	<1.8	<1.8	1.7	9-Dec-11	NA	<1.8	0.1	NA	<1.8	0.5
10-Oct-11	4.5	<1.8	2.0	2	<1.8	1.7	10-Dec-11	NA	<1.8	0.1	NA	<1.8	0.5
11-Oct-11	2	<1.8	2.0	<1.8	<1.8	1.7	11-Dec-11	NA	<1.8	0.1	NA	<1.8	0.5
12-Oct-11	<1.8	<1.8	2.0	<1.8	<1.8	0.6	12-Dec-11	<1.8	<1.8	0.1	<1.8	<1.8	0.5
13-Oct-11	<1.8	<1.8	2.0	<1.8	<1.8	0.6	13-Dec-11	<1.8	<1.8	0.1	<1.8	<1.8	0.5
14-Oct-11	2	<1.8	2.0	<1.8	<1.8	0.6	14-Dec-11	<1.8	<1.8	0.1	<1.8	<1.8	0.5
15-Oct-11	<1.8	<1.8	2.0	<1.8	<1.8	0.6	15-Dec-11	<1.8	<1.8	0.1	<1.8	<1.8	0.5
16-Oct-11	<1.8	<1.8	2.0	<1.8	<1.8	0.6	16-Dec-11	<1.8	<1.8	0.1	<1.8	<1.8	0.5
17-Oct-11	<1.8	<1.8	2.0	<1.8	<1.8	0.6	17-Dec-11	<1.8	<1.8	0.1	<1.8	<1.8	0.5
18-Oct-11	<1.8	<1.8	2.0	<1.8	<1.8	0.6	18-Dec-11	<1.8	<1.8	0.1	<1.8	<1.8	0.5
19-Oct-11	<1.8	<1.8	2.0	<1.8	<1.8	0.6	19-Dec-11	NA	<1.8	0.1	NA	<1.8	0.5
20-Oct-11	<1.8	<1.8	2.0	<1.8	<1.8	0.6	20-Dec-11	NA	<1.8	0.1	NA	<1.8	0.5
21-Oct-11	<1.8	<1.8	0.4	<1.8	<1.8	0.4	21-Dec-11	NA	<1.8	0.1	NA	<1.8	0.5
22-Oct-11	<1.8	<1.8	0.4	<1.8	<1.8	0.4	22-Dec-11	NA	<1.8	0.1	NA	<1.8	0.5
23-Oct-11	<1.8	<1.8	0.4	<1.8	<1.8	0.4	23-Dec-11	NA	<1.8	0.1	NA	<1.8	0.5
24-Oct-11	<1.8	<1.8	0.4	<1.8	<1.8	0.4	24-Dec-11	NA	<1.8	0.1	NA	<1.8	0.5
25-Oct-11	<1.8	<1.8	0.4	<1.8	<1.8	0.4	25-Dec-11	NA	<1.8	0.1	NA	<1.8	0.5
26-Oct-11	<1.8	<1.8	0.4	<1.8	<1.8	0.4	26-Dec-11	NA	<1.8	0.1	NA	<1.8	0.5
27-Oct-11	<1.8	<1.8	0.4	<1.8	<1.8	0.4	27-Dec-11	NA	<1.8	0.1	NA	<1.8	0.5
28-Oct-11	<1.8	<1.8	0.4	<1.8	<1.8	0.3	28-Dec-11	NA	<1.8	0.1	NA	<1.8	0.5
29-Oct-11	<1.8	<1.8	0.3	<1.8	<1.8	0.3	29-Dec-11	NA	<1.8	0.1	NA	<1.8	0.5
30-Oct-11	<1.8	<1.8	0.3	<1.8	<1.8	0.1	30-Dec-11	NA	<1.8	0.1	NA	<1.8	0.5
31-Oct-11	<1.8	<1.8	0.3	<1.8	<1.8	0.1	31-Dec-11	NA	<1.8	0.1	NA	<1.8	0.5

NA= not analyzed

E. UV Performance 2011

UV PERFORMANCE REPORT  
CY 2011  
Monthly Averages

Date	UV TRANSMITTANCE PCT	UV MIN DOSE mj/cm2	BANK 1 POWER PCT	BANK 2 POWER PCT	BANK 3 POWER PCT	BANK 4 POWER PCT
Jan-11	65.91	173.75	49.58	50.49	47.52	50.93
Feb-11	66.18	168.29	56.41	39.27	55.2	58.69
Mar-11	66	173.57	36.99	43.31	49.61	53.23
Apr-11	67.22	175.87	50.47	53.15	49.77	53.26
May-11	65.8	171.5	65.72	68.31	64.24	68.36
Jun-11	62.58	176.92	79.85	82.2	79.58	81.26
Jul-11	63.29	180.01	76.84	75.96	79.16	78.94
Aug-11	65.89	174.18	74	71.99	75.7	75.81
Sep-11	66.21	173.52	71.48	70.21	73.74	73.29
Oct-11	67.5	174.17	69.28	68.06	72.89	71.91
Nov-11	68.02	177.17	46.68	47.15	48.71	49.61
Dec-11	63.33	157.65	48.32	48.73	50.04	50.64
Average	65.66	173.05	60.47	59.9	62.18	63.83

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