



THE CITY OF SAN DIEGO

March 1, 2012

Mr. David W. Gibson, Executive Officer
California Regional Water Quality Control Board
9174 Sky Park Court, Suite 100
San Diego, CA 92123

Attention: Pretreatment Coordinator

Dear Mr. Gibson:

Subject: Board Order No. R9-2006-0067, NPDES Permit No. CA0109045
CY2011 Pretreatment Annual Report for the South Bay POTW

The City of San Diego South Bay Water Reclamation Plant Pretreatment Program Annual Report for calendar year 2011 is hereby submitted in accordance with the requirements of NPDES Permit No. CA0109045, adopted November 8, 2006. The Pretreatment Program operated by the City of San Diego administers the program for the entire Metropolitan Sewerage System tributary area, under a single budget and implementation strategy. Therefore, this report incorporates sections of the EW Blom Annual Pretreatment Report relating to program budget, structure, and implementation strategy by reference. The City is committed to protecting public health and the environment through a program of environmental management, which includes source control, wastewater treatment, and extensive monitoring. One key element of the program is an aggressive pretreatment and pollution prevention program to minimize toxic discharges to the sewerage system.



Industrial Wastewater Control Program • Metropolitan Wastewater

9192 Topaz Way • San Diego, CA 92123-1119
Tel (858) 654-4100 Fax (858) 654-4110



Page 2
Mr. David W. Gibson, Executive Officer
March 1, 2012

This report includes a summary of Pretreatment Program activities and accomplishments throughout jurisdictions tributary to the South Bay Water Reclamation Plant.

Should you have any questions concerning the information provided herein, or wish to meet with City staff to discuss the report in detail, please contact me at (619) 758-2300.

Sincerely,



Am Steve Meyer
Deputy Public Utilities Director

BLS:

Enclosure: CD containing PDF file of Report

cc: Keith Silva, Pretreatment Coordinator, EPA Region IX
Regulatory Unit, Water Quality Div., State Water Resources Control Board
Roger Bailey, Director of Public Utilities, City of San Diego (w/o enclosures)
Ann Sasaki, Assistant Director of Public Utilities, City of San Diego (w/o enclosures)
Barbara Sharatz, Pretreatment Program Manager, City of San Diego
File

POTW PRETREATMENT ANNUAL REPORT

COVER SHEET

NPDES Permit Holder or Sewer Authority Name: City of San Diego
Report Date: March 1, 2012
Period Covered by This Report: January 1, 2011 to December 31, 2011
Period Covered by Previous Report: January 1, 2011 to December 31, 2011

Name of Wastewater Treatment Plant(s)

South Bay Water Reclamation Plant

NPDES Permit Number

CA 0109045

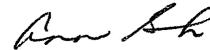
Person to contact concerning information contained in this report:

Name: Barbara Sharatz
Title: Industrial Wastewater Control Program Manager
Mailing Address: 9192 Topaz Way, MS 901D
San Diego, CA 92123-1119
Telephone No.: (858) 654-4106

I have personally examined and am familiar with the information submitted in this document and attachments. Based upon my inquiry of those individuals immediately responsible for obtaining the information reported herein, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

2/29/12

Date



Steve Meyer

Deputy Public Utilities Director

Title

BLS:bjl

PRETREATMENT ANNUAL REPORT

PCS Data Entry Form

PPS1

POTW NAME: City of San Diego South Bay Water Reclamation Plant and Ocean Outfall

NPDES Permit #: CA0109045

Period Covered By This Report: 01/01/11 (PSSD) 12/31/11(PSED)
Start Date End Date

Number of Significant Industrial Users in SNC With Pretreatment Compliance Schedule: 0 (SSNC)

Number of Notices of Violation and Administrative Orders Issued Against Significant Industrial Users: 33 (FENF)

Number of Civil & Criminal Judicial Actions Against Significant Industrial Users: 0 (JUDI)

Number of Significant Industrial Users With Significant Violations Published: 2 (SVPU)

Number of Industrial Users From Which Penalties Have Been Collected: 0 (IUPN)



THE CITY OF SAN DIEGO

SOUTH BAY WATER RECLAMATION PLANT & OCEAN OUTFALL ANNUAL PRETREATMENT REPORT

NPDES PERMIT No. CA 0109045
SDRWQCB ORDER No. R9-2006-0067

JANUARY 1 – DECEMBER 31, 2011



Environmental Monitoring and Technical Services
Public Utilities Department
2392 Kincaid Road • Mail Station 45A • San Diego, CA 92101
Tel (619) 758-2310 • Fax (619) 758-2309



**CY2011 ANNUAL PRETREATMENT REPORT
FOR
SOUTH BAY WATER RECLAMATION PLANT**

I. Description of the South Bay Water Reclamation Plant and Its Service Area

The South Bay Water Reclamation Plant (SBWRP) is located on a 22.3 acre site near Dairy Mart Road and Monument Road in the eastern portion of the Tijuana River Valley. The site is approximately 300 feet north of the international boundary between Mexico and the United States and approximately 2000 feet west of the International Wastewater treatment Plant. The SBWRP treats raw wastewater collected from the southern portion of the City of San Diego, the City of Imperial Beach, the City of Chula Vista, and the unincorporated portions of south and east San Diego County, a total of approximately 44 square miles, and serves a population of nearly 107,000 people.

The plant is designed to treat up to 15 MGD of raw wastewater to secondary and/ or tertiary reclaimed water standards. All SBWRP tertiary treated wastewater in excess of reclaimed water demands is discharged to the Pacific Ocean through the South Bay Ocean Outfall (SBOO). The SBOO was constructed for shared use by the International Wastewater treatment Plant (IWTP), which is operated by the International Boundary and Water Commission (IBWC), and the City of San Diego's SBWRP. The SBOO extends westward approximately 23,600 feet from the mouth of the Tijuana River and terminates in a "wye" diffuser with two 1980 foot long diffusers. The IWTP currently discharges a maximum of 25 MDG of advanced primary treated wastewater from the City of Tijuana. This discharge is regulated by Regional Board Order No. 96-50 (NPDES Permit No. CA0108928). The total average design capacity of the outfall is 174 MGD with a peak hydraulic capacity of 233 MGD. The effluent from the SBWRP is combined with the effluent from the IWTP within the SBOO prior to discharge to the Pacific Ocean.

The SBWRP's primary and secondary processes consist of influent screening using mechanically cleaned bar screens, grit removal using aerated grit chambers, primary sedimentation clarifiers with chain and flight sludge collectors and tilting trough scum collectors, primary effluent flow equalization storage tanks, air activated sludge biological treatment with anoxic selector, and secondary clarifiers with chain and flight sludge collectors. The tertiary treatment process consists of filter feed pumping, coagulation with chemical addition, direct filtration with conventional deep bed mono-media filters, backwash facilities, and disinfection using ultraviolet light. Sludge processing is handled at the Point Loma Wastewater Treatment plant (PLWWTP) and the Metropolitan Biosolids Center. Solids from the SBWRP are pumped to the PLWWTP through the South Metro Interceptor.

The South Bay Water Reclamation Plant (SBWRP) began operations in CY2002, accepting an average of 3.5 MGD influent through the Grove Avenue Pump Station (GAPS). In October 2003 the Otay River Pump Station (ORPS) came on-line. The ORPS is divided into two pumping streams, with one sending high TDS flows from the Imperial Beach Sewer directly to the South Metro Interceptor influent to the Point Loma plant, and the other sending flows from the Otay Trunk Sewer and Salt Creek Trunk Sewer to the GAPS. Since start-up, the ORPS facility has been directing nearly 5 MGD to the GAPS, which combines

with the on-going 3.5 MGD GAPS flow for a total of 8.2 MGD influent to the SBWRP. In that some wastewater from areas tributary to the GAP and ORPS is able to be diverted to the PLWWTP via the South Metro Interceptor, facilities tributary to the GAP and ORPS are included in Annual Pretreatment Reports for both plants.

During CY2011 the program administered 11 SIU permits, covering 13 outfalls and monitored at 13 sample points. Two outfalls at 2 facilities were in SNC during the year. These facilities are included in the calculation of the Metro System annual Significant Non-Compliance Rate reported in the CY2011 Pretreatment Annual Report for the Pt Loma POTW, Board Order No. R9-2009-0001, NPDES Permit No. CA0109045.

II.

A. Summary of analytical results from representative flow-proportioned, 24-hour composite sampling of the SBWRP influent and effluent for those pollutants that the USEPA has identified under Section 307(a) of the CWA, and which are known or suspected to be discharged by industrial users. The summary must include a full priority pollutant scan.

Tables II.A-1 and II.A-2, below, summarize influent and effluent heavy metal loadings by month.

Pages 32 through 47 provide results for all influent and effluent pollutant monitoring during CY2011. These reports were extracted from the South Bay Treatment Plant and Ocean Outfall Annual Report. The summary includes a full priority pollutant scan.

**TABLE II.A-1
SOUTH BAY WATER RELAMATION PLANT INFLUENT HEAVY METALS
Average Concentration and Loadings for 2011**

Month	Flow MGD	Cd ug/L	Cr ug/L	Cu ug/L	Pb ug/L	Ni ug/L	Ag ug/L	Zn ug/L
MDL(ug/L)		0.53	1.2	0.63	2	0.53	0.40	0.41
Jan	8.3	0.6	2.9	62	0	4.5	0.6	124
Feb	8.4	0	2.7	69	2.8	5.6	0.7	140
Mar	8.4	0	1.6	55	0	4.3	0.8	118
Apr	8.4	0	2.8	65	3.4	4.8	0	144
May	8.5	0	2.4	70	2.5	5	0.7	149
Jun	8.4	0.54	4.7	158	0	19.5	0.8	243
Jul	8.4	0	3.3	128	0	8.3	0	194
Aug	8.3	0	2.3	72	0	1.2	0.0	159
Sep	7.8	0	0	80	3.1	7.6	2.2	177
Oct	7.8	0	2.1	70	0	5.5	0	153
Nov	8.0	0	7.6	71	4.5	7.7	0	153
Dec	8.0	0.8	2.5	126.0	0.0	22.4	1.7	132
Avg Flow	8.2							
Avg ug/L		0.2	2.9	86	1.4	8	0.6	157
LBS/day		0.0	0.2	6	0.1	1	0.0	11
Total HM	17.53							
Total(-)Ag	17.49							

**TABLE II.A-2
SOUTH BAY WATER RELAMATION PLANT EFFLUENT HEAVY METALS
Average Concentration and Loadings for 2011**

Month	Flow MGD	Cd ug/L	Cr ug/L	Cu ug/L	Pb ug/L	Ni ug/L	Ag ug/L	Zn ug/L
MDL(ug/L)		0.53	1.2	2	2	0.53	0.40	2.50
Jan	5.9	0.265	0	17	0	5.3	0	29
Feb	5.5	0	0	16	0	55.3	0	28
Mar	6.2	0	0	13	0	4.2	0	36
Apr	4.0	0	0	18	0	6.3	0	27
May	2.5	0	0	22	0	5.0	0	30
Jun	1.5	0	0	13	0	5.1	0	26
Jul	1.2	0	0	11	0	5.8	0	21
Aug	0.5	0	0	6	0	2.8	0	28
Sep	0.8	0	0	7	0	8.1	0.6	31
Oct	2.1	0	0	7	0	6.7	0	30
Nov	6.0	0	0	9	3.4	6.0	0	26
Dec	6.4	0	0	12	0	12.8	0	31
Avg Flow	3.5							
Avg ug/L		0.0	0.0	13	0.3	10.3	0.1	29
LBS/day		0.0	0.0	0.4	0.0	0.3	0.0	1
Total HM	1.5							
Total(-)Ag	1.5							

B. Upset, Interference, and Pass-through

In CY2011, there were no reported incidents of interference with ORPS operations or the treatment plant by rags, suggesting the sewer grinder and solids removal system installed by the RJ Donovan Correctional Center is reliable and effective.

In CY2011, one (1) influent value and no effluent values exceeded the SBWRP reclaimed water TDS limit of 1200 mg/L and 42 influent values exceeded the reclaimed water goal of 1000 ppm TDS. These elevated TDS levels have been attributed to infiltration and to an increase in the number of SIUs tributary to the plant discharging high TDS wastestreams from food processing, self-regenerating water softeners, laundering, and power generation cooling systems. The program conducts monthly sewershed monitoring for TDS to quickly identify infiltration. A study conducted in FY2009 determined that, even if the regulated industries in the SBWRP sewershed eliminated their water softeners, the plant would likely still need to install TDS removal technology to consistently meet reclaimed water sale standards. The Public Utilities Department is planning to move an EDR unit from the North City WRP to the South Bay WRP by the end of CY14.

C. List of Deletions, Additions, and Name Changes of Significant Industrial Users during CY2011

Table 3.9-1: Changes in SIU Inventory – 2011					
Facility	Name	Class	Permit	Date	Comments
FACILITIES THAT BECAME SIUs IN 2011			Note: UT; = Extracted Groundwater Permit		
12-02440	Harcon Precision Metals Inc	1	01-A	18-Feb-11	MF, PSNS, iron phosphating on Aluminum (99%) and steel (1%) base metals.
12-0245	UT; BRH Garver West Inc	3	01-A	10-May-11	Construction dewatering > 25,000 gpd
SIU FACILITIES THAT REPORTED A NAME CHANGE IN 2011					
IU #	TO	Class	Permit	Date	FROM
33-0044	Coating Services Group LLC	1	02-A	11-Feb-11	Molecular Metallurgy Inc
FORMER SIU FACILITIES THAT BECAME NON-SIUs IN 2011					
Facility	Name	Class	Permit	Date	Comments
None					
SIU FACILITIES INACTIVATED IN 2011					
Facility	Name	Class	Permit	Date	Comments
12-0212	Cantare Foods Inc	3	01-B	07-Jun-11	Permit suspended 15-Apr-2011 due to cessation of operations pending new investor / buyer.
12-0245	UT; BRH Garver West Inc	3	01-B	02-Aug-11	Project completed

D. Baseline Monitoring Reports Requested or Received in CY2011

Table 3.10-1			
Facility Name	Facility #	BMR Requested	BMR Received
None			

E. Characterization of the Compliance Status of Each SIU

The Annual SIU Compliance Status Report for CY2011, which follows, lists the industry name, address, permit number, permit class; industrial flow by connection; violation dates and descriptions, if applicable; discharge standard and period, and actual value resulting in the violation; whether the violation exceeded the TRC; and whether the industry has been in Significant Non-Compliance (SNC) at any time during the year.

F. Pollution Prevention Plan Requirements

No IUs have been required to prepare or implement a pollution prevention plan as the result of non-compliance.

G. Programs San Diego has implemented to reduce pollutants from industrial users not classified as SIUs

The Metropolitan Wastewater Department of San Diego controls pollutants discharged by non-SIUs and by non-industrial sources through a combination of Class 2 and 3 permits, Best Management Practice Certification programs, and Hazardous Waste Collection events and facilities throughout the Metropolitan Sewerage System service area in cooperation with contributing agencies. For details, see Chapters Two and Three of the CY2011 Annual Report for the Point Loma POTW, NPDES Permit No. CA 0109045.

H. Pretreatment Program Changes

During CY2011, the program made the following significant changes: None

There were no significant changes in operating the pretreatment program in the areas of administrative structure, local limits, monitoring program, legal authority, enforcement policy, or funding or staffing levels.

I. Annual Pretreatment Program Budget

The pretreatment program budget is administered as a single budget for the three treatment plants in the Metropolitan Sewerage System service area. See Chapter 2 of the CY2011 Annual Report for the Point Loma POTW, NPDES Permit No. CA 0109045, for details.

J. Public Information and Involvement

Each year, a combined list of all facilities in the Metropolitan Sewerage System service area that were in SNC at any time during the year is published in the Union Tribune; this list is included in Chapter 4 of the CY2011 Annual Report for the Point Loma POTW NPDES Permit No. CA0109045.

In CY2011, the following SIUs discharging tributary to the SBWRP were in Significant Non-Compliance:

Name	Address	Pollutant in Violation
Doncasters GCE Industries	1891 Nirvana Ave, Chula Vista	silver
Spec-Built Systems Inc	2150 Michael Faraday Dr, San Diego	zinc

K. Biosolids Disposal Methods

Biosolids from the SBWRP is conveyed to the Miramar Biosolids Center for processing and disposal in combination with biosolids from throughout the Metropolitan Sewerage System service area. See Chapter 5 Section 5.5 of the CY2011 Annual Report for the Point Loma POTW, NPDES Permit No. CA 0109045, for details on CY11 biosolids disposal locations and beneficial uses.

L. Other Concerns

There are no other concerns pertaining to the administration of the pretreatment program or control of industrial contributions to the headworks loadings at the SBWRP at this time.

Distribution of Permits and Industrial Flows by Area Treatment Plant 6

Report run on: January 6, 2012 4:54 PM

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Class	1		2		2F		3		4		4C		4D		5		Total	Total
Area	Count	IW (gpd)	Count	IW (gpd)	Count	IW (gpd)	Count	IW (gpd)	Count	IW (gpd)	Count	IW (gpd)	Count	IW (gpd)	Count	IW (gpd)	Permits	flow (gpd)
12	3	576	5	15,454	18	1	5	248,542	74	23,302	4		2	0	7		118	287,875
13	1	878	5	6,982	17	518	2	6,711	48	17,135	0		1	0	6		80	32,224
36	1	43,200	0		0		0		2	917	0		0		0		3	44,117
	5	44,654	10	22,436	35	519	7	255,253	124	41,354	4		3	0	13		201	364,216

Active Permits, Treatment Plant 6

Report run on: February 24, 2012 12:53 PM

Description	SIU SIU Type	Permit Count
1 - Federally Regulated CIU	Y CIU	5
		5
2 - Local Toxic Pollutants	N	10
		10
2F - Film Processing only	N	35
		35
3 - Local Conventional Pollutants	N	2
	Y FLOW	5
		7
4 - No/Limited Discharge; Chemicals Stored	N	124
		124
4C - No/Limited Discharge; CIU process w/ 0 disch	N CIU ZERO	4
		4
4D - Dry Cleaning only, no perc discharge	N	3
		3
5 - No IW Generated: No potential to discharge	N	14
		14
Total:		202

SIU Facilities: Federally and Locally Regulated Parameters by Connection Treatment Plant 6

Report run on: January 6, 2012 5:07 PM

Page 1

Facility	Permit	Name	Address	Conn	Total IW (gpd)	Parmcode	City freq	Self freq	Cat	Period	Lower Limit	Upper Limit	Units
12-0038	04-A	RJ Donovan Correctional Facility	480 Alta Rd , San Diego	100	50,028	OIL/GREASE	H	H	L	DM		500	mg/L
						PH	H	H	L	DM	5	12.5	pH
12-0065	03-C	Emerald Textiles LLC	1725 Dornoch Ct , San Diego	110	67,678	OIL/GREASE	Q	Q	L	DM		500	mg/L
						PH	Q	Q	L	DM	5	12.5	pH
12-0144	03-A	AP Precision Metals	1215 30th St , San Diego	110	264	CADMIUM	Q	Q	F	DM		.11	mg/L
										MO		.07	mg/L
						CHROMIUM	Q	Q	F	DM		2.77	mg/L
										MO		1.71	mg/L
						COPPER	Q	Q	F	DM		3.38	mg/L
										MO		2.07	mg/L
						CYANIDE(T)	Q	Q	F	DM		1.2	mg/L
										MO		.65	mg/L
						LEAD	Q	Q	F	DM		.69	mg/L
										MO		.43	mg/L
						NICKEL	Q	Q	F	DM		3.98	mg/L
										MO		2.38	mg/L
						PH	Q	Q	L	DM	5	12.5	pH
						SILVER	Q	Q	F	DM		.43	mg/L
										MO		.24	mg/L
						TTO(413+433)-P	A	Q	F	DM		2130	ug/L
						ZINC	Q	Q	F	DM		2.61	mg/L
										MO		1.48	mg/L
12-0154	03-A	Heinz Frozen Foods	7878 Airway Rd , San Diego	110	62,361	CHROMIUM	Q	Q	L	DM		5	mg/L
						OIL/GREASE	M	M	L	DM		500	mg/L
						PH	M	M	L	DM	5	12.5	pH
						PH HIGHEST	N		L	DM		12.5	pH
						TEMP	M	M	F	DM		65.5	DegC
12-0202	02-A	Spec-Built Systems Inc	2150 Michael Faraday Dr , San Diego	110	26	CADMIUM	Q	Q	F	DM		.11	mg/L
										MO		.07	mg/L
						CHROMIUM	Q	Q	F	DM		2.77	mg/L
										MO		1.71	mg/L
						COPPER	Q	Q	F	DM		3.38	mg/L
										MO		2.07	mg/L
						CYANIDE(T)	Q	Q	F	DM		1.2	mg/L
										MO		.65	mg/L
						LEAD	Q	Q	F	DM		.69	mg/L
										MO		.43	mg/L
						NICKEL	Q	Q	F	DM		3.98	mg/L
										MO		2.38	mg/L
						PH	Q	Q	L	DM	5	12.5	pH
						SILVER	Q	Q	F	DM		.43	mg/L
										MO		.24	mg/L
						TTO(413+433)-P	A	Q	F	DM		2130	ug/L

SIU Facilities: Federally and Locally Regulated Parameters by Connection Treatment Plant 6

Report run on: January 6, 2012 5:07 PM

Page 2

Facility	Permit	Name	Address	Conn	Total IW (gpd)	Parmcode	City freq	Self freq	Cat	Period	Lower Limit	Upper Limit	Units
12-0202	02-A	Spec-Built Systems Inc	2150 Michael Faraday Dr , San Diego	110	26	ZINC	Q	Q	F	DM		2.61	mg/L
										MO		1.48	mg/L
12-0220	01-A	Circle Foods LLC	8411 Siempre Viva Rd , San Diego	110	30,000	OIL/GREASE	M	M	L	DM		500	mg/L
						PH	M	M	L	DM	5	12.5	pH
						PH HIGHEST	N		L	DM		12.5	pH
						TEMP	M	M	L	DM		65.5	DegC
12-0244	01-C	Harcon Precision Metals Inc	1790 Dornoch Ct , San Diego	110	286	CADMIUM	S	S	F	DM		.11	mg/L
										MO		.07	mg/L
						CHROMIUM	S	S	F	DM		2.77	mg/L
										MO		1.71	mg/L
						COPPER	S	S	F	DM		3.38	mg/L
										MO		2.07	mg/L
						CYANIDE(T)	S	S	F	DM		1.2	mg/L
										MO		.65	mg/L
						LEAD	S	S	F	DM		.69	mg/L
										MO		.43	mg/L
						NICKEL	S	S	F	DM		3.98	mg/L
										MO		2.38	mg/L
						PH	S	S	L	DM	5	12.5	pH
						PH HIGHEST	S		L	DM		12.5	pH
						SILVER	S	S	F	DM		.43	mg/L
										MO		.24	mg/L
						TTO(413+433)-P	A	S	F	DM		2130	ug/L
						ZINC	S	S	F	DM		2.61	mg/L
										MO		1.48	mg/L
12-0264	01-A	UT; SC Valley Engineering Inc	Palm City TrunkSewer , San Diego	100	38,400	FLOW RATE MAX		M	L	DM		80	gpm
13-0115	04-B	Doncasters GCE Industries	1891 Nirvana Av , Chula Vista	330	93	CADMIUM	Q	Q	F	DM		.11	mg/L
										MO		.07	mg/L
						CHROMIUM	Q	Q	F	DM		2.77	mg/L
										MO		1.71	mg/L
						COPPER	Q	Q	F	DM		3.38	mg/L
										MO		2.07	mg/L
						CYANIDE(T)	Q	Q	F	DM		1.2	mg/L
										MO		.65	mg/L
						LEAD	Q	Q	F	DM		.69	mg/L
										MO		.43	mg/L
						NICKEL	Q	Q	F	DM		3.98	mg/L
										MO		2.38	mg/L
						PH	Q	Q	L	DM	5	12.5	pH
						PH HIGHEST	S		L	DM		12.5	pH
						SILVER	Q	Q	F	DM		.43	mg/L
										MO		.24	mg/L
						TTO(413+433)-P	A	Q	F	DM		2130	ug/L

SIU Facilities: Federally and Locally Regulated Parameters by Connection Treatment Plant 6

Report run on: January 6, 2012 5:07 PM

Page 3

Facility	Permit	Name	Address	Conn	Total IW (gpd)	Parmcode	City freq	Self freq	Cat	Period	Lower Limit	Upper Limit	Units
13-0115	04-B	Doncasters GCE Industries	1891 Nirvana Av , Chula Vista	330	93	ZINC	Q	Q	F	DM		2.61	mg/L
											MO		1.48
				410	784	CADMIUM	Q	Q	F	DM		.11	mg/L
										MO		.07	mg/L
						CHROMIUM	Q	Q	F	DM		2.77	mg/L
										MO		1.71	mg/L
						COPPER	Q	Q	F	DM		3.38	mg/L
										MO		2.07	mg/L
						CYANIDE(T)	Q	Q	F	DM		1.2	mg/L
										MO		.65	mg/L
						LEAD	Q	Q	F	DM		.69	mg/L
										MO		.43	mg/L
						NICKEL	Q	Q	F	DM		3.98	mg/L
										MO		2.38	mg/L
						PH	Q	Q	L	DM	5	12.5	pH
						PH HIGHEST	S		L	DM		12.5	pH
						SILVER	Q	Q	F	DM		.43	mg/L
				MO		.24	mg/L						
				DM		2130	ug/L						
				DM		2.61	mg/L						
				MO		1.48	mg/L						
36-0001	01-A	Otay Mesa Energy Center LLC	606 De La Fuente Ct , San Diego	110	43,000	CHROMIUM	Q	Q	F	DM		.2	mg/L
						OIL/GREASE	Q	Q	L	DM		500	mg/L
						PH	Q	Q	L	DM	5	12.5	pH
						PH HIGHEST	N		L	DM		12.5	pH
						TDS	Q	Q	O	DM		3200	mg/L
						ZINC	Q	Q	F	DM		1	mg/L

SIU Facilities Federal Category, Process, and Pretreatment Technology by Connection Treatment Plant 6

Report run on: January 6, 2012 5:09 PM

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Facility	Permit	Name	IW Discharged (gpd)	Conn	Principle Process	Federal/Local	CFR Part	CFR Section	Order	Pre Treat Code
12-0038	04-A	RJ Donovan Correctional Facility	50,028	100	Prison Sewer Main	Local	130		1	GREASE
							133		2	GRIND
									3	SCREEN
12-0065	03-C	Emerald Textiles LLC	67,703	110	Commercial Laundry	Local	133		1	LINT
									2	SETTLE
									3	HAUL
12-0144	03-A	AP Precision Metals	264	110	Metal Coating (Iron Phosphating)	Federal	433	.17	1	PH
									2	SETTLE
12-0154	03-A	Heinz Frozen Foods	62,411	110	Food Manufacturing	Local	137		1	EQUAL
									2	SCREEN
									3	DAF+C
									4	GREASE
									5	HAUL
12-0202	02-A	Spec-Built Systems Inc	26	110	Iron Phosphating	Federal	433	.17	1	SETTLE
									2	RECYL
									3	CC
									4	PH
									5	MIXER
									6	HAUL
12-0220	01-A	Circle Foods LLC	30,000	110	Food manufacturing	Local	137		1	EQUAL
									2	SCREEN
									3	DAF+C
									4	SD-FP
12-0244	01-C	Harcon Precision Metals Inc	286	110	Chemical conversion coating & water Jet	Federal	433	.17	1	PH
									2	MIXER
									3	SETTLE
									4	HAUL
									5	EVAP
12-0264	01-A	UT; SC Valley Engineering Inc	38,400	100	Groundwater	Local	101		1	FILT-O
13-0115	04-B	Doncasters GCE Industries	878	200	Bldg 2 Lateral, 1887 Nirvana Av	Local			1	ZERO
									2	HAUL
				300	Bldg 3 Lateral, 757 Main St	Local	130		1	ERU+1
									2	HAUL

SIU Facilities Federal Category, Process, and Pretreatment Technology by Connection Treatment Plant 6

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Facility	Permit	Name	IW Discharged (gpd)	Conn	Principle Process	Federal/ Local	CFR Part	CFR Section	Order	Pre Treat Code
13-0115	04-B	Doncasters GCE Industries	878	330	Dye Pen / Vibra Clean	Federal	433	.17	1	SETTLE
									2	IX
									3	FILT-O
			410	Dye Pen / Water Jet Cutting	Federal	433	.17	1	SETTLE	
								2	IX	
								3	FILT-O	
36-0001	01-A	Otay Mesa Energy Center LLC	43,200	110	WetSac blowdown + OWS	Federal	423	.17	1	SETTLE
									2	PH
			120	PCB zero discharge	Federal	423	.17	1	ZERO	

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SIU Enforcement Actions Initiated, Continued, or Finalized in CY2011

Doncasters GCE Industries; IU# 13-0115

This sheet metal fabricator of components for stationary turbine power units discharges about 250 gpd to connections 330 and 410 from dye penetrant testing, vibratory cleaning, and water jet cutting. At connection 330, daily maximum and monthly average violations for silver in April and June resulted in SNC status for the six-month period ending with the 2nd quarter of 2011. NOVs were issued for the violations and additional program monitoring has been scheduled. In response the IU replaced its silver recovery system and began conducting periodic silver checks of the system. All 10 subsequent samples collected (7 by the program) in 2011 and January 2012 demonstrated compliance. No further enforcement actions are planned.

Spec-Built Systems Inc; IU# 12-0202

This metal finisher performs iron phosphating on maritime cabinets and shelves. In 2008 the IU began reusing its rinsewater and batch discharging after settling at a frequency of once each quarter, equivalent to about 25 gpd. After demonstrating compliance since June 2009, a single monthly average violation for zinc in October 2011 resulted in SNC status for the 4th quarter. An NOV was issued and the IU's response and next discharge is still outstanding. Thus additional program monitoring will continue into 2012 to determine whether the IU needs to take further corrective actions to achieve consistent compliance.

Annual SIU Compliance Status Report

01-Jan-2011 through 31-Dec-2011

SIU Name	IU#	Class	IW Disch	SNC?	[If Yes, Why]	Conn	Violation Date	Description/Parameter	Value	Limit	Period	Cat	TRC
AP Precision Metals 1215 30th St, San Diego	12-0144	1	264	No		NA							
Cantare Foods Inc 7651 Saint Andrews Av, San Diego	12-0212	3	26210	No		100	18-Jan-11	SMR Incomplete					
						100	19-Jan-11	SMR Incomplete					
						100	31-Jan-11	pH-Instantaneous	4.2	5-12.5	DM	L	N
						100	01-Feb-11	SMR Incomplete					
						100	28-Feb-11	SMR Incomplete					
						210	18-Jan-11	SMR Incomplete					
						210	08-Feb-11	SMR Incomplete					
						210	28-Feb-11	SMR Incomplete					
Circle Foods LLC 8411 Siempre Viva Rd, San Diego	12-0220	3	30000	No		110	28-Sep-11	SMR Late - written notice					
Doncasters GCE Industries 1891 Nirvana Av, Chula Vista	13-0115	1	878	Yes	SNC2 - TRC (DM): Ag 3/7(q2), (MO): Ag 2/4(q2)	330	01-Apr-11	Silver, Total	.998	.24	MO	F	Y
						330	26-Apr-11	Silver, Total	.998	.43	DM	F	Y
						330	01-Jun-11	Silver, Total	1.25	.24	MO	F	Y
						330	01-Jun-11	Silver, Total	1.42	.43	DM	F	Y
						330	02-Jun-11	Silver, Total	3.58	.43	DM	F	Y
Emerald Textiles LLC 1725 Dornoch Ct, San Diego	12-0065	3	67703	No		NA							
Harcon Precision Metals Inc 1790 Dornoch Ct, San Diego	12-0244	1	286	No		110	18-Jul-11	SMR Incomplete					
Heinz Frozen Foods 7878 Airway Rd, San Diego	12-0154	3	62411	No		NA							

Annual SIU Compliance Status Report

01-Jan-2011 through 31-Dec-2011

SIU Name	IU#	Class	IW Disch	SNC?	[If Yes, Why]	Conn	Violation Date	Description/Parameter	Value	Limit	Period	Cat	TRC
Otay Mesa Energy Center LLC 606 De La Fuente Ct, San Diego	36-0001	1	43200	No		NA							
RJ Donovan Correctional Facility 480 Alta Rd, San Diego	12-0038	3	50028	No		100	27-Jan-11	SMR Late - written notice					
						100	22-Feb-11	SMR Incomplete					
						100	13-Jul-11	SMR Incomplete					
Spec-Built Systems Inc 2150 Michael Faraday Dr, San Diego	12-0202	1	26	Yes	SNC2 - TRC (MO): Zn 1/2(q4)	110	28-Jan-11	SMR Incomplete					
						110	01-Oct-11	Zinc, Total	1.84	1.48	MO	F	Y
						110	16-Nov-11	SMR Incomplete					
UT; BRH Garver West Inc 0000 Hollister&Starburst, San Diego	12-0245	3	360000	No		100	29-Jun-11	SMR Late - written notice					
						100	24-Aug-11	SMR Late - written notice					

SBWRP SIU NOV Summary for 2011

Name	FACILIT	Conn	NOV	Identified	Action	Viol_Date	Fee	Level	
Cantare Foods Inc	12-0212	100	59569	20-JUL-10	19-JAN-11	27-MAY-10	\$75	Second notice	
			60182	30-JUN-10	03-MAY-11	30-JUN-10	\$382	Final notice	
			60208	07-SEP-10	19-JAN-11	30-JUL-10	\$75	Second notice	
			60231	29-SEP-10	19-JAN-11	27-AUG-10	\$50	Notice only	
			60479	27-OCT-10	19-JAN-11	30-SEP-10	\$50	Notice only	
			60563	01-NOV-10	19-JAN-11	30-JUN-10	\$50	Notice only	
			61117	18-JAN-11	19-JAN-11	10-DEC-10	\$50	Notice only	
			210	61118	18-JAN-11	18-JAN-11	30-NOV-10	\$50	Notice only
			100	61206	19-JAN-11	19-JAN-11	31-AUG-10	\$50	Notice only
			61207	19-JAN-11	19-JAN-11	30-SEP-10	\$50	Notice only	
			61248	20-JAN-11	20-JAN-11	07-DEC-10	\$100	Initial notice	
			61362	01-FEB-11	01-FEB-11	31-DEC-10	\$50	Notice only	
			210	61438	08-FEB-11	08-FEB-11	31-DEC-10	\$50	Notice only
			100	61897	28-FEB-11	28-FEB-11	\$50	Notice only	
			210	61898	28-FEB-11	28-FEB-11	31-JAN-11	\$50	Notice only
			100	61992	14-MAR-11	25-MAR-11	01-FEB-11	\$50	Notice only
*****	*****	-----	*****	*****	-----				
count			16						
sum						\$1,232			
Circle Foods LLC	12-0220	110	64114	28-SEP-11	28-SEP-11		\$50	Notice only	
			*****	*****	-----	*****	*****	-----	
count			1						
sum						\$50			
Doncasters GCE Industries	13-0115	330	62549	24-MAY-11	24-MAY-11	26-APR-11	\$100	Initial notice	
			63029	15-JUN-11	15-JUN-11	01-JUN-11	\$100	Initial notice	
						24-AUG-11	01-JUN-11	\$75	Second notice
			63606	22-AUG-11	22-AUG-11	26-APR-11	\$50	Notice only	
			63825	22-AUG-11	22-AUG-11	21-JUN-11	\$50	Notice only	
			63901	24-AUG-11	24-AUG-11	02-JUN-11	\$50	Notice only	
*****	*****	-----	*****	*****	-----				
count			6						
sum						\$425			
Harcon Precision Metals Inc	12-0244	110	63204	18-JUL-11	01-NOV-11	15-FEB-11	\$100	Final notice	
			*****	*****	-----	*****	*****	-----	
count			1						
sum						\$100			
Heinz Frozen Foods	12-0154	110	61247	20-JAN-11	20-JAN-11	15-DEC-10	\$100	Initial notice	
			*****	*****	-----	*****	*****	-----	
count			1						
sum						\$100			
RJ Donovan Correctional Facility	12-0038	100	61351	27-JAN-11	27-JAN-11		\$50	Notice only	
				61828	22-FEB-11	23-FEB-11	31-DEC-10	\$50	Notice only
				63201	13-JUL-11	13-JUL-11		\$50	Notice only
			*****	*****	-----	*****	*****	-----	
count			3						
sum						\$150			
Spec-Built Systems Inc	12-0202	110	61357	28-JAN-11	28-JAN-11		\$100	Final notice	
			61358	28-JAN-11	28-JAN-11		\$100	Final notice	
			64454	16-NOV-11	23-NOV-11	07-JUL-11	\$50	Notice only	
			*****	*****	-----	*****	*****	-----	
count			3						
sum						\$250			
UT; BRH Garver West Inc	12-0245	100	63148	29-JUN-11	29-JUN-11		\$50	Notice only	
			63912	24-AUG-11	24-AUG-11		\$50	Notice only	
			*****	*****	-----	*****	*****	-----	
count			2						
sum						\$100			
*****	*****	-----	*****	*****	-----				
count			33						
sum						\$2,407			

33 rows selected.

Sampling at SIUs Discharging to Treatment Plant 6
between 01-JAN-11 and 31-DEC-11

Report run on: February 17, 2012 2:25 PM

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Facility	Pmt	Name	Conn	Principle Process	Pmt Include	Parmcode	City Samples	Self Samples
12-0038	04-A	RJ Donovan Correctional Facility	100	Prison Sewer Main	L	OIL/GREASE	6	6
						PH	6	6
						SILVER CERT		2
12-0065	03-C	Emerald Textiles LLC	110	Commercial Laundry	L	OIL/GREASE	4	4
						PH	4	4
12-0144	03-A	AP Precision Metals	110	Metal Coating (Iron Phosphating)	F	CADMIUM	4	4
						CHROMIUM	4	4
						COPPER	4	4
						CYANIDE(T)	4	4
						FLOW		4
						LEAD	4	4
						NICKEL	4	4
						PH	4	4
						SILVER	4	4
						TTO CERT		4
						TTO(413+433)-P	1	
12-0154	03-A	Heinz Frozen Foods	110	Food Manufacturing	L	ZINC	4	4
						CHROMIUM	4	4
						OIL/GREASE	23	12
						PH	26	12
						PH HIGHEST		
						PH LOWEST		
12-0202	02-A	Spec-Built Systems Inc	110	Iron Phosphating	F	TEMP	20	12
						CADMIUM	3	1
						CHROMIUM	3	1
						COPPER	3	1
						CYANIDE(T)	3	1
						FLOW		4
						LEAD	3	1
						NICKEL	3	1
						PH	3	1
						SILVER	3	1
						TTO CERT		4
12-0220	01-A	Circle Foods LLC	110	Food manufacturing	L	TTO(413+433)-P	2	
						ZINC	3	1
						FLOW		12
						OIL/GREASE	23	12
						PH	24	12
PH HIGHEST								

Sampling at SIUs Discharging to Treatment Plant 6
between 01-JAN-11 and 31-DEC-11

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Facility	Pmt	Name	Conn	Principle Process	Pmt Include	Parmcode	City Samples	Self Samples
12-0220	01-A	Circle Foods LLC	110			PH LOWEST		
						TEMP	24	12
12-0244	01-C	Harcon Precision Metals Inc	110	Chemical conversion coating & water Jet	F	CADMIUM	2	3
						CHROMIUM	2	3
						COPPER	2	3
						CYANIDE(T)	1	2
						FLOW		3
						FLOW MAX		3
						LEAD	2	3
						NICKEL	2	3
						PH	2	2
						PH HIGHEST	1	
						PH LOWEST	1	
						SILVER	2	3
						TTO CERT		2
						TTO(413+433)-P	1	3
						ZINC	2	3
12-0264	01-A	UT; SC Valley Engineering Inc	100	Groundwater	L	FLOW RATE MAX		
						FLOW RATE MIN		
13-0115	04-B	Doncasters GCE Industries	200	Bldg 2 Lateral, 1887 Nirvana Av	L	ZERODISCHRG		4
			300	Bldg 3 Lateral, 757 Main St	L			
			330	Dye Pen / Vibra Clean	F	CADMIUM	10	4
						CHROMIUM	10	4
						COPPER	10	4
						CYANIDE(T)	10	4
						LEAD	10	4
						NICKEL	10	4
						PH	10	4
						PH HIGHEST	2	
						PH LOWEST	2	
						SILVER	10	4
						TTO CERT		4
						TTO(413+433)-P	1	
						ZINC	10	4
			410	Dye Pen / Water Jet Cutting	F	CADMIUM	4	4
						CHROMIUM	4	4
						COPPER	4	4
						CYANIDE(T)	4	4

Sampling at SIUs Discharging to Treatment Plant 6
between 01-JAN-11 and 31-DEC-11

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Facility	Pmt	Name	Conn	Principle Process	Pmt Include	Parmcode	City Samples	Self Samples
13-0115	04-B	Doncasters GCE Industries	410			LEAD	4	4
						NICKEL	4	4
						PH	4	4
						PH HIGHEST	2	
						PH LOWEST	2	
						SILVER	4	4
						TTO CERT		4
						TTO(413+433)-P	1	
						ZINC	4	4
						36-0001	01-A	Otay Mesa Energy Center LLC
						FLOW		4
						OIL/GREASE	4	4
						PH	4	4
						PH HIGHEST		
						PH LOWEST		
			120	PCB zero discharge	F	ZINC	4	4
						ZERODISCHRG		4
						CERT		

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TTO Sampling at SIUs discharging to Treatment Plant 6
between 01-Jan-11 and 31-Dec-11

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Facility	Pmt	Name	Conn	Principle Process	Batch	City TTO Samples	Self TTO Samples	Self Certification
12-0144	03-A	AP Precision Metals	110	Metal Coating (Iron Phosphating)	N	1		4
12-0202	02-A	Spec-Built Systems Inc	110	Iron Phosphating	N	2		4
12-0244	01-C	Harcon Precision Metals Inc	110	Chemical conversion coating & water Jet	N	1	2	2
13-0115	04-B	Doncasters GCE Industries	330	Dye Pen / Vibra Clean	N	1		4
			410	Dye Pen / Water Jet Cutting	N	1		4

Active Non-SIU Permits, Treatment Plant 6

Report run on: January 6, 2012 4:37 PM

<i>Class</i>	<i>Facility Permit</i>	<i>Name</i>	<i>Address</i>	<i>City</i>	<i>Zip</i>
2	12-0024 02-A	US Border Patrol	3752 Beyer Bl	San Diego	92173
	12-0140 01-A	Kaiser Foundation Health Plan	4652 Palm Av	San Diego	92154
	12-0143 02-A	Adesa San Diego	2175 Cactus Rd	San Diego	92154
	12-0145 03-A	Larkspur Energy	9355 Otay Mesa Rd	San Diego	92154
	12-0177 01-A	Truck Net LLC	8490 Avenida De La Fuente	San Diego	92154
	13-0159 03-A	SOS Metals San Diego	635 Anita St	Chula Vista	91911
	13-0278 03-A	Allied Waste Systems dba Allied Waste Services SD	881 Energy Wy	Chula Vista	91911
	13-0316 02-A	Fuller Ford	560 Auto Park Dr	Chula Vista	91911
	13-0327 02-A	Dresser-Rand	1675 Brandywine Av Suite E&F	Chula Vista	91911
	13-0399 02-A	Veolia Transportation	3650A Main St	Chula Vista	91911
10					
3	13-0298 03-A	Chula Vista Energy Center LLC	3497 Main St	Chula Vista	91911
	13-0439 01-A	Toyota Chula Vista	650 Main St	Chula Vista	91911
2					
12					

Active Groundwater Permits, Treatment Plant 6

Report run on: January 6, 2012 4:34 PM

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<i>Class</i>	<i>Facility</i>	<i>Permit</i>	<i>Name</i>	<i>Address</i>	<i>City</i>	<i>Zip</i>
3	12-0264	01-A	UT; SC Valley Engineering Inc	Palm City TrunkSewer	San Diego	92154
						1
						1

Film Processors Subject to Best Management Practices, Treatment Plant 6

Report run on: January 6, 2012 4:39 PM

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Class	Facility	Permit	Name		Address				City
2F	12-0081	00-A	San Ysidro Health Center	4004	Beyer	Bl			San Diego
	12-0100	01-A	County; George Bailey Detention	446	Alta	Rd			San Diego
	12-0112	01-A	NAC	1330	30th	St	Suite	E	San Diego
	12-0113	01-A	So San Diego Veterinary Hosp	2910	Coronado	Av			San Diego
	12-0114	02-A	EZ Smiles Dental Care	1850	Coronado	Av			San Diego
	12-0115	01-A	Lewis J Dorria DDS	2930	Coronado	Av			San Diego
	12-0117	01-A	Montgomery High School	3250	Palm	Av			San Diego
	12-0119	01-A	Jeffrey W Brown DDS	1761	Palm	Av			San Diego
	12-0121	01-A	Jerome A Bannister DDS	4370	Palm	Av	Suite	C	San Diego
	12-0122	02-A	Carlos Garcia DDS	1270	Picador	Bl	Suite	L-M	San Diego
	12-0123	02-A	Southland Plaza Dental	655	Saturn	Bl	Suite	G	San Diego
	12-0124	01-A	I-5 Palm Ave Medical Clinic	655	Saturn	Bl			San Diego
	12-0125	02-A	San Ysidro Dental Care	2004	Dairy Mart	Rd			San Diego
	12-0146	02-A	CVS Pharmacy # 9115	645	Saturn	Bl			San Diego
	12-0186	01-A	Rancho Vista Medical & Therapy Center Inc	342	W San Ysidro	Bl	Suite	F	San Diego
	12-0209	01-A	Rite Aid # 5668	1856	Coronado	Av			San Diego
	12-0222	01-A	Jose L Lopez DDS Inc	3490	Palm	Av	Unit	1	San Diego
	12-0231	01-A	Juvenile Detention Facility	446	Alta	Rd			San Diego
	13-0048	02-A	Hyspan Precision Products	1685	Brandywine	Av			Chula Vista
	13-0117	02-A	Bay Port Press	645	Marsat	St	Suite	D	Chula Vista
	13-0235	01-A	Photo Max	1367	3rd	Av			Chula Vista
	13-0249	01-A	The Pet Clinic	3326	Main	St			Chula Vista
	13-0255	01-A	Hilltop Dentistry	11	Naples	St			Chula Vista
	13-0256	01-A	Langford Chiropractor	4360	Main	St	Suite	209	Chula Vista
	13-0257	01-A	Robert N Woodall DDS Inc	330	Oxford	St			Chula Vista
	13-0261	02-A	Palomar Dental Group	648	Palomar	St			Chula Vista
	13-0333	01-A	Costco Wholesale # 781	1130	Broadway				Chula Vista
	13-0355	01-A	Walgreens # 7867	1430	Eastlake	Py			Chula Vista
	13-0379	01-A	Amazon Animal Hospital	1172	3rd	Av	Suite	D8	Chula Vista
	13-0387	01-A	Perpecta Dental Group	314	Palomar	St			Chula Vista
	13-0388	01-A	Palomar Dental Group	664	Palomar	St	Suite	1103	Chula Vista
	13-0412	01-A	Wal-Mart Store # 5305	1150	Broadway				Chula Vista
13-0414	01-A	Walgreens # 2623	1111	3rd	Av			Chula Vista	
13-0442	01-A	Wal-Mart # 3516	1360	Eastlake	Py			Chula Vista	
13-0456	01-A	East Lake Plaza Dental	2060	Otay Lakes	Rd	Suite	230	Chula Vista	

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Dry Cleaners Subject to Best Management Practices, Treatment Plant 6

Report run on: January 6, 2012 4:31 PM

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Class	Facility	Permit	Name	Address					City
4D	12-0106	02-A	Saturn Cleaners	655	Saturn	Bl	Suite	E	San Diego
	12-0108	03-A	Rainbow Cleaners	2004	Dairy Mart	Rd	Suite	121	San Diego
	13-0176	01-A	Speedy Clean Specialists Inc	1327	3rd	Av			Chula Vista
3									

**SOUTH BAY WATER RECLAMATION PLANT AND OCEAN OUTFINFLUENT / EFFLUENT DATA
FROM**

SOUTH BAY WATER RECLAMATION PLANT AND OCEAN OUTFALL ANNUAL REPORT

Trace Metals

Analyte:	Aluminum	Aluminum	Antimony	Antimony	Arsenic	Arsenic
MAX MDL Units:	47 UG/L	47 UG/L	2.9 UG/L	2.9 UG/L	.4 UG/L	.4 UG/L
Source:	Influent	Effluent	Influent	Effluent	Influent	Effluent
Month/Limit:					2800	
JANUARY -2011	1040	95	ND	3.8	1.05	0.83
FEBRUARY -2011	1400	230	ND	ND	0.80	1.17
MARCH -2011	818	141	ND	ND	1.08	1.08
APRIL -2011	742	175	ND	ND	1.30	1.17
MAY -2011	878	149	ND	ND	0.50	0.80
JUNE -2011	751	ND	ND	ND	1.20	0.93
JULY -2011	588	ND	3.8	3.6	0.88	0.60
AUGUST -2011	598	ND	3.3	ND	ND	0.44
SEPTEMBER-2011	564	ND	ND	ND	0.53	0.61
OCTOBER -2011	843	199	ND	ND	1.04	1.05
NOVEMBER -2011	633	60	ND	ND	0.88	0.73
DECEMBER -2011	583	80	ND	ND	1.04	0.81
AVERAGE	787	94	0.59	0.62	0.86	0.85

Analyte:	Barium	Barium	Beryllium	Beryllium	Boron	Boron
MAX MDL Units:	.039 UG/L	.039 UG/L	.022 UG/L	.022 UG/L	7 UG/L	7 UG/L
Source:	Influent	Effluent	Influent	Effluent	Influent	Effluent
Month/Limit:						
JANUARY -2011	79.8	52.6	ND	ND	292	320
FEBRUARY -2011	101	53.8	ND	0.024	326	327
MARCH -2011	63.9	48.8	0.024	0.043	216	284
APRIL -2011	77.2	48.6	0.046	0.056	272	291
MAY -2011	85.8	52.6	0.042	0.046	288	310
JUNE -2011	88.6	45.4	0.145	0.145	318	252
JULY -2011	76.8	47.3	0.031	ND	303	332
AUGUST -2011	86.4	45.4	ND	ND	306	328
SEPTEMBER-2011	63.5	34.3	ND	ND	337	301
OCTOBER -2011	63.1	39.2	ND	ND	296	341
NOVEMBER -2011	58.4	31.9	ND	ND	259	166
DECEMBER -2011	62.5	38.4	ND	ND	272	288
AVERAGE	75.6	44.9	0.024	0.026	290	295

ND= not detected

NA= not analyzed

NS= not sampled

SOUTH BAY WATER RECLAMATION PLANT
2011 ANNUAL SEWAGE

Trace Metals

Analyte:	Cadmium	Cadmium	Chromium	Chromium	Cobalt	Cobalt
MAX MDL Units:	.53 UG/L	.53 UG/L	1.2 UG/L	1.2 UG/L	.85 UG/L	.85 UG/L
Source:	Influent	Effluent	Influent	Effluent	Influent	Effluent
Month/Limit:	48		760			
=====						
JANUARY -2011	0.58	<0.53	2.9	ND	NR	ND
FEBRUARY -2011	ND	ND	2.7	ND	ND	ND
MARCH -2011	ND	ND	1.6	ND	NR	ND
APRIL -2011	ND	ND	2.8	ND	NR	ND
MAY -2011	ND	ND	2.4	ND	ND	ND
JUNE -2011	0.54	ND	4.7	ND	NR	ND
JULY -2011	ND	ND	3.3	ND	NR	ND
AUGUST -2011	ND	ND	2.3	ND	ND	ND
SEPTEMBER-2011	ND	ND	ND	ND	NR	ND
OCTOBER -2011	ND	ND	2.1	ND	ND	ND
NOVEMBER -2011	ND	ND	7.6	ND	NR	ND
DECEMBER -2011	0.83	ND	2.5	ND	NR	ND
=====						
AVERAGE	0.16	0.0	2.9	0.0	0.0	0.0

Analyte:	Copper	Copper	Iron	Iron	Lead	Lead
MAX MDL Units:	2 UG/L	2 UG/L	37 UG/L	37 UG/L	2 UG/L	2 UG/L
Source:	Influent	Effluent	Influent	Effluent	Influent	Effluent
Month/Limit:	960				760	
=====						
JANUARY -2011	62	17	518	59	ND	ND
FEBRUARY -2011	69	16	825	94	2.8	ND
MARCH -2011	55	13	538	47	ND	ND
APRIL -2011	65	18	538	55	3.4	ND
MAY -2011	70	22	754	ND	2.5	ND
JUNE -2011	158	13	812	ND	ND	ND
JULY -2011	128	11	698	72	ND	ND
AUGUST -2011	72	6	647	ND	ND	ND
SEPTEMBER-2011	80	7	679	75	3.1	ND
OCTOBER -2011	70	7	562	41	ND	ND
NOVEMBER -2011	71	9	707	39	4.5	3.4
DECEMBER -2011	126	12	564	61	ND	ND
=====						
AVERAGE	86	13	654	45	1.4	0.3

Analyte:	Manganese	Manganese	Mercury	Mercury	Molybdenum	Molybdenum
MAX MDL Units:	.24 UG/L	.24 UG/L	.005 UG/L	.005 UG/L	.89 UG/L	.89 UG/L
Source:	Influent	Effluent	Influent	Effluent	Influent	Effluent
Month/Limit:			15.00			
=====						
JANUARY -2011	67.7	29.4	0.054	ND	NR	12.0
FEBRUARY -2011	74.9	49.2	0.111	ND	6.1	3.8
MARCH -2011	55.8	29.0	0.164	ND	NR	4.6
APRIL -2011	64.4	20.3	0.514	ND	NR	3.2
MAY -2011	71.4	33.7	0.270	0.006	4.9	2.5
JUNE -2011	83.0	34.3	0.119	ND	NR	3.1
JULY -2011	68.6	31.0	0.051	ND	NR	5.5
AUGUST -2011	70.0	20.8	0.322	ND	7.1	3.5
SEPTEMBER-2011	64.7	22.3	0.096	ND	NR	5.6
OCTOBER -2011	64.8	18.0	0.109	ND	5.5	3.5
NOVEMBER -2011	59.7	23.7	0.283	ND	NR	3.1
DECEMBER -2011	83.2	42.2	0.099	ND	NR	2.1
=====						
AVERAGE	69.0	29.5	0.183	0.001	5.9	4.4

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

SOUTH BAY WATER RECLAMATION PLANT
2011 ANNUAL SEWAGE

Trace Metals

Analyte:	Nickel	Nickel	Selenium	Selenium	Silver	Silver
MAX MDL Units:	.53 UG/L	.53 UG/L	.28 UG/L	.28 UG/L	.4 UG/L	.4 UG/L
Source:	Influent	Effluent	Influent	Effluent	Influent	Effluent
Month/Limit:		1900		5700		250
=====						
JANUARY -2011	4.53	5.34	1.65	0.58	0.6	ND
FEBRUARY -2011	5.55	5.27	1.18	0.69	0.7	ND
MARCH -2011	4.30	4.21	1.04	0.68	0.8	ND
APRIL -2011	4.77	6.32	1.35	0.90	ND	ND
MAY -2011	4.95	4.96	0.90	0.55	0.7	ND
JUNE -2011	19.5	5.11	1.64	0.72	0.8	ND
JULY -2011	8.28	5.77	1.61	0.39	ND	ND
AUGUST -2011	1.21	2.75	0.78	ND	ND	ND
SEPTEMBER-2011	7.57	8.12	0.81	ND	2.2	0.6
OCTOBER -2011	5.49	6.69	0.50	ND	ND	ND
NOVEMBER -2011	7.73	5.96	1.05	0.41	ND	ND
DECEMBER -2011	22.4	12.8	1.29	0.51	1.7	ND
=====						
AVERAGE	8.02	6.11	1.15	0.45	0.6	0.1

Analyte:	Thallium	Thallium	Vanadium	Vanadium	Zinc	Zinc
MAX MDL Units:	3.9 UG/L	3.9 UG/L	.64 UG/L	.64 UG/L	2.5 UG/L	2.5 UG/L
Source:	Influent	Effluent	Influent	Effluent	Influent	Effluent
Month/Limit:						6900
=====						
JANUARY -2011	ND	ND	NR	ND	124	29.0
FEBRUARY -2011	ND	ND	2.5	<0.64	140	28.3
MARCH -2011	ND	ND	NR	1.48	118	36.0
APRIL -2011	ND	ND	NR	1.60	144	27.4
MAY -2011	ND	ND	3.2	1.41	149	30.2
JUNE -2011	ND	ND	NR	1.22	243	25.5
JULY -2011	ND	ND	NR	1.82	194	21.4
AUGUST -2011	ND	ND	2.2	0.87	159	28.1
SEPTEMBER-2011	ND	ND	NR	ND	177	30.6
OCTOBER -2011	ND	ND	0.9	ND	153	29.9
NOVEMBER -2011	ND	ND	NR	ND	153	26.4
DECEMBER -2011	ND	ND	NR	1.17	132	31.0
=====						
AVERAGE	0.0	0.0	2.2	0.8	157	28.7

ND= not detected
NA= not analyzed
NR= not required

SOUTH BAY WATER RECLAMATION PLANT
2011 ANNUAL SEWAGE

Ammonia-Nitrogen and Total Cyanides

Analyte:	Ammonia-N	Ammonia-N	Total Cyanides	Total Cyanides
MDL/Units:	.3 MG/L	.3 MG/L	.002 MG/L	.002 MG/L
Source:	SB_INF_02	SB_OUTFALL_01	SB_INF_02	SB_OUTFALL_01
JANUARY -2011	NR	3.6	ND	ND
FEBRUARY -2011	32.7	4.7	ND	0.002
MARCH -2011	34.0	2.1	ND	ND
APRIL -2011	37.3	0.8	ND	ND
MAY -2011	30.8	2.6	ND	ND
JUNE -2011	36.5	5.6	ND	ND
JULY -2011	33.5	11.8	ND	ND
AUGUST -2011	34.7	ND	0.002	ND
SEPTEMBER-2011	40.3	ND	ND	ND
OCTOBER -2011	25.1	ND	ND	ND
NOVEMBER -2011	34.5	ND	0.002	ND
DECEMBER -2011	34.3	1.0	ND	ND
Average:	34.0	2.7	0.0003	0.0002

ND= not detected

SOUTH BAY WATER RECLAMATION PLANT
Radioactivity
Effluent to the Ocean

Analyzed by: TestAmerica Laboratories Richland

Annual 2011

Source	Month	Gross Alpha Radiation	Gross Beta Radiation
SB_OUTFALL_01	JANUARY -2011	2.5 ± 2.1	22.7 ± 5.8
SB_OUTFALL_01	FEBRUARY -2011	3.9 ± 1.9	19.3 ± 4.5
SB_OUTFALL_01	MARCH -2011	1.2 ± 2.6	24.5 ± 6.2
SB_OUTFALL_01	APRIL -2011	1.0 ± 1.7	18.1 ± 4.2
SB_OUTFALL_01	MAY -2011	2.7 ± 1.9	21.1 ± 5.4
SB_OUTFALL_01	JUNE -2011	3.5 ± 2.3	24.9 ± 5.7
SB_OUTFALL_01	JULY -2011	5.4 ± 3.4	24.1 ± 7.5
SB_OUTFALL_01	AUGUST -2011	1.8 ± 1.7	19.1 ± 4.0
SB_OUTFALL_01	SEPTEMBER-2011	2.4 ± 2.4	18.0 ± 4.2
SB_OUTFALL_01	OCTOBER -2011	0.4 ± 3.2	18.5 ± 4.4
SB_OUTFALL_01	NOVEMBER -2011	0.5 ± 2.6	22.4 ± 4.5
SB_OUTFALL_01	DECEMBER -2011	2.5 ± 3.3	17.5 ± 4.3
AVERAGE		2.3 ± 2.4	20.9 ± 5.1

Units in picocuries/liter (pCi/L)

SOUTH BAY WATER RECLAMATION PLANT
SEWAGE ANNUAL - Chlorinated Pesticide Analysis

Annual 2011

Analyte	MDL	Units	EFF	Avg												
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
Aldrin	7	NG/L	ND	*	ND											
Dieldrin	3	NG/L	ND	*	ND											
BHC, Alpha isomer	7	NG/L	ND													
BHC, Beta isomer	3	NG/L	ND													
BHC, Gamma isomer	5	NG/L	ND	*	ND											
BHC, Delta isomer	3	NG/L	ND													
p,p-DDD	3	NG/L	ND													
p,p-DDE	4	NG/L	ND													
p,p-DDT	8	NG/L	ND	*	ND											
o,p-DDD	4	NG/L	ND													
o,p-DDE	5	NG/L	ND													
o,p-DDT	3	NG/L	ND													
Heptachlor	8	NG/L	ND	*	ND											
Heptachlor epoxide	4	NG/L	ND													
Alpha (cis) Chlordane	3	NG/L	ND													
Gamma (trans) Chlordane	4	NG/L	ND													
Alpha Chlordene		NG/L	NA													
Gamma Chlordene		NG/L	NA													
Oxychlordane	6	NG/L	ND													
Trans Nonachlor	5	NG/L	ND													
Cis Nonachlor	3	NG/L	ND													
Alpha Endosulfan	4	NG/L	ND													
Beta Endosulfan	2	NG/L	ND													
Endosulfan Sulfate	6	NG/L	ND													
Endrin	2	NG/L	ND	*	ND											
Endrin aldehyde	9	NG/L	ND													
Mirex	10	NG/L	ND													
Methoxychlor	10	NG/L	ND													
Toxaphene	330	NG/L	ND													
PCB 1016	4000	NG/L	ND													
PCB 1221	4000	NG/L	ND													
PCB 1232	360	NG/L	ND													
PCB 1242	4000	NG/L	ND													
PCB 1248	2000	NG/L	ND													
PCB 1254	2000	NG/L	ND													
PCB 1260	2000	NG/L	ND													
PCB 1262	930	NG/L	ND													
Aldrin + Dieldrin	7	NG/L	0	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	0	0
DDT and derivatives	8	NG/L	0	0	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	0	0
Polychlorinated biphenyls	4000	NG/L	0	0	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	0	0
Heptachlors	8	NG/L	0	0	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	0	0

*=This sample was erroneously spiked in the laboratory for BHC_G, Hetachlor, Aldrin, Dieldrin, Endrin and PP_DDT and no data is being reported for these compounds.

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

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
SEWAGE ANNUAL - Chlorinated Pesticide Analysis

Annual 2011

Analyte	MDL	Units	INF	INF	INF	INF	INF
			FEB	MAY	AUG	OCT	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	6	ND	ND	2
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	6	0	0	2
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	6	0	0	2

ND= not detected

NA= not analyzed

NS= not sampled

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
Organophosphorus Pesticides EPA Method 614/622 (with additions)

INFLUENT & EFFLUENT

Annual 2011

Analyte	MDL Units	Effluent	Effluent	Influent	Influent
		03-MAY-2011 P558042	04-OCT-2011 P584731	03-MAY-2011 P558037	04-OCT-2011 P584726
Demeton O	.15 UG/L	ND	ND	ND	ND
Demeton S	.08 UG/L	ND	ND	ND	ND
Diazinon	.03 UG/L	ND	ND	ND	ND
Guthion	.15 UG/L	ND	ND	ND	ND
Malathion	.03 UG/L	ND	ND	ND	ND
Parathion	.03 UG/L	ND	ND	ND	ND
Dichlorvos	.05 UG/L	ND	ND	ND	ND
Disulfoton	.02 UG/L	ND	ND	ND	ND
Dimethoate	.04 UG/L	ND	ND	ND	ND
Stirophos	.03 UG/L	ND	ND	ND	0.1
Coumaphos	.15 UG/L	ND	ND	ND	ND
Chlorpyrifos	.03 UG/L	ND	ND	ND	ND
Thiophosphorus Pesticides	.15 UG/L	0.0	0.0	0.0	0.0
Demeton -O, -S	.15 UG/L	0.0	0.0	0.0	0.0
Total Organophosphorus Pesticides	.15 UG/L	0.0	0.0	0.0	0.1

ND=not detected
NR=not required

Tributyl Tin

Effluent

Analyte	MDL Units	FEB	MAY	AUG	OCT	Average
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

Influent

Analyte	MDL Units	FEB	MAY	AUG	OCT	Average
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 - Acid Extractables

Annual 2011

EFFLUENT

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

INFLUENT

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	35.6	41.8	39.8	43.8	40.3
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	35.6	41.8	39.8	43.8	40.3
Total Phenols	2.16	UG/L	35.6	41.8	39.8	43.8	40.3
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	116	116	110	88.9	108
2,4,5-Trichlorophenol	1.66	UG/L	ND	ND	ND	ND	ND

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

SOUTH BAY WATER RECLAMATION PLANT
SEWAGE ANNUAL Priority Pollutants Base/Neutrals

Annual 2011

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

ND=not detected

SOUTH BAY WATER RECLAMATION PLANT
SEWAGE ANNUAL Priority Pollutants Base/Neutrals

Annual 2011

Analyte	MDL	Units	INF	INF	INF	INF	INF
			FEB	MAY	AUG	OCT	Average
			Avg	Avg	Avg	Avg	
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
N-nitrosodi-n-propylamine	1.16	UG/L	ND	ND	ND	ND	ND
Nitrobenzene	1.6	UG/L	ND	ND	ND	ND	ND
Hexachloroethane	1.32	UG/L	ND	ND	ND	ND	ND
Isophorone	1.53	UG/L	ND	ND	ND	ND	ND
Bis-(2-chloroethoxy) methane	1.01	UG/L	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	1.52	UG/L	ND	ND	ND	ND	ND
Naphthalene	1.65	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
Acenaphthylene	1.77	UG/L	ND	ND	ND	ND	ND
Dimethyl phthalate	1.44	UG/L	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	1.53	UG/L	ND	ND	ND	ND	ND
Acenaphthene	1.8	UG/L	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	1.36	UG/L	ND	ND	ND	ND	ND
Fluorene	1.61	UG/L	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	1.57	UG/L	ND	ND	ND	ND	ND
Diethyl phthalate	3.05	UG/L	9.0	8.9	6.7	6.0	7.7
N-nitrosodiphenylamine	3.48	UG/L	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	1.4	UG/L	ND	ND	ND	ND	ND
Hexachlorobenzene	1.48	UG/L	ND	ND	ND	ND	ND
Phenanthrene	1.34	UG/L	ND	ND	ND	ND	ND
Anthracene	1.29	UG/L	ND	ND	ND	ND	ND
Di-n-butyl phthalate	3.96	UG/L	ND	ND	ND	ND	ND
N-nitrosodimethylamine	1.27	UG/L	ND	ND	ND	ND	ND
Fluoranthene	1.33	UG/L	ND	ND	ND	ND	ND
Pyrene	1.43	UG/L	ND	ND	ND	ND	ND
Benzidine	1.52	UG/L	ND	ND	ND	ND	ND
Butyl benzyl phthalate	2.84	UG/L	ND	ND	ND	ND	ND
Chrysene	1.16	UG/L	ND	ND	ND	ND	ND
Benzo[a]anthracene	1.1	UG/L	ND	ND	ND	ND	ND
Bis-(2-ethylhexyl) phthalate	8.96	UG/L	ND	9.4	12.1	17.8	9.8
Di-n-octyl phthalate	1	UG/L	ND	ND	ND	ND	ND
3,3-Dichlorobenzidine	2.44	UG/L	ND	ND	ND	ND	ND
Benzo[k]fluoranthene	1.49	UG/L	ND	ND	ND	ND	ND
3,4-Benzo(b)fluoranthene	1.35	UG/L	ND	ND	ND	ND	ND
Benzo[a]pyrene	1.25	UG/L	ND	ND	ND	ND	ND
Indeno(1,2,3-CD)pyrene	1.14	UG/L	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	1.01	UG/L	ND	ND	ND	ND	ND
Benzo[g,h,i]perylene	1.09	UG/L	ND	ND	ND	ND	ND
1,2-Diphenylhydrazine	1.37	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	9.0	18.3	18.8	23.8	17.5
1-Methylnaphthalene	2.18	UG/L	ND	ND	ND	ND	ND
2-Methylnaphthalene	2.14	UG/L	ND	ND	ND	ND	ND
2,6-Dimethylnaphthalene	2.16	UG/L	ND	ND	ND	ND	ND
2,3,5-Trimethylnaphthalene	2.18	UG/L	ND	ND	ND	ND	ND
1-Methylphenanthrene	1.46	UG/L	ND	ND	ND	ND	ND
Benzo[e]pyrene	1.44	UG/L	ND	ND	ND	ND	ND
Perylene	1.41	UG/L	ND	ND	ND	ND	ND
Biphenyl	2.29	UG/L	ND	ND	ND	ND	ND

ND=not detected

SOUTH BAY WATER RECLAMATION PLANT
SEWAGE ANNUAL Priority Pollutants Purgeables

Annual 2011

Analyte	MDL	Units	EFF	EFF	EFF	EFF	EFF
			FEB	MAY	AUG	OCT	Average
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	72.6	0.7	ND	0.6	18.5
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	0.2	0.6	1.1	1.4	0.8
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	ND	ND	ND	ND
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	ND	ND	ND	ND	ND
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	ND	ND	0.64*	ND	ND
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
Total Dichlorobenzenes	.5	UG/L	0.0	0.0	0.0	0.0	0.0
Total Chloromethanes	.5	UG/L	72.8	1.3	1.1	2.0	19.3
Purgeable Compounds	1.3	UG/L	72.8	1.3	1.1	2.0	19.3
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

*= Blank did not meet QC criteria for this analyte due to contamination. The result value of the blank in this batch was 0.55 UG/L, result above the MDL. Result is not used in computations.
ND=not detected

SOUTH BAY WATER RECLAMATION PLANT
SEWAGE ANNUAL Priority Pollutants Purgeables

Annual 2011

Analyte	MDL	Units	INF	INF	INF	INF	INF
			FEB	MAY	AUG	OCT	Average
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	3.5	1.1	1.2	0.9	1.7
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	2.1	1.6	2.0	1.6	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	0.6	0.8	1.0	1.0	0.9
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	ND	ND	ND	ND	ND
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	0.7	0.8	0.92*	0.8	0.8
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
Total Dichlorobenzenes	.5	UG/L	0.0	0.0	0.0	0.0	0.0
Total Chloromethanes	.5	UG/L	5.6	2.7	3.2	2.5	3.5
Purgeable Compounds	1.3	UG/L	6.9	4.3	4.2	4.3	4.9
Methyl Iodide	.6	UG/L	ND	ND	ND	ND	ND
Carbon disulfide	.6	UG/L	1.9	2.6	1.7	1.5	1.9
Acetone	4.5	UG/L	141	125	217	264	187
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	6.5	8.1	7.2	9.2	7.8
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

*= Blank did not meet QC criteria for this analyte due to contamination. The result value of the blank in this batch was 0.55 UG/L, result above the MDL. Result is not used in computations.

ND= not detected

SOUTH BAY WATER RECLAMATION PLANT
Annual Sewage Dioxin and Furan Analysis
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Analyte	MDL	Units	Equiv	INF	INF	INF	INF
				JAN	FEB	MAR	APR
				P547834	P549339	P555199	P559882
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	ND
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	INF	INF	INF	INF
				MAY	JUN	JUL	AUG
				P558037	P566832	P571268	P564981
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	ND
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	INF	INF	INF	INF
				SEP	OCT	NOV	DEC
				P580883	P584726	P591174	P592523
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	DNQ12.8	DNQ16.3	DNQ21.5	44.4
octa CDD	247	PG/L	0.001	140	160	250	710
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	DNQ6.18	DNQ3.87
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	DNQ7.35	DNQ10.0	DNQ14.0	DNQ19.8

Above are permit required CDD/CDF isomers. ND= not detected
DNQ= (Detected but not quantified). Estimated analyte concentration below calibration range.

SOUTH BAY WATER RECLAMATION PLANT
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Analyte	MDL	Units	Equiv	EFF	EFF	EFF	EFF
				JAN	FEB	MAR	APR
				P547838	P549344	P555203	P559886
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	ND
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	EFF	EFF	EFF	EFF
				MAY	JUN	JUL	AUG
				P558042	P566836	P571272	P564986
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	ND
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	EFF	EFF	EFF	EFF
				SEP	OCT	NOV	DEC
				P580887	P584731	P591177	P592527
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	DNQ3.45	DNQ6.13	DNQ5.93	DNQ7.71
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

Above are permit required CDD/CDF isomers. ND= not detected
DNQ= (Detected but not quantified). Estimated analyte concentration below calibration range.

SOUTH BAY WATER RECLAMATION PLANT
Annual Sewage Dioxin and Furan Analysis
Annual 2011

Analyte	MDL	Units	Equiv	INF	INF	INF	INF
				TCCD	TCCD	TCCD	TCCD
				JAN	FEB	MAR	APR
				P547834	P549339	P555199	P559882
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	ND
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	INF	INF	INF	INF
				TCCD	TCCD	TCCD	TCCD
				MAY	JUN	JUL	AUG
				P558037	P566832	P571268	P564981
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	ND
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	INF	INF	INF	INF
				TCCD	TCCD	TCCD	TCCD
				SEP	OCT	NOV	DEC
				P580883	P584726	P591174	P592523
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	DNQ0.13	DNQ0.16	DNQ0.22	0.44
octa CDD	247	PG/L	0.001	0.14	0.16	0.25	0.71
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	DNQ0.06	DNQ0.04
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	DNQ0.007	DNQ0.01	DNQ0.014	DNQ0.02

Above are permit required CDD/CDF isomers. ND= not detected DNQ= (Detected but not quantified).

SOUTH BAY WATER RECLAMATION PLANT
2011 Annual Sewage - Dioxin and Furan Analysis

Analyte	MDL	Units	Equiv	EFF	EFF	EFF	EFF
				TCCD	TCCD	TCCD	TCCD
				JAN	FEB	MAR	APR
				P547838	P549344	P555203	P559886
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	ND
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	EFF	EFF	EFF	EFF
				TCCD	TCCD	TCCD	TCCD
				MAY	JUN	JUL	AUG
				P558042	P566836	P571272	P564986
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	ND
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	EFF	EFF	EFF	EFF
				TCCD	TCCD	TCCD	TCCD
				SEP	OCT	NOV	DEC
				P580887	P584731	P591177	P592527
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	DNQ0.003	DNQ0.006	DNQ0.006	DNQ0.008
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

Above are permit required CDD/CDF isomers. ND= not detected