THE CITY OF SAN DIEGO

March 1, 2013

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
CY2012 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 2012 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.

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,

Steve Meyer
Deputy Public Utilities Director

BLS:

Enclosure: CD containing PDF file of Report

cc: Amelia Whitson, 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

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, 2012

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

CERTIFIED
ISO 14001

POTW PRETREATMENT ANNUAL REPORT

COVER SHEET

NPDES Permit Holder or Sewer Authority Name: City of San Diego

Report Date: March 1, 2013

Period Covered by This Report: January 1, 2012 to December 31, 2012

Period Covered by Previous Report: January 1, 2011 to December 31, 2011

Name of Wastewater Treatment Plant(s)	**NPDES Permit Number**
South Bay Water Reclamation Plant	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.

3/1/13
Date

Steve Meyer

Deputy Public Utilities Director
Title

BLS:

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: 01/01/12 **(PSSD)** Start Date — 12/31/12 **(PSED)** 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:	14 **(FENF)**
Number of Civil & Criminal Judicial Actions Against Significant Industrial Users:	0 **(JUDI)**
Number of Significant Industrial Users With Significant Violations Published:	0 **(SVPU)**
Number of Industrial Users From Which Penalties Have Been Collected:	0 **(IUPN)**

CY2012 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.

II. Program Structure

A. Pollution Prevention Plan Requirements

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

B. 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 CY2012Annual Report for the Point Loma POTW, NPDES Permit No. CA 0109045.

C. Pretreatment Program Changes

During CY2012, 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.

D. 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 CY2012 Annual Report for the Point Loma POTW, NPDES Permit No. CA 0109045, for details.

III. Permit Inventory as of December 31, 2012

A. List of Deletions, Additions, and Name Changes of Significant Industrial Users during CY2012

SIU FACILITIES THAT BECAME SIUs IN 2012					**Note: UT; = Extracted Groundwater Permit**
Facility	Name	Class	Permit	Date	Comments
12-0264	UT; SC Valley Engineering Inc	3	01-A	03-Jan-12	Construction dewatering > 25,000 gpd
SIU FACILITIES THAT REPORTED A NAME CHANGE IN 2012					
IU #	TO	Class	Permit	Date	FROM
12-0137	General Dynamics Global Imaging Technologies	1	02-A	27-Feb-12	Axsys Technologies
FORMER SIU FACILITIES THAT BECAME NON-SIUs IN 2012					
Facility	Name	Class	Permit	Date	Comments
None					
SIU FACILITIES INACTIVATED IN 2012					
Facility	Name	Class	Permit	Date	Comments
12-0264	UT; SC Valley Engineering Inc	3	01-A	27-Mar-12	Dewatering completed.
12-0273	UT; Hensel Phelps Construction	2	01-A	16-Oct-12	Project on hold while pursue NPDES permit

B. Baseline Monitoring Reports Requested or Received in CY2012

Facility Name	Facility #	BMR Requested	BMR Received
None			

Distribution of Permits and Industrial Flows by Area
Treatment Plant 6

Report run on: December 31, 2012 9:16 AM

Class	1		2		2F		3		4		4C		4D		5		Total Permits	Total flow (gpd)
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)		
12	3	576	4	8,334	16		5	241,450	79	22,257	4		2	0	11		124	272,617
13	1	878	5	6,982	16	517	2	6,711	51	17,540	0		1	0	7		83	32,628
36	1	43,122	0		0		0		2	917	0		0		0		3	44,039
	5	44,576	9	15,316	32	517	7	248,161	132	40,714	4		3	0	18		210	349,284

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

Report run on: December 31, 2012 9:31 AM

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	02-A	Circle Foods LLC	59,574	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
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
				330	Dye Pen / Vibra Clean	Federal	433	.17	1	SETTLE

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					2	IX
									3	FILT-O
				410	Dye Pen / Water Jet Cutting	Federal	433	.17	1	SETTLE
									2	IX
									3	FILT-O
									4	O/W
									5	HAUL
36-0001	01-B	Otay Mesa Energy Center LLC	43,122	110	WetSac blowdown + OWS	Federal	423	.17	1	SETTLE
									2	PH
				120	PCB zero discharge	Federal	423	.17	1	ZERO
				140	Turbine washing	Federal	423	.17	1	SETTLE
9										

SIU Facilities: Regulated Parameters by Connection
Treatment Plant 6

Report run on: December 31, 2012 9:08 AM

Facility	Pmt	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	S	Q	F	DM		.11	mg/L
										MO		.07	mg/L
						CHROMIUM	S	Q	F	DM		2.77	mg/L
										MO		1.71	mg/L
						COPPER	S	Q	F	DM		3.38	mg/L
										MO		2.07	mg/L
						CYANIDE(T)	S	Q	F	DM		1.2	mg/L
										MO		.65	mg/L
						LEAD	S	Q	F	DM		.69	mg/L
										MO		.43	mg/L
						NICKEL	S	Q	F	DM		3.98	mg/L
										MO		2.38	mg/L
						PH	S	Q	L	DM	5	12.5	pH
						SILVER	S	Q	F	DM		.43	mg/L
										MO		.24	mg/L

SIU Facilities: Regulated Parameters by Connection
Treatment Plant 6

Facility	Pmt	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	TTO(413+433)-P	A	Q	F	DM		2130	ug/L
						ZINC	S	Q	F	DM		2.61	mg/L
										MO		1.48	mg/L
12-0220	02-A	Circle Foods LLC	8411 Siempre Viva Rd , San Diego	110	59,574	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
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

SIU Facilities: Regulated Parameters by Connection
Treatment Plant 6

Report run on: December 31, 2012 9:08 AM

Facility	Pmt	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	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
				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
						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
36-0001	01-B	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	L	DM		3200	mg/L
						ZINC	Q	Q	F	DM		1	mg/L
				140	22	COPPER	S	S	F	DM		1	mg/L

Active Non-SIU Permits, Treatment Plant 6

Report run on: December 31, 2012 9:25 AM

Class	Facility Permit	Name		Address				City	Zip
2	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
	9								
3	12-0024 03-A	US Border Patrol	3752	Beyer	Bl			San Diego	92173
	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
	3								
	12								

Active Groundwater Permits, Treatment Plant 6

Report run on: December 31, 2012 9:21 AM

Class	Facility	Permit	Name	Address	City	Zip

0

Film Processors Subject to Best Management Practices, Treatment Plant 6

Report run on: February 25, 2013 5:23 PM

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
	12-0186	01-A	Rancho Vista Medical & Therapy Center Inc	342	W	San Ysidro	Bl	Suite	F	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
	13-0414	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
	32									

Dry Cleaners Subject to Best Management Practices, Treatment Plant 6

Report run on: February 25, 2013 5:19 PM

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

III. SIU Compliance and Enforcement

A. Annual Compliance Summary

During CY2012 the program administered 10 SIU permits, covering 11 outfalls and monitored at 12 sample points. No facilities or outfalls 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 CY2012 Pretreatment Annual Report for the Pt Loma POTW, Board Order No. R9-2009-0001, NPDES Permit No. CA0109045.

B. Characterization of the Compliance Status of Each SIU

The Annual SIU Compliance Status Report for CY2012, which follows this page, 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.

C. SIU Enforcement Actions Initiated, Continued, or Finalized in CY2012

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 indicated they have no known source of zinc in their wastestream. In 2012 the IU self monitored 4 discharges (January, April, August, and November) with the program also monitoring the November discharge and compliance was demonstrated with all pollutant limitations. No further enforcement actions are planned.

D. 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 CY2012 Annual Report for the Point Loma POTW NPDES Permit No. CA0109045.

In CY2012, the following SIUs discharging tributary to the SBWRP were in Significant Non-Compliance:

Name	Address	Pollutant in Violation
NONE		

Annual SIU Compliance Status Report

01-Jan-2012 through 31-Dec-2012

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							
Circle Foods LLC 8411 Siempre Viva Rd, San Diego	12-0220	3	59574	No		110	14-Nov-12	Oil and grease, Total	534	500	DM	L	N
Doncasters GCE Industries 757 Main St, Chula Vista	13-0115	1	878	No		NA							
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	16-Feb-12	SMR Incomplete					
						110	23-Jul-12	SMR Incomplete					
Heinz Frozen Foods 7878 Airway Rd, San Diego	12-0154	3	62411	No		110	02-Apr-12	SMR Incomplete					
Otay Mesa Energy Center LLC 606 De La Fuente Ct, San Diego	36-0001	1	43122	No		NA							
RJ Donovan Correctional Facility 480 Alta Rd, San Diego	12-0038	3	50028	No		100	04-Dec-12	Oil and grease, Total	567	500	DM	L	N

Annual SIU Compliance Status Report

01-Jan-2012 through 31-Dec-2012

SIU Name	IU#	Class	IW Disch	SNC?	[If Yes, Why]	Conn	Violation Date	Description/Parameter	Value	Limit	Period	Cat	TRC
Spec-Built Systems Inc	12-0202	1	26	No		110	06-Jan-12	Cadmium, Total	.1				N
2150 Michael Faraday Dr, San Diego						110	06-Jan-12	Lead, Total	.5				N
						110	06-Jan-12	Silver, Total	.5				
						110	06-Jan-12	pH-Instantaneous	7				
						110	02-Apr-12	Cadmium, Total	.1				
						110	02-Apr-12	Lead, Total	.5				
						110	02-Apr-12	Silver, Total	.5				
						110	02-Apr-12	pH-Instantaneous	6.5				N
						110	27-Apr-12	SMR Late - written notice					
						110	25-May-12	SMR Incomplete					
						110	23-Jul-12	SMR Incomplete					
						110	07-Feb-13	SMR Incomplete					
UT; SC Valley Engineering Inc	12-0264	3	38400	No		100	29-Feb-12	SMR Late - written notice					
Palm City TrunkSewer, San Diego						100	28-Mar-12	SMR Incomplete					

E. NOVs Issued and Violation Fees Billed

Wed Feb 27 page 1

SBWRP SIU NOV Summary for 2012

Name	FACILIT	Conn	NOV	Identified	Action	Viol_Date	Fee	Level
Circle Foods LLC	12-0220	110	68920	03-DEC-12	03-DEC-12	14-NOV-12	$100	Initial notice
	count		1					
	sum						$100	
Doncasters GCE Industries	13-0115	330	65891	30-SEP-11	02-MAY-12	30-SEP-11	$266	Final notice
	count		1					
	sum						$266	
Harcon Precision Metals Inc	12-0244	110	65844	16-FEB-12	16-FEB-12	02-DEC-11	$50	Notice only
			67183	23-JUL-12	23-JUL-12		$50	Notice only
	count		2					
	sum						$100	
Heinz Frozen Foods	12-0154	110	66134	02-APR-12	03-APR-12	10-FEB-12	$50	Notice only
	count		1					
	sum						$50	
Spec-Built Systems Inc	12-0202	110	65476	03-FEB-12	03-FEB-12	08-OCT-11	$100	Initial notice
					06-MAR-12	08-OCT-11	$75	Second notice
			65905	31-DEC-11	02-MAY-12	31-DEC-11	$266	Final notice
			66334	27-APR-12	27-APR-12		$100	Initial notice
			66579	25-MAY-12	26-MAY-12	06-JAN-12	$50	Notice only
			67182	23-JUL-12	24-JUL-12	02-APR-12	$50	Notice only
	count		6					

Sampling at SIUs Discharging to Treatment Plant 6
between 01-JAN-12 and 31-DEC-12

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	COD	12	6
						OIL/GREASE	6	6
						PH	6	6
						SILVER CERT		2
						TSS	12	6
12-0065	**03-C**	**Emerald Textiles LLC**	110	Commercial Laundry	L	COD	4	4
						FLOW		12
						FLOW MAX		12
						OIL/GREASE	4	4
						PH	4	4
						TSS	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	
						ZINC	4	4
12-0154	**03-A**	**Heinz Frozen Foods**	110	Food Manufacturing	L	CHROMIUM	4	4
						COD	11	12
						FLOW		12
						FLOW MAX		12
						FLOW TOTIMPORTED		12
						FLOWMETER READ 1	10	12
						FLOWMETER READ 2	10	12
						OIL/GREASE	21	12
						PH	22	12
						PH HIGHEST		
						PH LOWEST		
						TDS	11	
						TEMP	11	12

Sampling at SIUs Discharging to Treatment Plant 6
between 01-JAN-12 and 31-DEC-12

Facility	Pmt	Name	Conn	Principle Process	Pmt Include	Parmcode	City Samples	Self Samples
12-0154	**03-A**	**Heinz Frozen Foods**	110			TSS	11	12
12-0202	**02-A**	**Spec-Built Systems Inc**	110	Iron Phosphating	F	CADMIUM	1	4
						CHROMIUM	1	4
						COPPER	1	4
						CYANIDE(T)	1	4
						FLOW		4
						LEAD	1	4
						NICKEL	1	4
						PH	1	3
						SILVER	1	4
						TTO CERT		4
						TTO(413+433)-P	1	
						ZINC	1	4
12-0220	**02-A**	**Circle Foods LLC**	110	Food manufacturing	L	COD	11	12
						FLOW		12
						FLOW MAX		
						OIL/GREASE	21	12
						PH	22	12
						PH HIGHEST		
						PH LOWEST		
						TEMP	22	12
						TSS	11	12
12-0244	**01-C**	**Harcon Precision Metals Inc**	110	Chemical conversion coating & water Jet	F	CADMIUM	2	1
						CHROMIUM	2	1
						COD	2	1
						COPPER	2	1
						CYANIDE(T)	2	1
						FLOW		2
						FLOW MAX		2
						LEAD	2	1
						NICKEL	2	1
						PH	2	1
						PH HIGHEST	2	
						PH LOWEST	2	
						SILVER	2	1
						TSS	2	1
						TTO CERT		2
						TTO(413+433)-P	1	
						ZINC	2	1

Sampling at SIUs Discharging to Treatment Plant 6
between 01-JAN-12 and 31-DEC-12

Facility	Pmt	Name	Conn	Principle Process	Pmt Include	Parmcode	City Samples	Self Samples
13-0115	**04-B**	**Doncasters GCE Industries**	200	Bldg 2 Lateral, 1887 Nirvana Av	L	ZERODISCHRG CERT		4
			300	Bldg 3 Lateral, 757 Main St	L			
			330	Dye Pen / Vibra Clean	F	CADMIUM	4	4
						CHROMIUM	4	4
						COPPER	4	4
						CYANIDE(T)	4	4
						FLOW		4
						FLOW MAX		4
						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
			410	Dye Pen / Water Jet Cutting	F	CADMIUM	4	4
						CHROMIUM	4	4
						COPPER	4	4
						CYANIDE(T)	4	4
						FLOW		4
						FLOW MAX		4
						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-B**	**Otay Mesa Energy Center LLC**	110	WetSac blowdown + OWS	F	CHROMIUM	4	4
						COD	4	4
						FLOW		4
						FLOW MAX		1
						OIL/GREASE	4	4
						PH	4	4

Sampling at SIUs Discharging to Treatment Plant 6
between 01-JAN-12 and 31-DEC-12

Facility	Pmt	Name	Conn	Principle Process	Pmt Include	Parmcode	City Samples	Self Samples
36-0001	**01-B**	**Otay Mesa Energy Center LLC**	110			PH HIGHEST		
						PH LOWEST		
						TDS	4	4
						TSS	4	4
						ZINC	4	4
			120	PCB zero discharge	F	ZERODISCHRG CERT		4
			140	Turbine washing	F	COPPER		
						FLOW		1
						FLOW MAX		

9

TTO Sampling at SIUs discharging to Treatment Plant 6
between 01-Jan-12 and 31-Dec-12

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	1		4
12-0244	01-C	Harcon Precision Metals Inc	110	Chemical conversion coating & water Jet	N	1		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

IV. Pretreatment Program Effectiveness

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 22 through 45 provide results for all influent and effluent pollutant monitoring during CY2012. 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 2012

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	7.95	0	3.7	73	0	6.4	0.5	146
Feb	8.01	0	4.2	78	0	6.6	0	123
Mar	8.26	0	3.5	71	0	6.1	0.5	191
Apr	8.25	0	3.2	104	0	7.4	0.8	187
May	8.25	0	3.2	68	0	5.69	0.0	139
Jun	8.01	0	4	97	0	8.6	0	179
Jul	8.03	0	2.7	266	5	61.6	0.5	193
Aug	8.16	0	2.9	78	3	18.7	1.3	154
Sep	8.00	0	2.3	81	2	6.5	0.4	159
Oct	7.86	0	2.5	99	2	5.7	0	150
Nov	7.80	0	3.5	84	4	6.3	0.7	167
Dec	7.86	0.8	3.0	95	0	11.5	1.4	166
Avg Flow	8.04							
Avg ug/L		0.1	3.2	100	1.3	13	0.5	163
LBS/day		0.0	0.2	7	0.1	1	0.0	11
Total HM	18.77							
Total(-)Ag	18.74							

TABLE II.A-2
SOUTH BAY WATER RELAMATION PLANT EFFLUENT HEAVY METALS
Average Concentration and Loadings for 2012

Zero = ND

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	4.59	0	0	16	0	7.7	0	37
Feb	5.11	0	0	9	0	7.0	0	22
Mar	5.15	0	0	9	0	5.6	0	25
Apr	4.25	0	0	10	0	4.7	0	31
May	2.68	0	0	9	0	4.6	0	30
Jun	1.42	0	0	10	0	6.7	0	35
Jul	1.00	0	0	18	0	6.2	0	22
Aug	1.22	0	1.3	8	0	7.3	0	35
Sep	1.64	0	0	9	0	5.8	0	37
Oct	2.54	0	0	7	0	6.0	0	24
Nov	3.78	0	0	8	0	3.8	0	33
Dec	5.81	0	1.7	9	0	5.1	0	38
Avg Flow	3.27							
Avg ug/L		0.0	0.3	10	0.0	5.9	0.0	31
LBS/day		0.0	0.0	0.3	0.0	0.2	0.0	1
Total HM	1.3							
Total(-)Ag	1.3							

B. Upset, Interference, and Pass-through

In CY2012, 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 CY2012, no influent value or effluent values exceeded the SBWRP reclaimed water TDS limit of 1200 mg/L; 116 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.

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 CY12 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.

SOUTH BAY WATER RECLAMATION PLANT
SEWAGE INFLUENT and EFFLUENT

Annual 2012

Biochemical Oxygen Demand Concentration
(24-hour composite)

Month/ Units:	Influent Flow (MGD)	Daily Influent Value (mg/L)	Daily Influent Value (lbs/Day)	Effluent Flow (MGD)	Daily Effluent Value (mg/L)	Daily Effluent Value (lbs/Day)	Percent Removal BOD (%)
JANUARY -2012	7.95	296	19626	4.59	13	498	95.6
FEBRUARY -2012	8.01	311	20776	5.11	10	426	96.8
MARCH -2012	8.26	300	20667	5.15	7	301	97.7
APRIL -2012	8.25	294	20229	4.25	5	177	98.3
MAY -2012	8.25	297	20435	2.68	4	89	98.7
JUNE -2012	8.01	324	21644	1.42	6	71	98.1
JULY -2012	8.03	318	21297	1.00	9	75	97.2
AUGUST -2012	8.16	325	22118	1.22	4	41	98.8
SEPTEMBER-2012	8.00	315	21017	1.64	6	82	98.1
OCTOBER -2012	7.86	322	21108	2.54	5	106	98.4
NOVEMBER -2012	7.80	334	21727	3.78	4	126	98.8
DECEMBER -2012	7.86	316	20715	5.81	6	291	98.1
Average	8.04	313	20947	3.27	7	190	97.9

Annual Mass Emissions are calculated from monthly averages of flow for BOD, whereas
Monthly Report average mass emissions are calculated from average daily mass emissions.

ND=not detected
NA=not analyzed

SOUTH BAY WATER RECLAMATION PLANT
SEWAGE INFLUENT and EFFLUENT

Annual 2012

Total Suspended Solids Concentration
(24-hour composite)

Month/ Units:	Influent Flow (MGD)	Daily Influent TSS (mg/L)	Daily Influent VSS (mg/L)	Percent VSS (%)	Daily Influent Mass Emission (lbs/Day)
JANUARY -2012	7.95	299	269	90.0	19825
FEBRUARY -2012	8.01	287	259	90.2	19173
MARCH -2012	8.26	292	262	89.7	20115
APRIL -2012	8.25	287	258	89.9	19747
MAY -2012	8.25	296	266	89.9	20366
JUNE -2012	8.01	292	264	90.4	19507
JULY -2012	8.03	284	253	89.1	19020
AUGUST -2012	8.16	286	256	89.5	19464
SEPTEMBER-2012	8.00	272	243	89.3	18148
OCTOBER -2012	7.86	291	254	87.3	19076
NOVEMBER -2012	7.80	282	248	87.9	18345
DECEMBER -2012	7.86	283	254	89.8	18551
Average	8.04	288	257		19278

Total Suspended Solids Concentration
(24-hour composite)

Month/ Units:	Effluent Flow (MGD)	Daily Effluent TSS (mg/L)	Daily Effluent VSS (mg/L)	Percent VSS (%)	Daily Effluent Mass Emission (lbs/Day)	Percent Removal TSS (%)	Percent Removal VSS (%)
JANUARY -2012	4.59	8.1	7.1	87.7	310	97.3	97.4
FEBRUARY -2012	5.11	5.3	4.6	86.8	226	98.2	98.2
MARCH -2012	5.15	5.0	4.1	82.0	215	98.3	98.4
APRIL -2012	4.25	4.1	3.6	87.8	145	98.6	98.6
MAY -2012	2.68	2.8	2.4	85.7	63	99.1	99.1
JUNE -2012	1.42	5.4	4.7	87.0	64	98.2	98.2
JULY -2012	1.00	5.3	4.6	86.8	44	98.1	98.2
AUGUST -2012	1.22	4.8	4.1	85.4	49	98.3	98.4
SEPTEMBER-2012	1.64	3.4	2.8	82.4	47	98.8	98.8
OCTOBER -2012	2.54	2.3	2.0	87.0	49	99.2	99.2
NOVEMBER -2012	3.78	2.8	2.4	85.7	88	99.0	99.0
DECEMBER -2012	5.81	3.5	3.1	88.6	170	98.8	98.8
Average	3.27	4.4	3.8		123	98.5	98.5

Annual Mass Emissions are calculated from monthly averages of flow and TSS, whereas
Monthly Report average mass emissions are calculated from average daily mass emissions.

VSS= Volatile Suspended Solids
TSS= Total Suspended Solids

SOUTH BAY WATER RECLAMATION PLANT

Annual 2012

Effluent to Ocean Outfall
(SB_OUTFALL_01)

Analyte:	Flow	pH	Settleable Solids	Biochemical Oxygen Demand	Total Suspended Solids	Volatile Suspended Solids	Total Dissolved Solids
Units:	(mgd)	(pH)	(ml/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
JANUARY -2012	4.59	7.25	ND	13	8.1	7.1	926
FEBRUARY -2012	5.11	7.29	ND	10	5.3	4.6	968
MARCH -2012	5.15	7.29	ND	7	5.0	4.1	913
APRIL -2012	4.25	7.29	ND	5	4.1	3.6	1000
MAY -2012	2.68	7.35	ND	4	2.8	2.4	1030
JUNE -2012	1.42	7.30	ND	6	5.4	4.7	995
JULY -2012	1.00	7.46	ND	9	5.3	4.6	990
AUGUST -2012	1.22	7.39	ND	4	4.8	4.1	1050
SEPTEMBER-2012	1.64	7.46	ND	6	3.4	2.8	1030
OCTOBER -2012	2.54	7.40	ND	5	2.3	2.0	984
NOVEMBER -2012	3.78	7.32	ND	4	2.8	2.4	905
DECEMBER -2012	5.81	7.38	ND	6	3.5	3.1	918
Average	3.27	7.35	ND	7	4.4	3.8	976

Analyte:	Oil & Grease	Outfall Temperature	Residual Chlorine	Turbidity	Dissolved Oxygen
Units:	(mg/L)	(°C)	(mg/L)	(NTU)	(mg/L)
JANUARY -2012	2.8	22.9	0.05	3.24	1.73
FEBRUARY -2012	3.5	22.1	0.03	2.69	1.79
MARCH -2012	1.8	22.9	0.03	2.77	2.13
APRIL -2012	1.9	23.4	0.05	2.37	2.50
MAY -2012	2.2	24.4	0.06	1.68	2.66
JUNE -2012	<1.2	25.6	0.04	2.54	2.42
JULY -2012	1.3	26.3	0.05	3.40	1.55
AUGUST -2012	2.1	26.9	0.06	2.04	2.52
SEPTEMBER-2012	<1.2	27.2	0.04	2.08	2.00
OCTOBER -2012	1.4	26.4	0.03	1.44	2.03
NOVEMBER -2012	3.8	24.9	0.04	1.65	2.39
DECEMBER -2012	3.4	23.6	0.05	2.22	3.10
Average	2.0	24.7	0.04	2.34	2.24

ND=not detected
NR=not required

SOUTH BAY WATER RECLAMATION PLANT

Annual 2012

Influent to Plant
(SB_INF_02)

Analyte:	Flow	pH	Total Dissolved Solids	Biochemical Oxygen Demand	Total Suspended Solids	Volatile Suspended Solids	Turbidity
Units:	(mgd)	(pH)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(NTU)
JANUARY -2012	7.95	NR	992	296	299	269	NR
FEBRUARY -2012	8.01	7.72	1020	311	287	259	140
MARCH -2012	8.26	NR	973	300	292	262	NR
APRIL -2012	8.25	NR	974	294	287	258	160
MAY -2012	8.25	7.44	1020	297	296	266	155
JUNE -2012	8.01	NR	982	324	292	264	160
JULY -2012	8.03	NR	992	318	284	253	177
AUGUST -2012	8.16	7.57	1020	325	286	256	168
SEPTEMBER-2012	8.00	NR	1020	315	272	243	166
OCTOBER -2012	7.86	7.88	962	322	291	254	155
NOVEMBER -2012	7.80	NR	958	334	282	248	167
DECEMBER -2012	7.86	NR	964	316	283	254	160
Average	8.04	7.65	990	313	288	257	161

ND=not detected
NR=not required

SOUTH BAY WATER RECLAMATION PLANT
ANNUAL SEWAGE

Annual 2012

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 -2012	627	82	ND	ND	0.8	0.5
FEBRUARY -2012	536	135	ND	ND	ND	0.6
MARCH -2012	564	336	ND	ND	0.8	ND
APRIL -2012	711	ND	ND	ND	0.6	0.7
MAY -2012	628	58	ND	ND	ND	ND
JUNE -2012	1070	265	ND	ND	0.8	0.6
JULY -2012	704	111	ND	ND	1.0	0.6
AUGUST -2012	673	138	ND	ND	0.9	0.6
SEPTEMBER-2012	795	128	ND	ND	0.9	0.6
OCTOBER -2012	861	133	3.1	ND	0.9	0.5
NOVEMBER -2012	581	127	ND	ND	0.6	0.5
DECEMBER -2012	604	94	ND	ND	0.5	0.4
AVERAGE	696	134	0.3	ND	0.7	0.5

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 -2012	67.1	44.1	ND	ND	251	318
FEBRUARY -2012	62.3	41.8	ND	0.025	264	261
MARCH -2012	67.0	40.8	ND	ND	266	269
APRIL -2012	77.0	43.3	ND	ND	316	307
MAY -2012	69.8	45.1	ND	ND	292	327
JUNE -2012	96.0	52.2	ND	ND	404	358
JULY -2012	78.8	49.0	ND	ND	296	296
AUGUST -2012	75.5	48.1	ND	ND	281	307
SEPTEMBER-2012	71.8	44.6	ND	ND	290	310
OCTOBER -2012	71.1	46.2	ND	ND	271	297
NOVEMBER -2012	62.3	42.4	ND	ND	241	274
DECEMBER -2012	76.3	43.6	ND	ND	297	165
AVERAGE	72.9	45.1	ND	0.002	289	291

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 -2012	ND	ND	3.7	ND	NR	ND
FEBRUARY -2012	ND	ND	4.2	ND	ND	ND
MARCH -2012	ND	ND	3.5	ND	NR	ND
APRIL -2012	ND	ND	3.2	ND	NR	ND
MAY -2012	ND	ND	3.2	ND	ND	ND
JUNE -2012	ND	ND	4.0	ND	NR	ND
JULY -2012	ND	ND	2.7	ND	ND	ND
AUGUST -2012	ND	ND	2.9	1.3	ND	ND
SEPTEMBER-2012	ND	ND	2.3	ND	NR	ND
OCTOBER -2012	ND	ND	2.5	ND	ND	ND
NOVEMBER -2012	ND	ND	3.5	ND	NR	ND
DECEMBER -2012	0.80	ND	3.0	1.7	NR	ND
AVERAGE	0.07	ND	3.2	0.3	ND	ND

ND= not detected
NR= not required

SOUTH BAY WATER RECLAMATION PLANT
ANNUAL SEWAGE

Annual 2012

Trace Metals

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 -2012	73	16	621	81	ND	ND
FEBRUARY -2012	78	9	476	ND	ND	ND
MARCH -2012	71	9	477	ND	ND	ND
APRIL -2012	104	10	575	ND	ND	ND
MAY -2012	68	9	698	ND	ND	ND
JUNE -2012	97	10	1070	174	ND	ND
JULY -2012	266	18	679	72	4.7	ND
AUGUST -2012	78	8	618	52	2.8	ND
SEPTEMBER-2012	81	9	752	49	2.0	ND
OCTOBER -2012	99	7	856	38	2.4	ND
NOVEMBER -2012	84	8	598	70	4.0	ND
DECEMBER -2012	95	9	718	42	ND	ND
AVERAGE	100	10	678	48	1.3	ND

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 -2012	91.4	44.7	0.154	0.004*	NR	3.0
FEBRUARY -2012	79.0	73.6	0.158*	0.005*	5.0	2.9
MARCH -2012	78.7	25.3	0.116*	0.008*	NR	3.9
APRIL -2012	84.8	24.2	0.122*	0.004*	NR	8.5
MAY -2012	86.7	14.0	0.160*	0.006*	5.2	3.0
JUNE -2012	105	36.0	0.056*	0.001*	NR	4.8
JULY -2012	77.6	50.4	0.121*	0.002*	5.7	4.2
AUGUST -2012	62.2	16.1	0.091*	0.001*	5.5	2.9
SEPTEMBER-2012	62.6	18.1	0.242	0.006	NR	3.4
OCTOBER -2012	63.6	38.4	0.218	ND	5.5	3.3
NOVEMBER -2012	63.3	34.6	0.180*	0.004*	NR	2.5
DECEMBER -2012	86.4	19.0	0.182*	0.004*	NR	2.9
AVERAGE	78.4	32.9	0.149	0.004	5.4	3.8

*= In these months the mercury was performed using the detection limit of 0.0005 UG/L.

ND= not detected
NR= not required

SOUTH BAY WATER RECLAMATION PLANT
ANNUAL SEWAGE

Annual 2012

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 -2012	6.37	7.73	0.63	0.37	0.5	ND
FEBRUARY -2012	6.62	6.98	0.84	0.48	ND	ND
MARCH -2012	6.09	5.60	1.18	ND	0.5	ND
APRIL -2012	7.35	4.67	0.80	0.39	0.8	ND
MAY -2012	5.69	4.63	0.77	0.48	ND	ND
JUNE -2012	8.59	6.69	1.31	0.57	ND	ND
JULY -2012	61.60	6.24	1.29	0.58	0.5	ND
AUGUST -2012	18.70	7.32	1.47	0.46	1.3	ND
SEPTEMBER-2012	6.48	5.83	1.47	ND	0.4	ND
OCTOBER -2012	5.72	5.96	1.19	0.46	ND	ND
NOVEMBER -2012	6.29	3.76	0.82	0.47	0.7	ND
DECEMBER -2012	11.50	5.13	1.19	0.40	1.4	ND
AVERAGE	12.58	5.88	1.08	0.39	0.5	ND

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 -2012	ND	ND	NR	1.43	146	37.2
FEBRUARY -2012	ND	ND	1.7	0.72	123	22.0
MARCH -2012	ND	ND	NR	1.12	191	25.0
APRIL -2012	ND	ND	NR	1.09	187	31.2
MAY -2012	ND	ND	2.8	1.68	139	30.1
JUNE -2012	ND	ND	NR	0.79	179	34.6
JULY -2012	ND	ND	2.1	0.65	193	22.4
AUGUST -2012	4.5	ND	1.8	1.19	154	34.6
SEPTEMBER-2012	ND	ND	NR	0.64	159	37.2
OCTOBER -2012	ND	ND	2.4	1.12	150	23.8
NOVEMBER -2012	4.9	ND	NR	0.85	167	32.8
DECEMBER -2012	ND	ND	NR	1.00	166	37.6
AVERAGE	0.8	ND	2.2	1.02	163	30.7

^= Total recoverable thallium.

ND= not detected
NR= not required

SOUTH BAY WATER RECLAMATION PLANT
Annual Sewage Cations

ANNUAL 2012

Analyte:	Calcium		Magnesium		Lithium	
MDL/Units:	.04 mg/L		.1 mg/L		.002 mg/L	
Source:	INF	EFF	INF	EFF	INF	EFF
JANUARY -2012	64.6	66.2	29.9	29.5	0.022	0.021
FEBRUARY -2012	72.6	73.3	37.1	36.1	0.023	0.021
MARCH -2012	66.4	70.0	33.4	33.7	0.025	0.023
APRIL -2012	67.7	71.9	33.8	33.2	0.024	0.022
MAY -2012	58.4	60.5	27.6	28.3	0.026	0.026
JUNE -2012	64.1	65.5	29.9	29.5	0.030	0.026
JULY -2012	64.2	66.2	30.4	30.5	0.027	0.028
AUGUST -2012	62.3	63.1	29.1	28.5	0.031	0.030
SEPTEMBER-2012	56.7	61.2	30.0	31.4	0.021	0.025
OCTOBER -2012	60.2	59.2	31.5	30.0	0.031	0.025
NOVEMBER -2012	55.6	58.2	28.5	29.4	0.028	0.025
DECEMBER -2012	65.1	63.8	34.6	33.4	0.024	0.024
Average:	63.2	64.9	31.3	31.1	0.026	0.025

Analyte:	Sodium		Potassium	
MDL/Units:	1 mg/L		.3 mg/L	
Source:	INF	EFF	INF	EFF
JANUARY -2012	186	194	19.4	17.9
FEBRUARY -2012	208	213	19.1	18.5
MARCH -2012	195	202	18.3	17.9
APRIL -2012	193	200	18.9	18.6
MAY -2012	158	169	16.9	15.8
JUNE -2012	174	189	18.2	17.2
JULY -2012	177	195	18.1	17.8
AUGUST -2012	172	179	18.6	17.1
SEPTEMBER-2012	172	185	17.0	17.1
OCTOBER -2012	178	184	18.4	16.5
NOVEMBER -2012	176	184	18.3	17.3
DECEMBER -2012	206	207	20.9	19.3
Average:	183	192	18.5	17.6

ND=not detected
INF= Influent
EFF= Effluent

SOUTH BAY WATER RECLAMATION PLANT
ANNUAL SEWAGE

Anions

Annual 2012

Analyte:	Bromide	Bromide	Chloride	Chloride	Fluoride	Fluoride
MDL:	.1	.1	7	7	.05	.05
Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
Source:	INFLUENT	EFFLUENT	INFLUENT	EFFLUENT	INFLUENT	EFFLUENT
JANUARY -2012	0.5	0.6	270	249	0.55	0.93
FEBRUARY -2012	0.5	0.7	276	295	0.53	0.84
MARCH -2012	0.5	0.6	266	284	0.56	0.66
APRIL -2012	0.5	0.5	255	266	0.48	0.57
MAY -2012	0.5	0.5	258	262	0.55	0.77
JUNE -2012	0.4	0.5	249	273	0.33	0.54
JULY -2012	0.5	0.4	241	264	0.52	0.60
AUGUST -2012	0.4	0.5	236	246	0.56	0.65
SEPTEMBER-2012	0.4	0.5	248	257	0.61	0.56
OCTOBER -2012	0.4	0.4	244	250	0.55	0.70
NOVEMBER -2012	0.4	0.4	250	252	0.39	0.71
DECEMBER -2012	0.4	0.5	252	258	0.51	0.58
AVERAGE	0.5	0.5	254	263	0.51	0.68

Analyte:	Nitrate	Nitrate	Ortho Phosph	Ortho Phosphate	Sulfate	Sulfate
MDL:	.04	.04	.2	.2	9	9
Units:	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
Source:	INFLUENT	EFFLUENT	INFLUENT	EFFLUENT	INFLUENT	EFFLUENT
JANUARY -2012	0.21	37.9	10.5	4.6	131	137
FEBRUARY -2012	0.16	28.9	10.3	4.1	135	164
MARCH -2012	0.20	30.8	10.3	5.0	128	166
APRIL -2012	0.21	31.9	10.0	5.3	119	151
MAY -2012	0.22	39.3	10.6	7.5	129	153
JUNE -2012	0.13	41.4	10.8	5.2	126	164
JULY -2012	0.31	20.7	10.8	7.8	123	164
AUGUST -2012	0.74	41.4	10.8	5.6	115	154
SEPTEMBER-2012	0.12	44.9	10.8	8.0	106	149
OCTOBER -2012	1.15	21.5	10.1	1.5	107	140
NOVEMBER -2012	0.63	39.4	10.7	3.0	109	127
DECEMBER -2012	0.92	36.6	10.9	5.6	106	140
AVERAGE	0.42	34.6	10.6	5.3	120	151

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

SOUTH BAY WATER RECLAMATION PLANT
ANNUAL SEWAGE

Ammonia-Nitrogen and Total Cyanides

Annual 2012

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 -2012	35.1	1.8	ND	ND
FEBRUARY -2012	32.3	2.7	ND	ND
MARCH -2012	36.2	0.3	ND	ND
APRIL -2012	33.0	ND	ND	ND
MAY -2012	34.8	ND	ND	ND
JUNE -2012	36.1	ND	ND	ND
JULY -2012	37.1	0.6	ND	0.002
AUGUST -2012	36.5	ND	0.003	ND
SEPTEMBER-2012	38.5	ND	ND	ND
OCTOBER -2012	35.2	2.5	ND	ND
NOVEMBER -2012	39.2	ND	ND	ND
DECEMBER -2012	38.1	ND	ND	ND
Average:	36.0	0.7	0.0003	0.0002

ND= not detected
NA= not analyzed

SOUTH BAY WATER RECLAMATION PLANT
Radioactivity
Effluent to the Ocean (SB_OUTFALL_01)

Analyzed by: TestAmerica Laboratories Richland

Annual 2012

Month	Gross Alpha Radiation	Gross Beta Radiation
JANUARY -2012	1.0 ± 4.2	21.3 ± 5.2
FEBRUARY -2012	-2.1 ± 3.8	21.7 ± 5.8
MARCH -2012	1.2 ± 3.3	19.8 ± 3.7
APRIL -2012	0.7 ± 3.1	17.9 ± 3.8
MAY -2012	3.9 ± 3.9	18.3 ± 7.5
JUNE -2012	3.3 ± 4.1	14.0 ± 7.4
JULY -2012	2.8 ± 3.1	22.2 ± 4.7
AUGUST -2012	0.1 ± 2.8	17.5 ± 4.5
SEPTEMBER-2012	1.5 ± 3.3	17.9 ± 4.9
OCTOBER -2012	-1.0 ± 3.4	19.0 ± 3.7
NOVEMBER -2012	5.1 ± 3.8	20.8 ± 4.6
DECEMBER -2012	-4.0 ± 4.3	22.2 ± 5.5
AVERAGE	1.0 ± 3.6	19.4 ± 5.1

Units in picocuries/liter (pCi/L)

SOUTH BAY WATER RECLAMATION PLANT
SEWAGE ANNUAL- Chlorinated Pesticide Analysis

Annual 2012

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

*= This sample was extracted approximately 10 hours after the holding time.

ND=not detected
NA=not analyzed
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 2012

Source:			INF	INF	INF	INF	INF
Date:			FEB	MAY	AUG	OCT	
Analyte	MDL	Units					Avg
Aldrin	7	NG/L	ND	ND	ND	ND	ND
Dieldrin	8	NG/L	ND	ND	ND	ND	ND
BHC, Alpha isomer	7	NG/L	ND	ND	ND	ND	ND
BHC, Beta isomer	6	NG/L	ND	ND	ND	ND	ND
BHC, Gamma isomer	5	NG/L	ND	ND	ND	ND	ND
BHC, Delta isomer	4	NG/L	ND	ND	ND	ND	ND
p,p-DDD	4	NG/L	ND	ND	ND	ND	ND
p,p-DDE	4	NG/L	ND	ND	ND	4	1
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	5	NG/L	ND	ND	ND	ND	ND
Alpha Endosulfan	4	NG/L	ND	ND	ND	ND	ND
Beta Endosulfan	5	NG/L	ND	ND	ND	ND	ND
Endosulfan Sulfate	6	NG/L	ND	ND	ND	ND	ND
Endrin	8	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	8	NG/L	0	0	0	0	0
Hexachlorocyclohexanes	7	NG/L	0	0	0	0	0
DDT and derivatives	8	NG/L	0	0	0	4	1
Chlordane + related cmpds.	6	NG/L	0	0	0	0	0
Polychlorinated biphenyls	4000	NG/L	0	0	0	0	0
Endosulfans	6	NG/L	0	0	0	0	0
Heptachlors	8	NG/L	0	0	0	0	0
Chlorinated Hydrocarbons	4000	NG/L	0	0	0	4	1

ND=not detected
NA=not analyzed
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 PesticidesEPA Method 614/622 (with additions)

INFLUENT & EFFLUENT

Annual 2012

Source:			Effluent	Effluent	Influent	Influent
Date:			01-MAY-2012	02-OCT-2012	01-MAY-2012	02-OCT-2012
Analyte	MDL	Units	P614092	P634422	P614087	P634417
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	ND
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	0.0

ND=not detected

SOUTH BAY WATER RECLAMATION PLANT
ANNUAL SEWAGE – Tributyl Tin Analysis

Annual 2012

Source:			EFF	EFF	EFF	EFF	
Date:			FEB	MAY	AUG	OCT	
Analyte	MDL	Units					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

Source:			INF	INF	INF	INF	
Date:			FEB	MAY	AUG	OCT	
Analyte	MDL	Units					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
EFF= Effluent
INF= Influent

SOUTH BAY WATER RECLAMATION PLANT
SEWAGE ANNUAL - Acid Extractables

Annual 2012

Source: EFFLUENT

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

Source: 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	42.5	31.4	40.2	40.5	38.7
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	42.5	31.4	40.2	40.5	38.7
Total Phenols	2.16	UG/L	42.5	31.4	40.2	40.5	38.7
Additional analytes determined							
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	118	91.7	93.6	95.2	99.6
2,4,5-Trichlorophenol	1.66	UG/L	ND	ND	ND	ND	ND

ND=not detected
NA=not analyzed

SOUTH BAY WATER RECLAMATION PLANT

SEWAGE ANNUAL Priority Pollutants Base/Neutrals

Annual 2012

Source: EFFLUENT

Analyte	MDL	Units	FEB	MAY	AUG	OCT	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	11.2	ND	ND	ND	2.8
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	11.2	0.0	0.0	0.0	2.8
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 2012

Source: INFLUENT

Analyte	MDL	Units	FEB	MAY	AUG	OCT	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	10.0	5.7	8.6	7.0	7.8
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	22.5	ND	23.7	10.5	14.2
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	32.5	5.7	32.3	17.5	22.0
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 Purgeables

Annual 2012

Source: EFFLUENT

Analyte	MDL	Units	FEB	MAY	AUG	OCT	AVG
Dichlorodifluoromethane	.66	UG/L	ND	ND	ND	ND	ND
Chloromethane	.5	UG/L	ND	ND	ND	ND	ND
Vinyl chloride	.4	UG/L	ND	ND	ND	ND	ND
Bromomethane	.7	UG/L	ND	ND	ND	ND	ND
Chloroethane	.9	UG/L	ND	ND	ND	ND	ND
Trichlorofluoromethane	.3	UG/L	ND	ND	ND	ND	ND
Acrolein	1.3	UG/L	ND	ND	ND	ND	ND
1,1-Dichloroethane	.4	UG/L	ND	ND	ND	ND	ND
Methylene chloride	.3	UG/L	ND	ND	0.3	ND	0.1
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	0.4	1.7	0.7	0.4	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	1.0	ND	ND	0.3
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	<0.6	ND	ND	0.0
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	ND	ND	ND
1,2-Dichlorobenzene	.4	UG/L	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	1.52	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	0.4	1.7	1.0	0.4	0.9
Purgeable Compounds	1.3	UG/L	0.4	2.7	1.0	0.4	1.1
Methyl Iodide	.6	UG/L	ND	ND	ND	ND	ND
Carbon disulfide	.6	UG/L	ND	ND	ND	ND	ND
Acetone	4.5	UG/L	ND	ND	ND	ND	ND
Allyl chloride	.6	UG/L	ND	ND	ND	ND	ND
Methyl tert-butyl ether	.4	UG/L	ND	ND	ND	ND	ND
Chloroprene	.4	UG/L	ND	ND	ND	ND	ND
1,2-Dibromoethane	.3	UG/L	ND	ND	ND	ND	ND
2-Butanone	6.3	UG/L	ND	ND	ND	ND	ND
Methyl methacrylate	.8	UG/L	ND	ND	ND	ND	ND
2-Nitropropane	12	UG/L	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	1.3	UG/L	ND	ND	ND	ND	ND
meta,para xylenes	.6	UG/L	ND	ND	ND	ND	ND
ortho-xylene	.4	UG/L	ND	ND	ND	ND	ND
Isopropylbenzene	.3	UG/L	ND	ND	ND	ND	ND
Styrene	.3	UG/L	ND	ND	ND	ND	ND
Benzyl chloride	1.1	UG/L	ND	ND	ND	ND	ND

ND=not detected

SOUTH BAY WATER RECLAMATION PLANT
SEWAGE ANNUAL Priority Pollutants Purgeables

Annual 2012

Source: INFLUENT

Analyte	MDL	Units	FEB	MAY	AUG	OCT	AVG
Dichlorodifluoromethane	.66	UG/L	ND	ND	ND	ND	ND
Chloromethane	.5	UG/L	ND	ND	ND	ND	ND
Vinyl chloride	.4	UG/L	ND	ND	ND	ND	ND
Bromomethane	.7	UG/L	ND	ND	ND	ND	ND
Chloroethane	.9	UG/L	ND	ND	ND	ND	ND
Trichlorofluoromethane	.3	UG/L	ND	ND	ND	ND	ND
Acrolein	1.3	UG/L	ND	ND	ND	ND	ND
1,1-Dichloroethane	.4	UG/L	ND	ND	ND	ND	ND
Methylene chloride	.3	UG/L	0.6	1.0	0.9	9.0	2.9
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	1.2	2.3	1.7	12.0	4.3
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	1.3	0.8	0.7	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	5.6	ND	ND	ND	1.4
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	0.5	0.9	0.9	0.8*	0.8
1,2-Dichlorobenzene	.4	UG/L	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	1.52	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	1.8	3.3	2.6	21.0	7.2
Purgeable Compounds	1.3	UG/L	8.5	5.5	4.3	21.7	10.0
Methyl Iodide	.6	UG/L	ND	ND	ND	ND	ND
Carbon disulfide	.6	UG/L	1.3	1.7	2.3	1.8	1.8
Acetone	4.5	UG/L	332	453	291	195	318
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	10.9	10.1	6.4	8.5
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

*= Blank did not meet QC criteria for this analyte due to contamination. The result value of the blank in this batch was 0.44 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

Annual 2012

Source:				INF	INF	INF	INF
				JAN	FEB	MAR	APR
Analyte	MDL	Units	Equiv	P601833	P602860	P609204	P612409
2,3,7,8-tetra CDD	.26	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.317	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.482	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.484	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.46	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.497	PG/L	0.010	27.2	90.6	DNQ23.7	DNQ22.4
octa CDD	1.41	PG/L	0.001	340	660	300	270
2,3,7,8-tetra CDF	.257	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.335	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.34	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.284	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.281	PG/L	0.100	ND	DNQ2.33	ND	ND
1,2,3,7,8,9-hexa CDF	.348	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.294	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.324	PG/L	0.010	4.61	DNQ4.01	DNQ4.11	DNQ4.1
1,2,3,4,7,8,9-hepta CDF	.49	PG/L	0.010	ND	ND	ND	ND
octa CDF	.805	PG/L	0.001	23	DNQ12	DNQ14.1	DNQ13.3

Source:				INF	INF	INF	INF
				MAY	JUN	JUL	AUG
Analyte	MDL	Units	Equiv	P614087	P620069	P623996	P626993
2,3,7,8-tetra CDD	.26	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.317	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.482	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.484	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.46	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.497	PG/L	0.010	DNQ14.8	DNQ15.8	DNQ18.4	DNQ19.3
octa CDD	1.41	PG/L	0.001	260	150	240	160
2,3,7,8-tetra CDF	.257	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.335	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.34	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.284	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.281	PG/L	0.100	ND	ND	DNQ2.07	DNQ1.48
1,2,3,7,8,9-hexa CDF	.348	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.294	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.324	PG/L	0.010	DNQ3.02	ND	DNQ4.72	DNQ4.14
1,2,3,4,7,8,9-hepta CDF	.49	PG/L	0.010	ND	ND	ND	ND
octa CDF	.805	PG/L	0.001	DNQ9.53	DNQ8.42	DNQ14.2	DNQ7.69

Source:				INF	INF	INF	INF
				SEP	OCT	NOV	DEC
Analyte	MDL	Units	Equiv	P631911	P634417	P638904	P642243
2,3,7,8-tetra CDD	.26	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.317	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.482	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.484	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.46	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.497	PG/L	0.010	24.5	25.6	DNQ19.0	DNQ13.8
octa CDD	1.41	PG/L	0.001	220	160	210	140
2,3,7,8-tetra CDF	.257	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.335	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.34	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.284	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.281	PG/L	0.100	DNQ3.46	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.348	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.294	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.324	PG/L	0.010	DNQ3.71	ND	DNQ3.89	ND
1,2,3,4,7,8,9-hepta CDF	.49	PG/L	0.010	ND	ND	ND	ND
octa CDF	.805	PG/L	0.001	DNQ9.69	DNQ8.47	DNQ10.9	DNQ6.47

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 2012

Source:				EFF	EFF	EFF	EFF
				JAN	FEB	MAR	APR
Analyte	MDL	Units	Equiv	P601836	P602865	P609208	P612413
2,3,7,8-tetra CDD	.26	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.317	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.482	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.484	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.46	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.497	PG/L	0.010	ND	ND	ND	ND
octa CDD	1.41	PG/L	0.001	DNQ11.7	DNQ8.45	DNQ7.68	DNQ8.01
2,3,7,8-tetra CDF	.257	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.335	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.34	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.284	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.281	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.348	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.294	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.324	PG/L	0.010	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	.49	PG/L	0.010	ND	ND	ND	ND
octa CDF	.805	PG/L	0.001	ND	ND	ND	ND

Source:				EFF	EFF	EFF	EFF
				MAY	JUN	JUL	AUG
Analyte	MDL	Units	Equiv	P614092	P620073	P623999	P626998
2,3,7,8-tetra CDD	.26	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.317	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.482	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.484	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.46	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.497	PG/L	0.010	ND	ND	ND	ND
octa CDD	1.41	PG/L	0.001	DNQ6.53	ND	DNQ8.69	ND
2,3,7,8-tetra CDF	.257	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.335	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.34	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.284	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.281	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.348	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.294	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.324	PG/L	0.010	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	.49	PG/L	0.010	ND	ND	ND	ND
octa CDF	.805	PG/L	0.001	ND	ND	ND	ND

Source:				EFF	EFF	EFF	EFF
				SEP	OCT	NOV	DEC
Analyte	MDL	Units	Equiv	P631915	P634422	P638908	P642247
2,3,7,8-tetra CDD	.26	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.317	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.482	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.484	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.46	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.497	PG/L	0.010	ND	ND	ND	ND
octa CDD	1.41	PG/L	0.001	DNQ7.24	ND	DNQ6.19	ND
2,3,7,8-tetra CDF	.257	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.335	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.34	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.284	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.281	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.348	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.294	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.324	PG/L	0.010	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	.49	PG/L	0.010	ND	ND	ND	ND
octa CDF	.805	PG/L	0.001	ND	ND	ND	ND

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 2012

Source:				INF TCCD	INF TCCD	INF TCCD	INF TCCD
				JAN	FEB	MAR	APR
Analyte	MDL	Units	Equiv	P601833	P602860	P609204	P612409
2,3,7,8-tetra CDD	.26	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.317	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.482	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.484	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.46	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.497	PG/L	0.010	0.272	0.906	DNQ0.237	DNQ0.224
octa CDD	1.41	PG/L	0.001	0.340	0.660	0.300	0.270
2,3,7,8-tetra CDF	.257	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.335	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.34	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.284	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.281	PG/L	0.100	ND	DNQ0.233	ND	ND
1,2,3,7,8,9-hexa CDF	.348	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.294	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.324	PG/L	0.010	0.046	DNQ0.040	DNQ0.041	DNQ0.041
1,2,3,4,7,8,9-hepta CDF	.49	PG/L	0.010	ND	ND	ND	ND
octa CDF	.805	PG/L	0.001	0.023	DNQ0.012	DNQ0.014	DNQ0.013

Source:				INF TCCD	INF TCCD	INF TCCD	INF TCCD
				MAY	JUN	JUL	AUG
Analyte	MDL	Units	Equiv	P614087	P620069	P623996	P626993
2,3,7,8-tetra CDD	.26	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.317	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.482	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.484	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.46	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.497	PG/L	0.010	DNQ0.148	DNQ0.158	DNQ0.184	DNQ0.193
octa CDD	1.41	PG/L	0.001	0.26	0.15	0.24	0.16
2,3,7,8-tetra CDF	.257	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.335	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.34	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.284	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.281	PG/L	0.100	ND	ND	DNQ0.207	DNQ0.148
1,2,3,7,8,9-hexa CDF	.348	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.294	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.324	PG/L	0.010	DNQ0.030	ND	DNQ0.047	DNQ0.041
1,2,3,4,7,8,9-hepta CDF	.49	PG/L	0.010	ND	ND	ND	ND
octa CDF	.805	PG/L	0.001	DNQ0.010	DNQ0.008	DNQ0.014	DNQ0.008

Source:				INF TCCD	INF TCCD	INF TCCD	INF TCCD
				SEP	OCT	NOV	DEC
Analyte	MDL	Units	Equiv	P631911	P634417	P638904	P642243
2,3,7,8-tetra CDD	.26	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.317	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.482	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.484	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.46	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.497	PG/L	0.010	0.245	0.256	DNQ0.190	DNQ0.138
octa CDD	1.41	PG/L	0.001	0.220	0.160	0.210	0.140
2,3,7,8-tetra CDF	.257	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.335	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.34	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.284	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.281	PG/L	0.100	DNQ0.346	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.348	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.294	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.324	PG/L	0.010	DNQ0.037	ND	DNQ0.039	ND
1,2,3,4,7,8,9-hepta CDF	.49	PG/L	0.010	ND	ND	ND	ND
octa CDF	.805	PG/L	0.001	DNQ0.010	DNQ0.008	DNQ0.011	DNQ0.006

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 2012

Source:				EFF TCCD	EFF TCCD	EFF TCCD	EFF TCCD
				JAN	FEB	MAR	APR
Analyte	MDL	Units	Equiv	P601836	P602865	P609208	P612413
2,3,7,8-tetra CDD	.26	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.317	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.482	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.484	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.46	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.497	PG/L	0.010	ND	ND	ND	ND
octa CDD	1.41	PG/L	0.001	DNQ0.012	DNQ0.008	DNQ0.008	DNQ0.008
2,3,7,8-tetra CDF	.257	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.335	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.34	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.284	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.281	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.348	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.294	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.324	PG/L	0.010	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	.49	PG/L	0.010	ND	ND	ND	ND
octa CDF	.805	PG/L	0.001	ND	ND	ND	ND

Source:				EFF TCCD	EFF TCCD	EFF TCCD	EFF TCCD
				MAY	JUN	JUL	AUG
Analyte	MDL	Units	Equiv	P614092	P620073	P623999	P626998
2,3,7,8-tetra CDD	.26	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.317	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.482	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.484	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.46	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.497	PG/L	0.010	ND	ND	ND	ND
octa CDD	1.41	PG/L	0.001	DNQ0.007	ND	DNQ0.009	ND
2,3,7,8-tetra CDF	.257	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.335	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.34	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.284	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.281	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.348	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.294	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.324	PG/L	0.010	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	.49	PG/L	0.010	ND	ND	ND	ND
octa CDF	.805	PG/L	0.001	ND	ND	ND	ND

Source:				EFF TCCD	EFF TCCD	EFF TCCD	EFF TCCD
				SEP	OCT	NOV	DEC
Analyte	MDL	Units	Equiv	P631915	P634422	P638908	P642247
2,3,7,8-tetra CDD	.26	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.317	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.482	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.484	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.46	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.497	PG/L	0.010	ND	ND	ND	ND
octa CDD	1.41	PG/L	0.001	DNQ0.007	ND	DNQ0.006	ND
2,3,7,8-tetra CDF	.257	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.335	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.34	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.284	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.281	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.348	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.294	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.324	PG/L	0.010	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	.49	PG/L	0.010	ND	ND	ND	ND
octa CDF	.805	PG/L	0.001	ND	ND	ND	ND

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