



Final Report for the Del Obispo Storm Drain Project

This project received Clean Beaches Initiative funding
per contract agreement Exhibit A-1, Task 1.3

State Water Resources Control Board
Agreement Number: 02-216-550-0

Prepared by
The City of Dana Point
Public Works & Engineering Department

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Table 1.1 – Schedule of Tasks per Contract

TASK		PRODUCT	COMPLETION DATE
1.0	Project Management and Administration		
	1.1	Quarterly Reports/Subcontract Documentation Permits, and Project Survey Form	September 2001 to Project Completion
2.0	Federal, State, and Local Permitting		
	2.2	Agreement with SCWD	July 2003
	2.3	Agreement with the SOCWA	July 2003
3.0	Quality Assurance Project Plan		
	3.1	QAPP	March 2003
4.0	Final Project Engineering		
	4.1	100% Project Design	December 2002
	4.2	Contract Documents	December 2002
	4.3	Award of Contract	March 2003
5.0	Project Implementation		
	5.1	Construction Management Contract	March 2003
	5.2	Construction Contractor Contract	March 2003
	5.3	Geotechnical Engineering	March 2003
	5.4	Construction	November 2003
6.0	Reporting		
	6.1	Monitoring and Reporting Plan	January 2004
	6.2	Draft Final Report	November 2004
	6.3	Final Report	January 2005

1. INTRODUCTION

1.1 Problem Statement

Doheny State Beach, located in the City of Dana Point, is one of the most highly used beaches in the State of California; it has an average of greater than 850,000 visitors annually. This beach however, is consistently plagued by high levels of bacteria in the surf zone. According to Assembly Bill 411 (AB411), which governs water quality standards, water contact at Doheny State Beach is not suggested the majority of the year due to these high bacteria levels. On this note, one method of measuring water quality is a Beach Mile Day (BMD). A BMD is determined by multiplying the number of days of a closure or a warning sign posting by the number of miles of beach closed or posted (Orange County Health Care Agency, 2002). Doheny State Beach has a total of 1.1 miles of usable beach and a total of 401.5 BMDs available for the calendar year. The table below depicts the number of BMDs impacted by bacteria pollution by year. The table also shows the Percent Usable BMDs. This number shows what percentage of the total available BMDs are safe for public water contact.

Table 1.1.1 – Beach Mile Days by Year

Year	Beach Mile Days Impacted	Remaining BMDs	Percent Usable BMDs
2000	293.0	108.5	27%
2001	281.7	119.8	30%
2002	311.8	89.7	22%
2003	243.9	157.6	39%
2004*	169.3	232.2	58%

*2004 data is from January 1, 2004 to October 15, 2004

These numbers coupled with the consistently high bacteria levels at Doheny State Beach prompted the City to investigate the source of this bacteria loading. After several studies, the City determined that one significant source of bacteria is urban runoff flowing into storm drains that empty into San Juan Creek and eventually discharge onto Doheny State Beach.

It is important to note that the Del Obispo Storm Drain, with its 27 acre tributary area, empties directly onto the surf zone at the southerly portion of Doheny State Beach. Since urban runoff is one of the main contributors of bacteria to San Juan Creek, the logical solution is to intercept this source of bacteria before it reaches Doheny State Beach. To accomplish this, the City of Dana Point constructed a treatment and low flow diversion project that provides some treatment of runoff flows and diverts 100% of the non-stormwater flows from the Del Obispo Storm Drain to a sanitary sewer system. The treatment for urban runoff consists of a solids removal unit manufactured by CDS. During periods of low flow (non-stormwater flow), nuisance flow in the drainage basin that empties into the Del Obispo Storm Drain is now diverted into the solids removal unit

which filters the runoff through a screening process. After entering the solids removal unit, the runoff flows into a screen chamber where it is filtered for debris and sediment. Captured solids are permanently retained within the screen and sump. Floating solids are kept in continuous motion on the water surface within the screen while heavier materials settle into the sump. After this treatment process, the filtered runoff is then directed to the sanitary sewer system, instead of San Juan Creek and ultimately Doheny State Beach. During periods of storm flow the first flush of runoff will be treated and then discharged to Doheny State Beach. Figure 1.1.1 schematically depicts the overall diversion process, and Figure 1.1.2 illustrates the solids removal unit and process.

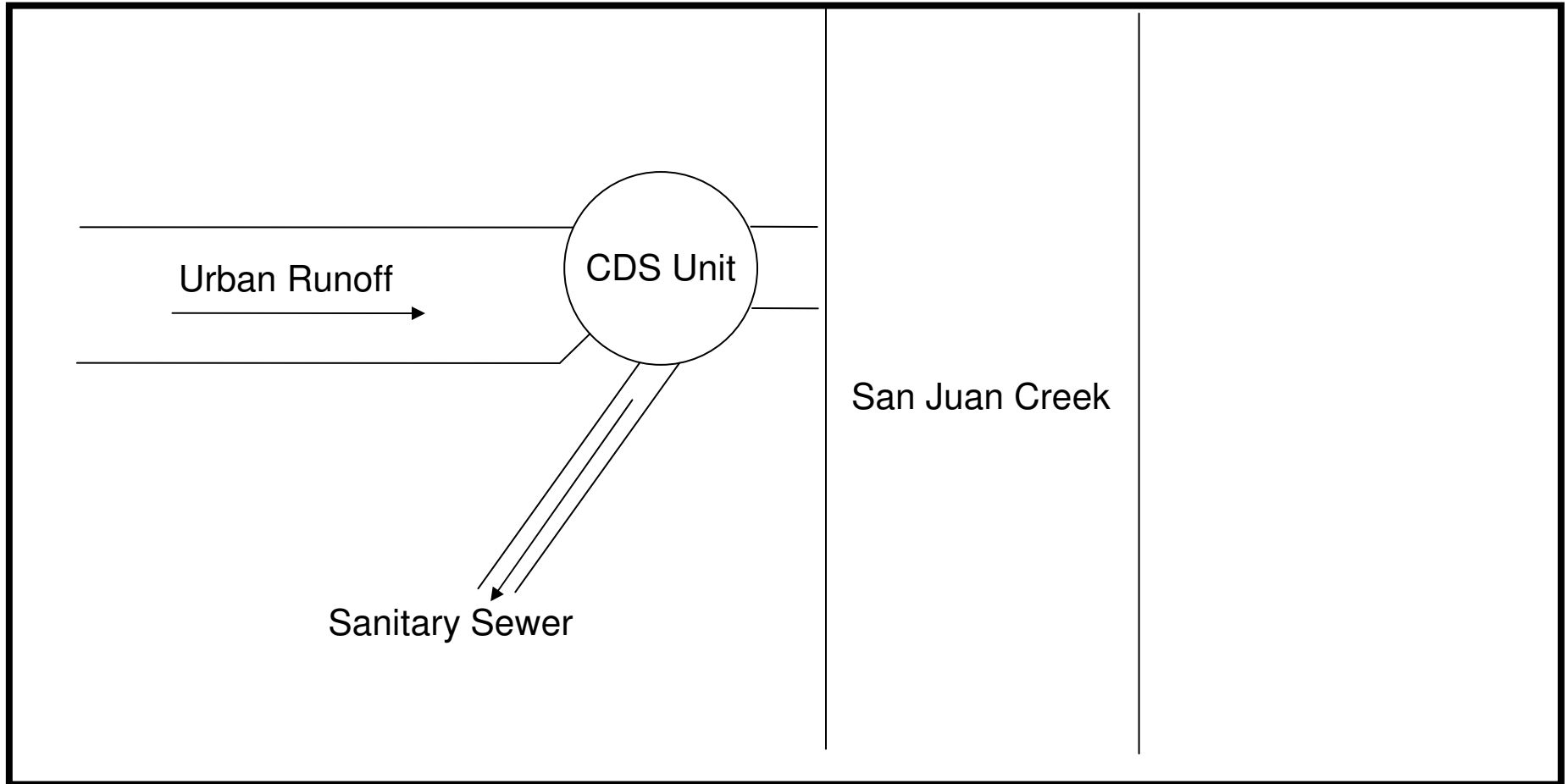


Figure 1.1.1 Schematic of the Diversion Process

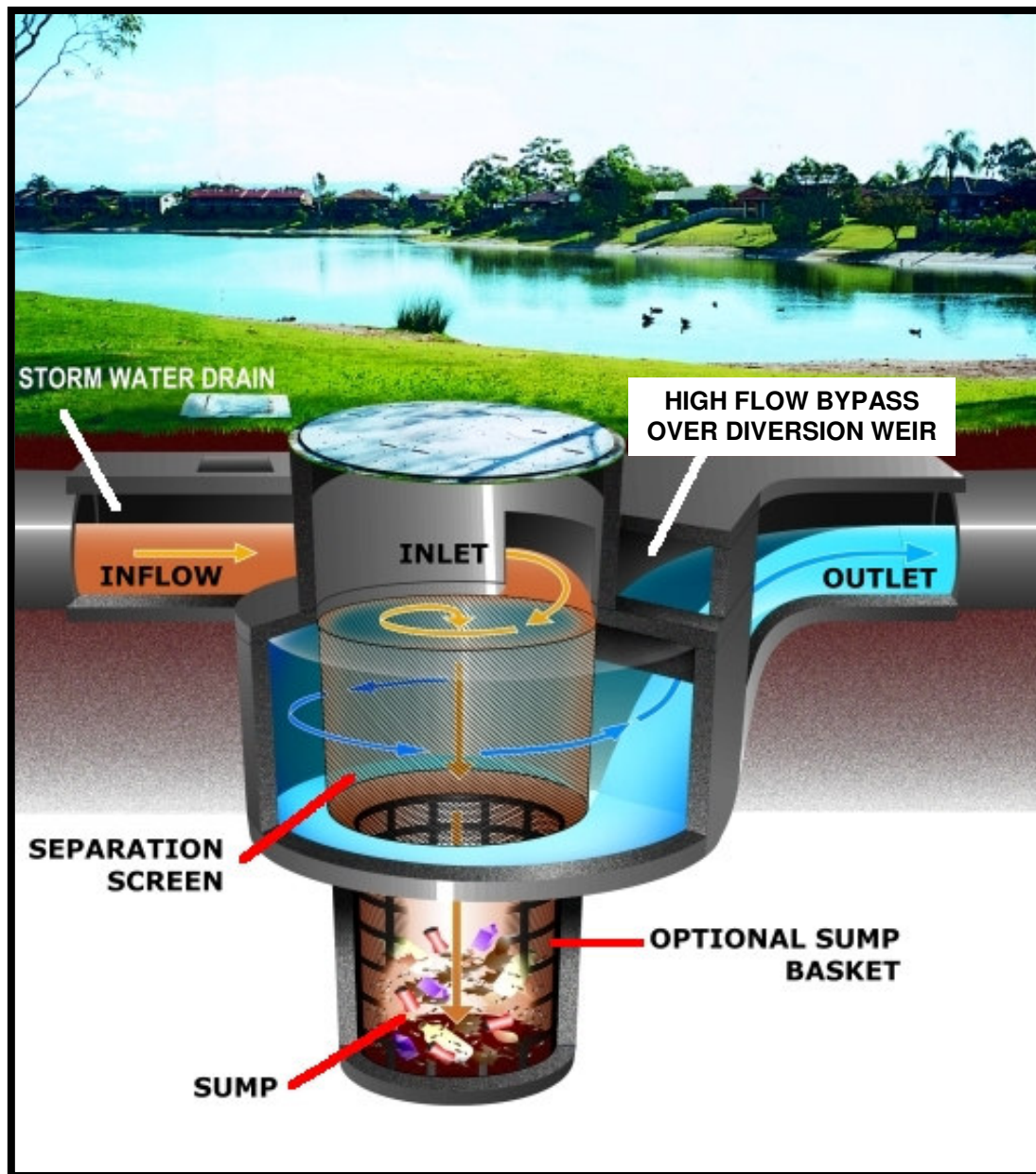


Figure 1.1.2 Solids Removal Unit

Since the City has identified the Del Obispo Storm Drain as a possible source of bacteria to Doheny State Beach, the City Council actively attacked the problem. The solution they developed and implemented involved the construction of a comprehensive filtration and diversion system. This solution also permanently diverts urban runoff during non-storm events year round to the sanitary sewer system. This required the collaboration of several agencies including the State Water Resources Control Board (SWRCB); Orange County Harbors, Beaches and Parks Division; South Coast Water District (SCWD); and South Orange County Wastewater Authority (SOCWA).

Originally, the City planned to divert flows only during the non-rainy season which is typically between April and October. Currently though, the City has developed a protocol where the diversion valve is left open until an actual storm event occurs. At that time, City staff manually shuts the diversion off to avoid excess flows into the sanitary sewer system. Construction of this project was completed in November 2003 and the diversion was activated on November 5, 2003.

The overall goal of this project is to reduce the number of beach closures and postings at Doheny State Beach and to aid in the effort to improve overall ocean water quality in Dana Point. This diversion, along with the Alipaz Storm Drain Diversion Project in the San Juan Creek Watershed and the North Creek Storm Drain Diversion Project are working collectively to divert harmful urban runoff from watersheds which empty directly to Doheny State Beach. Additional water quality efforts within the City include the Salt Creek Ozone Treatment Facility which is currently under construction, the urban runoff diversion located along Coast Highway, and the Capistrano Beach Storm Drain which is currently in the 95% design phase. Non-construction related efforts include awareness programs for local homeowners associations and schools, along with general coordination with municipalities upstream of Dana Point.

1.2 *Water Sampling Requirements*

Upon completion of the Del Obispo Storm Drain Project, the City was required to perform water sampling for two separate agencies with two very different objectives. These agencies were SWRCB and SOCWA.

Pursuant to the requirements of the Clean Beaches Initiative Contract (Proposition 13), SWRCB requires the City of Dana Point to perform water sampling for three different types of bacteria in the project area and in the surf zone at Doheny State Beach. The City's performs water sampling at the project site just before runoff enters the diversion structure, at the diversion to the sanitary sewer, and also where the structure outlets to San Juan Creek. SOCWA and OCHCA perform the surf zone water sampling and monitoring. The surf zone is defined as the area of water extending approximately 500 meters from the shore. The three types of bacteria which the state requires sampling for are total coliform, fecal coliform, and enterococcus. The State requirements for bacteria testing are similar to those performed by SOCWA and the Orange County Health Care

Agency (OCHCA). Also, SWRCB requires the frequency of sampling to be every week during the AB411 season and in conjunction with regular water quality sampling performed by SOCWA and OCHCA at various locations depicted in Figure 1.2.2. This frequency of sampling allows for the water sampling results at the project site to be compared with the water sampling results throughout Doheny State Beach, specifically the results at the surf zone where swimmers and surfers are consistently in contact.

Additionally, in order for the City to divert the urban runoff from the Del Obispo Storm Drain Treatment Device to the sanitary sewer system, SOCWA who owns and operates the sanitary sewer system, requires the City to perform monthly water sampling for an array of constituents pursuant to Special Wastewater Discharge Permit SCWD-N4-003 (see Table 1.2.1, Page 11). The sampling requirements include values for flow, pH, oil and grease, various metals and pollutants, Total Suspended Solids, Suspended Solids, and Total Volatile Suspended Solids. The City is given a range of values for which the diverted runoff must comply. These requirements protect the water treatment facility to which the runoff is directed.

The project site sampling locations are located as follows:

- Just upstream of the Del Obispo Storm Drain Treatment Device in an access manhole. This allows for a water sample of untreated urban runoff before it enters the treatment device.
- In an access manhole, after the runoff has been treated by the CDS unit. This location allows for data collection just prior to the runoff entering the sanitary sewer, giving SOWCA an idea of what constituents are entering into the wastewater treatment plant.
- If flow present on the downstream side of the diversion weir, a sample will also be taken at this location.

Figure 1.2.1, on Page 10, shows the sampling locations for SOCWA and OCHCA with respect to the location of the Del Obispo Storm Drain Project. Below is an explanation of the abbreviations found in Figure 1.2.1:

- | | |
|--------------------|-----------------|
| • B = Doheny Beach | • M = Marina |
| • C = Creek | • O = Ocean |
| • D = Dana Point | • S = Surf Zone |

Therefore:

- ODB02 = Ocean, Dana Point, Doheny Beach, Site No. 02
- ODB05 = Ocean, Dana Point, Doheny Beach, Site No. 05
- C1 = Creek, Site No. 1
- C2 = Creek, Site No. 2
- S-0 through S-9 = Surf Zone Monitoring Sites 0 through 9

Figure 1.2.2 shows the sampling locations at the Del Obispo Storm Drain Project, as well as the overall facility.

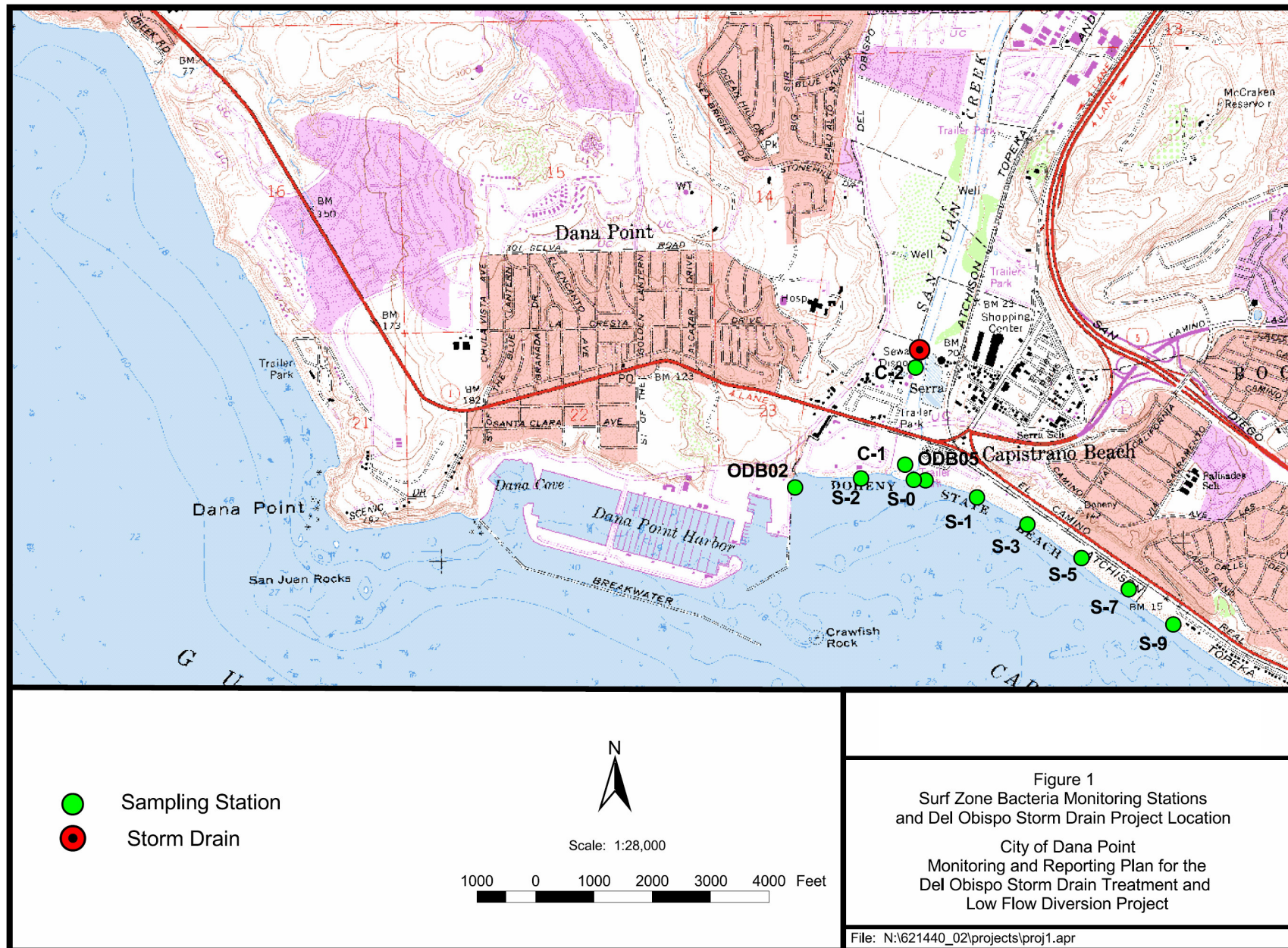


Figure 1.2.1 SOCWA & OCHCA Sampling Locations at the Del Obispo Storm Drain Project

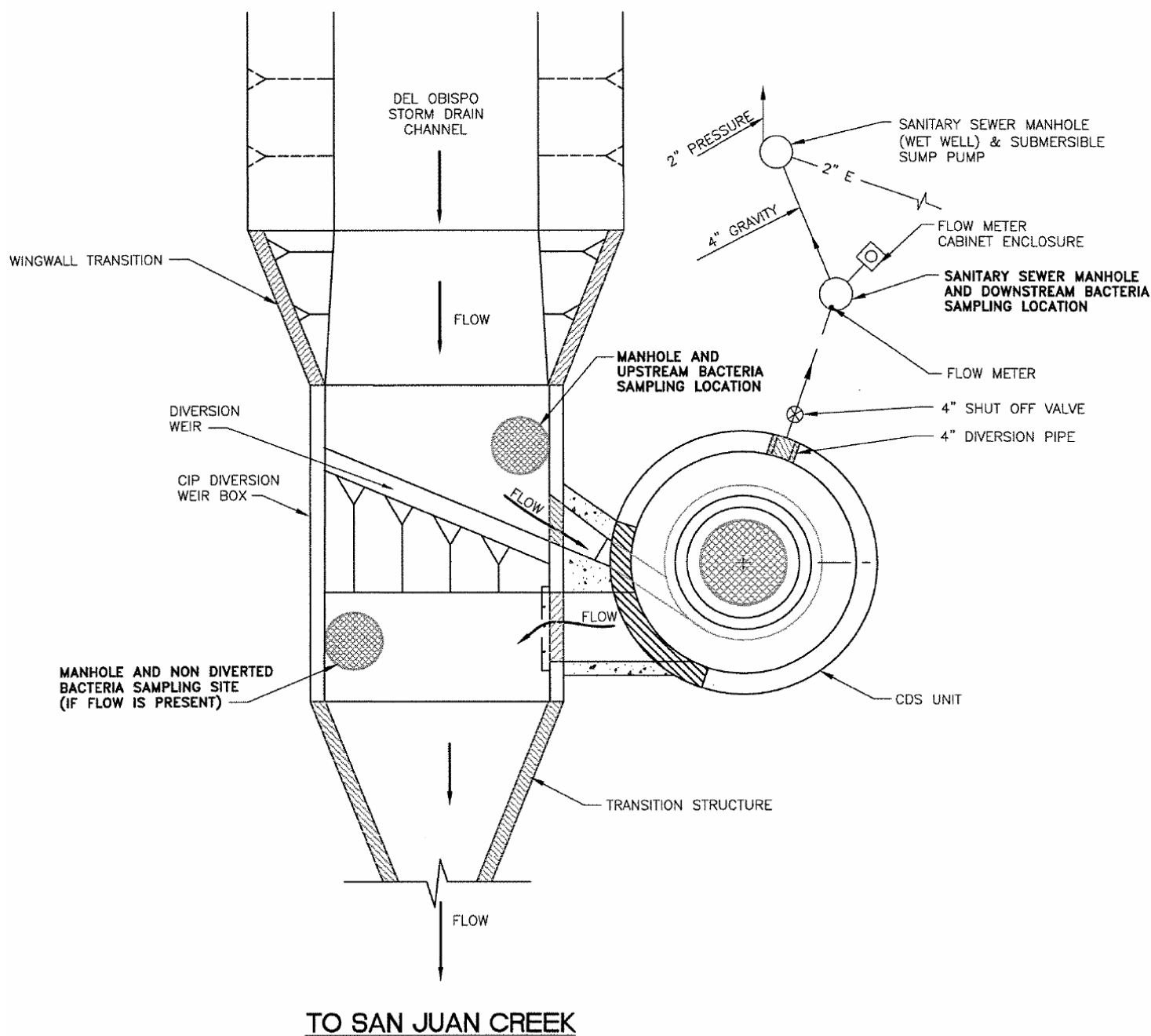
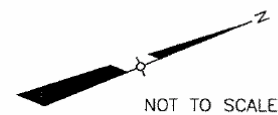


Figure 1.2.2 Sampling Locations at the Del Obispo Storm Drain Project

Table 1.2.1 lists the sampling requirements for Special Wastewater Discharge Permit SCWD-N4-002.

**Table 1.2.1 Special Waste Discharge Permit
 SCWD-N4-003 Requirements**

Pollutant	Local Limits	Units
Flow	72,000	Gallons/Day
pH	5.0-11.0	Units
Oil & Grease	300	mg/L
Cadmium (T)	0.93	mg/L
Chromium (T)	4.9	mg/L
Copper (T)	7.2	mg/L
Lead (T)	4.9	mg/L
Mercury (T)	0.19	mg/L
Nickel (T)	9.5	mg/L
Silver (T)	2.8	mg/L
Zinc (T)	7.9	mg/L
Molybdenum	No Local Limits	mg/L
Manganese	No Local Limits	mg/L
Tributyl Tin	No Local Limits	μg/L
Sulfate	No Local Limits	mg/L
cBOD	No Local Limits	mg/L
MBAS	No Local Limits	mg/L
SS	No Local Limits	mL/L
TDS	No Local Limits	mg/L
TSS	No Local Limits	mg/L
TVSS	No Local Limits	mg/L

According to the California Code of Regulations – Title 17 and the California Health and Safety Code, the standards for bacteria are listed below:

Table 1.2.2 Single Sample Standards per Title 17 of the CCR

Total Coliform	10,000 CFU/100mL
Fecal Coliform (E. Coli)	400 CFU/100mL
Enterococci	104 CFU/100mL

Note that Coliform Unit is abbreviated as CFU. The Single Sample Method refers to a method of collection where sampling staff collects water samples in ankle deep water

using a long pole with a sample bottle attached to the end to scoop up the water. The sample bottles are immediately capped and placed into an ice chest for preservation. The time, date, weather conditions and location of collection are recorded on a log sheet. The samples are then transported to a laboratory for analyses.

2. RESULTS

2.1 Maintenance

Since the activation of the diversion in November 2003, eight cleanings of the unit have occurred. Each time, the waste from the CDS unit was removed, using an industrial vacuum truck. A trained crew from United Storm Water, Inc. removed all the solid waste from the CDS unit, following all proper procedures. The water was then de-canted back into each CDS unit through a Drainpac filter. The storm drain waste from each CDS unit was then weighed, and off loaded into sealed roll-off bins.

The amount of trash and sediment removed from the sump during these cleanings totals 8,488.71 pounds (4.24 tons). By removing this large amount of trash and sediment, the Del Obispo Storm Drain Project helps to prevent sediment build-up at Doheny State Beach which would lead to standing water and increased levels of bacteria near the surf zone. Additionally, noticeable trash which was removed during the cleanings includes plastics, aluminum cans, paper debris, glass, and assorted Styrofoam supplies. The Del Obispo Storm Drain Project is responsible for removing all of these environmentally hazardous items from the Del Obispo Storm Drain outlet.

2.2 Compliance with Permit SCWD-N4-003

The purpose of the solids removal unit is to filter urban runoff for debris, sediment, and pollutants prior to its diversion to the sanitary sewer system. Monthly sampling data shows compliance with Special Wastewater Discharge Permit SCWD-N4-003 for all pollutants including metals and all forms of Suspended Solids. This illustrates that the solids removal unit is operating as expected. Also, included as Appendix 'D' are compliance letters from SOCWA relative to the project.

2.3 Bacteria Monitoring Results

Improving the overall water quality of Doheny State Beach is the primary goal of the Del Obispo Storm Drain Project. To obtain water quality data, the City performed weekly bacteria monitoring of the water entering and exiting the solids removal unit. The sampling was done in conjunction with surf zone monitoring at Doheny State Beach which was performed by SOCWA and the OCHCA. The results of the bacteria monitoring for the urban runoff being diverted Doheny State Beach along with the results from OCHA and SOCWA surf zone monitoring are shown in Table 2.3.1, Table 2.3.2 and Table 2.3.3 on the following pages:

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Table 2.3.1 Total Coliform by Method 9222

Date Sampled	Units	Upstream of CDS Unit	At Diversion to Sanitary Sewer	At Surf Zone (OCHA/SOCWA)	Difference in Surf Zone and Upstream Result
05/06/04	CFU/100 mL	3,500	2,200	220	3,280
05/11/04	CFU/100 mL	920	1,360	10	910
05/20/04	CFU/100 mL	7,500	620	100	7,400
05/25/04	CFU/100 mL	7,900	1,340	760	7,140
06/03/04	CFU/100 mL	10,950	2,000	20	10,930
06/07/04	CFU/100 mL	4,200	7,200	9	4,191
06/17/04	CFU/100 mL	11,300	135,000	50	11,250
06/22/04	CFU/100 mL	21,850,	1,170	860	20,990
06/29/04	CFU/100 mL	8,750	1,590	35	8,715
07/06/04	CFU/100 mL	20,000	13,400	10	19,990
07/15/04	CFU/100 mL	9,950	7,000	50	9,900
07/20/04	CFU/100 mL	9,500	3,700	10	9,490
07/29/04	CFU/100 mL	10,300	6,600	110	10,190
08/03/04	CFU/100 mL	457,000	648,000	420	456,580
08/10/04	CFU/100 mL	140,000	44,000	40	139,960
08/17/04	CFU/100 mL	48,000	51,000	120	47,880
08/26/04	CFU/100 mL	69,000	42,000	20	68,980
08/30/04	CFU/100 mL	1,280	16,450	10	1,270
09/09/04	CFU/100 mL	57000	31,000	10	56,990
09/14/04	CFU/100 mL	2200	4,900	70	2,130
09/23/04	CFU/100 mL	169000	85,000	50	168,950
09/28/04	CFU/100 mL	84000	39,000	3400	80,600
10/07/04	CFU/100 mL	48,000	64,000	910	47,090
10/12/04	CFU/100 mL	72,000	82,000	130	71,870

Note: Surf zone monitoring dates are +/- 2 days

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Table 2.3.2 Fecal Coliform by Method 9222

<i>Date Sampled</i>	<i>Units</i>	<i>Upstream of CDS Unit</i>	<i>At Diversion to Sanitary Sewer</i>	<i>At Surf Zone (OCHA/SOCWA)</i>	<i>Difference in Surf Zone and Upstream Result</i>
05/06/04	CFU/100 mL	2,300	1,170	200	2,100
05/11/04	CFU/100 mL	490	590	10	480
05/20/04	CFU/100 mL	6,000	260	250	5,750
05/25/04	CFU/100 mL	5,500	350	470	5,030
06/03/04	CFU/100 mL	4,400	820	10	4,390
06/07/04	CFU/100 mL	1,410	1,520	10	1,400
06/17/04	CFU/100 mL	8,050	110,000	20	8,030
06/22/04	CFU/100 mL	8,050	490	9	8,041
06/29/04	CFU/100 mL	3,900	1,030	20	3,880
07/06/04	CFU/100 mL	9,650	7,800	9	9,641
07/15/04	CFU/100 mL	9,950	3,100	20	9,930
07/20/04	CFU/100 mL	9,500	1,350	10	9,490
07/29/04	CFU/100 mL	10,300	4,000	20	10,280
08/03/04	CFU/100 mL	6,800	145,000	400	6,400
08/10/04	CFU/100 mL	91,000	24,000	20	90,980
08/17/04	CFU/100 mL	39,000	42,000	80	38,920
08/26/04	CFU/100 mL	40,000	15,500	30	39,970
08/30/04	CFU/100 mL	790	8,400	20	770
09/09/04	CFU/100 mL	27,000	7,900	10	26,990
09/14/04	CFU/100 mL	930	2,700	40	890
09/23/04	CFU/100 mL	101,000	48,000	50	100,950
09/28/04	CFU/100 mL	60,000	28,000	1160	58,840
10/07/04	CFU/100 mL	33,000	51,000	620	32,380
10/12/04	CFU/100 mL	35,000	52,000	20	34,980

Note: Surf zone monitoring dates are +/- 2 days

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Table 2.3.3 Enterococcus by Method 9230

Date Sampled	Units	Upstream of CDS Unit	At Diversion to Sanitary Sewer	At Surf Zone (OCHA/SOCWA)	Difference in Surf Zone and Upstream Result
05/06/04	CFU/100 mL	1670	610	60	3,440
05/11/04	CFU/100 mL	490	2900	10	910
05/20/04	CFU/100 mL	6000	2800	120	7,380
05/25/04	CFU/100 mL	5500	710	360	7,540
06/03/04	CFU/100 mL	3600	1310	10	10,940
06/07/04	CFU/100 mL	2900	5900	9	4,191
06/17/04	CFU/100 mL	6400	13850	20	11,280
06/22/04	CFU/100 mL	16350	1130	1000	20,850
06/29/04	CFU/100 mL	8000	1430	37	8,713
07/06/04	CFU/100 mL	39000	4300	30	19,970
07/15/04	CFU/100 mL	5500	2200	56	9,894
07/20/04	CFU/100 mL	4200	760	10	9,490
07/29/04	CFU/100 mL	5800	4700	44	10,256
08/03/04	CFU/100 mL	80000	222000	100	456,900
08/10/04	CFU/100 mL	25000	7650	10	139,990
08/17/04	CFU/100 mL	12200	5300	120	47,880
08/26/04	CFU/100 mL	52000	8450	36	68,964
08/30/04	CFU/100 mL	4700	2500	70	1,210
09/09/04	CFU/100 mL	92000	27000	10	56,990
09/14/04	CFU/100 mL	950	3330	72	2,128
09/23/04	CFU/100 mL	32000	11900	26	168,974
09/28/04	CFU/100 mL	31000	11050	4200	79,800
10/07/04	CFU/100 mL	16400	68000	1000	47,000
10/12/04	CFU/100 mL	62000	48000	90	71,910

Note: Surf zone monitoring dates are +/- 2 da

Figure 2.3.1
Total Coliform Sampling Results

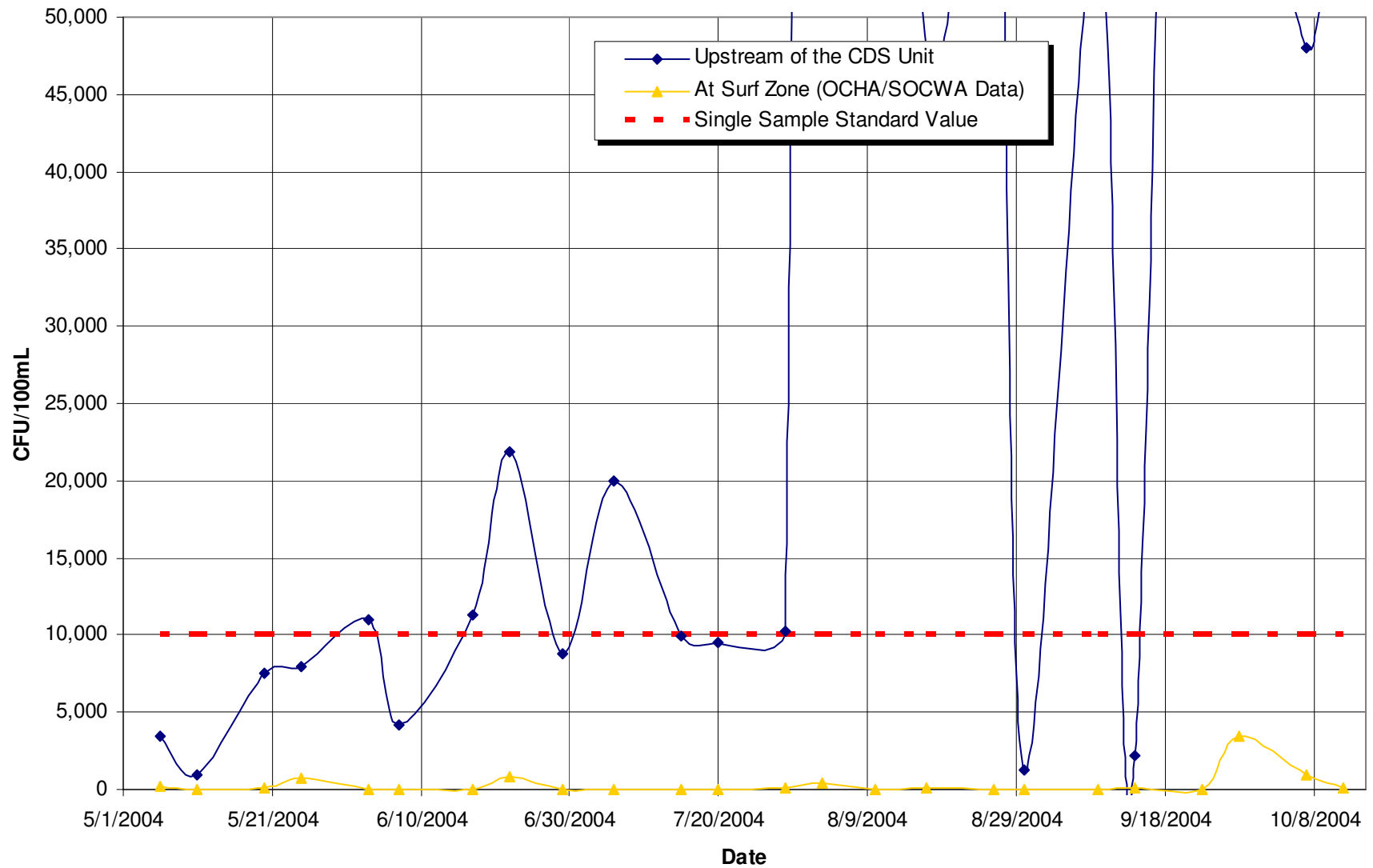


Figure 2.3.2
Fecal Coliform Sampling Results

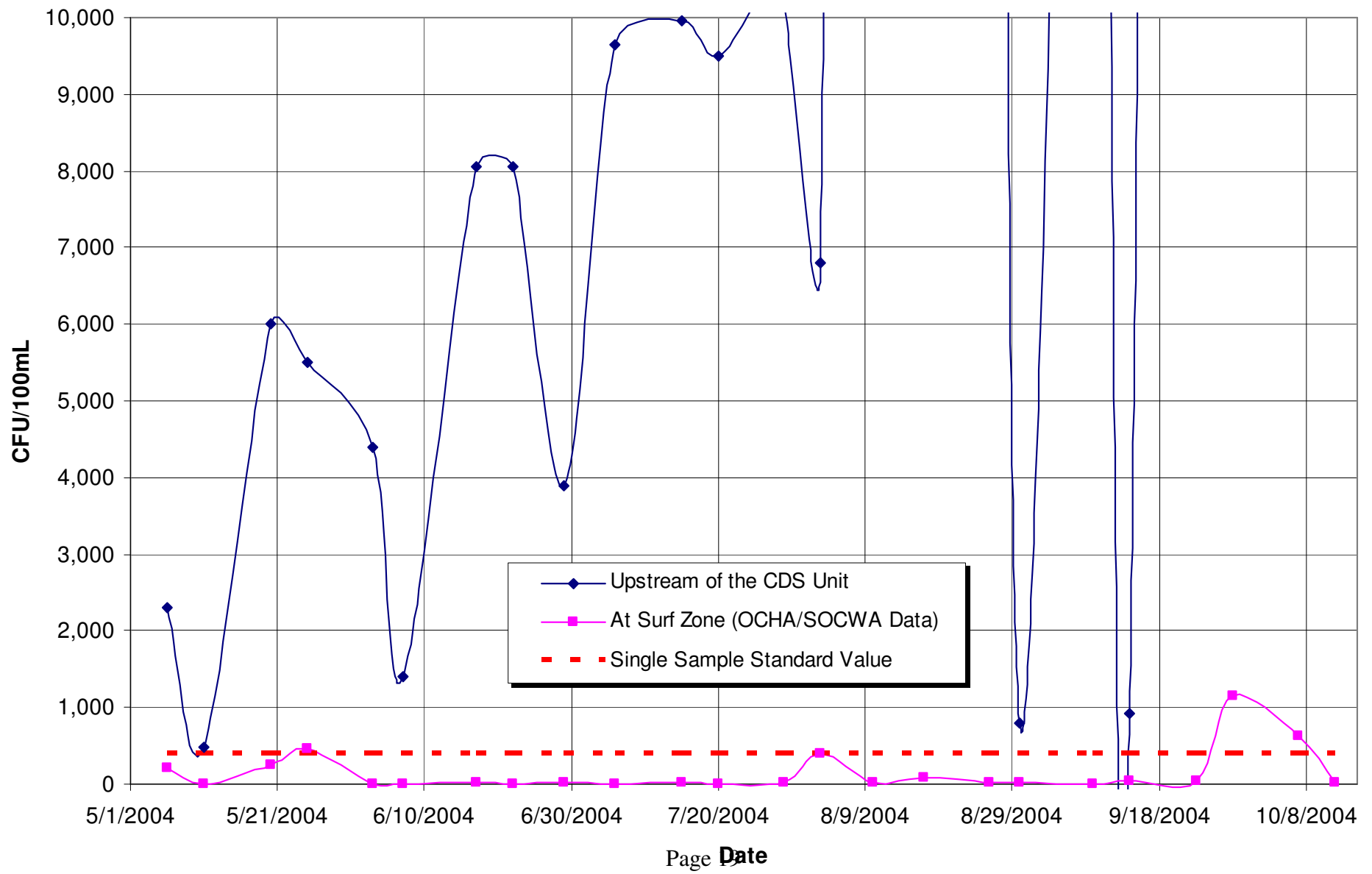
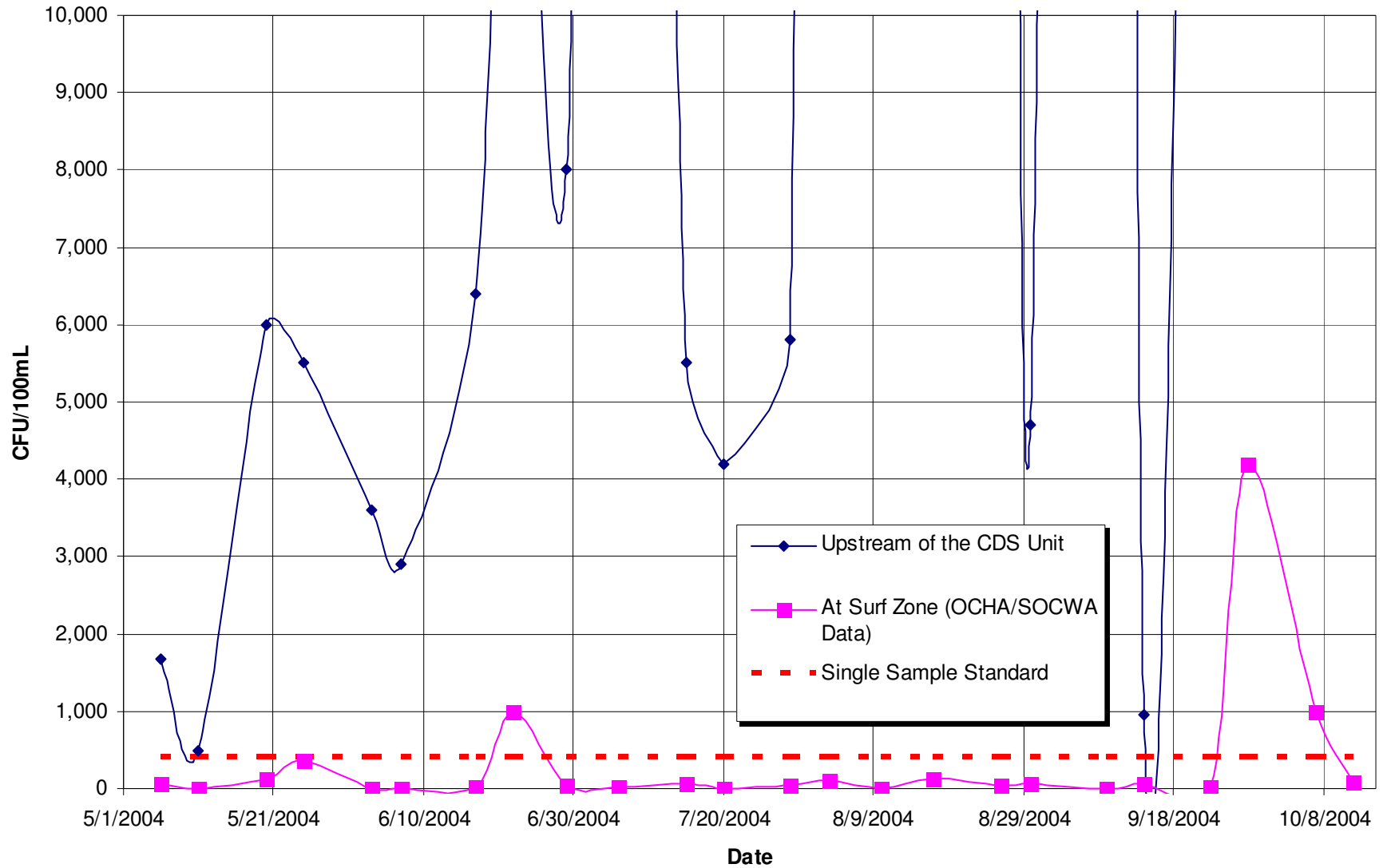


Figure 2.3.3
Enterococcus Sampling Results



In each of the graphs on the previous pages, upper outlier values for data upstream of the CDS unit were omitted to better display the data. It is important to note that nearly every sampling for enterococcus upstream of the CDS unit, at the project site exceeded State standards, which may result in a posting of the corresponding beach area. According to the 2003 Annual Ocean and Bay Water Quality Report published in June 2004 by the Orange County Health Care Agency:

“Violations of the single sample enterococcus standard accounted for a majority (61.8%) of the ocean and bay water postings that occurred in Orange County between April 1 and October 31 for 2000 – 2003.

Had the low flow diversion not been in place, Doheny State Beach would possibly require postings based solely on the urban runoff from the Del Obispo Storm Drain. Moreover, looking at the sampling results for total and fecal coliforms, the extremely high amounts of coliform units for each indicator bacteria would suggest that urban runoff from Del Obispo contributes significantly to the high bacteria levels at Doheny State Beach. With this in mind, by filtering the urban runoff through the solids removal unit and then diverting it from Doheny State Beach to the sanitary sewer system, the Del Obispo Storm Drain Project is preventing large amounts of harmful bacteria, debris, sediment, and trash from reaching the surf zone.

Upon further examination of the bacteria monitoring data for the Del Obispo Storm Drain Project, it is noted that the bacteria levels of the low flow urban runoff are actually lower upstream of the CDS unit (prior to entering the diversion) than they are downstream (directly prior to entering the sanitary sewer system). These results are expected and are caused by the filtration operation. It is critical to understand though, that this flow never reaches Doheny State Beach. It is instead redirected into the sanitary sewer system, and ultimately to a waste water treatment plant. The increase in bacteria is a result of slowing the flow in a clarifier to remove sediment and trash. This process directly affects the levels of bacteria. Bacteria development in water typically occurs in situations where there is low or no flow and the humidity and temperature are above average. During a storm event when the diversion is de-activated, the potential for an increase in bacteria from upstream to downstream is extremely low. Since in a storm event, large volumes of water are passing through the system at high velocities, bacteria do not have a chance to develop and the fresh storm water runoff is safely channeled to Doheny State Beach. As a bonus, during these storm events, the CDS unit (clarifier) can continuously filter up to 46 cubic feet per second (cfs) of water while any excess storm water runoff is directly channeled to Doheny State Beach.

It should also be noted that the dry season is typically from April through October. Therefore, the CDS unit was de-activated from October 2004 through April of 2005 to prevent large amounts of storm water from entering into the local waste water treatment plant. Since no runoff is being diverted during the period that the diversion is deactivated, no monitoring occurred.

2.4 Beach Posting Results

The Monitoring and Reporting Plan for the Del Obispo Storm Drain Project called for comparison of beach postings measured in Beach Mile Days. The term “Beach Mile Days” is used to present the measurement of the number of days and the area of ocean or bay waters that are posted due to a sewage spill or posted for a violation of the AB 411 Ocean Water-Contact Sports Standards.

Beach Mile Days (BMDs) are calculated by multiplying the number of days of a closure or posting by the number of miles of beach closed or posted:

(Number of Days) x (Miles of beach closed or posted) = Beach Mile Days

For example, if a sewage spill resulted in the closure of ½ mile of beach for 7 days then:

(7 days) x (0.5 mile) = 3.5 Beach Mile Days of closure

Using BMDs is a more meaningful measurement of ocean and bay water impairment than using the number of incidences or the number of days since BMDs take into account both the amount of beach and the length of time of a closure or posting. The California State Water Resources Control Board and all California coastal counties use BMDs for reporting closures and postings which provides a standardized measure allowing comparison of different areas (beach to beach or county to county) or assessing trends over time.

The number of BMDs posted as a result of non-compliance with AB411 standards for the years 2000-2003 is noted in Figure 2.4.1 on next page. This figure was taken from the Orange County Health Care Agency’s (OCHCA) Annual Ocean and Bay Water Quality Report for 2004. The website address for OCHCA’s Ocean Water Protection Program is <http://www.ocbeachinfo.com/downloads/index.htm> .

Appendix 1 - continued

• DOHENY STATE BEACH

Sampling Agency: South Orange County Wastewater Authority, County of Orange Environmental Health
Sampling Frequency: 1-2 samples per week (agency and season dependent)
Sampling Stations: 8
Sampling Locations: North Beach, 250' North of San Juan Creek, San Juan Creek/Ocean Interface, 250' South of San Juan Creek, 1000' South of Outfall, 2000' South of Outfall, 3000' South of Outfall, 4000' South of Outfall
Beach Miles: 1.1 miles of coastal beach
Available AB411 BMDs: 235.4 BMDs
Available Yearly BMDs: 401.5 BMDs

AB 411 PERIOD (APRIL – OCTOBER)			
Year	Postings	Days	Beach Mile Days
2000	9	165	140.3
2001	5	191	148.4
2002	7	216	142.5
2003	6	207	116.5
2004	12	226	107.6

CALENDAR YEAR			
Year	Postings	Days	Beach Mile Days
2000	11	319	293.0
2001	6	368	281.7
2002	7	367	311.8
2003	6	358	243.9
2004	12	334	253.3



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Figure 2.4.1 Total Number of Beach Mile Days Posted from 2000-2003

The total number of Beach Mile Days posted due to AB 411 standards violations from January 1, 2004 to October 15, 2004 is 169.3. It is possible that this significant decrease in postings can be partially attributed to the Del Obispo Storm Drain Project. The project is diverting a significant amount of urban runoff containing high amounts of bacteria away from Doheny State Beach. Data quantifying the flow being diverted is listed below in Table 2.4.1:

Table 2.4.1: Monthly Flow Data

Month	Results (Gallons)
September 2003	291,200
October 2003	788,200
November 2003	504,566
December 2003	173,751
January 2004	359,079
February 2004	95,295
March 2004	708,332
April 2004	435,431
May 2004	977,025
June 2004	844,579
July 2004	1,281,130
August 2004	836,116
September 2004	803,014

As shown by this data millions of gallons of urban runoff are being diverted from Doheny State Beach annually.

3. Other Benefits

In addition to diverting urban runoff, a positive aspect of the Del Obispo Storm Drain Project is that it has the ability to capture and divert environmentally harmful sewage and waste spills. The City of Dana Point now has a buffer to protect Doheny State Beach from unexpected sewage spills from the Del Obispo tributary area. The low flow diversion will capture and divert harmful spills to the sanitary sewer system before it reaches the beach. Additionally, this can be applied to construction runoff as well. Sediment, trash, construction debris and environmentally hazardous chemicals from negligent contractors or even residents which flow to the tributary area will all be captured in the CDS unit and the associated runoff will then diverted into the sanitary sewer. With the 27-acre tributary area for the Del Obispo outlet, this is certain to play a large role in keeping the ocean at Doheny State Beach cleaner.

The Del Obispo Storm Drain Project, due to the flow meter that was installed, can be used to monitor excess flows entering the watershed. The digital flow meter at the diversion records flow data every ten minutes. This allows the City to detect spikes in daily flow patterns and then systematically search the watershed for contributors of urban runoff from over-watering, waterline breaks, and sewer line breaks. By reviewing the watering schedules from local homeowners associations, the City may be able to pinpoint sources of over watering. Not only will this help to reduce urban runoff, but it would also aid in water conservation effort. Additionally, the flow meter will provide accurate data in the event of a water or sewer line break that drains into the watershed. This flow data can then be forwarded to the appropriate agency for their formal report to the County and/or State.

4. *Conclusions*

The monitoring data for the Del Obispo Storm Drain Project illustrates that the project has achieved the goals and standards set prior to its implementation. The diversion is successfully removing significant amounts of bacteria from Doheny State Beach. As a result, Beach Mile Days postings appear to be decreasing and the ocean water is becoming safer for the public to use. Figure 4.1 on the following page helps to illustrate these results. The graph shows the number of BMDs impacted by postings in red and the activation dates of each of the City's diversions in San Juan Creek are shown as green, dashed lines. This graph gives a visual illustration of a decreasing trend in impacted BMDs beginning at the activation date of the Alipaz Storm Drain, and continuing through the activation date of the North Creek Storm Drain and the Del Obispo Storm Drain.

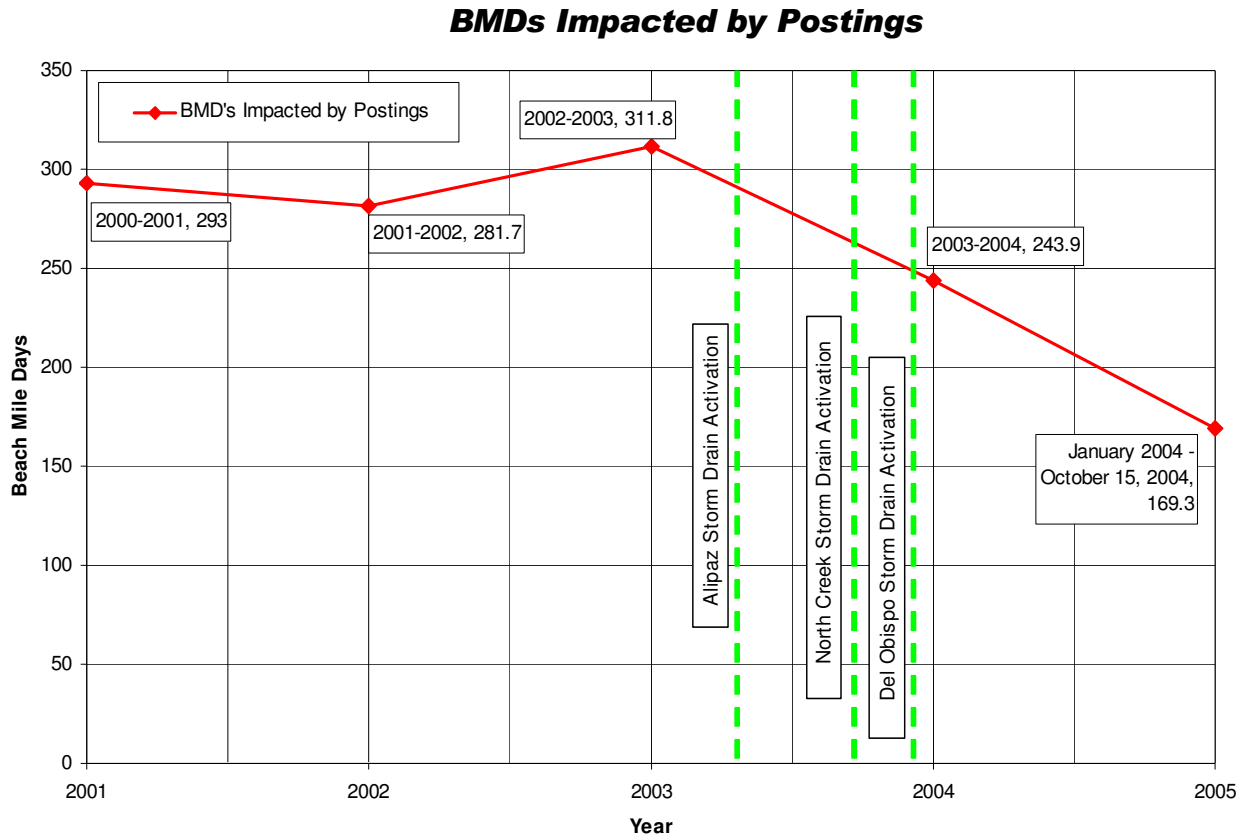


Figure 4.1 – BMDs Impacted by Postings

At this point, the bacteria monitoring data seems to reinforce urban runoff from Del Obispo and San Juan Creek as a major contributor to beach postings. Since the activation of the City's three diversions in the San Juan Creek watershed, including the Del Obispo project, there has been a significant decrease in BMDs impacted by postings.

In addition to reducing BMDs at Doheny State Beach, the Del Obispo Storm Drain Project is also offering additional benefits to the City which were not originally foreseen, such as the diversion of sewage spills and construction runoff, and providing a vehicle to pinpoint sources of over-watering. The Del Obispo Storm Drain Project is undoubtedly a valuable addition in the effort to improve the water quality in the ocean at Doheny State Beach.

It should also be noted that although the City of Dana Point is implementing projects such as the Del Obispo Storm Drain Project, this alone cannot and will not eliminate the high bacteria levels entering the ocean at Doheny State Beach. In order to achieve the goal of acceptable water quality, it will be necessary to continue to implement projects that aid in

the effort to improve water quality for all sources of runoff entering Doheny State Beach. With this in mind, another major contributor of urban runoff to Doheny State Beach is San Juan Creek. In an attempt to meet the goal of improving water quality at Doheny State Beach, the City has already installed two additional storm drain diversions within the San Juan Creek Watershed which were funded partially by the Clean Beaches Initiative. Moreover, in striving to meet the overall goal of improving ocean water quality citywide, the City has implemented two other, major water quality projects with Clean Beaches grant funding, one in Salt Creek and one in Capistrano Beach. Table 4.1.1 below describes each project and its funding source.

Table 4.1.1 – Projects Funded by the Clean Beaches Initiative

Project Name	Status	Target Area	Funding Source	Grant Funds	Total Cost of Project
Alipaz Storm Drain Treatment Facility	Complete	San Juan Creek / Doheny State Beach	Prop. 13	\$369,500	\$659,102
Del Obispo Storm Drain Treatment Facility	Complete	San Juan Creek / Doheny State Beach	Prop. 40	\$500,000	\$652,397
North Creek Storm Drain Diversion	Complete	San Juan Creek / Doheny State Beach	Prop. 13	\$380,500	\$1,028,691
Capistrano Beach Storm Drain	95% Design Phase	Capistrano Beach	Prop. 40	\$500,000	\$3,000,000
Salt Creek Ozone Treatment Facility	In Construction	Salt Creek Beach / Monarch Beach	Prop. 40	\$4,000,000	\$5,887,692
Total				\$5,750,000	\$11,227,882

While diversion facilities and treatment plants help alleviate water quality problems at the storm drain outlets, targeting smaller contributing sources of water pollution is also important. With this in mind, additional water quality efforts include City staff actively working to make the public knowledgeable of current water quality issues and informing them on how they can contribute to the effort. Water quality information is available on the City's website and there are free pamphlets for the public at City Hall. City staff has also given presentations at the Ocean Institute in Dana Point which offer vital information pertaining to water quality efforts and how the public can aid in keeping their watersheds clean.

The City has also adopted a Local Implementation Program (LIP) which specifically outlines water quality goals for the future. The City's LIP is a living document that intends to capture all of the activities the City performs with respect to water quality. The LIP contains various program elements in order to present a comprehensive program that addresses many of the National Pollution Discharge Elimination System (NPDES) Permit requirements as prescribed in the San Diego Regional Water Quality Control Board's NPDES Order Number 2002-01. The various program elements are as follows:

- Legal Authority
- Municipal Activities
- Public Education/Public Participation/Training/Outreach
- New Development/Redevelopment
- Construction
- Existing Development – including, Commercial, Residential and Home Owners Associations (HOAs)
- Illegal Discharges and Illicit Connections
- Water Quality Monitoring

As part of the implementation of the LIP, City staff is visiting the local homeowner's associations and presenting material on how to conserve irrigation water and prevent urban runoff from entering the storm drain system. Best Management Practices (BMPs) pertaining to car washing, construction, and information on irrigation are made available to the associations. Various water quality booths have also been set up at local events such as Earth Day and the Festival of Whales Ocean Awareness Day.

Further efforts to aid in the water quality effort also include a vigorous street sweeping program and the installation of catch basin filters in the storm drain inlets. Street sweeping is performed daily and covers every street over the course of one week. This process helps remove excess sediment, trash, and debris from the storm drain system. All of the aforementioned materials are known to increase bacteria levels in the storm drain system. Moreover, the installation of catch basin filters in the storm drain inlets provides another method of preventing sediment, trash, and debris from entering into the City's storm drains. These filters are cleaned on an almost monthly basis. The last citywide cleaning of the filters occurred at the end of January 2005 and yielded 49 tons of captured material. These filters have proven to be an invaluable tool for improving water quality in San Juan Creek, and ultimately Doheny State Beach.

Finally, the City is beginning to coordinate with other cities and counties within the watershed in an attempt to coordinate efforts to treat and/or divert runoff that contributes to bacteria loading. The possibility of a source tracking study to identify the origin of the bacteria is currently being discussed. Another study being discussed at this point is an epidemiology study. In order for these studies to move forward, the City will need to obtain the aid of other local agencies and cities. City staff is currently soliciting the approvals and funding necessary to move forward. With the cooperation of other municipalities within the watershed, and the implementation of similar diversion and water quality projects upstream of Dana Point, it is highly probable that the water quality at Doheny State Beach will improve to acceptable levels year round.



Figure 4.2 – Storm Drain Outlet Before Project Completion



Figure 4.3 – Storm Drain Outlet After Project Completion

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United Storm Water, Inc., 2004. Summary for Maintenance Services of Full Capture Trash Separation Units (CDS) December 2003 – June 2004, City of Industry, CA.

***For questions or comments concerning this report, please contact the following
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Email: msinacori@danapoint.org

Mailing Address:

City of Dana Point
Public Works & Engineering Department
33282 Street of the Golden Lantern, Suite 212
Dana Point, CA 92629

APPENDIX A

WATER SAMPLING DATA

WATER SAMPLING DATA
April 2004



ASSOCIATED LABORATORIES

806 North Batavia Orange, Ca. 92868

SPECIAL WASTE DISCHARGE Permit - SCWD-N4-003

SELF-MONITORING REPORT FORM

USER: City of Dana Point

Del Obispo Storm Water Treatment Device

Sample Information: Person Collecting Sample: Maximo Montiel

Sample Date: Apr. 13, 2004 Sample Time: 0810hrs. Sample Location: Wet Well Downstream

Type of Sample (s) ☐ Continuous/Daily ☒ 24hr flow Composite ☒ Grab

Pollutant	Local Limits	Units	Results	Compliance yes or no	Resample Date (if required)
Flow	72,000	GPD	3,039	YES	N/A
pH	5.0-11.0	units	8.60	YES	N/A
Oil & Grease	300	mg/L	ND<5.0	YES	N/A
TRPH	*	mg/L	ND<1.0	YES	N/A
Arsenic (T)	3.4	mg/L	ND<0.005	YES	N/A
Cadmium (T)	0.93	mg/L	ND<0.005	YES	N/A
Chromium (T)	4.9	mg/L	ND<0.010	YES	N/A
Copper (T)	7.2	mg/L	0.016	YES	N/A
Lead (T)	4.9	mg/L	ND<0.005	YES	N/A
Mercury (T)	0.19	mg/L	ND<0.0004	YES	N/A
Nickel (T)	9.5	mg/L	0.051	YES	N/A
Silver (T)	2.8	mg/L	ND<0.005	YES	N/A
Zinc (T)	7.9	mg/L	0.015	YES	N/A
Molybdenum	*	mg/L	ND<0.010	YES	N/A
Manganese	*	mg/L	0.085	YES	N/A
Tributyl Tin	*	ug/L	ND<0.12	YES	N/A
Sulfate	*	mg/L	1,130	YES	N/A
cBOD	*	mg/L	4	YES	N/A
MBAS	*	mg/L	ND<0.04	YES	N/A
SS	*	ml/L	ND<0.1	YES	N/A
TDS	*	mg/L	3,310	YES	N/A
TSS	*	mg/L	10	YES	N/A
TVSS	*	mg/L	4	YES	N/A

T = Total

*No Local Limits

N/A = None Applicable



Associated Laboratories by:
Robert A. Webber, Vice President

5/3/04
Date

WATER SAMPLING DATA
May 2004



ASSOCIATED LABORATORIES
806 North Batavia Orange, Ca. 92868

SPECIAL WASTE DISCHARGE Permit - SCWD-N4-003

SELF-MONITORING REPORT FORM

USER: City of Dana Point
Del Obispo Storm Water Treatment Device

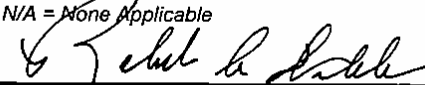
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Sample Date: May 17, 2004 Sample Time: 1010hrs. Sample Location: Wet Well Downstream
Type of Sample (s) ☐ Continuous/Daily ☒ 24hr flow Composite ☒ Grab

Pollutant	Local Limits	Units	Results	Compliance yes or no	Resample Date (if required)
Flow	72,000	GPD	1,959	YES	N/A
pH	5.0-11.0	units	8.20	YES	N/A
Oil & Grease	300	mg/L	ND<5.0	YES	N/A
TRPH	*	mg/L	ND<1.0	YES	N/A
Arsenic (T)	3.4	mg/L	0.013	YES	N/A
Cadmium (T)	0.93	mg/L	0.006	YES	N/A
Chromium (T)	4.9	mg/L	0.016	YES	N/A
Copper (T)	7.2	mg/L	0.014	YES	N/A
Lead (T)	4.9	mg/L	0.038	YES	N/A
Mercury (T)	0.19	mg/L	ND<0.0004	YES	N/A
Nickel (T)	9.5	mg/L	0.048	YES	N/A
Silver (T)	2.8	mg/L	0.013	YES	N/A
Zinc (T)	7.9	mg/L	0.029	YES	N/A
Molybdenum	*	mg/L	0.043	YES	N/A
Manganese	*	mg/L	0.032	YES	N/A
Tributyl Tin	*	ug/L	ND<0.12	YES	N/A
Sulfate	*	mg/L	1,450	YES	N/A
cBOD	*	mg/L	3	YES	N/A
MBAS	*	mg/L	ND<0.04	YES	N/A
SS	*	ml/L	ND<0.1	YES	N/A
TDS	*	mg/L	4,100	YES	N/A
TSS	*	mg/L	ND<5.0	YES	N/A
TVSS	*	mg/L	ND<5.0	YES	N/A

T = Total

*No Local Limits

N/A = None Applicable


Associated Laboratories by:
Robert A. Webber, Vice President

6/3/04
Date

WATER SAMPLING DATA
June 2004



ASSOCIATED LABORATORIES
806 North Batavia Orange, Ca. 92868

SPECIAL WASTE DISCHARGE Permit - SCWD-N4-003

SELF-MONITORING REPORT FORM

USER: City of Dana Point

Del Obispo Storm Water Treatment Device

Sample Information: Person Collecting Sample: Maximo Montiel

Sample Date: June 23, 2004 Sample Time: 0730hrs. Sample Location: Wet Well Downstream

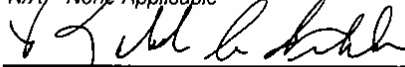
Type of Sample (s) ☐ Continuous/Daily ☒ 24hr flow Composite ☒ Grab

Pollutant	Local Limits	Units	Results	Compliance yes or no	Resample Date (if required)
Flow	72,000	GPD	1,687	YES	N/A
pH	5.0-11.0	units	9.30	YES	N/A
Oil & Grease	300	mg/L	ND<5.0	YES	N/A
TRPH	*	mg/L	ND<1.0	YES	N/A
Arsenic (T)	3.4	mg/L	0.010	YES	N/A
Cadmium (T)	0.93	mg/L	0.007	YES	N/A
Chromium (T)	4.9	mg/L	0.013	YES	N/A
Copper (T)	7.2	mg/L	0.010	YES	N/A
Lead (T)	4.9	mg/L	0.010	YES	N/A
Mercury (T)	0.19	mg/L	ND<0.0004	YES	N/A
Nickel (T)	9.5	mg/L	0.062	YES	N/A
Silver (T)	2.8	mg/L	ND<0.005	YES	N/A
Zinc (T)	7.9	mg/L	0.047	YES	N/A
Molybdenum	*	mg/L	0.012	YES	N/A
Manganese	*	mg/L	0.105	YES	N/A
Tributyl Tin	*	ug/L	ND<0.12	YES	N/A
Sulfate	*	mg/L	1,380	YES	N/A
cBOD	*	mg/L	ND<3.0	YES	N/A
MBAS	*	mg/L	ND<0.04	YES	N/A
SS	*	ml/L	ND<0.1	YES	N/A
TDS	*	mg/L	4,300	YES	N/A
TSS	*	mg/L	30	YES	N/A
TVSS	*	mg/L	ND<5.0	YES	N/A

T = Total

*No Local Limits

N/A = None Applicable



Associated Laboratories by:

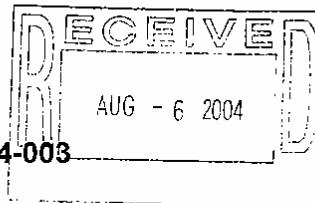
Robert A. Webber, Vice President

7/2/04
Date

WATER SAMPLING DATA
July 2004



ASSOCIATED LABORATORIES
806 North Batavia Orange, Ca. 92868



SPECIAL WASTE DISCHARGE Permit - SCWD-N4-003

SELF-MONITORING REPORT FORM

USER: City of Dana Point
Del Obispo Storm Water Treatment Device

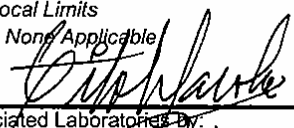
Sample Information: Person Collecting Sample: Maximo Montiel
Sample Date: July 12, 2004 Sample Time: 0800hrs. Sample Location: Wet Well Downstream
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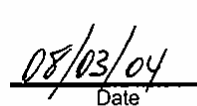
Pollutant	Local Limits	Units	Results	Compliance yes or no	Resample Date (if required)
Flow	72,000	GPD	4,314	YES	N/A
pH	5.0-11.0	units	8.90	YES	N/A
Oil & Grease	300	mg/L	ND<5.0	YES	N/A
TRPH	*	mg/L	ND<1.0	YES	N/A
Arsenic (T)	3.4	mg/L	0.013	YES	N/A
Cadmium (T)	0.93	mg/L	ND<0.005	YES	N/A
Chromium (T)	4.9	mg/L	ND<0.010	YES	N/A
Copper (T)	7.2	mg/L	0.010	YES	N/A
Lead (T)	4.9	mg/L	0.006	YES	N/A
Mercury (T)	0.19	mg/L	ND<0.0004	YES	N/A
Nickel (T)	9.5	mg/L	0.040	YES	N/A
Silver (T)	2.8	mg/L	ND<0.005	YES	N/A
Zinc (T)	7.9	mg/L	0.013	YES	N/A
Molybdenum	*	mg/L	0.014	YES	N/A
Manganese	*	mg/L	0.076	YES	N/A
Tributyl Tin	*	ug/L	ND<0.12	YES	N/A
Sulfate	*	mg/L	1,350	YES	N/A
cBOD	*	mg/L	ND<3.0	YES	N/A
MBAS	*	mg/L	0.05	YES	N/A
SS	*	ml/L	ND<0.1	YES	N/A
TDS	*	mg/L	3,950	YES	N/A
TSS	*	mg/L	10	YES	N/A
TVSS	*	mg/L	10	YES	N/A

T = Total

*No Local Limits

N/A = None Applicable


Associated Laboratories by:
Robert A. Webber, Vice President


Date

WATER SAMPLING DATA
August 2004



ASSOCIATED LABORATORIES
806 North Batavia Orange, Ca. 92868

SPECIAL WASTE DISCHARGE Permit - SCWD-N4-003

SELF-MONITORING REPORT FORM

USER: City of Dana Point

Del Obispo Storm Water Treatment Device

Sample Information: Person Collecting Sample: Maximo Montiel

Sample Date: Aug. 16, 2004 Sample Time: 0750hrs. Sample Location: Wet Well Downstream

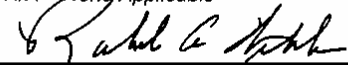
Type of Sample (s) ☐ Continuous/Daily ☒ 24hr flow Composite ☒ Grab

Pollutant	Local Limits	Units	Results	Compliance yes or no	Resample Date (if required)
Flow	72,000	GPD	6,982	YES	N/A
pH	5.0-11.0	units	8.88	YES	N/A
Oil & Grease	300	mg/L	ND<5.0	YES	N/A
TRPH	*	mg/L	ND<1.0	YES	N/A
Arsenic (T)	3.4	mg/L	ND<0.005	YES	N/A
Cadmium (T)	0.93	mg/L	ND<0.005	YES	N/A
Chromium (T)	4.9	mg/L	0.010	YES	N/A
Copper (T)	7.2	mg/L	0.099	YES	N/A
Lead (T)	4.9	mg/L	ND<0.005	YES	N/A
Mercury (T)	0.19	mg/L	ND<0.0004	YES	N/A
Nickel (T)	9.5	mg/L	0.036	YES	N/A
Silver (T)	2.8	mg/L	ND<0.005	YES	N/A
Zinc (T)	7.9	mg/L	0.032	YES	N/A
Molybdenum	*	mg/L	0.025	YES	N/A
Manganese	*	mg/L	0.49	YES	N/A
Tributyl Tin	*	ug/L	ND<0.12	YES	N/A
Sulfate	*	mg/L	876	YES	N/A
cBOD	*	mg/L	ND<3.0	YES	N/A
MBAS	*	mg/L	ND<0.04	YES	N/A
SS	*	ml/L	ND<0.1	YES	N/A
TDS	*	mg/L	2,700	YES	N/A
TSS	*	mg/L	ND<5.0	YES	N/A
TVSS	*	mg/L	ND<5.0	YES	N/A

T = Total

*No Local Limits

N/A = None Applicable



Associated Laboratories by:

Robert A. Webber, Vice President

9/3/04

Date

WATER SAMPLING DATA
September 2004



ASSOCIATED LABORATORIES
806 North Batavia Orange, Ca. 92868

SPECIAL WASTE DISCHARGE Permit - SCWD-N4-003

SELF-MONITORING REPORT FORM

USER: City of Dana Point

Del Obispo Storm Water Treatment Device

Sample Information: Person Collecting Sample: Maximo Montiel

Sample Date: Sept. 13, 2004 Sample Time: 0800hrs. Sample Location: Wet Well Downstream

Type of Sample (s) ☐ Continuous/Daily ☒ 24hr flow Composite ☒ Grab

Pollutant	Local Limits	Units	Results	Compliance yes or no	Resample Date (if required)
Flow	72,000	GPD	1,200	YES	N/A
pH	5.0-11.0	units	9.75	YES	N/A
Oil & Grease	300	mg/L	ND<5.0	YES	N/A
TRPH	*	mg/L	ND<1.0	YES	N/A
Arsenic (T)	3.4	mg/L	ND<0.005	YES	N/A
Cadmium (T)	0.93	mg/L	ND<0.005	YES	N/A
Chromium (T)	4.9	mg/L	ND<0.010	YES	N/A
Copper (T)	7.2	mg/L	0.049	YES	N/A
Lead (T)	4.9	mg/L	ND<0.005	YES	N/A
Mercury (T)	0.19	mg/L	ND<0.0004	YES	N/A
Nickel (T)	9.5	mg/L	0.047	YES	N/A
Silver (T)	2.8	mg/L	ND<0.005	YES	N/A
Zinc (T)	7.9	mg/L	0.333	YES	N/A
Molybdenum	*	mg/L	0.016	YES	N/A
Manganese	*	mg/L	0.203	YES	N/A
Tributyl Tin	*	ug/L	ND<0.12	YES	N/A
Sulfate	*	mg/L	928	YES	N/A
cBOD	*	mg/L	ND<3.0	YES	N/A
MBAS	*	mg/L	0.08	YES	N/A
SS	*	ml/L	ND<0.1	YES	N/A
TDS	*	mg/L	2,710	YES	N/A
TSS	*	mg/L	ND<5.0	YES	N/A
TVSS	*	mg/L	ND<5.0	YES	N/A

T = Total

*No Local Limits

N/A = None Applicable

Associated Laboratories by:

Robert A. Webber, Vice President

10/7/04
Date

WATER SAMPLING DATA
October 2004



ASSOCIATED LABORATORIES
806 North Batavia Orange, Ca. 92868

SPECIAL WASTE DISCHARGE Permit - SCWD-N4-003

SELF-MONITORING REPORT FORM

USER: City of Dana Point
Del Obispo Storm Water Treatment Device

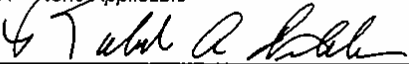
Sample Information: Person Collecting Sample: Maximo Montiel
Sample Date: Oct. 11, 2004 Sample Time: 0745hrs. Sample Location: Wet Well Downstream
Type of Sample (s) ☐ Continuous/Daily ☒ 24hr flow Composite ☒ Grab

Pollutant	Local Limits	Units	Results	Compliance yes or no	Resample Date (if required)
Flow	72,000	GPD	14,960	YES	N/A
pH	5.0-11.0	units	8.70	YES	N/A
Oil & Grease	300	mg/L	ND<5.0	YES	N/A
TRPH	*	mg/L	ND<1.0	YES	N/A
Arsenic (T)	3.4	mg/L	0.006	YES	N/A
Cadmium (T)	0.93	mg/L	0.005	YES	N/A
Chromium (T)	4.9	mg/L	ND<0.010	YES	N/A
Copper (T)	7.2	mg/L	ND<0.010	YES	N/A
Lead (T)	4.9	mg/L	ND<0.005	YES	N/A
Mercury (T)	0.19	mg/L	ND<0.0004	YES	N/A
Nickel (T)	9.5	mg/L	0.053	YES	N/A
Silver (T)	2.8	mg/L	ND<0.005	YES	N/A
Zinc (T)	7.9	mg/L	0.055	YES	N/A
Molybdenum	*	mg/L	0.017	YES	N/A
Manganese	*	mg/L	0.15	YES	N/A
Tributyl Tin	*	ug/L	ND<0.12	YES	N/A
Sulfate	*	mg/L	949	YES	N/A
cBOD	*	mg/L	4	YES	N/A
MBAS	*	mg/L	0.08	YES	N/A
SS	*	ml/L	ND<0.1	YES	N/A
TDS	*	mg/L	3,050	YES	N/A
TSS	*	mg/L	10	YES	N/A
TVSS	*	mg/L	4	YES	N/A

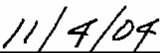
T = Total

*No Local Limits

N/A = None Applicable



Associated Laboratories by:
Robert A. Webber, Vice President


Date

APPENDIX B

FLOW LOGS

Nuisance Water-SWD Permit No. SCWD-N4-002

SELF-MONITORING REPORT FORM

FLOW LOG

USER: **City of Dana Point**
 Del Obispo Nuisance Water Treatment Device

Month April

Year 2004

Day	Total Daily Flow (gpd)	Day	Total Daily Flow (gpd)
1.	<u>1596.00</u>	17.	<u>2220.40</u>
2.	<u>1875.60</u>	18.	<u>0.00</u>
3.	<u>0.00</u>	19.	<u>0.00</u>
4.	<u>0.00</u>	20.	<u>177.70</u>
5.	<u>0.00</u>	21.	<u>0.00</u>
6.	<u>0.00</u>	22.	<u>0.00</u>
7.	<u>0.00</u>	23.	<u>0.00</u>
8.	<u>2426.00</u>	24.	<u>1647.40</u>
9.	<u>4566.70</u>	25.	<u>1307.20</u>
10.	<u>4566.70</u>	26.	<u>816.70</u>
11.	<u>4566.70</u>	27.	<u>856.50</u>
12.	<u>4566.70</u>	28.	<u>1447.80</u>
13.	<u>4566.70</u>	29.	<u>1660.40</u>
14.	<u>4566.70</u>	30.	<u>1987.80</u>
15.	<u>4566.70</u>	31.	<u>N/A</u>
16.	<u>4566.70</u>	Total:	<u>54553</u>

Nuisance Water-SWD Permit No. SCWD-N4-002

SELF-MONITORING REPORT FORM

FLOW LOG

USER: **City of Dana Point**
 Del Obispo Nuisance Water Treatment Device

Month <u>May</u>		Year <u>2004</u>	
Day	Total Daily Flow (gpd)	Day	Total Daily Flow (gpd)
1.	<u>952.50</u>	17.	<u>952.50</u>
2.	<u>952.50</u>	18.	<u>589.80</u>
3.	<u>952.50</u>	19.	<u>1879.10</u>
4.	<u>952.50</u>	20.	<u>1205.90</u>
5.	<u>952.50</u>	21.	<u>965.60</u>
6.	<u>952.50</u>	22.	<u>3081.20</u>
7.	<u>952.50</u>	23.	<u>2888.90</u>
8.	<u>952.50</u>	24.	<u>1358.70</u>
9.	<u>952.50</u>	25.	<u>1320.20</u>
10.	<u>952.50</u>	26.	<u>1119.90</u>
11.	<u>952.50</u>	27.	<u>974.60</u>
12.	<u>952.50</u>	28.	<u>1891.70</u>
13.	<u>952.50</u>	29.	<u>2679.60</u>
14.	<u>952.50</u>	30.	<u>1014.10</u>
15.	<u>952.50</u>	31.	<u>848.3</u>
16.	<u>952.50</u>	Total:	<u>38010</u>

Nuisance Water-SWD Permit No. SCWD-N4-002

SELF-MONITORING REPORT FORM

FLOW LOG

USER: **City of Dana Point**
 Del Obispo Nuisance Water Treatment Device

Month <u>June</u>		Year <u>2004</u>	
Day	Total Daily Flow (gpd)	Day	Total Daily Flow (gpd)
1.	<u>460.40</u>	17.	<u>4770.20</u>
2.	<u>2025.50</u>	18.	<u>4088.80</u>
3.	<u>1597.20</u>	19.	<u>1623.20</u>
4.	<u>2187.60</u>	20.	<u>1113.40</u>
5.	<u>5142.80</u>	21.	<u>1553.90</u>
6.	<u>3700.80</u>	22.	<u>1286.80</u>
7.	<u>4460.70</u>	23.	<u>1062.10</u>
8.	<u>3025.40</u>	24.	<u>2983.00</u>
9.	<u>2590.70</u>	25.	<u>2419.20</u>
10.	<u>1932.80</u>	26.	<u>2851.00</u>
11.	<u>2339.00</u>	27.	<u>1211.50</u>
12.	<u>6914.80</u>	28.	<u>2497.70</u>
13.	<u>5549.00</u>	29.	<u>1673.00</u>
14.	<u>2742.70</u>	30.	<u>2744.70</u>
15.	<u>2517.70</u>	31.	<u>N/A</u>
16.	<u>1218.10</u>	Total:	<u>80283</u>

Nuisance Water-SWD Permit No. SCWD-N4-002

SELF-MONITORING REPORT FORM

FLOW LOG

USER: **City of Dana Point**
 Del Obispo Nuisance Water Treatment Device

Month July

Year 2004

Day	Total Daily Flow (gpd)	Day	Total Daily Flow (gpd)
1.	<u>3898.40</u>	17.	<u>5860.50</u>
2.	<u>3154.10</u>	18.	<u>4581.50</u>
3.	<u>2950.30</u>	19.	<u>2592.10</u>
4.	<u>2199.20</u>	20.	<u>4185.00</u>
5.	<u>3147.00</u>	21.	<u>3544.80</u>
6.	<u>3402.00</u>	22.	<u>4076.40</u>
7.	<u>474838.00</u>	23.	<u>3380.70</u>
8.	<u>7669.10</u>	24.	<u>4506.90</u>
9.	<u>6638.50</u>	25.	<u>3098.20</u>
10.	<u>6638.50</u>	26.	<u>2494.60</u>
11.	<u>6638.50</u>	27.	<u>3476.50</u>
12.	<u>6638.50</u>	28.	<u>4105.10</u>
13.	<u>6638.50</u>	29.	<u>3320.10</u>
14.	<u>6638.50</u>	30.	<u>5847.70</u>
15.	<u>6638.50</u>	31.	<u>8400.5</u>
16.	<u>6638.50</u>	Total:	<u>147747</u>

Nuisance Water-SWD Permit No. SCWD-N4-002

SELF-MONITORING REPORT FORM

FLOW LOG

USER: **City of Dana Point**
 Del Obispo Nuisance Water Treatment Device

Month August

Year 2004

Day	Total Daily Flow (gpd)	Day	Total Daily Flow (gpd)
1.	<u>8602.80</u>	17.	<u>9251.30</u>
2.	<u>6039.90</u>	18.	<u>5420.70</u>
3.	<u>7512.70</u>	19.	<u>4001.10</u>
4.	<u>7767.10</u>	20.	<u>6446.90</u>
5.	<u>5410.40</u>	21.	<u>7697.90</u>
6.	<u>5673.30</u>	22.	<u>7111.40</u>
7.	<u>6345.90</u>	23.	<u>6077.10</u>
8.	<u>14771.50</u>	24.	<u>5784.30</u>
9.	<u>16368.80</u>	25.	<u>6129.90</u>
10.	<u>10658.60</u>	26.	<u>5736.10</u>
11.	<u>5823.10</u>	27.	<u>7110.00</u>
12.	<u>5383.90</u>	28.	<u>6653.00</u>
13.	<u>5594.50</u>	29.	<u>5591.50</u>
14.	<u>6328.50</u>	30.	<u>5111.90</u>
15.	<u>5441.20</u>	31.	<u>5438.6</u>
16.	<u>5441.20</u>	Total:	<u>216725</u>

Nuisance Water-SWD Permit No. SCWD-N4-002

SELF-MONITORING REPORT FORM

FLOW LOG

USER: **City of Dana Point**
 Del Obispo Nuisance Water Treatment Device

Month September

Year 2004

Day Total Daily Flow (gpd)

Day Total Daily Flow (gpd)

1. 5528.50

17. 6571.00

2. 6031.10

18. 15607.10

3. 6802.40

19. 7755.50

4. 8098.00

20. 5968.70

5. 7633.00

21. 6692.30

6. 7561.20

22. 10632.80

7. 6151.90

23. 10782.30

8. 6654.60

24. 13490.80

9. 6574.90

25. 8706.30

10. 8499.70

26. 8216.00

11. 7042.60

27. 6749.10

12. 7397.70

28. 8546.80

13. 6785.20

29. 10810.40

14. 7733.00

30. 8535.40

15. 5600.60

31. N/A

16. 5600.60

Total: 233158

SELF-MONITORING REPORT FORM

FLOW LOG

USER: **City of Dana Point**
 Del Obispo Nuisance Water Treatment Device

Month <u>October</u>		Year <u>2004</u>	
Day	Total Daily Flow (gpd)	Day	Total Daily Flow (gpd)
1.	<u>10935.60</u>	17.	<u>1317.50</u>
2.	<u>11382.60</u>	18.	<u>1317.50</u>
3.	<u>8119.90</u>	19.	<u>853.10</u>
4.	<u>7899.10</u>	20.	<u>55.10</u>
5.	<u>8723.60</u>	21.	<u>0.00</u>
6.	<u>9075.20</u>	22.	<u>0.00</u>
7.	<u>13289.20</u>	23.	<u>0.00</u>
8.	<u>11654.20</u>	24.	<u>0.00</u>
9.	<u>12677.00</u>	25.	<u>0.00</u>
10.	<u>8294.70</u>	26.	<u>0.00</u>
11.	<u>6914.10</u>	27.	<u>0.00</u>
12.	<u>6777.40</u>	28.	<u>0.00</u>
13.	<u>11070.80</u>	29.	<u>0.00</u>
14.	<u>681.30</u>	30.	<u>0.00</u>
15.	<u>2906.70</u>	31.	<u>0.00</u>
16.	<u>1317.50</u>	Total:	<u>135262</u>

APPENDIX C

PH LOGS

Nuisance Water-SWD Permit No. SCWD-N4-002

SELF-MONITORING REPORT FORM

pH LOG

USER: **City of Dana Point**
 Del Obispo Nuisance Water Treatment Device

Month April

Year 2004

Day	pH (SU)	Day	pH (SU)
1.	<u>N/A</u>	17.	<u>N/A</u>
2.	<u>N/A</u>	18.	<u>N/A</u>
3.	<u>N/A</u>	19.	<u>N/A</u>
4.	<u>N/A</u>	20.	<u>N/A</u>
5.	<u>N/A</u>	21.	<u>N/A</u>
6.	<u>N/A</u>	22.	<u>N/A</u>
7.	<u>N/A</u>	23.	<u>N/A</u>
8.	<u>N/A</u>	24.	<u>N/A</u>
9.	<u>N/A</u>	25.	<u>N/A</u>
10.	<u>N/A</u>	26.	<u>N/A</u>
11.	<u>N/A</u>	27.	<u>N/A</u>
12.	<u>N/A</u>	28.	<u>N/A</u>
13.	<u>N/A</u>	29.	<u>N/A</u>
14.	<u>8.6</u>	30.	<u>N/A</u>
15.	<u>N/A</u>	31.	<u>N/A</u>
16.	<u>N/A</u>		

SELF-MONITORING REPORT FORM

pH LOG

USER: **City of Dana Point**
 Del Obispo Nuisance Water Treatment Device

Month May

Year 2004

Day	pH (SU)	Day	pH (SU)
1.	<u>9.7</u>	17.	<u>9.8</u>
2.	<u>9.7</u>	18.	<u>10</u>
3.	<u>10</u>	19.	<u>10</u>
4.	<u>9.6</u>	20.	<u>9.7</u>
5.	<u>9.6</u>	21.	<u>9.5</u>
6.	<u>9.6</u>	22.	<u>9.6</u>
7.	<u>9.7</u>	23.	<u>9.5</u>
8.	<u>9.3</u>	24.	<u>9.5</u>
9.	<u>9.1</u>	25.	<u>9.9</u>
10.	<u>8.9</u>	26.	<u>9.9</u>
11.	<u>8.8</u>	27.	<u>9.8</u>
12.	<u>8.9</u>	28.	<u>9.9</u>
13.	<u>9.5</u>	29.	<u>9.6</u>
14.	<u>9.9</u>	30.	<u>9.4</u>
15.	<u>10</u>	31.	<u>9.2</u>
16.	<u>9.8</u>		

Nuisance Water-SWD Permit No. SCWD-N4-002

SELF-MONITORING REPORT FORM

pH LOG

USER: **City of Dana Point**
 Del Obispo Nuisance Water Treatment Device

Month <u>June</u>		Year <u>2004</u>	
Day	pH (SU)	Day	pH (SU)
1.	<u>9.1</u>	17.	<u>9.1</u>
2.	<u>9.6</u>	18.	<u>9.5</u>
3.	<u>9.6</u>	19.	<u>9.4</u>
4.	<u>9.5</u>	20.	<u>9.5</u>
5.	<u>9.6</u>	21.	<u>9.5</u>
6.	<u>9.4</u>	22.	<u>9.6</u>
7.	<u>9.2</u>	23.	<u>9.5</u>
8.	<u>9.4</u>	24.	<u>9.8</u>
9.	<u>9.5</u>	25.	<u>9.8</u>
10.	<u>9.5</u>	26.	<u>9.8</u>
11.	<u>9.8</u>	27.	<u>9.8</u>
12.	<u>9.8</u>	28.	<u>9.8</u>
13.	<u>9.6</u>	29.	<u>9.6</u>
14.	<u>9.6</u>	30.	<u>9.6</u>
15.	<u>9.7</u>	31.	<u>N/A</u>
16.	<u>9.0</u>		

SELF-MONITORING REPORT FORM

pH LOG

USER: **City of Dana Point**
 Del Obispo Nuisance Water Treatment Device

Month <u>August</u>		Year <u>2004</u>	
Day	pH (SU)	Day	pH (SU)
1.	<u>9.3</u>	17.	<u>9.5</u>
2.	<u>9.1</u>	18.	<u>9.5</u>
3.	<u>9.5</u>	19.	<u>9.0</u>
4.	<u>9.0</u>	20.	<u>9.4</u>
5.	<u>9.4</u>	21.	<u>9.7</u>
6.	<u>9.7</u>	22.	<u>9.8</u>
7.	<u>9.5</u>	23.	<u>9.8</u>
8.	<u>9.3</u>	24.	<u>9.9</u>
9.	<u>9.4</u>	25.	<u>10.0</u>
10.	<u>9.4</u>	26.	<u>10.0</u>
11.	<u>9.3</u>	27.	<u>9.7</u>
12.	<u>9.4</u>	28.	<u>9.7</u>
13.	<u>9.4</u>	29.	<u>9.9</u>
14.	<u>9.4</u>	30.	<u>10.0</u>
15.	<u>9.5</u>	31.	<u>10.0</u>
16.	<u>9.4</u>		

SELF-MONITORING REPORT FORM

pH LOG

USER: **City of Dana Point**
 Del Obispo Nuisance Water Treatment Device

Month September

Year 2004

Day	pH (SU)	Day	pH (SU)
1.	<u>9.9</u>	17.	<u>9.2</u>
2.	<u>9.9</u>	18.	<u>9.3</u>
3.	<u>9.9</u>	19.	<u>9.3</u>
4.	<u>9.8</u>	20.	<u>9.3</u>
5.	<u>9.4</u>	21.	<u>9.4</u>
6.	<u>9.5</u>	22.	<u>9.0</u>
7.	<u>9.6</u>	23.	<u>8.8</u>
8.	<u>9.7</u>	24.	<u>9.0</u>
9.	<u>9.9</u>	25.	<u>9.0</u>
10.	<u>9.8</u>	26.	<u>9.1</u>
11.	<u>9.9</u>	27.	<u>9.3</u>
12.	<u>10</u>	28.	<u>9.5</u>
13.	<u>9.9</u>	29.	<u>9.5</u>
14.	<u>9.9</u>	30.	<u>9.5</u>
15.	<u>9.4</u>	31.	<u>N/A</u>
16.	<u>9.2</u>		

Nuisance Water-SWD Permit No. SCWD-N4-002

SELF-MONITORING REPORT FORM

pH LOG

USER: **City of Dana Point**
 Del Obispo Nuisance Water Treatment Device

Month October

Year 2004

Day pH (SU)

Day pH (SU)

1. 9.5

17. 8.7

2. 9.6

18. 8.7

3. 9.6

19. 8.8

4. 9.5

20. 8.9

5. 9.4

21. 9.0

6. 9.4

22. 9.1

7. 9.3

23. 9.0

8. 9.3

24. 9.0

9. 9.34

25. 9.0

10. 9.3

26. 9.1

11. 9.3

27. 9.1

12. 9.4

28. 9.0

13. 8.6

29. 9.0

14. 8.5

30. 9.1

15. 8.6

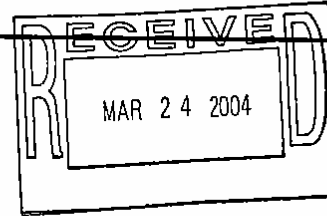
31. 9.1

16. 8.8

APPENDIX D
COMPLIANCE LETTERS FROM SOCWA



South Orange County Wastewater Authority



March 22, 2004

Mr. Matthew Sinacori
Capital Improvement Program Manager
City of Dana Point
33282 Golden Lantern
Dana Point, CA 92629

Subject: Receipt and Review of Self-monitoring Report – Del Obispo Park

Dear Mr. Sinacori:

The February 2004 Del Obispo Park Storm Drain Nuisance Water Treatment Device self-monitoring report was received by its due date for Nuisance Water-Special Wastewater Discharge (NSWD) Permit #SCWD-N4-003. The following comments refer to the above noted report:

1. The monthly report was submitted on time in accordance with your permit and the South Coast Water District's nuisance water diversion policy and pretreatment ordinance.
2. All required parameters tested were in compliance with the limits or requirements listed in your permit.

The next monthly self-monitoring report will be for March 2004, and is due by April 20, 2004. Thank you for your self-monitoring report submittal.

If you have any questions, please contact the Industrial Waste Department at 949-234-5412.

Very truly yours,
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

Paul D. Schmidtbauer
Industrial Waste Administrator

cc: SCWD PT File
SOCWA PT File – SCWD-N4-003

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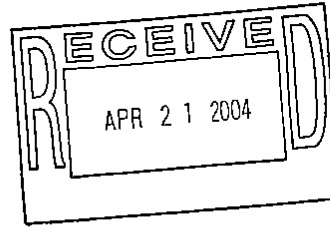
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South Orange County Wastewater Authority

April 20, 2004

Mr. Matthew Sinacori
Capital Improvement Program Manager
City of Dana Point
33282 Golden Lantern
Dana Point, CA 92629



Subject: Receipt and Review of Self-monitoring Report – Del Obispo Park

Dear Mr. Sinacori:

The April 2004 Del Obispo Park Storm Drain Nuisance Water Treatment Device self-monitoring report was received by its due date for Nuisance Water-Special Wastewater Discharge (NSWD) Permit #SCWD-N4-003. The following comments refer to the above noted report:

1. The monthly report was submitted on time in accordance with your permit and the South Coast Water District's nuisance water diversion policy and pretreatment ordinance.
2. All required parameters tested were in compliance with the limits or requirements listed in your permit.

The next monthly self-monitoring report will be for April 2004, and is due by May 20, 2004. Thank you for your self-monitoring report submittal.

If you have any questions, please contact the Industrial Waste Department at 949-234-5412.

Very truly yours,
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

Paul D. Schmidtbauer
Industrial Waste Administrator

cc: SCWD PT File
SOCWA PT File – SCWD-N4-003

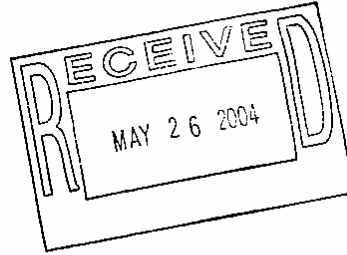
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South Orange County Wastewater Authority

May 24, 2004



Mr. Matthew Sinacori
Capital Improvement Program Manager
City of Dana Point
33282 Golden Lantern
Dana Point, CA 92629

Subject: Receipt and Review of Self-monitoring Report – Del Obispo Park

Dear Mr. Sinacori:

The April 2004 Del Obispo Park Storm Drain Nuisance Water Treatment Device self-monitoring report was received for Nuisance Water-Special Wastewater Discharge (NSWD) Permit #SCWD-N4-003. The following comments refer to the above noted report:

1. The monthly report was submitted on time in accordance with your permit and the South Coast Water District's nuisance water diversion policy and pretreatment ordinance.
2. All required parameters tested were in compliance with the limits or requirements listed in your permit.

The next monthly self-monitoring report will be for May 2004, and is due by June 20, 2004. Thank you for your self-monitoring report submittal.

If you have any questions, please contact the Industrial Waste Department at 949-234-5412.

Very truly yours,
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

Paul D. Schmidtbauer
Industrial Waste Administrator

cc: SCWD PT File
SOCWA PT File -- SCWD-N4-003

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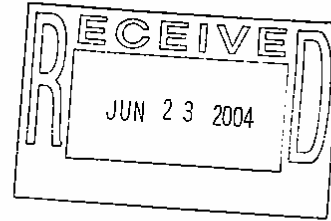
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South Orange County Wastewater Authority

June 21, 2004

Mr. Matthew Sinacori
Capital Improvement Program Manager
City of Dana Point
33282 Golden Lantern
Dana Point, CA 92629



Subject: Receipt and Review of Self-monitoring Report – Del Obispo Park

Dear Mr. Sinacori:

The May 2004 Del Obispo Park Storm Drain Nuisance Water Treatment Device self-monitoring report was received for Nuisance Water-Special Wastewater Discharge (NSWD) Permit #SCWD-N4-003. The following comments refer to the above noted report:

1. The monthly report was submitted on time in accordance with your permit and the South Coast Water District's nuisance water diversion policy and pretreatment ordinance.
2. All required parameters tested were in compliance with the limits or requirements listed in your permit.

The next monthly self-monitoring report will be for June 2004, and is due by July 20, 2004. Thank you for your self-monitoring report submittal.

If you have any questions, please contact the Industrial Waste Department at 949-234-5412.

Very truly yours,
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

Paul D. Schmidtbauer
Industrial Waste Administrator

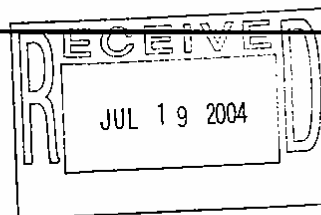
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South Orange County Wastewater Authority



July 15, 2004

Mr. Matthew Sinacori
Capital Improvement Program Manager
City of Dana Point
33282 Golden Lantern
Dana Point, CA 92629

Subject: Receipt and Review of Self-monitoring Report – Del Obispo Park

Dear Mr. Sinacori:

The June 2004 Del Obispo Park Storm Drain Nuisance Water Treatment Device self-monitoring report was received for Nuisance Water-Special Wastewater Discharge (NSWD) Permit #SCWD-N4-003. The following comments refer to the above noted report:

1. The monthly report was submitted on time in accordance with your permit and the South Coast Water District's nuisance water diversion policy and pretreatment ordinance.
2. All required parameters tested were in compliance with the limits or requirements listed in your permit.

The next monthly self-monitoring report will be for July 2004, and is due by August 20, 2004. Thank you for your self-monitoring report submittal.

If you have any questions, please contact the Industrial Waste Department at 949-234-5412.

Very truly yours,
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

Paul D. Schmidtbauer
Industrial Waste Administrator

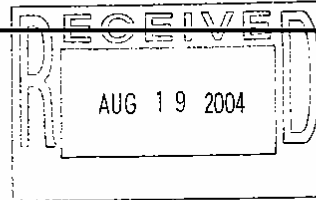
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South Orange County Wastewater Authority



August 17, 2004

Mr. Matthew Sinacori
Capital Improvement Program Manager
City of Dana Point
33282 Golden Lantern
Dana Point, CA 92629

Subject: Receipt and Review of Self-monitoring Report – Del Obispo Park

Dear Mr. Sinacori:

The July 2004 Del Obispo Park Storm Drain Nuisance Water Treatment Device self-monitoring report was received for Nuisance Water-Special Wastewater Discharge (NSWD) Permit #SCWD-N4-003. The following comments refer to the above noted report:

1. The monthly report was submitted on time in accordance with your permit and the South Coast Water District's nuisance water diversion policy and pretreatment ordinance.
2. The flow on July 7, 2004 was reported at 474838 gpd, which is in noncompliance with the limits listed in your NSWD permit. Please check to see if this is a correct data.
3. All other required parameters recorded or tested were in compliance with the limits or requirements listed in your permit.

The next monthly self-monitoring report will be for August 2004, and is due by September 20, 2004. Thank you for your self-monitoring report submittal.

If you have any questions, please contact the Industrial Waste Department at 949-234-5412.

Very truly yours,
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

Paul D. Schmidtbauer
Industrial Waste Administrator

cc: SCWD PT File
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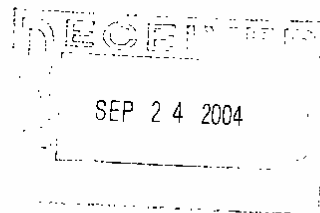
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South Orange County Wastewater Authority

September 22, 2004

Mr. Matthew Sinacori
Capital Improvement Program Manager
City of Dana Point
33282 Golden Lantern
Dana Point, CA 92629



Subject: Receipt and Review of Self-monitoring Report – Del Obispo Park

Dear Mr. Sinacori:

The August 2004 Del Obispo Park Storm Drain Nuisance Water Treatment Device self-monitoring report was received for Nuisance Water-Special Wastewater Discharge (NSWD) Permit #SCWD-N4-003. The following comments refer to the above noted report:

1. The monthly report was submitted on time in accordance with your permit and the South Coast Water District's nuisance water diversion policy and pretreatment ordinance.
2. The flow was in compliance with the limits listed in your NSWD permit.
3. All other required parameters recorded or tested were in compliance with the limits or requirements listed in your permit.

The next monthly self-monitoring report will be for September 2004, and is due by October 20, 2004. Thank you for your self-monitoring report submittal.

If you have any questions, please contact the Industrial Waste Department at 949-234-5412.

Very truly yours,

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

Paul D. Schmidtbauer
Industrial Waste Administrator

cc: SCWD PT File
SOCWA PT File -- SCWD-N4-003

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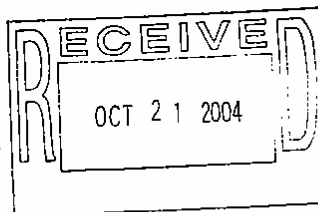
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South Orange County Wastewater Authority

October 19, 2004

Mr. Matthew Sinacori
Capital Improvement Program Manager
City of Dana Point
33282 Golden Lantern
Dana Point, CA 92629



Subject: Receipt and Review of Self-monitoring Report – Del Obispo Park

Dear Mr. Sinacori:

The September 2004 Del Obispo Park Storm Drain Nuisance Water Treatment Device self-monitoring report was received for Nuisance Water-Special Wastewater Discharge (NSWD) Permit #SCWD-N4-003. The following comments refer to the above noted report:

1. The monthly report was submitted on time in accordance with your permit and the South Coast Water District's nuisance water diversion policy and pretreatment ordinance.
2. The flow was in compliance with the limits listed in your NSWD permit.
3. All other required parameters recorded or tested were in compliance with the limits or requirements listed in your permit.

The next monthly self-monitoring report will be for October 2004, and is due by November 20, 2004. Thank you for your self-monitoring report submittal.

If you have any questions, please contact the Industrial Waste Department at 949-234-5412.

Very truly yours,

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

Paul D. Schmidtbauer
Industrial Waste Administrator

cc: SCWD PT File
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South Orange County Wastewater Authority

NOV 22 2004

NOV 22 2004

November 18, 2004

Mr. Matthew Sinacori
Capital Improvement Program Manager
City of Dana Point
33282 Golden Lantern
Dana Point, CA 92629

Subject: Receipt and Review of Self-monitoring Report – Del Obispo Park

Dear Mr. Sinacori:

The October 2004 Del Obispo Park Storm Drain Nuisance Water Treatment Device self-monitoring report was received for Nuisance Water-Special Wastewater Discharge (NSWD) Permit #SCWD-N4-003. The following comments refer to the above noted report:

1. The monthly report was submitted on time in accordance with your permit and the South Coast Water District's nuisance water diversion policy and pretreatment ordinance.
2. The flow was in compliance with the limits listed in your NSWD permit.
3. All other required parameters recorded or tested were in compliance with the limits or requirements listed in your permit.

The next monthly self-monitoring report will be for November 2004, and is due by December 20, 2004. Thank you for your self-monitoring report submittal.

If you have any questions, please contact the Industrial Waste Department at 949-234-5412.

Very truly yours,

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

Paul D. Schmidtbauer
Industrial Waste Administrator

cc: SCWD PT File
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