

NPDES No. CAS 004001 City of Redondo Beach 2011-12 Order No. 01-182
Los Angeles County Municipal Storm Water Permit (Order 01-182)
Individual Annual Report Form
Attachment U-4

This form summarizes the requirements in Order No. 01-182. Each Permittee must complete this form in its entirety, except for those requirements applicable only to the Principal Permittee. Only report activities that were performed during the previous fiscal year. Upon completion, this form shall be submitted to the Principal Permittee, by the date specified by the Principal Permittee, for inclusion in the unified Annual Storm Water Program Report. Attachments should be included where necessary to provide sufficient information on program implementation.

The goals of this Report are to: 1) concisely document implementation of the Storm Water Quality Management Program (SQMP) during the past fiscal year; 2) evaluate program results for continuous improvement; 3) to determine compliance with Order 01-182; and 4) to share this information with other Permittees, municipal decision makers, and the public.

!	YOU MUST FILL OUT ALL THE INFORMATION REQUESTED <i>Do not leave any of the sections blank.</i>
N/A	If the question does not apply to your municipality, please indicate N/A in the space provided and provide a brief explanation
U	If the information requested is currently unavailable, please indicate U in the space provided and give a brief explanation.

This Report Form consists of the following sections:

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D. Staff and Training:

Attach a summary of staff training over the last fiscal year. This shall include the staff name, department, type of training, and date of training.

E. Budget Summary

1. Does your municipality have a storm water utility? Yes No
If no, describe the funding source(s) used to implement the requirements of Order No. 01-182.

The general fund is used to implement the requirements of Order No. 01-182.
Inspection fee schedule has been adopted

2. Are the existing financial resources sufficient to accomplish all required activities? Yes No
3. Complete Table 2 to the extent that accurate information is available (indicate U in the spaces where the information is unavailable), and report any supplemental dedicated budgets for the same categories on the lines below the table.
4. List any additional state/federally funded projects related to storm water.

None

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The numbers below are based on the estimated cost of previous years and adding a percentage for the FY12-13.

Program Element	Estimated Amount Expenditures in Fiscal Year 2011-12	Estimated Amount Needed to implement Order 01-182/NewPermit 2012-13
1. Program management a. Administrative costs b. Capital costs	\$23,000	\$25000
2. Public Information and Participation a. Public Outreach/Education b. Employee Training c. Corporate Outreach d. Business Assistance	\$5,000 \$5,000 \$4,000 \$5,000	\$6000 \$6000 \$5000 \$6000
3. Industrial/Commercial inspection/ site visit activities	\$70,000	\$80000
4. Development Planning	\$13,000	\$14000
5. Development Construction a. Construction inspections	\$21,000	\$23000
6. Public Agency Activities a. Maintenance of structural and treatment control BMPs b. Municipal street sweeping c. Catch basin cleaning d. Trash collection/recycling e. Capital costs f. Other	\$21,000 \$850,000 \$50,000 \$500,000	\$23000 \$900000 \$55000 \$550000
7. IC/ID Program a. Operations and Maintenance b. Capitol Costs	\$24,000	\$27000
8. Monitoring	\$31,000	\$33000
9. Other	\$160,000	\$180000
10. TOTAL	\$1,782,000	\$1,933,000

List any supplemental dedicated budgets for the above categories:

Portions of "Other" above are dedicated to the SMBBB TMDLs Implementation

List any activities that have been contracted out to consultants/other agencies:

Portions of the Program have been contracted out to a consultant to assist the City.
 The Bacteria TMDLs Monitoring is performed by a private laboratory.
 The Development of the Bacteria TMDL Implementation plan has also been contracted out jointly with other cities of the jurisdiction.
 The Implementation phase of the Plan has also been contracted out.

II. Receiving Water Limitations (Part 2)

- A. Are you aware, or have you been notified, of any discharges from your MS4 that cause or contribute to a condition of nuisance or to the violation of any applicable water quality standards?

The coordinated monitoring of shoreline that has been implemented per the Bacteria TMDLs' requirements has shown exceedances at sites 6-1 (4, summer – 12 winter), 6-3 (01, summer – 0 winter) and 6-5 (2 summer – 1 winter) during dry weather. However, observations at 6-3 and 6-5 determined the drain to be dry or pipe buried. This indicates the MS4 at these sites was not the cause at these sites. The low flow diversion on the storm drain discharging to 6-1 was operation during all exceedance events. Observations made when the samples were taken indicated that flow reached the surf five times. The remaining 11 observations found that no flow reached the surf. The Aime Sump is drained using a pump. During the summer months the discharge is directed to the Dominguez Channel while during the winter months the discharge is directed to the Santa Monica Bay. However, the switch over did not occur until late April. When the Aime sump pumps are operating the flow exceeds the capacity of the low flow diversion. Therefore this discharge could have accounted for the observed discharges.

During the FY2011-12 reporting year there were 38 exceedance days of the single sample REC-1 bacterial objectives at SMB 6-1 out of 260 sampling days on a year-round wet and dry weather basis for this site which is monitored five days per week, 52 weeks per year. This is an effective exceedance rate of 15%. By contrast the reference beach had 8 exceedance days out of 52 sampling days for combined year-round wet and dry weather sampling which is a 15% exceedance rate. Thus overall the shoreline monitoring site at SMB 6-1 exhibited an exceedance rate that was equivalent to that of the reference beach site; however the tremendous quantity of data collected at SMB 6-1 gives the impression that SMB 6-1 has a higher exceedance rate. Therefore, unless a site has an exceedance rate, not exceedance days, greater than the reference beach, water quality standards should not be considered exceeded in the receiving waters.

The evaluation of this information indicates that exceedances are typical caused by local conditions not MS4 discharges. To find the actual source of such exceedances and in order to comply with the TMDLs, the City along with the other agencies of J 5&6 has started the source identifications and investigations phase.

While the exact cause or contributions of exceedances remain to be unknown, the study results have shown that there could be discharges within the City that maybe the sources of Bacteria. However, there has not been a direct correlation established between the potential sources found and the exceedances that are occurring at the subject sites.

This question has two parts that can not be answered with one simple "yes" or "no". Part one-The City is not aware of any definite discharges that are violations of applicable standards reaching the receiving waters.

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Part 2-The RWQCB has sent NOVs to the City requesting information regarding the exceedances at the shoreline motioning sites to determine whether it is contributed by the City or not. No assessments or determinations have been established by the RWQCB as of yet.

While the answer to this question can not be a simple "yes", or "no". It remains to be a "Maybe" until more studies confirm the outcome.

Yes No

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- B. Has the Regional Board notified you that discharges from your MS4 are causing or contributing to an exceedance of water quality standards?
- C. If you answered Yes to either of the above questions, you must attach a Receiving Water Limitations (RWL) Compliance Report. The Report must include the following:
- On March 4, 2008, the LARWQCB issued a NOV to the City requiring submittals of reports providing information for each shoreline monitoring site for which the City is jointly responsible and violations have been documented. The City submitted a detailed report on April 21, 2008.
 - On October 15, 2009, the RWQCB issued a 2nd NOV stating that the report submitted was not adequate. The City responded by submitting another report on December 1, 2009.
 - The RWQCB has not to this date responded and/or made any comments regarding the recently submitted report. While the notifications address the exceedances and violations of the receiving waters, they do not clearly state that the Cities are the cause of such exceedances, rather is requesting information in order to make the final determination.
 - The RWQCB later voided these NOVs
 - The answer can not be yes or no. It can be a “maybe”.
1. A description of the pollutants that are in exceedance and an analysis of possible sources;
 2. A plan to comply with the RWL (Permit, Part 2)
 3. Changes to the SQMP to eliminate water quality exceedances
 4. Enhanced monitoring to demonstrate compliance ; and
 5. Results of implementation
- Yes No

III. SQMP Implementation (Part 3)

A. Has your agency implemented the SQMP and any additional controls necessary to reduce the discharges of pollutants in storm water to the maximum extent practicable? Yes No

B. If your agency has implemented additional or different controls than described in the countywide SQMP, has your agency developed a local SQMP that reflects the conditions in its jurisdiction and specifies activities being implemented under the appropriate elements described in the countywide SQMP? Yes No

C. Describe the status of developing a local SQMP in the box below.

The Countywide SQMP submitted to the Regional Board has been the main SQMP used as guidelines and reference.

D. If applicable, describe an additional BMP, in addition to those in the countywide SQMP, that your city has implemented to reduce pollutants in storm water to the maximum extent practicable.

Jurisdictional five and six SMBB TMDLs Implementation Plan BMPs

Watershed Management Committees (WMCs)

1. Which WMC are you in? Santa Monica Bay-Ballona Creek & Dominguez Channel
2. Who is your designated representative to the WMC? Michael Shay/Sheila Kennedy
3. How many WMC meetings did you participate in last year? All
4. Describe specific improvements to your storm water management program as a result of WMC meetings.

The City attends and participates at the WMC meetings as they are scheduled by the Chair.
The specific improvements to the City's program have been more as the result of the local and Regional/Jurisdictional Committee meetings. The City has initiated and currently spearheads the Jurisdictional five and six meetings. These meetings are very efficient and helpful to improve the local programs. A great deal of efforts has been made towards the Santa Monica Bacteria TMDL's specific strategy, monitoring, and implementation.

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5. Attach any comments or suggestions regarding your WMC. Modify the WMC members to include the more regional agencies to work together similar to the watersheds as they are listed in the TMDLs. The SMB agencies should not be listed in the same WMC as the Ballona Creek agencies.

E. Storm Water Ordinance

1. Have you adopted a storm water and urban runoff ordinance to enforce all requirements of Order 01-182? Yes No

If not, describe the status of adopting such an ordinance.

Amendment to storm water ordinance relating to areas in the local coastal zone along with design guidelines is attached.

2. If yes, have you already submitted a copy of the ordinance to the Regional Board? Yes No

If not, please attach a copy to this Report.

3. Were any amendments made to your storm water ordinance during the last fiscal year? Yes No

If yes, attach a copy of amendments to this Report.

F. Discharge Prohibitions

1. List any non-storm water discharges you feel should be further regulated:

-Potable Water Agency Discharges
-All non-storm water discharges that are regulated either by the General or Individual Permits should include TMDLs WLAs.

2. List any non-storm water discharges you feel should be exempt, and provide an explanation for each:

The conditionally exempt discharges should be exempt if additional BMPs installed and approved by the local agencies (Cities) without any further approval from the RWQCB.

IV. Special Provisions (Part 4)

- A. Public Information and Participation (Part 4.B)

In addition to answering the following questions, attach a summary of all storm water education activities that your agency conducted or participated in last year.

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1. No Dumping Message

- a) How many storm drain inlets does your agency own? 446
- b) How many storm drain inlets were marked with a no dumping message in the last fiscal year? Already completed
- c) What is the total number of storm drain inlets that are legibly marked with a no dumping message? 446

If this number is less than the number in question 1.b, describe why all inlets have not been marked, the process used to implement this requirement, and the expected completion date.

N/A

- d) How many public access points to creeks, channels, and other water bodies within your jurisdiction have been posted with no dumping signage in the past year?

N/A, City does not own open channels.

Describe your agency's status of implementing this requirement by the date required in Order No. 01-182.

N/A

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2. Reporting Hotline

- a) Has your agency established its own hotline for reporting and for general storm water management information? County hotline is utilized. Yes No
- b) If so, what is the number? 1-800-Clean LA
- c) Is this information listed in the government pages of the telephone book? N/A Yes No
- d) If no, is your agency coordinated with the countywide hotline? Yes No
- e) Do you keep record of the number of calls received and how they were responded to? Yes No
- f) How many calls were received in the last fiscal year? 11

g) Describe the process used to respond to hotline calls.

The County refers calls to the City. The Public Works Department responds to complaints within one hour during normal business hours and within 24 hours if complaint occurs off hours or on weekends.

- h) Have you provided the Principal Permittee with your current reporting contact information? Yes No
- i) Have you compiled a list of the general public reporting contacts for all Permittees and posted it on the www.888CleanLA.com web site (Principal Permittee only)? N/A Yes No
If not, when is this scheduled to occur?

3. Outreach and Education

- a) Describe the strategy developed to provide outreach and bilingual materials to target ethnic communities. Include an explanation of why each community was chosen as a target, how program effectiveness will be determined, and status of implementation. (Principal Permittee only)

N/A

- b) Did the Principal Permittee organize quarterly Public Outreach Strategy meetings that you were aware of? Yes No

How many Public Outreach Strategy meetings did your agency participate in last year? All four meetings

Explain why your agency did not attend any or all of the organized meetings.

Identify specific improvements to your storm water education program as a result of these meetings:

These meetings have benefited the City by providing information about the County's efforts such as ads and/or Public Service Announcements. The County announcements of their programs and availability of the outreach materials are also appreciated and helpful. The City has taken advantage of this opportunity and has received collateral items for distribution to the public and/or at the cities events.

List suggestions to increase the usefulness of quarterly meetings:

Incorporate the specific needs of each watershed and future TMDLs to save resources and to prevent duplications of the efforts.
Specifically, County could benefit from targeting specific programs that are tailor made for each area.

If quarterly Public Outreach Strategy meetings were not organized, explain why not and when this requirement will be implemented (*Principal Permittee only*).

N/A

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- c) Approximately how many impressions were made last year on the general public about storm water quality via print, local TV, local radio, or other media?

City's Newsletter is published quarterly where a specific storm water ad is included. These newsletters are printed for each specific season and they are produced four times a year for the approximate 42,000 residents.

Educational Materials are distributed to the general public at the public counters, staff training seminars, and various events.

- d) Describe efforts your agency made to educate local schools on storm water pollution.

1. The City of Redondo Beach, in a joint effort with the participating south bay cities, has begun a campaign to enhance its overall environmental community outreach programs, specifically to address local area stormwater and ocean water quality. As part of this effort, the City has developed series of activities which include various outreach methods to schools.
 - Clean Bay Restaurant Certification Student Participation program- Participants on this field trip included 26 students from a Redondo Union High School AP Environmental Science class and 8 students from Perras Middle School's Club Earth. Each student group was taught storm water quality management in the form of Best Management Practices for a restaurant's indoor and out door areas. Fats, oils and grease handling included use of grease removal devices and proper storage and recycling of used fry oil. Runoff pollution control included maintaining trash bins, storage areas and parking lots. This field trip helped the students understand, appreciate and remember the importance of pollution prevention. The restaurants were representative of corporate owned establishments (McDonald's, Panda Express, and Subway) as well as small family owned (The Standing Room, Ham Supreme Shops). The students were given posters and brochures for further class room discussion and reinforcement of practices. Report is attached.

- Did you provide all schools within each school district in Los Angeles County with materials necessary to educate a minimum of 50 percent of all school children (K-12) every 2 years on storm water pollution (*Principal Permittee only*)? Yes No

If not, explain why.

Not applicable.

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- e) Describe the strategy developed to measure the effectiveness of in-school educational programs, including assessing students' knowledge of storm water pollution problems and solutions before and after educational efforts (*Principal Permittee only*).

Not applicable.

For Permit Years 2-5, attach an assessment of the effectiveness of in-school storm water education programs.

- f) What is the behavioral change target that was developed based on sociological data and other studies (*Principal Permittee only*)?

Not applicable.

If no target has been developed, explain why and describe the status of developing a target.

Not applicable.

What is the status of meeting the target by the end of Year 5?

Not applicable.

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4. Pollutant-Specific Outreach

- a) Attach a description of each watershed-specific outreach program that your agency developed (*Principal Permittee only*). All pollutants listed in Table 1 (Section B.1.d.) must be included.

- b) Did your agency cooperate with the Principal Permittee to develop specific outreach programs to target pollutants in your area? Yes No

- c) Did your agency help distribute pollutant-specific materials in your city? Yes No

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d) Describe how your agency has made outreach material available to the general public, schools, community groups, contractors and developers, etc...

- Educational materials were distributed to the community utilizing the existing resources. Educational Materials have been continually available at the public counters for general public, the contractors, and the developers.
- The City's Quarterly Newsletters published a different ad regarding the City's Stormwater program each quarter.
- City had also taken advantage of the related City events to publicize the storm water program and to hand out educational materials to general public and kids specifically.
- Educational materials and handouts have been available to the City staff at the Storm water training seminars.
- The City along with the SMBRC and other Jurisdictional group members created a restaurant and pet waste BMP brochure.
- City as part of the SMBBB TMDLs programmatic solutions implementation phase and jointly with the participating Cities has developed a website with an overall goal of educating and raising awareness regarding the urban runoff pollution problem @ www.southbaystormwaterprogram.com. The activities of this website has been monitored and analyzed.
- A pre-program survey was developed to assess the general public knowledge to allow the City evaluate the effectiveness of the program as it evolves. The Cities of Redondo Beach, Manhattan Beach, Hermosa Beach, El Segundo, and Torrance, in conjunction with Los Angeles County and Caltrans to help the public's understanding and raise awareness regarding how pollution reaches the local area beaches and waterways developed a questioner. The goal of this questioner was to guide cities in their attempts to improve the water quality at the beaches and protect both human and animal (environment) populations. This survey was posted on the SouthBayStormwater website under "News" for the public to access and submit.
- The availability, accessibility, cost, and expertise of speakers were evaluated in order to provide presentations for various interested parties regarding the stormwater program. The primary audiences were considered to be the Beach and Pier users, the Restaurants, and the High and Low Residential areas. A list of identified speakers was developed.
- Clean Bay Restaurant Certification Student participation program provided great deal of outreach to students
- The City's website provides great deal of information regarding the recycling program and various methods to reduce waste. This includes tips on commercial recycling, composting, construction and demolition recycling, household hazardous waste disposal, pet waste information, and complete recycling guide.

www.redondo.org/depts/eng_build/engineering/water_quality_program/default.asp

www.redondo.org/in_the_city/civic_green/default.asp

- The City of Redondo Beach has completed a Water Wise Demonstration Garden in the Civic Center courtyard (415 Diamond Street). This area was formerly an underutilized area of lawn that required constant watering, weeding, fertilizing and mowing. It has since been transformed into a beautiful, water-efficient garden to be enjoyed by City employees, residents and visitors alike. Small groups, especially school children, are encouraged to visit the garden to learn about water wise gardening and the recycling of some of our precious natural and manmade resources. The objective of this type of garden is to reduce water usage and minimize maintenance with respect to weeding, mowing and the use of chemical fertilizers, in accordance with the principles of sustainable development. Simply put, sustainable development is development that meets the needs of the present without compromising the ability for future generations to meet their own needs.



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5. Businesses Program

- a) Briefly describe the Corporate Outreach Program that has been developed to target gas stations and restaurant chains (*Principal Permittee only*).

The city jointly with the neighboring agencies have launched and implemented the "Clean Bay Restaurant Certification Program". This program has been designed to target restaurants and modify behaviors by providing incentives to encourage the implementation of appropriate BMPs. A brochure was designed and printed and distributed to the restaurants. The City has conducted a regular inspection program of the gasoline outlets, the autoshops, and other critical sources.

- b) How many corporate managers did your agency (*Principal Permittee only*) reach last year? N/A

- c) What is the total number of corporations to be reached through this program (*Principal Permittee only*)? N/A

- d) Is your agency meeting the requirement of reaching all gas station and restaurant corporations once every two years (*Principal Permittee only*)? Yes No

If not, describe measures that will be taken to fully implement this requirement.

Not applicable.

- e) Has your agency developed and/or implemented a Business Assistance Program? Yes No
If so, briefly describe your agency's program, including the number of businesses assisted, the type of assistance, and an assessment of the program's effectiveness.

The City through the site inspection program continues to assist businesses to better understand the storm water program and applicable Best Management Practices. City also has adopted the Grease Trap program for the restaurants, which is an additional effort to educate the restaurant operators in managing, their waste (grease) appropriately which impacts the storm water program. The city jointly with the neighboring agencies launched and implemented the "Clean Bay Restaurant Certification Program". This program has been designed to target restaurants and modify behaviors by providing incentives to encourage the implementation of appropriate BMPs. Many businesses categorized as critical sources were outreached and inspected. As the result numbers of restaurants have installed grease traps. The list of the restaurants that are certified is regularly updated on the SMBRC website.
www.santamonicabay.org/smbay/LinkClick.aspx?link=Restaurant%2f2010_05_RB+Rest+List.pdf&tabid=135

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6. Did you encourage local radio stations and newspapers to use public service announcements? Yes No

How many media outlets were contacted? 4 publications

Which newspapers or radio stations ran them?

The City's Newsletter publishes ads regarding various issues of the Storm Water Program each quarter.
 The City's website also provides a great deal of information regarding various waste reductions and recycling methods for the commercial and residential communities. City as part of the SMBBB TMDLs programmatic solutions implementation phase and jointly with the participating Cities has developed a website with an overall goal of educating and raising awareness regarding the urban runoff population.
www.southbaystormwaterprogram.com

Who was the audience?

General public and the businesses community

7. Did you supplement the County's media purchase by funding additional media buys? Yes No

Estimated dollar value/in-kind contribution: \$8,000.00

Type of media purchased: County's purchase

Frequency of the buys: County's purchase

Did another agency help with the purchase? N/A Yes No

8. Did you work with local business, the County, or other Permittees to place non-traditional advertising? Yes No

If so, describe the type of advertising.

The City has coordinated its efforts with the County to obtain ads that could be suitable to place in its Newsletters.
 County ads were tailored to include the City's logo
 Websites have been devoted to publish information

9. Did you establish local community partnerships to distribute educational storm water pollution prevention material? Yes No

Describe the materials that were distributed:

Newsletter ads, brochures, and storm water tip cards, magnets, pens and pencils, BMP hand outs, key chains, dog waste bags.
 The City also works within the business-licensing unit to distribute materials to new businesses and those that are renewing their business licenses.
 The City's inspection program creates an opportunity for distribution of the BMP hand outs to restaurants and all other critical sources.
 Through the joint Cities effort, the City has coordinated with the West Basin Municipal Water District to promote water explorations' educational program and outreach materials.

Who were the key partners? Restaurants, Schools, Water District

Who was the audience (businesses, schools, etc.)?

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Restaurant owners and operators, Restaurant goers, General public, City personal, and Schools

10. Did you participate in or publicize workshops or community events to discuss storm water pollution? Yes No

Members of the public participated in the *Green Task Force* of the City of Redondo Beach established to address the broad range of environmental issues facing the beach community. The Task Force will review existing City environmental programs and recommend new green policies and programs to the City Council. The Green Task Force is a dynamic, volunteer-led group, created by the City Council. The Task Force meets at the City Main Library monthly and encourages members of the public to participate on the subcommittees.

The City through implementation phase of the SMBB Bacteria TMDLs participated in coordinating a round table workshop for the inspectors to discuss how best to inspect the businesses in order to achieve better results and implement a more efficient program.

There is also an annual event held by the SEA Lab that the City participates in.

How many events did you attend?

All of the above tasks committee meetings and the below events

- Green Task Force Committee
- Earth Day Festival at S.E.A. Lab
- City Staff Training Seminars

11. Does your agency have a website that provides storm water pollution prevention information? Yes No

If so, what is the address?

- www.redondo.org/depts/eng_build/engineering/environmental_programs.asp
- www.southbaystormwaterprogram

12. Has awareness increased in your community regarding storm water pollution? Yes No

Do you feel that behaviors have changed? Yes No

Explain the basis for your answers. Include a description of any evaluation methods that are used to determine the effectiveness of your agency's outreach.

Through interactions during educational site inspections and event attendance, it has been observed that the community's awareness level of storm water pollution continues to grow. The City staff has also expressed more knowledge about the program in comparison with years past.

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13. How would you modify the storm water public education program to improve it on the City or County level?

The City's public education through the SMBB Bacteria Implementation Plan will be evaluated after a few years to establish effectiveness of the BMPs. Any improvement of the program will depend on the outcome of such programs and BMPs.
County area wide programs could be more beneficial to the local communities.

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B. Industrial/Commercial Facilities Program

14. Critical Source Inventory Database

Did you (individually or jointly) update the Database for Critical Sources Inventory? Yes No

Comments/Explanation/Conclusion:

The City's database, which includes the site information such as name, address, and SCI codes, is continuously updated with the new information as, gathered in the field. This database is maintained by the Engineering Department.

In addition, City inspectors maintain files and records regarding the individual site inspections and specific issues.

15. Inspection Program

Provide the reporting data as suggested in the following tables.

Category	Initial Number of Facilities at the start of cycle (from July 2011) proposed for inspection by categories (after the initial year, the updated number based on the new data)	Number of facilities inspected in the current reporting year (FY11-12)	% Completed at the time of this report for present cycle (from the initial value, and from the updated value after first cycle)	Total number since permit adoption
Landfills	N/A	N/A	N/A	N/A
TSDf	N/A	N/A	N/A	N/A
GIASP	0	0	N/A	0
REST.	258	258	100%	1249+446+270+258
AUTO	12	12	100%	340+38 +12
COM/IND	15	15	100%	227+30+15

Comments/Explanation/Conclusion:

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16. BMPs Implementation

Provide the reporting data as suggested in the following table.

Category	Number of facilities inspected by category in this reporting year	Number of facilities identified as adequately implementing BMPs as specified in this reporting year	% adequately implementing out of total in this reporting year	Number of facilities required to implement or upgrade in this reporting year	Number of facilities inspected by category in this reporting cycle	Number of facilities identified as adequately implementing BMPs as specified in this reporting cycle	% adequately implementing out of total in this reporting cycle	Number of facilities required to implement or upgrade in this reporting cycle	Total Number during this permit adequately implementing	Total Number during this permit required to implement or upgrade
Landfills	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TSDf	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GIASP	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
REST.	258	222	86%	36	258	222	86%	36	2,111	207
AUTO	15	15	100%	15	15	15	100%	0	237	46
COM/IND	12	12	100%	12	12	12	100%	0	259	0

Comments/Explanation/Conclusion:

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17. Enforcement Activities

Provide the reporting data as suggested in the following tables.

Enforcement Actions by categories (e.g. Warning letter, NOV, referral to D.A., etc.)	Number of facilities issued enforcement actions in the current reporting year	Number of facilities issued enforcement actions in the current reporting cycle Dec2009-June2011	Number of facilities (re)inspected due to enforcement actions in current reporting year	Number of facilities (re)inspected due to enforcement actions in current reporting cycle	Number of facilities brought into compliance in the current reporting year	Number of facilities brought into compliance in current reporting cycle	Total number of enforcement actions since permit adoption (by category)
Verbal Warnings	12	12	12	12	12	12	155
NOV/NON	2	2	2	2	2	2	20

Facilities by category	Number of Warning letters	Number of NOVs	Number of Referral	Number of Other-Verbal warnings for (MC) Minor Corrections
Landfills	0	0	0	0
TSDf	0	0	0	0
GIASP	0	0	0	0
REST.	12	2	0	0
AUTO	0	0	0	0
COM/IND	0	0	0	0
Comments/Explanation/Conclusion:		Each verbal or Notice of Non-compliance is followed up with a re-inspection and the facility is charge a re-inspection fee.		

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18. Program Implementation Effectiveness Assessment

Please give a brief assessment of the implementation of the program in removing pollutants from the storm water discharges. Please provide an explanation. Suggested improvements or adjustments based on the knowledge gained through these reporting period activities must be reflected in a change in the SQMP, if warranted.

Highly Effective

Somewhat Effective

Non-effective

Comments/Explanation/
Conclusion:

The level of knowledge about Storm Water Pollution Prevention generally has increased. The inspection program has created an opportunity for the business community to get involved with this program, evaluate their operating procedures, and maximize their potential to implement the Best Management Practices.

19. You must also submit a quarterly electronic submittal of your Industrial/Commercial Facilities Program activities.

The City's database consists of a list, which includes the critical site information such as name, address, and SCI codes, is continuously updated with the new information and gathered in the field. This database is maintained by the Engineering Department.

In addition, City inspectors maintain files and records regarding the individual site inspections and specific issues.

B. Development Planning Program (Part 4.D)

1. Does your agency have a process to minimize impacts from storm water and urban runoff on the biological integrity of natural drainage systems and water bodies in accordance with requirements under CEQA, Section 404 of the CWA, local ordinances, and other legal authorities? Yes No

Attach examples showing how storm water quality impacts were addressed in environmental documents for projects over the past year.

2. Does your agency have procedures to include the following requirements in all priority development and redevelopment projects:
- a) Maximize the percentage of permeable surfaces to allow more percolation of storm water into the ground? Yes No
 - b) Minimize the quantity of storm water directed to impermeable surfaces and the MS4? Yes No
 - c) Minimize pollution emanating from parking lots through the use of appropriate treatment control BMPs and good housekeeping practices? Yes No
 - d) Provide for appropriate permanent measures to reduce storm water pollutant loads from the development site? Yes No

3. List the types and numbers of BMPs that your agency required for priority projects to meet the requirements described above.

Storm Drain Stenciling (2)
 Minimize impervious area (5)
 Trash Enclosures (2)
 Catch Basin Insert (7)
 Infiltration System (3)

4. Describe the status of the development or implementation of peak flow controls in Natural Drainage Systems.

The County of Los Angeles, which was tasked with this requirement, has developed and submitted a preliminary study to the Regional Board for their approval, comments and/or direction. The County has not notified the Cities of any final reports existing as of yet. Meanwhile, the City is already highly regulated by all coastal regulatory agencies, which impose regulations on all Environmentally Sensitive Area (the Beach and the Ocean) as well any Discretionary projects.

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5. Has your agency amended codes and/or ordinances to give legal effect to the SUSMP changes required in the Permit? Yes No

6. Describe the process your agency uses to include SUSMP design standards in new development and redevelopment project approvals.

Applicable sites must submit appropriate materials to the Engineering Department for review of SUSMP criteria. All plans are reviewed to ensure SUSMP requirements are in place. SUSMP requirements have been expanded for all projects located within the "Coastal Zone".

7. How many of each of the following projects did your agency review and condition to meet SUSMP requirements last year?

a)	Residential	8
b)	Commercial	1
c)	Industrial	0
d)	Automotive Service Facilities	0
e)	Retail Gasoline Outlets	0
f)	Restaurants	0
g)	Parking Lots	0
h)	Projects located in or directly adjacent to or discharging directly to an environmentally sensitive area	0
i)	Total number of permits issued to priority projects	9

8. What is the percentage of total development projects that were conditioned to meet SUSMP requirements? 25.0%

9. How has your agency prepared to reduce the SUSMP threshold for industrial/commercial facilities to 1 acre from 100,000 square feet in 2003? Yes

City ordinance addresses this issue. In addition developers have been educated verbally or through materials handed out at the public counter. Staff training has also addressed this to ensure proper plan checking process by the City personal.

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10. After 2003, how many additional projects per year will require/did require implementation of SUSMP requirements as a result of the lower threshold? 0

11. Does your agency participate in an approved regional or sub-regional storm water mitigation program to substitute in part or wholly SUSMP requirements for new development? N/A

A program has not been initiated or approved yet. However, the anticipated implementation of the TMDLs may be considered as a substitute in part or a sub-regional mitigation program.

Yes No

12. Has your agency modified its planning procedures for preparing and reviewing CEQA documents to consider potential storm water quality impacts and provide for appropriate mitigation?

Yes No

If no, provide an explanation and an expected date of completion.

13. Did your agency update any of the following General Plan elements in the past year?

a) Land Use Yes No

b) Housing Yes No

c) Conservation Yes No

d) Open Space Yes No

If yes, please describe how watershed and storm water quality and quantity management considerations were included.

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14. How many targeted staff were trained last year? 22
15. How many targeted staff are trained annually? 22
16. What percentage of total staff are trained annually? 100%
17. Has your agency developed and made available development planning guidelines? Yes No
18. If no, what is the expected date that guidelines will be developed and available to developers?
19. What is the status of completion of the technical manual for siting and design of BMPs for the development community?

Los Angeles County Public Works as the responsible agency has developed this document and submitted it to the RWQCB in February 2004.

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D. Development Construction Program

1. Describe your agency's program to control runoff from construction activity at all construction sites within its jurisdiction.

All construction projects, regardless of their size, are required to sign and submit a certification form stating that all construction related BMPs are implemented prior to issuance of this permit. Projects over 1 acre are required to develop the State required SWPPP.

2. Does your agency require the preparation, submittal, and implementation of a Local Storm Water Pollution Prevention Plan (Local SWPPP) prior to the issuance of a grading permit for all sites that meet one or all of the following criteria?

- a) Will result in soil disturbance of one acre or greater Yes No
- b) Is within, directly adjacent to, or is discharging directly to an environmentally sensitive area Yes No
- c) Is located in a hillside area Yes No

3. Attach one example of a local SWPPP: None were prepared

As of March 2003, the local SWPPP has been superceded by the State General Permit required SWPPP.

4. Describe the process your agency uses to require proof of filing a Notice of Intent for coverage under the State General Construction Activity Storm Water permit and a certification that a SWPPP has been prepared prior to issuing a grading permit?

Plan checkers prior to issuance of any permits, review projects submitted to the City. Until a contractor can provide a WDID number or other proof of NOI submittal, permits for projects meeting the requirements for coverage under the GIASP, will not be issued.

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5. How many building/grading permits were issued to sites requiring Local SWPPPs last year? 0
6. How many building/grading permits were issued to sites requiring coverage under the General Construction Activities Storm Water Permit last year? 0
7. How many building/grading permits were issued to construction site less than one acre in size last year? 79
8. How many construction sites were inspected during the last wet season? 4
9. Complete the table below.

Type of Violation	# of Violations	% of Total Inspections	# of Follow-up Inspections	# of Enforcement Actions
Off-site discharge of sediment	0	0	0	0
Off-site discharge of other pollutants	0	0	0	0
No or inadequate SWPPP	0	0	0	0
Inadequate BMP/SWPPP implementation	4	100	0	0

10. Describe the process for taking enforcement actions against construction site violations, including the types of actions that are taken.

If a minor BMP correction/implementation is necessary, a verbal warning will be given instructing how to come into immediate compliance.

For a site with more significant violations, an NOV is issued and a follow-up inspection is conducted within seven days of the date of the NOV. Follow-up inspections for construction sites are implemented within seven days of the violation. Not further building related inspections are conducted until the BMP implementation corrections are made.

A site may also be issued a Stop Work order (depending on the level of violation) until the project can come into full compliance with SWPPP and BMP requirements.

11. Describe the system that your agency uses to track the issuance of grading permits.

All grading permits are tracked in the Building Division electronic database.

E. Public Agency Activities (Part 4.F)

1. Sewage System Maintenance, Overflow, and Spill Prevention (only applicable to agencies that own and/or operate a sanitary sewer system)

- a) Has your agency developed and implemented a response plan for sanitary sewer overflows that includes the requirements in Order 01-182? Yes No
- b) How many sanitary sewer overflows occurred within your jurisdiction? 10
- c) How many did your agency respond to? 10
- d) Did your agency investigate all complaints received? Yes No
- e) How many complaints were received? 10
- f) Upon notification, did your agency immediately respond to overflows by containment? Yes No
- g) Did your agency notify appropriate sewer and public health agencies when a sewer overflowed to the MS4? Yes No
- h) Did your agency implement a program to prevent sewage spills or leaks from sewage facilities from entering the MS4? Yes No

If so, describe the program:

The City has a proactive sewer maintenance program to minimize overflows. A sewer overflow response plan has been developed and is available for referral.

The City has installed 38 smart manhole covers which are equipped with monitoring and alarm systems.

The City's Grease Trap program for the restaurants is an aggressive preventive measure to reduce sewer over flows which mostly result from grease accumulation in the sewer system.

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- i) Did your agency implement a program to identify, repair, and remediate sanitary sewer blockages, exfiltration, overflow, and wet weather overflows from sanitary sewers to the MS4? Yes No
If so, describe the program:

The City had televised all sanitary sewer mains in 2007. The City is currently repairing all sewer mains identified as a high priority.

2. Public Construction Activities Management

- a) What percentage of public construction sites 5 acres or greater in size did your agency obtain coverage under the State of California General Construction Activities Storm Water Discharge Permit? %
- b) Give an explanation for any sites greater than 5 acres that were not covered:

N/A

- c) What is the total number of active public construction sites? 31
How many were 5 acres or greater in size? 0

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- d) (After March, 2003) Did your agency obtain coverage under the State of California General Construction Activities Storm Water Discharge Permit coverage for public construction sites for sites one acre or greater? N/A Yes No

3. Vehicle Maintenance/Material Storage Facilities/Corporation Yards Management

- a) Did your agency implement pollution prevention plans for each public vehicle maintenance facility, material storage facility, and corporation yard? Yes No

- b) Briefly describe how your agency implements the following, and any additional, BMPs to minimize pollutant discharges in storm water:

- (1) Good housekeeping practices- Regular dry sweeping, cleaning, spill prevention, and maintenance of facilities.
- (2) Material storage control- Dispose of all excess refuse regularly, don't let materials build up. Indoor storage and covered materials
- (3) Vehicle leaks and spill control- spill kits, spill prevention, adsorbents, regular vehicle maintenance.
- (4) Illicit discharge control - spill containment measures in place, adsorbents on hand for spills

Answers above

- c) Are all Permittee owned and/or operated vehicle/equipment wash areas self-contained, covered, equipped with a clarifier, and properly connected to the sanitary sewer? Yes No

If not, what is the status of implementing this requirement?

- d) How many Permittee owned and/or operated vehicle/equipment wash areas are scheduled to be redeveloped to include the BMPs listed above? 0

4. Landscape and Recreational Facilities Management

- a) Has your agency developed a standardized protocol for the routine and non-routine application of pesticides, herbicides (including pre-emergents), and fertilizers? Yes No

Briefly describe this protocol:

The City has eliminated the use of pesticides and herbicides in many areas. Employees are trained regarding the proper use, application, and disposal of pesticides, fertilizers and herbicides. Landscaping activities, in which these materials must be used, are performed in a manner to minimize exposure to the stormwater or urban runoff.

The City is currently in the SMBB Bacteria TMDLs Implementation Plan phase of the programmatic solutions. One of the tasks is to standardize the Parks and Recreational maintenance activities. This task when completed will provide a checklist for the City maintenance crew and staff to inspect the subject areas and apply proper measures when additional or different BMPs are needed.

- b) How does your agency ensure that there is no application of pesticides or fertilizers immediately before, during, or immediately after a rain event or when water is flowing off the area to be applied?

The City has eliminated the use of pesticides and herbicides in many areas. The City plans scheduling for pesticide and fertilizer application. No scheduling of such practices takes place at inopportune times. (i.e. immediately prior to irrigation or predicted rain event)

- c) Are any banned pesticides, herbicides, fungicides, or rodenticides stored or applied in your agency's jurisdiction that you know of? Yes No

If so, list them:

d) What percentage of your agency's staff that apply pesticides are certified by the California Department of Food and Agriculture, or are under the direct supervision of a certified pesticide applicator? 100%

e) Describe procedures your agency has implemented to encourage retention and planting of native vegetation and to reduce water, fertilizer, and pesticide needs:

The City encourages the use of Native Vegetation wherever/whenever possible to reduce water, fertilizer, and pesticide use.

5. Storm Drain Operation and Management

a) Did your agency designate catch basin inlets within its jurisdiction as Priority A; Priority B; and Priority C? Yes No

b) How many of each designation exist in your jurisdiction?
Priority A: 0
Priority B: 0
Priority C: 446

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- c) Is your city subject to a trash TMDL? Yes No
- d) If yes, describe the activities and/or implementation measures that your agency conducted pursuant to the TMDL and any other trash reduction efforts that occurred.

Although, very small portion of the City discharges into the Machado Lake, the City is subject to the Trash TMDL requirements for this water body. Therefore, the City jointly with the other responsible agencies has developed the strategies that were proposed to the RWQCB in order to comply with the deadlines.

The portion of the City that is subject to this TMDL includes no catch basins in the residential area which drains into the City of Torrance prior to entering the Machado Lake. Since the City of Redondo Beach has no catch basins, no full capture device will be installed. However, the City of Redondo Beach will work with the City of Torrance and the group to ensure compliance.

The City completed the installation of two pilot projects in the pier and harbor area. These projects include the installation of trash filters in the drain inlets; re-routing roof gutters on the pier so that they don't directly discharge in to the ocean. These projects were completed in FY10/11.

The City is also subject to the SMB Marine Debris TMDLs and will be coordinating efforts for implementation.

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- e) How many times were all Priority A basins cleaned last year? N/A
- f) How many times were all Priority B basins cleaned last year? N/A
- g) How many times were all Priority C basins cleaned last year? 1
- h) How much total waste was collected in tons from catch basin clean-outs last year? Apprx.
3.8 tons
- i) Attach a record of all catch basins in your jurisdiction. This shall identify each basin as City or County owned, and Priority A, B, or C. For all basins that are owned and operated by your agency, include dates that each was cleaned out over the past year
- j) Did your agency place and maintain trash receptacles at all transit stops within its jurisdiction. Yes No
- k) How many new trash receptacles were installed last year?
All transit stops presently have receptacles.
- l) Did your agency place special conditions for events that generated substantial quantities of trash and litter including provisions that:
 - (1) Provide for the proper management of trash and litter generated from the event? Yes No
 - (2) Arrange for temporary screens to be placed on catch basins? Yes No
 - (3) Or for catch basins in that area to be cleaned out subsequent to the event and prior to any rain?
Yes No
- m) Did your agency inspect the legibility of the catch basin stencil or labels? Yes No
What percentage of stencils were legible? 100%

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n) Were illegible stencils recorded and re-stenciled or re-labeled within 180 days of inspection? N/A Yes No

o) Did your agency visually monitor Permittee-owned open channel storm drains and other drainage structures for debris at least annually and identify and prioritize problem areas of illicit discharge for regular inspection? N/A
The City does not own any open Channels. Yes No
Is the prioritization attached? N/A Yes No

p) Did your agency review its maintenance activities to assure that appropriate storm water BMPs are being utilized to protect water quality? Yes No
What changes have been made?

At this time, no changes are deemed necessary.
¹A significant number of catch basing maintenance reports were mis-placed and therefore the quantity of material removed doesn't accurately reflect the total material remove

q) Did your agency remove trash and debris from open channel storm drains a minimum of once per year before the storm season?
No City owned open channels. Yes No

r) How did your agency minimize the discharge of contaminants during MS4 maintenance and clean outs?

City crew is trained to implement the appropriate BMPs to prevent discharge of contaminants to the storm drain system during cleanouts. These BMPs are selected based on the criteria of the specific site, its location, and the type of materials being cleaned.

s) Where is removed material disposed of?

Debris is transported to a sanitary landfill.

6. Streets and Roads Maintenance

- a) Did your agency designate streets and/or street segments within its jurisdiction as one of the following:
- (1) Priority A – streets and/or street segments that are designated as consistently generating the highest volumes of trash and/or litter? Yes No
- (2) Priority B - streets and/or street segments that are designated as consistently generating moderate volumes of trash and/or litter? Yes No
- (3) Priority C – streets and/or street segments that are designated as generating low volumes of trash and/or litter? Yes No
- b) Did your agency perform all street sweeping in compliance with the permit and according to the following schedule:
- (1) Priority A – These streets and/or street segments shall be swept at least two times per month? Yes No
- (2) Priority B - Each Permittee shall ensure that each streets and/or street segments is cleaned at least once per month? Yes No
- (3) Priority C – These streets and/or street segments shall be cleaned as necessary but in no case less than once per year? Yes No

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- c) Did your agency require that saw cutting wastes be recovered and disposed of properly and that in no case shall waste be left on a roadway or allowed to enter the storm drain? Yes No
- d) Did your agency require that concrete and other street and road maintenance materials and wastes be managed to prevent pollutant discharges? Yes No
- e) Did your agency require that the washout of concrete trucks and chutes only occur in designated areas and never into storm drains, open ditches, streets, or catch basins leading to the storm drain system? Yes No
- f) Did your agency train its employees in targeted positions (whose interactions, jobs, and activities affect storm water quality) regarding the requirements of the storm water management program to
- (1) Promote a clear understanding of the potential for maintenance activities to pollute storm water? and Yes No
- (2) Identify and select appropriate BMPs? Yes No

7. Parking Facilities Management

- a) Did your agency ensure that Permittee-owned parking lots be kept clear of debris and excessive oil buildup and cleaned no less than 2 times per month and/or inspected no less than 2 times per month to determine if cleaning is necessary. Yes No
- b) Were any Permittee-owned parking lots cleaned less than once a month? Yes No

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8. Public Industrial Activities Management
- a) Did your agency, for all municipal activity considered an industrial activity under USEPA Phase I storm water regulations, obtain separate coverage under the State of California General Industrial Activities Storm Water Discharge Permit no later than December 31, 2001? N/A
 - b) Does your agency serve a population of less than 100,000 people? Yes No
9. Emergency Procedures
- a) In case of real emergencies, did your agency repair essential public services and infrastructure in a manner to minimize environmental damage?
No real emergencies in the past year Yes No
 - b) Were BMPs implemented to the extent that measures did not compromise public health and safety? N/A Yes No
10. Feasibility Study
- a) Did your agency cooperate with the County Sanitation Districts of Los Angeles County to prepare a study which investigates the possible diversion of dry weather flows or the use of alternative treatment control BMPs? Yes No
 - b) Did your agency review its individual prioritized list and create a watershed based priority list of drains for potential diversion and submit a listing of priority diversions to the Regional Board Executive Officer? Yes No

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C. Illicit Connections and Illicit Discharges (IC/ID) Elimination Program (Part 4.G)

1. Attach a copy of your agency's IC/ID Elimination Implementation Program (Part 4.G.1.a.). Document is attached.
2. Attach a map of your storm drain system showing all permitted connections (if available), and the locations of all illicit connections and discharges that occurred last year (Part 4.G.1.b). If your agency has not completed this requirement, describe the status of the development of a baseline map, including an expected completion date.

The City completed a video survey of the Storm Drain system and a GIS-Shape file with all permitted connections plotted.

Copies are available at the City Engineering office upon request. A pdf copy is attached. No non-permitted connections were found.

Illicit discharge points are also plotted on the same GIS mapping system on the designated layers.

3. Describe your enforcement procedures for eliminating illicit discharges and terminating illicit connections.

The City responds to tips/complaints, in regards to stormwater and urban runoff pollution. Also, while performing routine inspections of applicable NPDES business sites, many discharges and/or connections are detected. NOVs are issued to these businesses when appropriate and educational materials explaining stormwater rules/laws are distributed to help these sites implement proper BMPs in their operations.

Follow-up inspections are conducted to ensure compliance. If compliance is not reached after three letters of violation, the case is referred to the City Attorney for further action.

4. Describe your record keeping system to document all illicit connections and discharges.

Records also imported on the GIS-Shape file map.

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5. What is the total length of open channel that your agency owns and operates? N/A
6. What length was screened last year for illicit connections? N/A
7. What is the total length of closed storm drain that your agency owns and operates? App 14.7 Miles
8. What length was screened last year for illicit connections? 0
9. Describe the method used to screen your storm drains.

Storm Drain System is visually inspected and also with a CCTV for possible illicit connections on an on-going basis.

10. Provide the reporting data for illicit connections as suggested in the following table (you may submit a spreadsheet from your database that contains the information).

Year	Total # reported/ identified	Total # investigated	# that conveyed exempt discharges or NPDES permitted	# that conveyed illicit discharges that were terminated	# that were removed	# that resulted in enforcement action	# that resulted in <i>other</i> actions
01/02	1	1	0	1	1	0	0
02/03	0	0	0	0	0	0	0
03/04	0	0	0	0	0	0	0
04-05	0	0	0	0	0	0	0
05-06	0	0	0	0	0	0	0
06-07	0	0	0	0	0	0	0
07-08	0	0	0	0	0	0	0
08-09	0	0	0	0	0	0	0
09-10	0	0	0	0	0	0	0
10-11	0	0	0	0	0	0	0
11-12	1	1	0	1	1	0	0

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11. Explain any *other* actions that occurred in the last year. N/A

12. What is the average time it takes your agency to initiate an illicit connection investigation after it is reported? 2 hours

a) Were all identified connections terminated within 180 days? N/A Yes No

b) If not, explain why.

13. Provide the reporting data for illicit discharges as suggested in the following table (you may submit a spreadsheet from you database that contains this information).

Year	Total # reported	Total # that were discontinued/ cleaned up voluntarily through enforcement and the source was identified	# that were cleaned up but the source could not be identified	# that resulted in no evidence of discharge	# that were determined to be conditionally exempt	# that were exempt or in compliance and the source identified	# that resulted in enforcement action
01/02	38	37	0	1	0	0	9
02/03	59	59	0	0	0	0	9
03/04	21	21	0	0	0	0	0
04/05	8	8	0	0	0	0	0
05/06	6	6	0	0	0	0	0
06/07	21	21	13	13	0	21	1
07/08	35	35	6	6	0	6	0
08/09	36	36	1	1	0	0	0
09/10	6	6	0	0	0	0	0
10/11	9	9	0	0	0	0	0
11/12	11	11	0	0	0	0	0

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14. What is the average response time after an illicit discharge is reported? 2 hours

c) Did any response times exceed 72 hours? Yes No

d) If yes, explain why.

15. Describe your agency's spill response procedures.

Upon notification of a spill, an inspection/investigation is performed to locate the source and its elimination. An inspector determines what actions/clean-up requirements are necessary to remedy the situation. Nearby catch basins are blocked to prevent the spill from entering the storm drain system. Other agencies that require contacting are notified immediately. Follow-up inspections are conducted to ensure compliance is reached and clean-up is appropriate.

16. What would you do differently to improve your agency's IC/ID Elimination Program?

The current program has proven to be effective. At this time, no changes of the procedures are anticipated.

17. Attach a list of all permitted connections to your storm sewer system.

A GIS map has been developed and completed to collect and plot information obtained in the field after field screening of the storm drain system in the priority area. The City doesn't issue individual permit for connections to the storm drain system however, the review of the video inspection report showed that all connections to the storm drain system are legal and are not considered illicit connections.

V. Monitoring

Briefly describe any storm water monitoring activities that are not required by Order No. 01-182 that your municipality conducted, participated in, or received funding to conduct in the past fiscal year. These activities should correspond with the dollar amount you listed in Table 2.

- *The City as the lead agency for the Jurisdictional Groups five and six, and under the requirements of the Santa Monica Bay Bacteria TMDL Monitoring Plan, had retained a private laboratory to conduct the sampling required and approved by the Regional Board. The monitoring of the proposed sites has been continually managed and reviewed by the City and the group.*

VI. Assessment of Program Effectiveness

A. Attach a summary of the effectiveness of your storm water management program. This summary should include, at a minimum, the following:

1. An assessment of your agency's compliance with permit requirements, based on your responses to the questions in this form.

The City is continually working to ensure compliance by meeting deadlines and/or modifications of policies or procedures. The biggest challenge for the City maybe locating the source of pollution. Research has shown that local conditions such as birds are the biggest contributors to the beach bacteria problem as well as the number of beach goers in the summer which can contribute greatly to the increasing level of the bacteria when the dry-weather sampling is being conducted. The dry weather bacteria TMDL compliance has been accomplished by installation of dry-weather diversions at the outlets. This method is expected to divert the bacteria prior to mixing with the wave wash.

The City obtained a permit from the Los Angeles County Beaches and Harbors Department to install a Dry-Weather diversion facility to stop all discharges from the Sapphire Street storm drain during dry weather year round. This facility was made operational in July 2010.

2. Descriptions of any evaluation methods that your agency uses to determine the effectiveness of your storm water management program.

- The proposed Bacteria TMDL Implementation Plan includes tasks which will help evaluate the effectiveness of the City's program.
- City as part of the SMBBB TMDLs programmatic solutions implementation phase and jointly with the participating Cities has developed a website with an overall goal of educating and raising awareness regarding the urban runoff pollution problem @ www.southbaystormwaterprogram.com The activities of this website has been monitored and analyzed.

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- A pre-program survey was developed to assess the general public knowledge to allow the City evaluate the effectiveness of the program as it evolves. The Cities of Redondo Beach, Manhattan Beach, Hermosa Beach, El Segundo, and Torrance, in conjunction with Los Angeles County and Caltrans to help the public's understanding and raise awareness regarding how pollution reaches the local area beaches and waterways developed a questioner. The goal of this questioner was to guide cities in their attempts to improve the water quality at the beaches and protect both human and animal (environment) populations. This survey was posted on the SouthBayStormwater website under "News" for the public to access and submit.
 - Although, the data may not be directly associated with the Cities' storm water program, the Bacteria TMDL monitoring program may also be perceived as a method to evaluate effectiveness.
3. A summary of the strengths and weaknesses of your agency's storm water management program.
- The City's strength is in the ability to get the involved agencies interested in coordinated efforts in order to get projects moving.*
4. A list of specific program highlights and accomplishments.
- The City is the lead agency for Jurisdictions 5&6 of the SMBBB TMDL, a group effort that developed the joint monitoring and the Implementation Plan to comply with the TMDL's. The Implementation Plan includes Programmatic and structural programs and BMPs. These tasks have been individually distinguished and separately assigned with specific deliverables for proper implementations.
 - The "Restaurant Certification Program" has been launched and developed. The city jointly with the County and the neighboring agencies implemented the "Clean Bay Restaurant Certification Program". This program has been designed to target restaurants and modify the operator's behaviors by providing incentives to encourage the implementation of appropriate BMPs.
 - Other tasks such as outreach to schools, inspector's round table, Parks and Recs activities evaluation and checklist, website design, identifying appropriate speakers, designating targeted audience, developing restaurant and pet waste BMP brochures, website design and installation have been the main accomplishments of the Implementation phase of the Plan.
 - City as part of the SMBBB TMDLs programmatic solutions implementation phase and jointly with the participating Cities has developed a website with an overall goal of educating and raising awareness regarding the urban runoff pollution problem @ www.southbaystormwaterprogram.com The activities of this website has been monitored and analyzed.
 - The City has also started implementing the structural BMP phase of the Plan by conducting initial studies and obtaining samples to determine the most adequate catchments for such BMPs. The study included samples of dry weather at various locations of the storm drain system within the Jurisdictions as wells as samples near the sanitary sewers to determine any possible leakages. A full report of findings is available at the City.

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- The J5/6 agencies have completed Phase I of the Site-Specific Structural BMP management approach of the IP utilizing available grant funding to pilot various structural BMPs. Consistent with Phase II of the Site-Specific Structural BMP management approach of the IP, evaluation of the performance of these pilot projects were completed. Based on experience with the BMP pilot projects, the agencies have decided to move forward with Phase III of the Structural BMP management approach utilizing infiltration-based structural BMPs in the two high priority drainage areas if funds are available. A structural BMP siting study was completed in FY 11/12.
- *The City has inspected the restaurants regularly with the goal of visiting each establishment at least twice per year. This is far above and beyond the NPDES permit requirement of once every thirty months.*
- *The critical sources have also been the target establishments to be inspected by the City at a minimum of once every 30 months*
- *The City has received a state grant for \$600,000 to install structural BMPs designed to reduce the accumulation of trash. The construction of the first BMP continuous deflection system (CDS) was completed in November of 2002. A second CDS unit was installed in Oct. 2003. A Third CDS unit was installed in April 2005 and a fourth was installed in May 2005.*
- *The \$350,000 State Grant was received for improving water quality around the City's Municipal Pier. Improvements funded by the grant include replacing sewer mains under the pier, installation of a fish cleaning station, constructing covered trash enclosures and replace trash receptacles on the pier. Installation of a low flow diversion on a storm drain that discharges under the pier was completed in April 2005.*
- *The City has continued the pet waste awareness program in conjunction with the animal control and pet related businesses (i.e. veterinarians, pet stores). The City's website provides helpful tips for the pet owners. The City has an on-going program to hand out free pet waste collection bags at the City Engineering Counter.*
- *The City's Quarterly Newsletter ads have published information regarding the City's storm water program as well as promoting the various related events and helpful tips.*
- *The Mayor and City Council formed a Water Quality Task Force in August 2005 made up of a diverse cross section of the community include individuals from teachers, youth, boaters, non-profit, general public, chamber of commerce, and harbor businesses. The Task Force is to provide the City Council with recommendations that will address water quality in the harbor and other waterfront areas of the City.*
- *The Green Task Force was established in January 2007, for the purpose of improving community knowledge of environmental topics and encouraging practices which protect the environment. This task force has been served as a model in the region which considers the tremendous growth of interest in green issues and environmental concerns.*
- *The City council approved an increase in the wastewater sewer user fee. This fee increase will help fund new State sewer system operational mandates to reduce sewer overflows.*

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- *The City has obtained a permit from the Los Angeles County Beaches and Harbors Department to install a Dry-Weather diversion facility to stop all discharges from the storm drain during summer.*
- *The City has completed the installation of two pilot projects in the harbor area. These projects include the installation of trash filters in the drain inlets and re-routing roof gutters on the pier so that they don't directly discharge in to the ocean. Construction was completed in February 2010*
- *The City has worked with the Sanitation District and the Los Angeles Conservation Corps to conduct a study of ocean water quality around the pier in order to identify the source or sources of bacteria. This study was completed in February 2010.*
- *The City adopted the Non-Smoking Beach Ordinance*
- *The City has installed thirty eight (38) smart manhole covers that monitor the sewer level and alarm the City when the level rises.*
- *The City completed the installation of a low flow diversion facility on the Sapphire Street storm drain during dry weather year round. The facility diverts summer and winter dry weather flow through a biofiltration (Filterra tree basin) before it is infiltrated into the ground.*
- *Rain Water Harvesting is an important means of helping meet the water needs of Southern California. The City installed a facility to capture rainwater that has been operating since May 2011. This facility has diverted dry weather flow for infiltration into the ground. However due to problems with the storage tank water has not been captured for use of irrigating Alta Vista Park. The facility can divert and capture up to six million gallons of rain water a year for irrigation use or infiltration into the underground soils. Diversions from the storm drain system will reduce the amount of rain water, along with the bacteria and other pollutants it carries, from being discharged into the Santa Monica Bay – thus improving water quality and reducing the number of days bacteria concentrations in the water exceed healthful standards. Since December 2011, when diversion recorder keeping began, the facility has diverted 1.6 million gallons of rain water and urban runoff.*

5. A description of water quality improvements or degradation in your watershed over the past fiscal year.

As part of the Santa Monica Bay Beach Bacteria TMDL – Dry Weather, the City conducts water quality monitoring at five locations. These locations could potentially receive dry weather runoff from watersheds that partially or in whole are within the boundaries of Redondo Beach.

The improvement and/or degradation of the water quality can be better assessed after implementing the BMPs as tasked in the Plan. The ongoing monitoring will be reviewed to address the changes in the water quality as the Implementation Plan progresses into reducing the target pollutants.

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6. Interagency coordination between cities to improve the storm water management program.

The City continues to coordinate with the municipalities in Jurisdiction five and six of the SMBBB TMDL to ensure cooperation amongst agencies as the monitoring and Implementation plan phases continue.

7. Future plans to improve your agency's storm water management program.

The focus of the City's future plan is to continue implementing the tasks of the Bacteria TMDL implementation Plan as the group effort.

8. Suggestions to improve the effectiveness of your program or the County model programs.

Suggestions will be made through the Permit negotiations and ROWD process

- B. On a scale of 1 to 10 (10 being full implementation of requirements by their deadlines), rate your municipality's level of compliance with Order No. 01-182.

10

- C. List any suggestions your agency has for improving program reporting and assessment.

Avoid duplications of the questions; delete questions regarding the expired programs.

Certification Statement

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted.

Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility, of a fine and imprisonment for knowing violations.

Executed on the 29th day of August, 2012 at Redondo Beach

Printed Name: Steve Huang Title: City Engineer

 Pdf copy of the Signature Sheet is attached.

Signature by duly authorized representative