ATTACHMENT C

2012 MS4 PERMIT IMPLEMENTATION

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Summary of the Implementation of the 2012 MS4 Permit Requirements

This Attachment contains information about the Los Angeles County Flood Control District's activities with respect to the following:

Discharge Prohibitions	C-1
Watershed Management Programs Activities	C-1
Minimum Control Measures	C-2
Coordinated Integrated Monitoring Program Activities	C-2
Responses to 2012 MS4 Permit Attachment E Parts XVII and XVIII	C-3

Discharge Prohibitions

The Los Angeles County Flood Control District (LACFCD) code prohibits all non-authorized non-stormwater discharges through its MS4. The LACFCD continues to implement a program to permit authorized discharges directly into its system. Permits are required for all discharge connections into LACFCD facilities. The permit requires dischargers to notify the LACFCD in advance of scheduled discharges and to implement any necessary Best Management Practices.

In a letter dated November 5, 2014, the LACFCD requested that drinking water suppliers (DWS) submit applicable records for discharges over 100,000 gallons from December 28, 2012, to June 30, 2014. Responses were received from 25 DWS and are tracked in an Excel spreadsheet. Available monitoring results are below applicable water quality standards. The LACFCD is finalizing another letter to DWS to solicit records for discharges between July 1, 2014, and June 30, 2015.

Watershed Management Programs Activities

The 2012 MS4 Permit allows permittees the option to customize their stormwater programs through development of Watershed Management Programs (WMPs) or Enhanced Watershed Management Programs (EWMPs) to comply with applicable receiving water limitations and water quality-based effluent limits. The EWMPs are multi-jurisdictional integrated plans that comprehensively evaluate opportunities for multi-benefit regional projects that capture non-stormwater and stormwater runoff within a defined watershed management area. In addition, WMPs and EWMPs will include customized stormwater and non-stormwater discharge reduction strategies, a Coordinated Integrated Monitoring Plan, Best Management Practices, and a Reasonable Assurance Analysis. This section summarizes the LACFCD's activities related to the WMPs and EWMPs.

WMPs

In June 2014, the LACFCD, along with other agencies, submitted draft WMPs to the Regional Board for approval for the following groups. All six WMPs were approved by August 2015.

1. Los Angeles River Upper Reach 2 Sub Watershed Group
2. Lower Los Angeles River Watershed Group
3. Lower San Gabriel River Watershed Group
4. Los Cerritos Channel Watershed Group
5. Alamitos Bay/Los Cerritos Channel Group
6. Santa Monica Bay J7 Group

EWMPs

In June 2015, the LACFCD, along with other agencies, submitted draft EWMPs to the Regional Board for approval for the following groups:

1. Upper Santa Clara River Watershed Group
2. Upper Los Angeles River Watershed Group
3. Rio Hondo/San Gabriel River Water Quality Group
4. Upper San Gabriel River EWMP Group
5. Malibu Creek Watershed Group
6. Marina del Rey Watershed Group
7. North Santa Monica Bay Coastal Watershed Group
8. Beach Cities Watershed Management Group
9. Santa Monica Bay Jurisdictional Groups 2 and 3
10. Peninsula EWMP Agencies
11. Ballona Creek Watershed Group
12. Dominguez Channel Watershed Management Area Group

The LACFCD prepared a Program Environmental Impact Report (PEIR) for the EWMP Final Plans to assess potential environmental impacts from the EWMP projects. The Draft PEIR was prepared on January 2015 and the final PEIR was prepared in May 2015 and incorporated all comments from over 60 stakeholders. The PEIR was certified by the County of Los Angeles Board of Supervisors on May 2015. More information can be obtained at www.LACoH2Osheds.com.

Technical Advisory Committee

The LACFCD attended all Technical Advisory Committee meetings held during this reporting period.

Stakeholder Outreach

The LACFCD participated in all stakeholder outreach meetings conducted by the WMP and EWMP Groups of which it is a member. The purpose of the meetings was to inform interested stakeholders of the WMP/EWMP process and to solicit project ideas for each of the watershed management areas.

Minimum Control Measures

The LACFCD continues to implement its stormwater quality management program (SQMP), now referred to as the Minimum Control Measures (MCMs), as required under the 2001 MS4 Permit. The LACFCD will continue to implement its SQMP until the WMPs and EWMPs the LACFCD is participating in are approved by the Regional Board. In the meantime, the LACFCD is developing strategies, procedures, and manuals for implementation of the MCMs required by the 2012 MS4 Permit.

Coordinated Integrated Monitoring Program Activities

In June 2014, the LACFCD along with other agencies submitted draft Coordinated Integrated Monitoring Program (CIMP) Plans for the following groups:

1. Upper Santa Clara River Watershed Group
2. Upper Los Angeles River Watershed Group
3. Los Angeles River Upper Reach 2 Sub Watershed Group
4. Lower Los Angeles River Watershed Group
5. Rio Hondo/San Gabriel River Water Quality Group
6. Upper San Gabriel River EWMP Group
7. Malibu Creek Watershed Group
8. Marina del Rey Watershed Group
9. North Santa Monica Bay Coastal Watersheds Group
10. Santa Monica Bay Jurisdictional Groups 2 and 3
11. Peninsula EWMP Agencies
12. Ballona Creek Watershed Group
13. Dominguez Channel Watershed Management Area Group
14. Lower San Gabriel River Watershed Group
15. Los Cerritos Channel Watershed Group
16. Alamitos Bay/Los Cerritos Channel Group
17. Santa Monica Bay J7 Group
18. Beach Cities Watershed Management Group

Fourteen of the CIMPs have been approved or conditionally approved and various watershed groups have started implementing the Non-Stormwater Screening portion of their approved CIMPs in order to meet interim source identification milestones and Bacteria TMDL requirements in the 2012 MS4 Permit. Additional information can be found in the Attachment C Exhibits.

Response to 2012 MS4 Permit Attachment E Part XVII

The information requested in Part XVII of Attachment E of the 2012 MS4 Permit has been provided in the approved plans for the WMPs and the submitted draft plans for the EWMPs that the LACFCD is participating in.

Responses to 2012 MS4 Permit Attachment E Part XVIII

XVIII.A.1 Storm Water Control Measures

a. Estimated cumulative change in percent Effective Impervious Area and change in storm water runoff volume during the 85th percentile storm event

   The Planning and Land Development Program is not applicable to the LACFCD because the LACFCD does not have land use jurisdiction.

b. Summary of New Development/Re-development Projects constructed within the Permittee's jurisdictional area during the reporting year.

   The Planning and Land Development Program is not applicable to the LACFCD because the LACFCD does not have land use jurisdiction.

c. Summary of Retrofit Projects that reduced or disconnected impervious areas from the MS4 during the reporting year.

   The LACFCD did not complete any projects that reduced or disconnected impervious areas from the MS4 during this reporting year.

d. Summary of other projects designed to intercept storm water runoff prior to discharge to the MS4 during the reporting year.

- **In September 2014, the LACFCD completed construction of the Los Angeles River Headwaters Project located in Canoga Park. This project revitalized 2.5 miles of previously restricted right-of-way into a greenway for the public in a highly urbanized area and uses bioswales and rain gardens to reduce runoff to the River.**

- **In July 2014, the LACFCD completed construction of the North Valleyheart Greenway Project located in Studio City and is a multi-benefit project that provides habitat restoration and water conservation benefits with drought-tolerant landscaping, recreational benefits with 0.5 miles of continuous pedestrian paths, educational opportunities through interpretive signage, and aesthetic enhancements through decorative fencing, rest area amenities, and artwork.**

e. For the projects summarized above in 1.b through 1.d, estimate the total runoff volume retained on site by the implemented projects.

The total runoff volume retained onsite at implemented projects is unavailable at this time.

f. Summary of actions taken in compliance with TMDL implementation plans or approved Watershed Management Programs to implement TMDL provisions in Part VI.E and Attachments L-R of this Order.

See Attachment K for a summary of TMDL related activities.

g. Summary of riparian buffer/wetland restoration projects completed during the reporting year.

During this reporting year, the LACFCD did not complete any riparian buffer or wetland restoration projects.

h. Summary of other Minimum Control Measures implemented during the reporting year, as the Permittee deems relevant.

See Form U-4.

i. Status of multi-year efforts that were not completed in the current year and will therefore continue into subsequent years.

Oxford Retention Basin Multiuse Enhancement Project
This project is an enhancement of the existing Oxford Retention Basin. The project will improve circulation within the basin, enhance flood protection, improve the quality of plant and wildlife habitat within the facility, and provide aesthetic and recreational enhancements. The initial tree clearing activities commenced on December 11, 2014, and was completed by January 15, 2015. The project plans were finalized on February 5, 2015, and a contract was awarded in May 2015. In June 2015, construction equipment was mobilized, sediment along the banks was removed, and steps to dewater the basin commenced.

Rory M. Shaw Wetlands Park Project

This partnership project between the LACFCD and the City of Los Angeles will convert a 46-acre inert debris landfill into a multi-benefit wetlands park in the Sun Valley Watershed. The project will create a 21-acre detention pond, 15 acres of open space, and 10 acres of wetlands habitat to provide flood protection, recreational opportunities, water quality improvements, habitat restoration, and groundwater recharge. The project is at 60 percent design and construction is estimated to begin in April 2017.

XVIII.A.2 Effectiveness Assessment of Storm Water Control Measures

a. Rainfall summary for the reporting year

The LACFCD collects rainfall data at the following LACFCD Receiving Water Mass Emission Stations and Malibu Creek tributary sites:

- **Ballona Creek (S01)**
- **Coyote Creek (S13)**
- **Dominguez Channel (S28)**
- **Los Angeles River at Wardlow (S10)**
- **Malibu Creek (S02)**
- **San Gabriel River (S14)**
- **Santa Clara River (S29)**
- **Cheseboro Canyon (TS26)**
- **Liberty Canyon (TS29)**
- **Lower Lindero Creek (TS27)**
- **Medea Creek (TS28)**
- **Upper Las Virgenes Creek (TS25)**

The table below provides a summary of the rainfall data at those sites.

Summary of rainfall between July 1, 2014, and June 30, 2015

2014-2015	S01	S02	S10	S13	S14	S28	S29	TS25	TS26	TS27	TS28	TS29	TS30
Total No. of Storm events*	9	8	9	10	11	9	3	4	4	4	4	4	4
Highest Volume Event (in./24hr.)	1.31	1.93	1.09	1.31	2.01	1.29	2.6	2.01	2.01	2.01	2.01	2.01	2.01
Highest No. of consecutive days of rainfall	2	2	2	2	2	2	2	2	2	2	2	2	2
Total rainfall (in.)	5.81	10.14	6.52	6.21	9.12	7.84	6.28	5.63	5.63	5.63	5.63	5.63	5.63

*** including TSS only events**

b. Provide a summary table describing rainfall during storm water outfall and wet-weather receiving water monitoring events

Outfall monitoring has not commenced as of June 30, 2015.

The table below provides a summary of rainfall during wet-weather receiving water monitoring events.

Event ID	Date	Station Name	WRD Rain Gauge[1]	Storm Start Time (AM/PM)	Storm Duration (hours)	15 min. highest storm intensity (in./hour)	Total storm volume (in.)	Span between sample event and previous event (hours)
2014-15Event04	10/31/2014	Ballona Creek (S01)	370	11:00 PM	8.00	0.40	0.37	4,512
2014-15Event04	10/31/2014	L.A. River at Wardlow (S10)	314	11:30 PM	24.00	0.24	0.25	4,512
2014-15Event04	10/31/2014	Coyote Creek (S13)	326	8:30 PM	11.00	0.36	0.35	4,512
2014-15Event04	10/31/2014	San Gabriel River (S14)	416	9:30 PM	20.00	0.96	0.75	4,512
2014-15Event04	10/31/2014	Dominguez Channel (S28)	315	8:00 PM	28.00	0.40	0.37	4,512
2014-15Event04	10/31/2014	Santa Clara River (S29)	406	10:30 PM	7.00	0.80	0.51	4,512
2014-15Event04	10/31/2014	Upper Las Virgenes Creek (TS25)	317[2]	10:15 PM	8.00	0.94	0.47	5,928
2014-15Event04		Cheseboro Canyon (TS26)			0.00	0.94	0.47	5,928
2014-15Event04		Lower Lindero Creek (TS27)			0.00	0.94	0.47	5,928
2014-15Event04		Medea Creek (TS28)			0.00	0.94	0.47	5,928
2014-15Event04		Liberty Canyon Creek (TS29)			0.00	0.94	0.47	5,928
2014-15Event04		PD 728 @ Foxfield Drive (TS30)			0.00	0.94	0.47	5,928
2014-15Event08	11/30/2014	Ballona Creek (S01)	370/375†	3:45 PM	4/4†	0.44/0.32†	0.17/0.26†	720
2014-15Event08	11/30/2014	Malibu Creek (S02)	319	9:45 AM	12.00	0.47	0.98	720
2014-15Event08	11/30/2014	Coyote Creek (S13)	326	12:45 PM	17.00	0.72	0.80	720
2014-15Event08	11/30/2014	San Gabriel River (S14)	416	10:15 AM	21.00	0.32	0.28	720
2014-15Event08	11/30/2014	Upper Las Virgenes Creek (TS25)	317[2]	9:00 AM	13.25	0.47	1.18	720
2014-15Event08		Cheseboro Canyon (TS26)			0.00	0.47	1.18	720
2014-15Event08		Lower Lindero Creek (TS27)			0.00	0.47	1.18	720
2014-15Event08		Medea Creek (TS28)			0.00	0.47	1.18	720
2014-15Event08		Liberty Canyon Creek (TS29)			0.00	0.47	1.18	720
2014-15Event08		PD 728 @ Foxfield Drive (TS30)			0.00	0.47	1.18	720
2014-15Event09	12/2/2014	Ballona Creek (S01)	370	7:15 AM	47.00	0.24	1.06	48

Event ID	Date	Station Name	WRD Rain Gauge[1]	Storm Start Time (AM/PM)	Storm Duration (hours)	15 min. highest storm intensity (in./hour)	Total storm volume (in.)	Span between sample event and previous event (hours)
2014-15Event09	12/2/2014	Malibu Creek (S02)	319	7:30 AM	32.00	0.47	2.07	48
2014-15Event09	12/2/2014	L.A. River at Wardlow (S10)	314	8:00 AM	39.00	0.44	1.65	48
2014-15Event09	12/2/2014	Coyote Creek (S13)	326	8:00 AM	39.00	1.00	1.72	48
2014-15Event09	12/2/2014	San Gabriel River (S14)	416	10:30 AM	35.00	0.48	1.84	48
2014-15Event09	12/2/2014	Dominguez Channel (S28)	315	7:45 AM	44.00	0.36	2.12	48
2014-15Event09	12/2/2014	Santa Clara River (S29)	406	7:00 AM	35.00	0.64	3.00	48
2014-15Event09	12/2/2014	Upper Las Virgenes Creek (TS25)	317[2]	6:45 AM	32.25	0.31	1.89	48
2014-15Event09		Cheseboro Canyon (TS26)				0.31	1.89	48
2014-15Event09		Lower Lindero Creek (TS27)				0.31	1.89	48
2014-15Event09		Medea Creek (TS28)				0.31	1.89	48
2014-15Event09		Liberty Canyon Creek (TS29)				0.31	1.89	48
2014-15Event09		PD 728 @ Foxfield Drive (TS30)				0.31	1.89	48
2014-15Event10	12/12/2014	Ballona Creek (S01)	370	12:00 AM	17.00	0.88	1.33	240
2014-15Event10	12/11/2014	Malibu Creek (S02)	319	10:00 PM	12.00	1.10	1.64	240
2014-15Event10	12/12/2014	L.A. River at Wardlow (S10)	314	3:45 AM	5.00	1.60	1.13	240
2014-15Event10	12/12/2014	Coyote Creek (S13)	326	4:00 AM	27.00	2.12	1.32	240
2014-15Event10	12/12/2014	San Gabriel River (S14)	416	2:00 AM	9.00	1.56	1.99	240
2014-15Event10	12/12/2014	Dominguez Channel (S28)	315	3:30 AM	31.00	1.60	1.19	240
2014-15Event10	12/11/2014	Santa Clara River (S29)	406	10:30 PM	10.00	2.04	2.77	240
2014-15Event10	12/11/2014	Upper Las Virgenes Creek (TS25)	317[2]	10:15 PM	10.00	1.26	2.09	240
2014-15Event10		Cheseboro Canyon (TS26)				1.26	2.09	240
2014-15Event10		Lower Lindero Creek (TS27)				1.26	2.09	240
2014-15Event10		Medea Creek (TS28)				1.26	2.09	240
2014-15Event10		Liberty Canyon Creek (TS29)				1.26	2.09	240
2014-15Event10		PD 728 @ Foxfield Drive (TS30)				1.26	2.09	240
2014-15Event11	12/16/2014	Ballona Creek (S01)	370	1:00 AM	27.00	0.28	0.61	72
2014-15Event11	12/16/2014	Malibu Creek (S02)	319	1:45 AM	25.00	3.15	0.62	72
2014-15Event11	12/16/2014	L.A. River at Wardlow (S10)	314	3:45 AM	24.00	0.96	0.96	72
2014-15Event11	12/16/2014	Coyote Creek (S13)	326	4:30 AM	24.00	0.88	0.37	72

Event ID	Date	Station Name	WRD Rain Gauge[1]	Storm Start Time (AM/PM)	Storm Duration (hours)	15 min. highest storm intensity (in./hour)	Total storm volume (in.)	Span between sample event and previous event (hours)
2014-15Event11	12/16/2014	San Gabriel River (S14)	416	2:30 PM	16.00	0.64	0.78	72
2014-15Event11	12/16/2014	Dominguez Channel (S28)	315	3:45 AM	35.00	0.72	0.99	72
2014-15Event12	12/30/2014	Ballona Creek (S01)	370	4:30 PM	3.00	0.20	0.26	384
2014-15Event14	1/10/2015	Ballona Creek (S01)	370	11:30 AM	20.00	0.28	1.08	240
2014-15Event14	1/10/2015	Malibu Creek (S02)	319	11:00 AM	21.00	0.31	1.64	240
2014-15Event14	1/10/2015	L.A. River at Wardlow (S10)	314	11:30 AM	24.00	0.16	0.78	240
2014-15Event14	1/10/2015	Coyote Creek (S13)	326	9:15 AM	28.00	0.12	0.66	240
2014-15Event14	1/10/2015	San Gabriel River (S14)	416	6:15 PM	30.00	0.32	0.70	240
2014-15Event14	1/10/2015	Dominguez Channel (S28)	315	11:30 AM	24.00	0.48	0.94	240
2014-15Event20	2/22/2015	Ballona Creek (S01)	370	4:00 PM	4.00	0.36	0.47	288
2014-15Event20	2/22/2015	Malibu Creek (S02)	319	1:30 PM	7.00	0.79	0.39	288
2014-15Event20	2/22/2015	L.A. River at Wardlow (S10)	314	4:30 PM	13.00	0.76	0.37	288
2014-15Event20	2/22/2015	Coyote Creek (S13)	326	5:00 PM	6.00	0.40	0.41	288
2014-15Event20	2/22/2015	San Gabriel River (S14)	416	12:15 PM	27.00	0.32	1.29	288
2014-15Event21	3/1/2015	Malibu Creek (S02)	319	12:15 AM	22.00	0.79	1.91	168
2014-15Event21	3/1/2015	L.A. River at Wardlow (S10)	314	2:00 AM	24.00	0.72	0.75	168
2014-15Event21	2/2/2015	Coyote Creek (S13)	326	10:30 PM	4.00	0.72	0.32	168
2014-15Event21	2/28/2015	San Gabriel River (S14)	416	7:15 PM	15.00	0.32	0.28	168
2014-15Event21	3/1/2015	Dominguez Channel (S28)	315	11:30 PM	24.00	1.00	1.07	168
2014-15Event22	4/6/2015	San Gabriel River (S14)	416	5:00 PM	2.00	0.32	0.43	888
2014-15Event22	4/7/2015	Dominguez Channel (S28)	315	6:30 PM	4.00	0.36	0.27	888
2014-15Event25	5/8/2015	L.A. River at Wardlow (S10)	314	11:45 PM	5.00	0.12	0.10ϕ	720
2014-15Event25	5/8/2015/ 5/7/2015†	Coyote Creek (S13)	326/327†	7:45AM/ 8:15 PM†	9/17†	0.04/ 0.48†	0.02/0.62†	720
2014-15Event25	5/7/2015	San Gabriel River (S14)	416	8:00 PM	8.00	0.16	0.15ϕ	720
2014-15Event25	5/8/2015	Dominguez Channel (S28)	315	1:15 AM	7.00	0.20	0.21ϕ	720
2014-15Event28	5/14/2015	Ballona Creek (S01)	370	11:30 AM	19.00	1.04	0.37	168
2014-15Event28	5/14/2015	Malibu Creek (S02)	319	12:30 PM	17.00	1.73	0.89	168
2014-15Event28	5/14/2015	L.A. River at Wardlow (S10)	314	11:45 AM	23.00	0.40	0.53	168

Event ID	Date	Station Name	WRD Rain Gauge[1]	Storm Start Time (AM/PM)	Storm Duration (hours)	15 min. highest storm intensity (in./hour)	Total storm volume (in.)	Span between sample event and previous event (hours)
2014-15Event28	5/14/2015	Coyote Creek (S13)	327‡	12:15 PM	21.00	0.48	0.44	168
2014-15Event28	5/14/2015	San Gabriel River (S14)	416	12:30 PM	9.00	0.32	0.63	168
2014-15Event28	5/14/2015	Dominguez Channel (S28)	315	11:30 AM	22.00	0.40	0.68	168

Notes:

1 - The rain gauges used are maintained by the County of Los Angeles Department of Public Works' Water Resources Division

2 - Rain gauge 317 is the only gauge in the subwatershed for all Malibu tributary monitoring sites.

†Due to less than <0.25 inches recorded at rain gauge, additional nearby rain gauge total precipitation, rainfall duration and average rainfall intensity included.

‡ Data from rain gauge 326 not available, data from a nearby station (327) used for this event.

c. Where control measures were designed to reduce impervious cover or storm water peak flow and flow duration, provide hydrographs and flow data of pre- and post-control activity for the 85th percentile, 24-hour event, if available.

Hydrographs for pre- and post-control activity for the 85th percentile, 24-hour rain events are not available.

d. For natural drainage systems, develop a reference watershed flow duration curve and compare it to a flow duration curve for subwatershed under current conditions.

Reference flow duration curves have not been developed for the various watersheds with natural drainage systems. It is expected that this will be provided in future annual reports prepared by WMP and EWMP Groups.

e. Provide an assessment as to whether the quality of storm water discharges as measured at designed outfalls is improving, staying the same, or declining.

Stormwater outfall monitoring had not begun as of June 30, 2015. This assessment is expected to be completed in future reporting years.

f. Provide an assessment as to whether wet-weather receiving water quality within the jurisdiction of the Permittee is improving, staying the same, or declining, when normalized for variations in rainfall patterns.

As a subjective assessment, wet weather receiving water quality appears to be staying the same. It is expected that more detailed analyses will be performed on a watershed basis in future annual reports after a consistent assessment framework and approach has been established among the various WMP and EWMP groups.

g. Status of multi-year efforts, including TMDL implementation, that were not completed in the current year and will continue into the subsequent year(s).

Please refer to XVIII.A.1.i above.

XVIII.A.3. Non-Storm Water Control Measures

a. through g. Outfall screening

- **Upper Santa Clara River – Results of the non-stormwater outfall screening will be submitted in the next Annual Report.**
- **Los Angeles River Upper Reach 2 – Refer to the Watershed Area Information Summary submitted as part of the Los Angeles River Upper Reach 2 Watershed Management Area 2014-2015 Reporting Period Annual Report.**
- **Rio Hondo/San Gabriel River – Refer to the Watershed Information Summary submitted as part of the Rio Hondo/San Gabriel River Water Quality Group 2014-2015 Reporting Period Annual Report.**
- **Marina del Rey EWMP – Non-stormwater screening was not conducted as major outfalls are all submerged in this watershed. However, thirteen catch basins are being observed weekly for non-stormwater contributions per the Marina del Rey**

Bacteria TMDL Time Schedule Order (TSO). The Marina del Rey Bacteria TMDL TSO Annual Report, which includes the observations, will be submitted by December 15, 2015, separately from the County's Annual Report.

- **Santa Monica Bay J2/J3 – All the major outfalls along the Santa Monica Bay J2/J3 are serviced by Low Flow Diversions, so there are no significant non-stormwater discharges. The Santa Monica Bay J2/J3 group will confirm this and plans to screen the major outfalls per the approved CIMP after July 1, 2015.**
- **Beach Cities - All the major outfalls along the Beach Cities are serviced by Low Flow Diversions, so there are no significant non-stormwater discharges. The Beach Cities group will confirm this and plans to screen the major outfalls per the approved CIMP after July 1, 2015.**
- **Ballona Creek – The Outfall Screening Plan per the Ballona Creek Bacteria TMDL was submitted in April 2013 as the Ballona Creek's non-stormwater screening plan. The initial screening was performed in June 2012. Since that time, screening activities have been placed on hiatus due to the uncertainty of the Ballona Creek Bacteria TSO, which was adopted in May 2015. The Ballona Creek Group plans to continue screenings per the approved CIMP after July 1, 2015.**
- **Santa Monica Bay J7 (City of LA) – The group plans to screen the major outfalls per the approved CIMP after July 1, 2015.**

See the Attachment C Exhibits for the status of the outfall screening by the other WMP and EWMP Groups.

h. Status of multi-year efforts to be continued in subsequent years.

Project Name	Description
LACFCD Low Flow Diversion System-wide Upgrade	**The LACFCD is in the process of upgrading its low flow diversions with modern components and an enhanced telemetry system. The goal of the project is to reduce the number of bypasses and the amount of downtime. Upgrades have been completed at five low flow diversions; project completion is expected by December 2016.**
Los Angeles River Bacteria TMDL Load Reduction Strategy (LRS) for Segment B	**Outfall drainage area assessment for areas tributary to Segment B has been completed. The Final LRS Report was submitted on June 25, 2015, as an attachment to the Upper Los Angeles River Watershed Group EWMP plan.**

XVIII.A.4. Effectiveness Assessment of Non-Storm Water Control Measures

a. Provide an assessment as to whether receiving water quality within the jurisdiction of the Permittee is impaired, improving, staying the same, or declining during dry weather.

The measures that have been implemented to control non-stormwater discharges have resulted in noticeable improvements in dry weather receiving water quality in some instances but not in others. Where water quality has not improved, the LACFCD is

committed to working with its co-Permittees through the WMP/EWMPs' adaptive management process to implement additional control measures where appropriate.

b. Provide an assessment of the effectiveness of the Permittee's control measures effectively prohibiting non-storm water discharges through the MS4 to receiving waters

The LACFCD prohibits all unauthorized non-stormwater discharges through its MS4. The outfall screening program is expected to further reduce non-exempt discharges through the MS4.

c. Status of multi-year efforts to be continued in subsequent years

Please refer to XVIII.A.1.i above.

XVIII.A.5. Integrated Monitoring Compliance Report

a. Provide an Integrated Monitoring Repot that summarized all identified exceedances of (1) outfall-based storm water monitoring data, (2) wet weather receiving water monitoring data, (3) dry weather receiving water monitoring data, and (4) non-storm water outfall monitoring data against all applicable receiving water limitation, water quality-based effluent limitations, non-storm water action levels, and aquatic toxicity thresholds as defined in Sections XII.F. and G of the MRP.

For results of wet weather and dry weather receiving water monitoring, please refer to Attachment J - LACFCD Annual Stormwater Monitoring Report. For the status of the outfall screening, please refer to the response to Part XVIII.A.3.a through g of this report and the Attachment C Exhibits.

b. through d. Aquatic Toxicity, Actions to address exceedances

Fourteen of the CIMPs were approved or conditionally approved during the final months of the reporting period. Outfall monitoring and aquatic toxicity monitoring have not commenced. Any exceedances in the outfall or aquatic toxicity monitoring will be addressed in future annual reports.

XVIII.A.6. Adaptive Management Strategies

a. Identify the most effective control measures and describe why the measures were effective and how other control measures will be optimized based on past experiences.

Low flow diversions (LFDs) have been effective in reducing and/or eliminating non-stormwater runoff into the receiving waters. LFDs are effective since these systems directly divert discharges to the sanitary sewer system and thus reduce pollutant loadings. As determined in the WMPs and EWMPs, other control measures may be modified as appropriate.

b. Identify the least effective control measures and describe why the measures were deemed ineffective and how the control measures will be modified or terminated.

LACFCD continues to implement the minimum control measures as specified under the 2001 MS4 NPDES Permit. Future plans to assess and modify any control measures will be as determined in the WMPs and EWMPs.

c. Identify significant changes to control measures during the prior year and the rationale for the changes.

The LACFCD did not make significant changes during this reporting period.

d. Describe all significant changes to control measures anticipated to be made in the next year and the rationale for the changes. Those changes requiring approval of the Regional Water Board or its Executive Office shall be identified at the beginning of the Annual Report.

Modifications to the minimum control measures, if any, are included in the WMPs and EWMPs.

e. Include a detailed description of control measures to be applied to New Development or Re-development projects disturbing more than 50 acres.

The LACFCD did not have any new development or redevelopment projects that disturbed 50 or more acres.

f. Provide the status of all multi-year efforts that were not completed.

Please see response to Part XVIII.A.3.h of this report for a list and status of multi-year efforts.

XVIII.A.7. Supporting Data and Information

a. All monitoring data and associated meta data used to prepare the Annual Report shall be summarized in an Excel spreadsheet and sorted by watershed, subwatershed and monitoring station/outfall identifier linked to the subwatershed map. The data summary must include the date, sample type (flow-weighted composite, grab, field measurement), sample state and stop times, parameter, analytical method, value, and units. The date field must be linked to a database summarizing the weather data for the sampling date including 24-hour rainfall, rainfall intensity, and days since the previous rain event.

Please refer to Attachment K - Summary of TMDL Related Activities. The LACFCD will work with its WMP and EWMP partners on the compilation of pertinent monitoring data and associated metadata used to prepare future watershed-specific annual reports.

b. Optional. The Permittee may at its option, provide an additional detailed summary table of control measures that are not otherwise described in the reporting requirements.

None at this time.