INTEGRATED MONITORING PROGRAM

City of El Monte, California

January 2016

City of El Monte

Department of Public Works

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ACRONYMS AND ABBREVIATIONS

Basin Plan	Water Quality Control Plan for the Coastal Watersheds of Los Angeles and Ventura Counties
BMP	Best Management Practices
CCR	California Code of Regulations
CEDEN	California Environmental Data Exchange Network
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
City	City of El Monte
CTR	California Toxics Rule
CWA	Clean Water Act
CWC	California Water Code
Discharger	Los Angeles County MS4 Permittee
DMR	Discharge Monitoring Report
DNQ	Detected But Not Quantified
ELAP	California Department of Public Health Environmental Laboratory Accreditation Program
EWMP	Enhanced Watershed Management Program
GIS	Geographical Information System
gpd	gallons per day
HUC	Hydrologic Unit Code
IC/ID	Illicit Connection and Illicit Discharge Elimination
LA	Load Allocations
LACDPW	Los Angeles County Department of Public Works
LID	Low Impact Development

µg/L	micrograms per Liter
MCM	Minimum Control Measure
mg/L	milligrams per Liter
MDEL	Maximum Daily Effluent Limitation
MRP	Monitoring and Reporting Program
MS4	Municipal Separate Storm Sewer System
ND	Not Detected
NPDES	National Pollutant Discharge Elimination System
NTR	National Toxics Rule
Ocean Plan	Water Quality Control Plan for Ocean Waters of California
Order	Order R4-2012-0175 (“the Los Angeles County MS4 Permit”)
Permittee	Agency named in Order as being responsible for permit conditions within its jurisdiction
PIPP	Public Information and Participation Program
POTW	Publicly Owned Treatment Works
QA	Quality Assurance
QA/QC	Quality Assurance/Quality Control
RAA	Reasonable Assurance Analysis
Regional Water Board	California Regional Water Quality Control Board, Los Angeles Region
SIC	Standard Industrial Classification
State Water Board	California State Water Resources Control Board
SWQDv	Storm Water Quality Design Volume
TAC	Technical Advisory Committee
TMDL	Total Maximum Daily Load

TOC	Total Organic Carbon
TSS	Total Suspended Solids
USEPA	United States Environmental Protection Agency
WDR	Waste Discharge Requirements
WDID	Waste Discharge Identification
WLA	Waste Load Allocations
WMA	Watershed Management Area
WMP	Watershed Management Program
WQBELs	Water Quality-Based Effluent Limitations
WQO	Water Quality Objective
WQS	Water Quality Standards

EXECUTIVE SUMMARY

The Clean Water Act and Title 40 of the Code of Federal Regulations require that all National Pollutant Discharge Elimination Systems (NPDES) Permits include monitoring and reporting requirements. The California Regional Water Quality Control Board, Los Angeles Region (Regional Water Board) is authorized by California Water Code Section 13383 to issue NPDES Permits and has issued Order R4-2102-0175 (Order) which applies to the City of El Monte (City). Attachment E of the Order includes the requirements for the City to develop and implement a Monitoring and Reporting Program (MRP). This document contains that program.

The primary objectives of the MRP are to:

- Characterize pollutant loads in MS4 discharges.
- Identify sources of pollutants in MS4 discharges.
- Assess the chemical, physical, and biological impacts of discharges from the municipal storm water sewer system (MS4) on receiving waters.
- Assess compliance with RWLs and WQBELs established to implement TMDL wet weather and dry weather WLAs.
- Measure and improve the effectiveness of pollutant controls implemented under the current Order.

The Order provides the flexibility to allow the City to develop an Integrated Monitoring Program (IMP) or Coordinated Integrated Monitoring Program (CIMP) to satisfy the monitoring requirements of the MRP. Permittees are encouraged to coordinate monitoring efforts on a watershed or subwatershed basis to leverage monitoring resources in an effort to increase cost-efficiency and effectiveness and to closely align monitoring with TMDL monitoring requirements. The City of El Monte has chosen to

collaborate with other permittees/groups in adjoining Watershed Management Areas (WMAs) to address the Receiving Water (RW) monitoring and TMDL monitoring for its WMAs.

The City has developed this IMP to address the following monitoring elements:

- Receiving Water/TMDL Monitoring (to be addressed collaboratively with other groups)
- Storm Water Based Outfall Monitoring
- Non-storm Water based Outfall Monitoring
- New Development/Re-Development Effectiveness Tracking
- Regional Studies (collaborative program)

By implementing the IMP and participating in collaborative programs, the City will fulfill its applicable monitoring requirements. This IMP also includes the details of the annual reporting process.

1 MONITORING AND REPORTING PROGRAM (MRP)

The Clean Water Act and Title 40 of the Code of Federal Regulations require that all National Pollutant Discharge Elimination Systems (NPDES) Permits include monitoring and reporting requirements. The California Regional Water Quality Control Board, Los Angeles Region (Regional Water Board) is authorized by California Water Code Section 13383 to issue NPDES Permits and has issued Order R4-2102-0175 (Order) which applies to the City of El Monte (City). Attachment E of the Order includes the requirements for the City to develop and implement a Monitoring and Reporting Program (MRP).

1.1 PURPOSE

The purpose of the MRP is to refine the control measures being implemented or proposed for implementation for the reduction of pollutant loading and the protection and enhancement of the beneficial uses of the receiving waters within the WMAs covered by the MRP, and to evaluate and assess existing water quality conditions.

1.2 PRIMARY OBJECTIVES

The primary objectives of the MRP to:

- Characterize pollutant loads in MS4 discharges.
- Identify sources of pollutants in MS4 discharges.
- Assess the chemical, physical, and biological impacts of discharges from the municipal storm water sewer system (MS4) on receiving waters.
- Assess compliance with RWLs and WQBELs established to implement TMDL wet weather and dry weather WLAs.
- Measure and improve the effectiveness of pollutant controls implemented under the current Order.

1.3 INTEGRATED MONITORING PROGRAM APPROACH

The Order provides the flexibility to allow the City to develop an Integrated Monitoring Program (IMP) or Coordinated Integrated Monitoring Program (CIMP) to satisfy the monitoring requirements of the MRP. The City of El Monte will collaborate with other permittees/groups in adjoining WMAs to address the Receiving Water (RW) monitoring and TMDL monitoring for its WMAs. The City has developed an

IMP to address the monitoring requirements. By implementing the IMP and participating in collaborative programs, the City will fulfill its applicable monitoring requirements. The monitoring program will include the following elements:

- Receiving Water (RW) Monitoring (to be addressed collaboratively with other groups)
- Storm Water Based Outfall Monitoring
- Non-storm Water based Outfall Monitoring
- New Development/Re-Development Effectiveness Tracking
- Regional Studies (City will contribute to SMC monitoring efforts)

1.3.1 RECEIVING WATER MONITORING (COLLABORATIVELY WITH ADJACENT GROUPS)

The objectives of the receiving water monitoring are:

- To determine whether receiving water limitations are being achieved
- To assess trends in pollutant concentrations over time or during specified conditions
- To determine if designated beneficial uses are being affected

The following information pertains to receiving water/TMDL monitoring:

- The City will collaborate with the Upper San Gabriel River EWMP Group on the RW/TMDL monitoring in the San Gabriel River. The City will also collaborate with the Rio Hondo/San Gabriel River Water Quality Group on RW/TMDL monitoring in the Rio Hondo (tributary to the LA River).
- The proposed receiving water monitoring locations and the Mass Emissions stations are shown in Figure 1-1. The collaboratively monitored RW locations are RH/SGR_RW and USGR_R4_RAM.
- The proposed monitoring locations will provide representative measurement of the effects of the City's MS4 discharges on receiving waters because the land use in the areas discharging upstream of the monitoring sites are representative of the City's land use.
- The City will collaborate with both the Lower San Gabriel River Group and the Lower LA River Group to satisfy the requirement of monitoring for the Dominguez Channel and Greater Los Angeles and Long Beach Harbor Waters Toxics Pollutants TMDL. (for the appropriate portions

(acreage) of the Los Angeles River WMA and the San Gabriel River WMA). Copies of the Commitment Letters for RW cost sharing are included in Appendix B. Other collaboration letters will be included in the IMP once the groups have established the appropriate cost share.

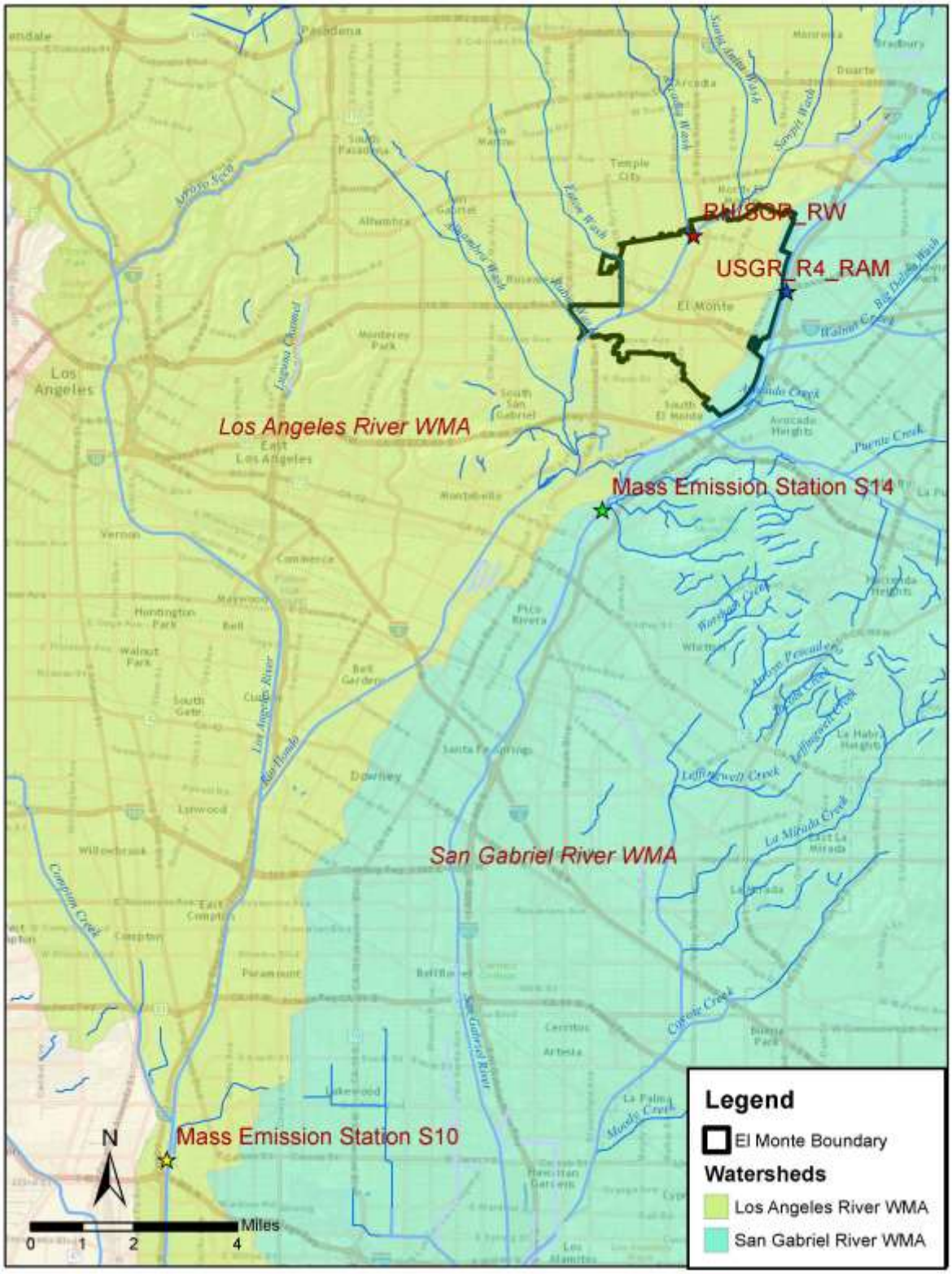
- It is the City's understanding that the Mass Emissions data will be available to all Permittees.
- The City recognizes that it is responsible for complying with all Receiving Water monitoring requirements in the event that any of its collaborative partner's monitoring plans are not approved.
- The City recognizes that it is responsible for complying with all TMDL monitoring requirements in the event that any of its collaborative partner's monitoring plans are not approved.

Monitoring shall be performed (in the receiving water during wet weather conditions), defined for the purposes of this monitoring program as follows:

- When the receiving water body is a river, stream or creek, wet weather shall be defined as when the flow within the receiving water is at least 20 percent greater than the base flow or an alternative threshold as provided for in an approved IMP or CIMP, or as defined by effective TMDLs within the watershed.
- Monitoring shall occur during wet weather conditions, including targeting the first significant rain event of the storm year following the criteria below, and at least two additional wet weather events within the same wet weather season.
- Permittees shall target the first storm event of the storm year with a predicted rainfall of at least 0.25 inch at a seventy percent probability of rainfall at least 24 hours prior to the event start time.
- Permittees shall target subsequent storm events that forecast sufficient rainfall and runoff to meet program objectives and site specific study needs. Sampling events shall be separated by a minimum of three days of dry conditions (less than 0.1 inch of rain each day).
- Receiving water monitoring shall begin as soon as possible after storm water outfall-based monitoring, in order to be reflective of potential impacts from MS4 discharges.

- The Receiving Water and TMDL monitoring conducted collaboratively with the two adjacent CIMPs and the two downstream CIMPs plus data from the Mass Emissions Stations plus data from Outfall Monitoring should adequately fulfill the Receiving Water and TMDL monitoring requirements.

Figure 1-1: Proposed collaborative receiving water monitoring sites



The TMDLs applicable to the City's two WMAs are listed below:

Los Angeles River WMA:

1. Los Angeles River Watershed Trash TMDL
2. Los Angeles River Nitrogen Compounds and Related Effects TMDL
3. Los Angeles River and Tributaries Metals TMDL
4. Los Angeles River Watershed Bacteria TMDL
5. Legg Lake Trash TMDL
6. Dominguez Channel and Greater Los Angeles and Long Beach Harbor Waters Toxic Pollutants TMDL
7. Los Angeles Area Lakes TMDLs (Legg Lake and Peck Road Park Lake)

San Gabriel River WMA:

1. San Gabriel River and Impaired Tributaries Metals and Selenium TMDL

The Mass Emission (ME) Stations that the City will obtain data from for its MWAs are listed below:

- Los Angeles River Mass Emissions Station (S10)
- San Gabriel River Mass Emissions Station (S14)

The Mass Emissions Station monitoring data will be used to assess if RWLs are being achieved and also to asses pollutant trends over time.

1.3.2 STORM DRAINS, CHANNELS, AND OUTFALLS MAP(S) AND /OR DATABASE

Through research of existing records combined with field reconnaissance, the City has developed a series of GIS maps and a database for the City's MS4.

GIS data includes:

- Surface water bodies within the City's jurisdiction
- Sub-watershed (HUC 12) boundaries
- Land use

- Effective Impervious Area (if available) (in development)
- Jurisdictional boundaries
- The location and length of open channels and underground pipes 18 inches in diameter or greater (with the exception of catch basin connector pipes)
- The location of dry weather diversions (none)
- The location of major MS4 outfalls (greater than or equal to 36 inches in diameter) (in development)
- The location of outfalls greater than 12 inches in diameter that drain from industrial areas greater than 2 acres (in development)
- Notation of outfalls with significant non-storm water discharges (pending; to be updated annually)
- Storm drain outfall catchment areas for each major outfall within the City's jurisdiction (in development)
- Each mapped MS4 outfall will be linked to a database containing descriptive and monitoring data associated with the outfall. The data will include:
- Ownership (pending)
- Coordinates
- Physical description
- Photographs of the outfall (to track operation and maintenance needs over time)

Figure 1-2 shows an example of a GIS map showing the preliminary outfall screening data plus a hyperlink to an outfall attribute. Figure 1-3 shows the City's open channels. Copies of the outfall screening data sheets for those outfalls screened in November 2013 are included in Appendix A. A sample of the Outfall Screening Form is included in Appendix A.

Figure 1-2: Example Map showing outfalls with data attribute

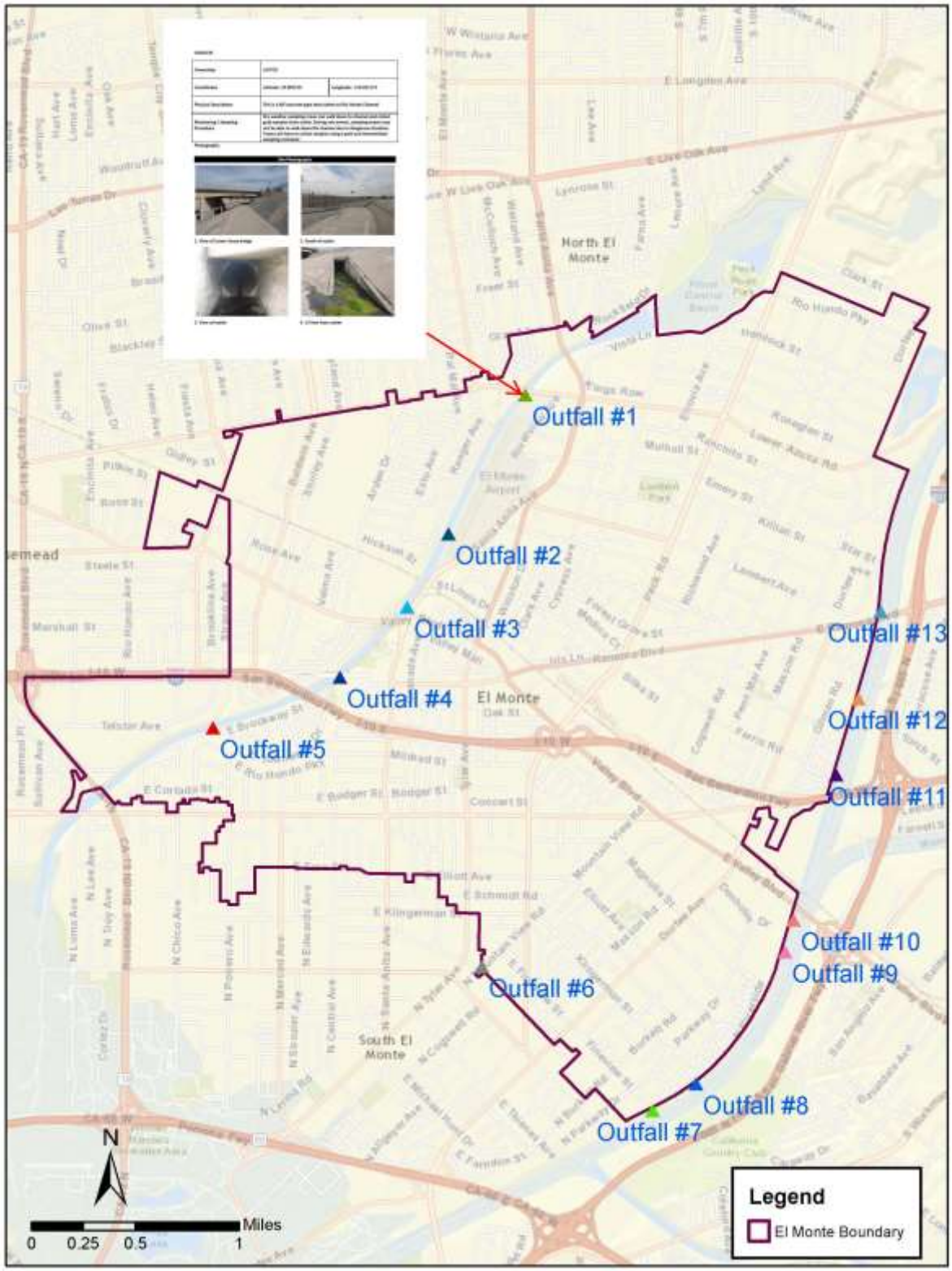
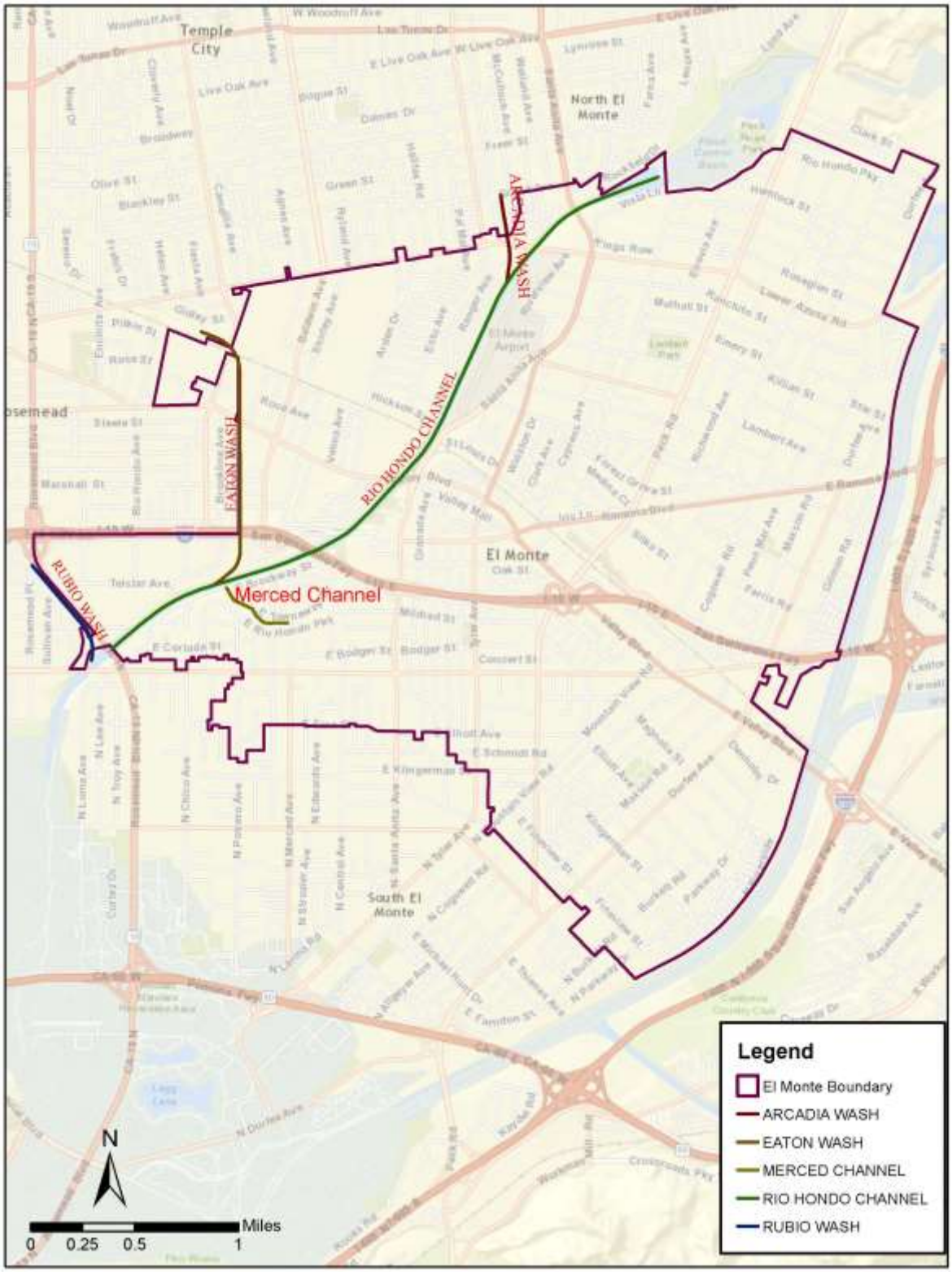


Figure 1-3: Open Channels



1.3.3 STORM WATER OUTFALL BASED MONITORING

Storm water discharges from the MS4 will be monitored at outfalls and/or alternative access points such as manholes or in channels at the City's jurisdictional boundary.

The City considered the following criteria when selecting outfalls for storm water discharge monitoring:

- The storm water outfall monitoring program will ensure representative data by monitoring approximately one major outfall per HUC 12 drainage area, within the City's jurisdiction, or alternate approaches as approved. The City will monitor approximately one outfall per HUC 12 boundary and has proposed three outfall monitoring locations.
- The drainage(s) to the selected outfall(s) are representative of the land uses within the City's jurisdiction. The City's land use is:
    - 7% office
    - 10% industrial/commercial
    - 11% retail
    - 58% residential
    - 14% other amenities (schools, open space)
- The selected outfalls are exclusive to the City. The selected outfalls will not receive drainage from another jurisdiction so the City will not have to conduct "upstream" and "downstream" monitoring as the system enters and exits the City's jurisdiction.
- Outfalls will be selected with configurations that facilitate accurate flow measurement and in consideration of safety of monitoring personnel.
- The specific location of sample collection may be within the MS4 upstream of the actual outfall to the receiving water if field safety or accurate flow measurement require it. (as long as the point selected remains representative of the outfall point.)

The IMP will incorporate all the requirements of Attachment E of the Order regarding the Minimum Storm Water Outfall based Monitoring Requirements.

Monitoring shall be performed at the selected outfalls during wet weather conditions, defined for the purposes of this monitoring program as follows:

- When the receiving water body is a river, stream or creek, wet weather shall be defined as when the flow within the receiving water is at least 20 percent greater than the base flow or an alternative threshold as provided for in an approved IMP or CIMP, or as defined by effective TMDLs within the watershed.
- Monitoring of storm water discharges shall occur during wet weather conditions resulting from the first rain event of the year, and at least two additional wet weather events within the same wet weather season. Permittees shall target the first storm event of the storm year with a predicted rainfall of at least 0.25 inch at a seventy percent probability of rainfall at least 24 hours prior to the event start time. Permittees shall target subsequent storm events that forecast sufficient rainfall and runoff to meet program objectives and site specific study needs. Sampling events shall be separated by a minimum of three days of dry conditions (less than 0.1 inch of rain each day).

At a minimum, the following parameters shall be monitored unless a surrogate pollutant has been approved by the Executive Officer of the Regional Water Board.

- Flow,
- Pollutants assigned a receiving water limitation derived from TMDL WLAs (See Attachments L-R of this Order),
- Other pollutants identified on the CWA section 303(d) List for the receiving water or downstream receiving waters,
- Total Suspended Solids (TSS) and Suspended-Sediment Concentration (SSC) if the receiving water is listed on the CWA section 303(d) list for sedimentation, siltation or turbidity,
- Field measurements applicable to inland freshwater bodies only: hardness, pH, dissolved oxygen, temperature, and specific conductivity,
- Aquatic Toxicity (twice per year, once during first storm event of the storm year as specified above).

- Additionally, the screening parameters in Table E-2 shall be monitored in the first year of monitoring during the first significant rain event of the storm year. If a parameter is not detected at the Method Detection Limit (MDL) for its respective test method or the result is below the lowest applicable water quality objective, and is not otherwise identified, it need not be further analyzed. If a parameter is detected exceeding the lowest applicable water quality objective then the parameter shall be analyzed for the remainder of the Order during wet weather at the receiving water monitoring station where it was detected.

The proposed storm water outfall monitoring locations within the HUC 12 drainage areas are shown on Figure 1-4. The land use for each HUC 12 drainage area is shown on Figure 1-5. A tabular land use comparison for each HUC 12 drainage area is shown in Table 1-1.

Figure 1-4: Proposed outfall monitoring locations and HUC 12 Equivalent Boundaries

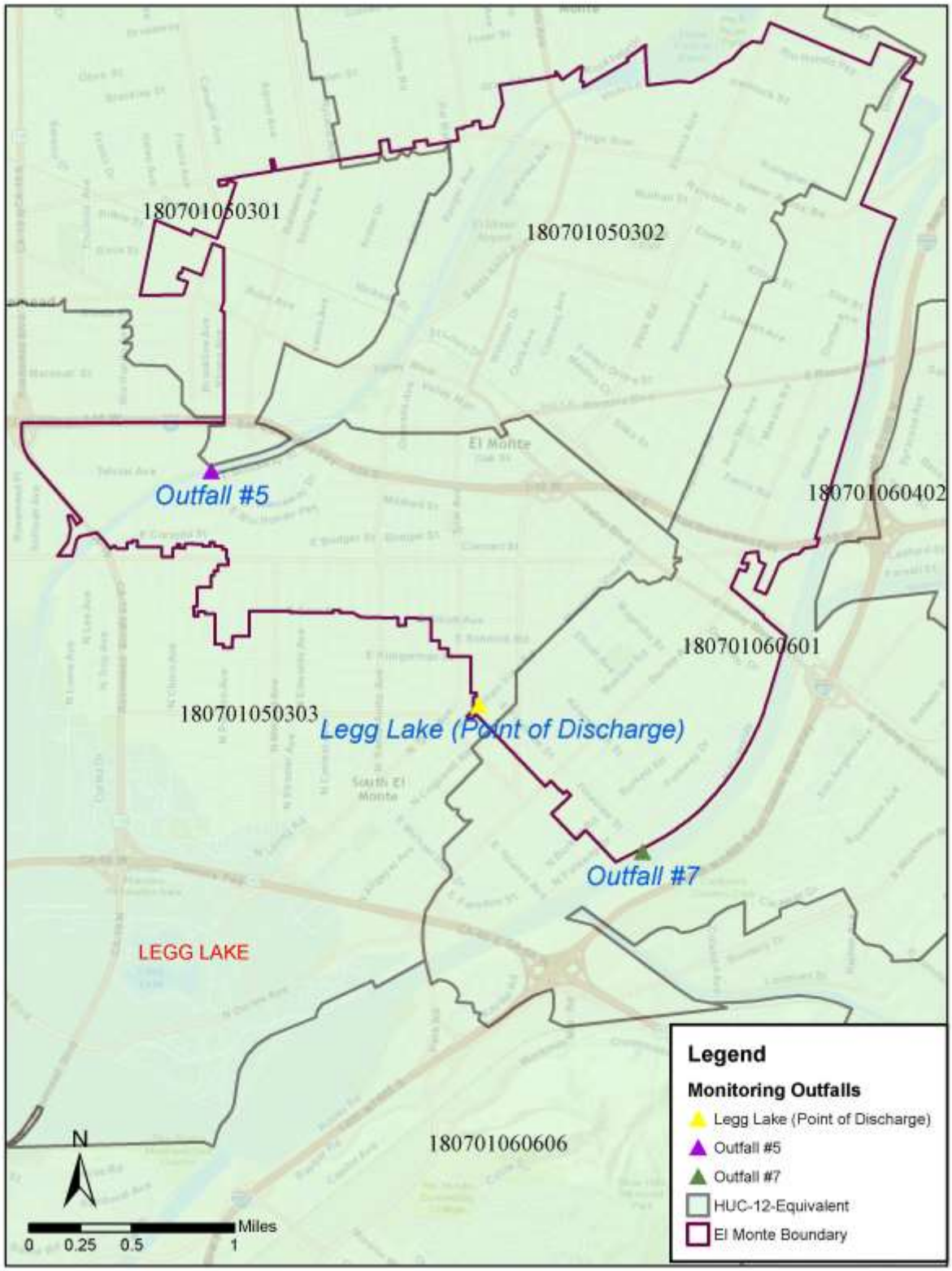


Figure 1-5: HUC 12 Drainage Area Land Use

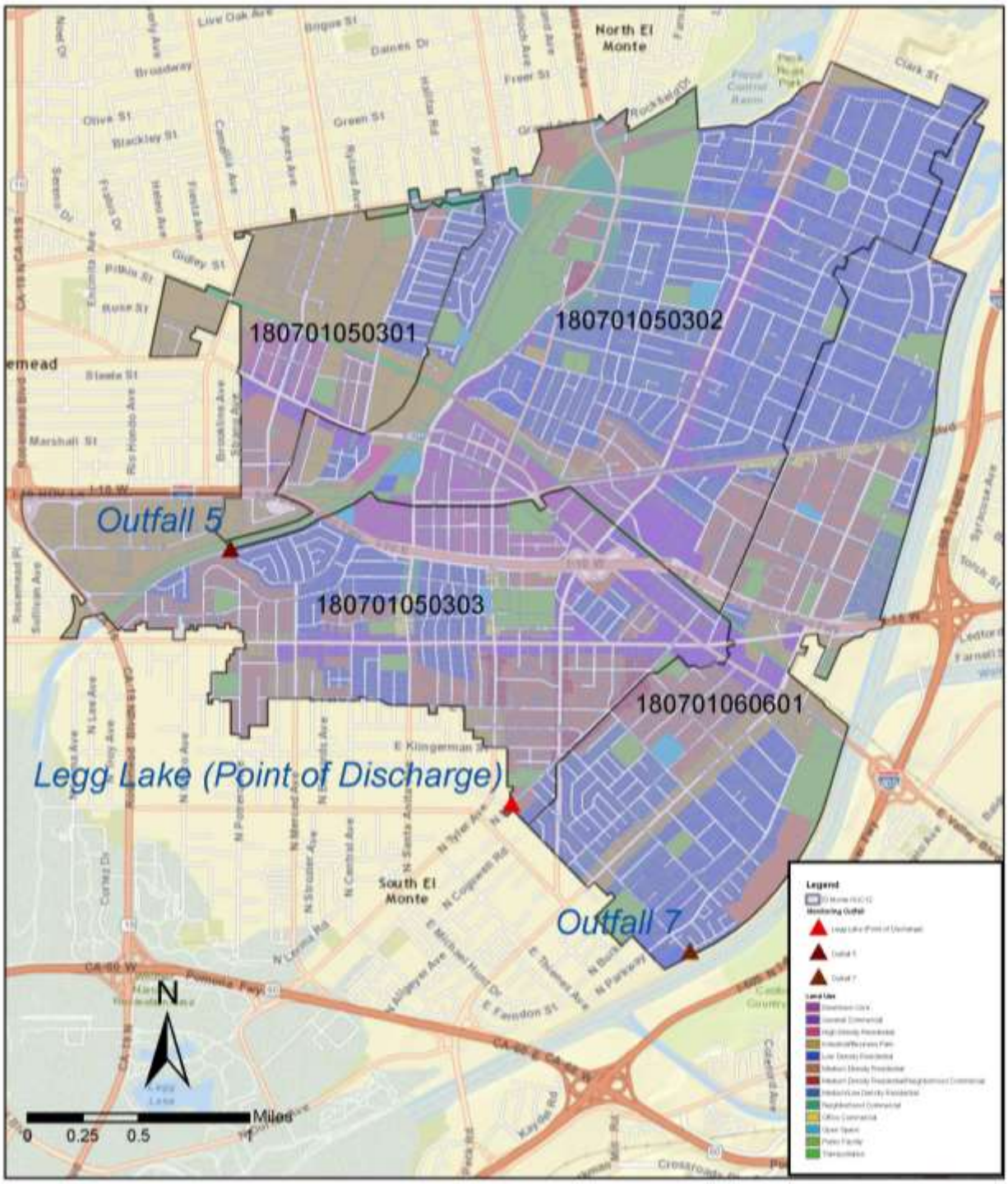


Table 1-1: Land Uses Per Drainage Area

Land Use Type	Overall City Land Use %	Land Use % Per Drainage Area			
		HUC - 180701050301	HUC- 180701050302	HUC- 1080701050303	HUC- 180701060601
Residential	58%	50.1%	77%	59.1%	69.3%
Industrial/Commercial/ Retail	21%	53.8%	34.1%	30.2%	14.9%
Office	7%	0%	0.2%	0.9%	0.6%
Other Amenities (schools, open space)	14%	5%	12.5%	6.8%	10%

1.3.4 NON-STORM WATER OUTFALL BASED SCREENING AND MONITORING

The Non-Storm Water Outfall Screening and Monitoring process include the following:

- An outfall inventory will be performed, data collected, and incorporated into a GIS map and/or entered into a database. The City will assess and identify outfalls with significant non-storm water discharges during the term of the Order.
- For outfalls determined to have significant non-storm water flow, the City will determine whether flows are the result of illicit connections/illicit discharges (IC/IDs), authorized or conditionally exempt non-storm water flows, natural flows, or from unknown sources. IC/ID flows will be investigated and eliminated.
- The City will prioritize monitoring of outfalls considering the potential threat to the receiving water and applicable TMDL compliance schedules. Land use types will also be used to prioritize the monitoring.
- The City will conduct monitoring or assess existing monitoring data to determine the impact of non-storm water discharges on the receiving water.
- The City will conduct monitoring or other investigations to identify the source of pollutants in non-storm water discharges.

- The results of the screening process will be used to evaluate the conditionally exempt non-storm water discharges as identified in Parts III.A.2 and III.A.3 of the Order and the City will take appropriate actions pursuant to Part III.A.4.d of the Order for those discharges that have been found to be a source of pollutants.

The City's non-storm water outfall based screening and monitoring program and procedures are explained in the following subsections. The procedures will be updated as needed to reflect the City's program.

The City will conduct at least one re-assessment of its non-storm water outfall-based screening and monitoring program during the term of the Order to determine whether changes or updates are needed. Where changes are needed, the Permittee shall make the changes in its written program documents, implement these changes in practice, and describe the changes within the next annual report.

The City is in the process of developing and maintaining an electronic inventory of MS4 outfalls and identifying those with known, significant non-storm water discharges and those requiring no further assessment. If the MS4 outfall requires no further assessment, the inventory will include the rationale for the determination of no further action required. This inventory will be recorded in a database with outfall locations linked to the Storm Drains, Channels and Outfalls map as required in Part VII.A of Attachment E.

The City will record existing data from past outfall screening and monitoring and initiate data collection efforts as warranted. The data will include the physical attributes of those MS4 outfalls or alternative monitoring locations determined to have significant nonstorm water discharges. Attributes to be obtained shall, at a minimum, include those listed In Attachment E of the Order.

The non-stormwater outfall based screening and monitoring for the Bacteria TMDL for the LA River WMA will follow the outfall monitoring requirements as outlined in a Load Reduction Strategy (LRS) being developed.

The City's non-stormwater outfall based screening and monitoring process is outlined in the following subsections.

1.3.4.1 INVENTORY OF OUTFALLS

The outfall inventory elements include:

- A desktop search/records search of outfalls and drainages (completed in November 2013)
- A review of County and City GIS maps and records (completed in November 2013)
- The creation of an electronic inventory of outfalls (created in November 2013)

The outfall data collected in November 2013 is included in Appendix A.

1.3.4.2 FIELD SCREENING

The field screening elements include:

- Initial screening (completed in November 2013)
- Outfalls greater than or equal to 36 inches in diameter located and mapped (in progress; initial screening completed in November 2013)
- Remaining outfall screening in progress
- Outfalls will be observed two additional times (three days or longer after a rain event)
- Observations conducted during working hours
- During future observations, staff will complete an Outfall Screening Form containing at least the following information about their observations:
    - date, time, weather, ponding
    - Flow amount: no flow; a trickle; similar to garden hose flow; similar to fire hydrant flow
    - Visual and olfactory observations: turbidity, trash, floatables, foam, algae, odor, etc.
    - photographs

An example Outfall Screening Form is included in Appendix A.

1.3.4.3 NO FURTHER ASSESSMENT

No Further Assessment will be reported in the Inventory database if criteria a, b, or c is met:

a) No flow observed or a trickle of flow observed on at least 2 out of 3 visits.
b) The source is confirmed to be from NPDES permitted or categorically exempt essential flow.
c) Flow is categorized as not significant.

1.3.4.4 SIGNIFICANT NON-STORM WATER DISCHARGES

Discharges with the following characteristics will be considered significant:

- Discharges from major outfalls subject to dry weather TMDLs
- Discharges for which existing monitoring data exceeds non-storm water Action Levels identified in Attachment G
- Non-Storm water discharges that have caused or have the potential to cause overtopping of downstream diversions (if applicable)
- Discharges exceeding a proposed threshold discharge rate
- Other characteristics determined during the field screening:
    - Garden hose amount of flow or greater (~5 gpm)
    - Persistent Flows (flow observed twice from same outfall)
    - Visual and olfactory observations: turbidity, trash, floatables, foam, algae, odor, etc.
    - Flows that are conditionally exempt or natural flows

1.3.4.5 PRIORITIZED SOURCE IDENTIFICATION

The following priorities will be used for source identification:

- Outfalls discharging directly to receiving waters with WQBELs or receiving water limitations in the TMDL provisions for which final compliance deadlines have passed
- All major outfalls and other outfalls that discharge to a receiving water subject to a TMDL shall be prioritized according to TMDL compliance schedules
- Outfalls for which monitoring data exist and indicate recurring exceedances of one or more of the Action Levels identified in Attachment G of the Order

- All other major outfalls identified to have significant non-storm water discharges

1.3.4.6 PRIORITIZED SOURCE IDENTIFICATION SCHEDULE

The City's schedule is as follows:

- The City will complete 25% of source identification inventory by 12/28/15 and 100% 12/28/17 (25% within 3 years of Order effective date, 100% completed within 5 years of Order effective date)

(The City began the screening process in November 2013.)

1.3.4.7 IMPLEMENT/CONDUCT SOURCE IDENTIFICATION

If necessary, the City will implement source identification as follows:

- in the prioritization order
- consistent with the City's IC/ID Program
- contributions will be quantified if discharge is comprised of multiple sources
- efforts to identify unknown sources described and documented
- upstream jurisdictions and RWQCB will be notified if sources originate outside jurisdiction

1.3.4.8 MONITOR NON-STORM WATER DISCHARGES EXCEEDING CRITERIA

Beginning within 90 days of completing source identification or after the Executive Officer of the Regional Board approves the IMP, whichever is later, the City will monitor those outfalls as described below:

- Outfalls conveying significant discharges comprised of unknown or conditionally exempt non-storm water discharges, or continuing illicit discharges
- Outfalls in order of Source Prioritization as described above
- Outfalls subject to an approved dry weather TMDL will be monitored per the TMDL Monitoring Plan
- Outfalls not subject to dry weather TMDLs shall be monitored 4 times for the first year, approximately quarterly.

- Monitoring frequency will be reduced to twice per year beginning the second year of monitoring if pollutant concentrations during the first year do not exceed WQBELs, non-storm water action levels, or water quality standards identified on the 303(d) list for receiving waters.
- Outfall flows will be monitored for the parameters listed on page E27 of Attachment E of the Order.

1.3.4.9 SAMPLING METHODS

Sampling will be conducted as follows:

- Dry weather samples will be collected on days when there has be no measurable precipitation within the last 72 hours.
- One dry weather monitoring event will occur during the month with the lowest instream flows, or where instream flow data is not available, during the historically driest month for outfall monitoring. According to the Western Regional Climate Center (www.wrcc.dri.edu/cgi-bin/cliMAIN.pl?ca7926), July is the historically driest month for the El Monte area.
- Wet weather samples will be collected for the first storm event of the season when there is a 70% probability of rain and a forecast rainfall depth of at least 0.25 inches in 24 hours. Subsequent samples will be collected when there is a 70% probability of rain and a forecast rainfall depth of at least of at least 1 inch.

Storm Water Outfall Based Monitoring (wet weather)

- Where feasible, automated flow monitoring and sampling equipment will be used to collect flow weighted composite samples during the first 24 hours of the storm water discharge, or for the entire storm water discharge if it is less than 24 hours. In locations where the outfall cannot be sampled using automated sampling equipment (continuous sampler), grab samples will be collected and composited into one composite sample for analysis.

Composited grab sampling method:

- The outfall samples will be collected manually by taking at least three discrete grab samples during each of the first three hours of discharge (if the event lasts longer than three hours). If the event lasts less than three hours at least three discrete grab samples shall be collected during each hour of discharge for the entire duration of the storm event. Samples must be collected at least 15 minutes apart. The result will be at least nine discrete samples. These samples will be composited into a single flow-weighted sample. Flow at the outfall will be estimated by recording the time required to fill a container of known volume.

Non-Storm Water Outfall Based Monitoring (dry weather)

In areas where the outfall cannot be sampled using automated sampling equipment (continuous sampler), grab samples will be collected and composited into one composite sample for analysis.

Composited grab sampling method:

- If flow is evident at a non-storm water sampling location, a 1-hour composite sample will be taken. Samples must be collected at least 15 minutes apart. Flow will be recorded at the time each sample is taken. Flow at the outfall will be estimated by recording the time required to fill a container of known volume. The result will be at least three discrete samples. These samples will be composited into a single flow-weighted sample that will be sent to the lab for analysis.

The grab sampling will also meet the following Order/MRP requirements:

- Grab samples will be taken for constituents that are required to be collected by grab sampling methods (e.g., pathogen indicator bacteria, oil and grease, cyanides, and volatile organics).
- Grab samples will be collected in instances where grab samples are generally expected to be sufficient to characterize water quality conditions (primarily dry weather).
- Grab samples will be collected where the sample location limits City's ability to install an automated sampler, as provided for in an approved IMP or CIMP.
- Sufficient volume of sample will be collected to perform required biological and chemical tests.

- Sampling, monitoring methods, and reporting for trash monitoring will be conducted in accordance with the applicable requirements specified in Part VI.E.5 of the Order.
- Flow will be estimated using USEPA methods at receiving water monitoring sites where flow measuring equipment is not in place.
- Flow will be estimated for storm water outfall monitoring sites based on drainage area, impervious cover, and precipitation data.

1.3.4.10 ANALYTICAL PROCEDURES

Analytical Procedures will be conducted as follows:

- Sample analysis will be performed at an ELAP certified lab with QA/QC procedures and protocols consistent with 40 CFR Part 136.
- Suspended-Sediment Concentration (SSC), if necessary, will be analyzed per American
- Society for Testing and Materials (ASTM) Standard Test Method D-3977-97.
- Aquatic toxicity will be monitored in accordance with Part XII of the MRP.
- If the discharge from an outfall exhibits aquatic toxicity, then a TIE shall be conducted and those TIE identified pollutants shall be added to the analysis list.
- Monitoring is required for pollutants identified in a TIE (conducted at the nearest downstream receiving water monitoring station) during the most recent sampling event, or where the TIE conducted on the receiving water sample was inconclusive, aquatic toxicity.
- Monitoring for PCBs (in sediment or water) will be reported as the summation of aroclors and a minimum of 40 congeners (preferably at least 50 congeners) using EPA Methods 8270 and 1668C (as appropriate) and high resolution mass spectrometry.
- For Mercury, EPA Method 245.7 or 1631E will be utilized to get sufficiently sensitive minimum level analytical results for comparison to water quality objectives.
- Samples will be analyzed for any and all parameters that exceed the lowest water quality objective in the nearest downstream receiving water monitoring station.
- Other parameters shall be analyzed according to the provisions of the Standard Provisions for Monitoring described in Attachment D of the Order and Part XIV of the MRP.

The Standard Operation Procedures (SOPs) for the Monitoring and Reporting Program will be provided to the Regional Water Board upon request as stated in item J of Part XIV (page E-37).

1.3.4.11 MONITORING AND REPORTING

Monitoring and reporting will be conducted as follows:

- Monitoring and reporting will be conducted in accordance with the Standard Monitoring Provisions specified in Part XIV of the MRP and in accordance with the requirements specified in Attachment D of the Order.
- Records of monitoring information will include the information required under Attachment D of the Order (Part IV, Standard Provisions - Records).
- Applications, reports, plans, or other information submitted to the Regional Water Board, State Water Board, and/or USEPA will be signed and certified in accordance with Attachment D of the Order.
- Monitoring results submitted to the Regional Water Board will be consistent with the requirements identified in Part XVIII.A.5 and Part XVIII.A.7 of the MRP.

1.3.4.12 RE-ASSESSMENT

Re-assessment will be conducted as follows:

- The City will conduct at least one re-assessment of its non-storm water outfall-based screening and monitoring program during the term of the Order.
- Needed changes to the program will be made in writing, implemented, and described in the next Annual Report.

1.3.5 NEW DEVELOPMENT/RE-DEVELOPMENT EFFECTIVENESS TRACKING

The City will maintain in its database the following information for each new development/re-development that is approved by the City on or after the effective date of the Order:

- Name of the Project and Developer
- Project location and map (linked to the GIS storm drain map)
- 85th percentile storm event for the project design (inches per 24 hours)
- 95th percentile storm event for projects draining to natural water bodies (inches per 24 hours)
- Other design criteria required to meet hydromodification requirements for drainages to natural water bodies
- Project design storm (inches per 24-hours)
- Project design storm volume (gallons, ac-ft, or MGD)
- Percent of design storm volume to be retained on site
- Design volume for water quality mitigation treatment BMPs, if any
- If flow through water quality treatment BMPs are approved, provide the one year, one-hour storm intensity as depicted on the most recently issued isohyetal map published by the Los Angeles County Hydrologist
- Percent of design storm volume to be infiltrated at an off-site mitigation or groundwater replenishment project site
- Percent of design storm volume to be retained or treated with biofiltration at an off-site retrofit project
- Location and maps (preferably linked to the GIS storm drain map required in Part VII.A of this MRP) of off-site mitigation, groundwater replenishment, or retrofit sites
- Documentation of issuance of requirements to the developer

1.3.6 REGIONAL STUDIES

The Southern California Stormwater Monitoring Coalition (SMC) Regional Watershed Monitoring Program was initiated in 2008. This program is conducted in collaboration with the Southern California Coastal Water Research Project (SCCWRP), State Water Board's Surface Water Ambient Monitoring Program, three Southern California Regional Water Quality Control Boards (Los Angeles, Santa Ana, and San Diego) and several county storm water agencies (Los Angeles, Ventura, Orange, Riverside, San

Bernardino and San Diego). SCCWRP acts as the facilitator to organize the program and completes data analysis and report preparation.

The SMC monitoring program seeks to coordinate and leverage existing monitoring efforts to produce regional estimates of condition, improve data comparability and quality assurance, and maximize data availability, while conserving monitoring expenditures. The primary goal of this program is to implement an ongoing, large-scale regional monitoring program for southern California's coastal streams and rivers. The monitoring program addresses three main questions:

- What is the condition of streams in southern California?
- What are the stressors that affect stream condition?; and
- Are conditions getting better or worse?

In order to continue the implementation efforts of the SMC monitoring program, the City will support or provide monitoring data as described at the SMC sites within the watershed management area(s) that overlap with the City's jurisdictional area.

2 ANNUAL REPORTING REQUIREMENTS

The annual reporting process is discussed below.

2.1 ANNUAL REPORT SUMMARY INFORMATION

The City will provide information in the annual reporting process that allows the Regional Water Board to assess the following:

- The City's participation in one or more Watershed Management Programs.
- The impact of the City's storm water and non-storm water discharges on receiving waters.
- The City's compliance with receiving water limitations, numeric water quality-based effluent limitations, and non-storm water action levels.
- The effectiveness of the City's control measures in reducing discharges of pollutants from the MS4 to receiving waters.
- Whether the quality of MS4 discharges and the health of receiving waters is improving, staying the same, or declining as a result watershed management program efforts, and/or TMDL implementation measures, or other Minimum Control Measures.
- Whether changes in water quality can be attributed to pollutant controls imposed on new development, re-development, or retrofit projects.

The data and information will be provided in an accessible format that will allow the Regional Water Board to verify the conclusions presented in the City's summary information. The data and conclusions will be presented in a manner so as to allow review and understanding by the general public. The annual reporting process will provide the opportunity to discuss the effectiveness of its past and ongoing control measure efforts and to convey its plans for future control measures. Reporting efforts will focus on watershed condition, water quality assessment, and the effectiveness of control measures.

2.2 WATERSHED SUMMARY INFORMATION, ORGANIZATION AND CONTENT

The City will include the information requested below in its odd year Annual Report (e.g., Year 1, 3, 5). The requested information will be provided for each WMA within the City's jurisdiction.

Since the City is participating in a WMP it will provide the requested information through the development and submission of the WMP and any updates thereto.

1.1.1 WATERSHED MANAGEMENT AREAS

The following information will be included for each WMA within the City's jurisdiction, where not already included in the WMP:

- A description of effective TMDLs, applicable WQBELs and receiving water limitations, and implementation and reporting requirements, and compliance dates
- CWA section 303(d) listings of impaired waters not addressed by TMDLs
- Results of regional bioassessment monitoring
- A description of known hydromodifications to receiving waters and a description, including locations, of natural drainage systems
- A description of groundwater recharge areas including number and acres
- Maps and/or aerial photographs identifying the location of ESAs, ASBS, natural drainage systems, and groundwater recharge areas

1.1.2 SUBWATERSHED (HUC12 OR EQUIVALENT) DESCRIPTION

Since the City has individually developed a WMP, reference to the WMP and any revisions thereto will suffice for baseline information regarding the subwatershed (HUC-12 or equivalent) descriptions, where the required information is already included in the WMP. Only changes to the HUC 12 or subwatersheds will be included in the Annual Report.

1.1.3 DESCRIPTION OF CITY'S DRAINAGE AREA WITHIN SUBWATERSHED

Since the City has individually developed a WMP, reference to the WMP and any revisions thereto will suffice for baseline information regarding the drainage area descriptions, where the required information is already included in the WMP. Only changes to the drainage areas will be included in the Annual Report.

2.3 ANNUAL ASSESSMENT AND REPORTING

The City will format its Annual Report to align with the reporting requirements for each WMA within the City's jurisdiction as detailed in Attachment E of the Order for the items identified below:

- Storm Water Control Measures.
- Effectiveness Assessment of Storm Water Control Measures
- Non-Storm Water Control Measures
- Effectiveness Assessment of Non-Storm Water Control Measures
- Integrated Monitoring Compliance Report
- Adaptive Management Strategies
- Supporting Data and Information

3 REFERENCES

Order No. R4-2012-0175, California Regional Water Quality Control Board, Los Angeles Region, November 8, 2012.

Monitoring and Reporting Program No. CI-6948, California Regional Water Quality Control Board, Los Angeles Region, November 8, 2012.

APPENDIX A

Outfall screening data sheets (November 2013)

Example of Outfall Screening Form

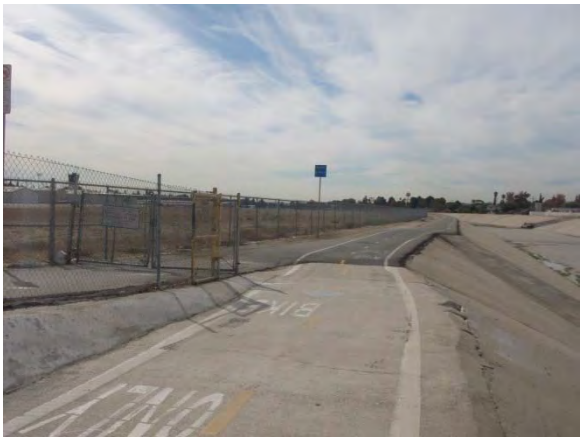
Outfall #1

Ownership	LACFCD	
Coordinates	Latitude: 34.092270	Longitude: -118.031172
Physical Description	This is a 60”concrete pipe that outfalls to Rio Hondo Channel	
Monitoring /Sampling Procedure	Dry weather sampling crews can walk down to channel and collect grab samples from outfall. During rain events, sampling teams may not be able to walk down the channel due to dangerous conditions. Teams may have to collect sample using a pole with an intermediate container.	

Photographs:

Site Photographs

1. View of Lower Azusa bridge from top of outfall



2. Looking South from top of outfall

3. View of outfall

4. 15 feet from outfall

5. Markings near outfall

Outfall #2

Ownership	LACFCD	
Coordinates	Latitude: 34.082498	Longitude: -118.037535
Physical Description	This is a 60”concrete pipe that discharges to Rio Hondo Channel.	
Monitoring /Sampling Procedure	Dry weather sampling crews can walk down to channel and collect grab samples from outfall. During rain events, sampling teams may not be able to walk down the channel due to dangerous conditions. Teams may have to collect sample using a pole with an intermediate container.	

Photographs:

Site Photographs

1. View of outfall from Rio Hondo

2. Marking on outfall

Outfall #3

Ownership	LACFCD	
Coordinates	Latitude: 34.077765	Longitude: -118.040547
Physical Description	This is a 60”concrete pipe that outlets to Rio Hondo Channel.	
Monitoring /Sampling Procedure	Dry weather sampling crews can walk down to channel and collect grab samples from outfall. During rain events, sampling teams may not be able to walk down the channel due to dangerous conditions. Teams may have to collect sample using a pole with an intermediate container.	

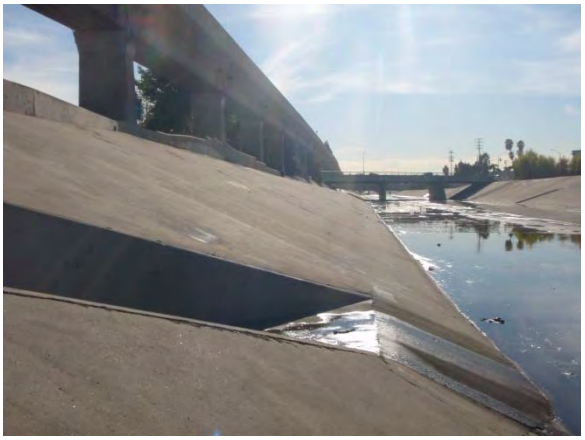
Photographs:

Site Photographs

1. View of outfall from bike path

2. 15 feet from outfall

3. View of outfall



4. Looking south toward outfall

Outfall #4

Ownership	Unknown	
Coordinates	Latitude: 34.072502	Longitude: -118.046323
Physical Description	This is a 36”concrete pipe that outfalls to Rio Hondo Channel.	
Monitoring /Sampling Procedure	Dry weather sampling crews can walk down to channel and collect grab samples from outfall. During rain events, sampling teams may not be able to walk down the channel due to dangerous conditions. Teams may have to collect sample using a pole with an intermediate container.	

Photographs:

Site Photographs

1. View of outfall north of railroad bridge

2. View of outfall

3. View of outfall

4.Close up of outfall

Outfall #5

Ownership	LACFCD	
Coordinates	Latitude: 34.068816	Longitude: -118.057081
Physical Description	Three (3) 48” concrete pipes that outfall to Rio Hondo Channel.	
Monitoring /Sampling Procedure	Dry weather sampling crews can walk down to channel and collect grab samples from outfalls. During rain events, sampling teams may not be able to walk down the channel due to dangerous conditions. Teams may have to collect sample using a pole with an intermediate container.	

Photographs:

Site Photographs

1. View of Merced Channel opposite outfalls

2. View looking South toward the three outfalls

5. View of outfalls from bike path

4. View of outfalls from Rio Hondo

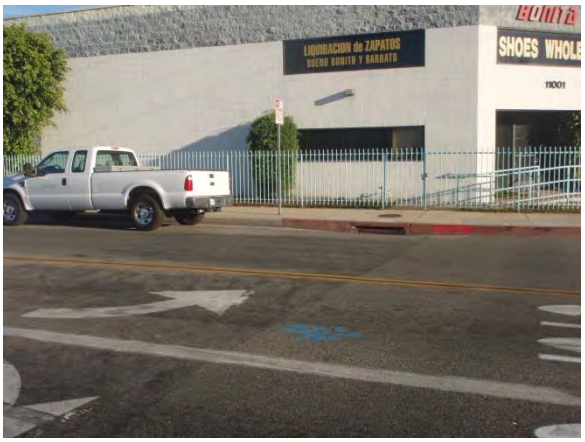
Outfall #6

Ownership	LACFCD	
Coordinates	Latitude: 34.051025	Longitude: -118.035839
Physical Description	Drainage plans show storm drain ultimately discharges to Legg Lake. Catch basin/manhole location is last accessible location that can be sampled within the city of El Monte.	
Monitoring /Sampling Procedure	Sampling crews may be able to remove manhole cover and lower an intermediate sampling container to obtain a representative sample. (Access permit required.)	

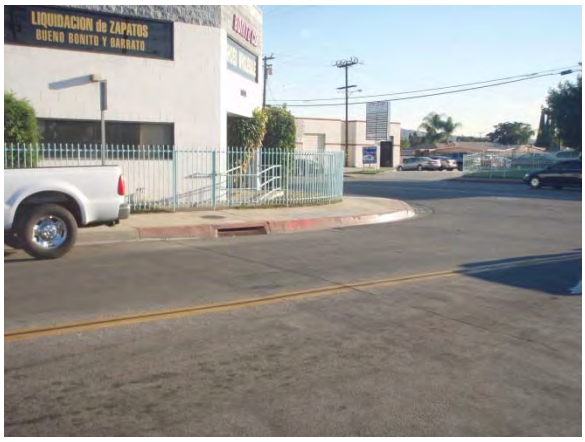
Photographs:

Site Photographs

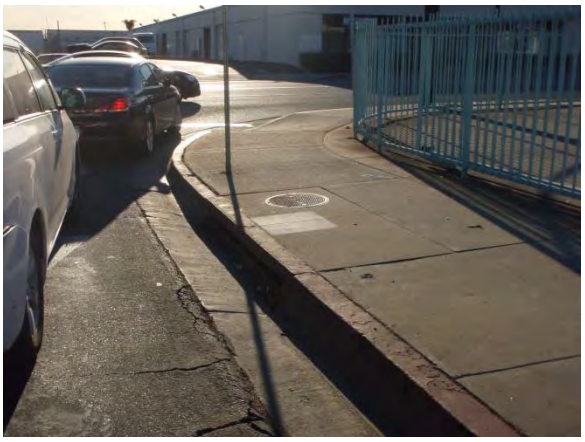
1. Intersection location



2. View of east catch basin



3. View of east catch basin



4. View of west catch basin

5. West manhole close up

Outfall #7

Ownership	LACFCD	
Coordinates	Latitude: 34.042331	Longitude: -118.019868
Physical Description	48” concrete pipe with cover discharges to San Gabriel River	
Monitoring /Sampling Procedure	Dry weather sampling crews can walk down to channel and collect grab samples from outlet. During rain events, sampling teams may not be able to walk down the channel due to dangerous conditions. Teams may have to collect sample using a pole with an intermediate container.	

Photographs:

Site Photographs

1. View looking down at outfall

2. Access to San Gabriel RIver

3. View of outfall

4. 15 feet from outfall

Outfall #8

Ownership	LACFCD	
Coordinates	Latitude: 34.044254	Longitude: -118.016240
Physical Description	42” reinforced concrete pipe outfalls to San Gabriel River.	
Monitoring Sampling Procedure	Sampling crews may use gate north of sampling site to gain access. However crews must walk down rocky slope with caution. During rain events it may be too dangerous to access for sampling. Teams may have to collect sample using a pole with an intermediate container.	

Photographs:

Site Photographs

1. View looking down at outfall

2. View looking down at outfall

3. View looking down at outfall

4. 5. Gate entrance near outfall

Outfall #9

Ownership	LACFCD	
Coordinates	Latitude: 34.053293	Longitude: -118.009092
Physical Description	36” pipe outlet with automated cover outfalls to San Gabriel River	
Monitoring / Sampling Procedure	Dry weather sampling crews can walk down to channel and collect grab samples from outlet. During rain events, sampling teams may not be able to walk down the channel due to dangerous conditions. Teams can collect sample with an intermediate container using a pole or collect sample from the manhole on the opposite side of the bike path.	

Photographs:

Site Photographs

1. Unit connected to outfall from bike path

2. Close up view outfall

3. View of high school from outfall

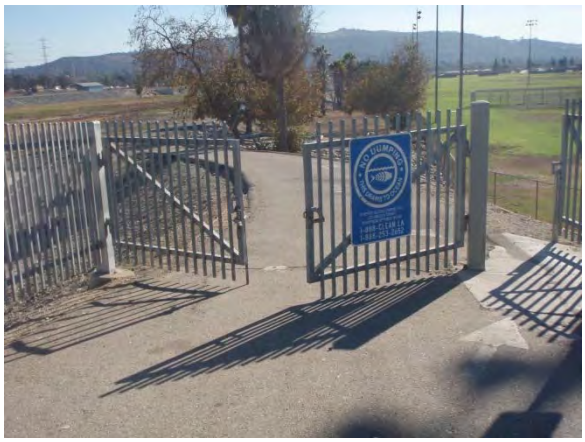
4. 15 feet from outfall

Outfall #10

Ownership	Unknown	
Coordinates	Latitude: 34.055751	Longitude: -118.008222
Physical Description	Unknown because cannot access.	
Monitoring /Sampling Procedure	Fence limits access of outlet but there is a gate that is locked in the vicinity. Dry weather sampling crews can walk down to channel and collect grab samples from outlet. During rain events, sampling teams may not be able to walk down to the channel due to dangerous conditions.	

Photographs:

Site Photographs



1. Valley Blvd access to SGR Bike Path

2. View from top of outfall

3. View of outfall looking towards Valley Blvd

4. View of outfall and fence

Outfall #11

Ownership	LACFCD	
Coordinates	Latitude: 34.065846	Longitude: -118.004757
Physical Description	72” concrete pipe outfalls to San Gabriel River	
Monitoring /Sampling Procedure	Dry weather sampling crews can walk down to channel and collect grab samples from outlet. During rain events, sampling teams may not be able to walk down the channel due to dangerous conditions. Teams may have to collect sample using a pole with an intermediate container.	

Photographs:

Site Photographs

1. View looking down at outfall

2. 15 feet from outfall

3. Close up view of outfall

4. 20 feet from outfall

Outfall #12

Ownership	LACFCD	
Coordinates	Latitude: 34.071001	Longitude: -118.002996
Physical Description	48” concrete pipe outfalls to San Gabriel River	
Monitoring /Sampling Procedure	Dry weather sampling crews can walk down to channel and collect grab samples from outlet. During rain events, sampling teams may not be able to walk down the channel due to dangerous conditions. Teams may have to collect sample using a pole with an intermediate container.	

Photographs:

Site Photographs

1. View across bike path opposite outfall

2. View from above outfall

3. View of outfall

4. 15 feet from outfall

Outfall #13

Ownership	LACFCD	
Coordinates	Latitude: 34.077360	Longitude: -118.001074
Physical Description	Two (2) 48” pipe discharge with covers but do not seem to be tied into storm drain system. The two pipes daylight on the opposite side of the bike path but no connections could be seen. People looked to be residing in storm drains that day light on the west side of the bike path.	
Monitoring /Sampling Procedure	Dry weather sampling crews can walk down to channel and collect grab samples from outfall. During rain events, sampling teams may not be able to walk down to the channel due to dangerous conditions. Teams may have to collect sample using a pole and an intermediate container.	

Photographs:

Site Photographs

1. Ramona Bike Path entrance

2. View from above outfall

3. 20’ from outfalls

4. View of outfalls

5. Possible inlets on west side of bike path

6. View showing possible habitation of pipes

OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

Section 1: Background Data

Subwatershed:		Outfall ID:	
Today's date:		Time (Military):	
Investigators:		Form completed by:	
Temperature (°F):	Rainfall (in.): Last 24 hours: Last 48 hours:		
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera:		Photo #s:	

Land Use in Drainage Area (Check all that apply):

☐ Industrial
☐ Ultra-Urban Residential
☐ Suburban Residential
☐ Commercial
☐ Open Space
☐ Institutional
Other: _____
Known Industries: _____

Notes (e.g.., origin of outfall, if known):

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☐ **Closed Pipe**	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: _____	☐ Circular ☐ Elliptical ☐ Box ☐ Other: _____	☐ Single ☐ Double ☐ Triple ☐ Other: _____	Diameter/Dimensions: _____	In Water: ☐ No ☐ Partially ☐ Fully With Sediment: ☐ No ☐ Partially ☐ Fully
☐ **Open drainage**	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other: _____	☐ Trapezoid ☐ Parabolic ☐ Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
☐ **In-Stream**	**(applicable when collecting samples)**				
Flow Present?	☐ Yes ☐ No	***If No, Skip to Section 5***			
Flow Description (If present)	☐ Trickle ☐ Moderate ☐ Substantial				

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		**RESULT**	**UNIT**	**EQUIPMENT**
☐Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	
☐Flow #2	Flow depth		In	Tape measure
	Flow width	_____' _____"	Ft, In	Tape measure
	Measured length	_____' _____"	Ft, In	Tape measure
	Time of travel		S	Stop watch
Temperature			°F	Thermometer
pH			pH Units	Test strip/Probe
Ammonia			mg/L	Test strip

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other:	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Outfall Characterization

☐ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7: Data Collection

1.	Sample for the lab?	☐ Yes	☐ No
2.	If yes, collected from:	☐ Flow	☐ Pool
3.	Intermittent flow trap set?	☐ Yes ☐ No	If Yes, type: ☐ OBM ☐ Caulk dam

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

APPENDIX B

Collaboration Letters for Receiving Water/TMDL Monitoring

El Monte/GWMA Agreement for Harbor Toxics TMDL Monitoring

CITY OF EL MONTE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

Frank Senteno, P.E.
Director of Public Works

Cesar Roldan
Senior Engineer

November 12, 2014

James Carlson
Rio Hondo/San Gabriel River Water Quality Group
City of Sierra Madre
232 W. Sierra Madre
Sierra Madre, CA 91024

Dear Mr. Carlson:

LETTER OF COMMMITMENT TO COLLABRATIVELY COST-SHARE THE RECEIVING WATER MONITORING FOR THE LOS ANGELES (RIO HONDO) WATERSHED MANAGEMENT AREA

The City of El Monte commits to collaborating and sharing costs with the Rio Hondo/ San Gabriel Water Quality Group in the receiving water monitoring for Los Angeles River (Rio Hondo) Watershed. The monitoring will be conducted at the Receiving Water Monitor location, which is currently proposed to be in the proximity of the confluence of the Rio Hondo River and Arcadia Wash. This is a requirement of the National Pollutant Discharge Elimination System Municipal Separate Storm Sewer System Permit Order No. R4-2012-0175.

The City of El Monte looks forward to working with you in developing an equitable cost share for the city's contribution in this monitoring.

Should you have any questions on this matter, please contact Ed Suher from AEI-CASC Consulting at (310) 291-1150.

Sincerely,

Frank Senteno, P.E.
Public Works Director

CITY OF EL MONTE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

Frank Senteno, P.E.
Director of Public Works

Cesar Roldan
Senior Engineer

November 12, 2014

Gary Hildebrand
Assistant Deputy Director
County of Los Angeles Department of Public Works
Watershed Management Division, 11th Floor
900 South Fremont Avenue
Alhambra, CA 91803-1331

Dear Mr. Hildebrand:

LETTER OF COMMMITMENT TO COLLABRATIVELY COST-SHARE THE RECEIVING WATER MONITORING FOR THE UPPER SAN GABRIEL RIVER WATERSHED

The City of El Monte commits to collaborating and sharing costs with the Upper San Gabriel River Enhanced Water Management Plan (EWMP) Group in the receiving of water monitoring for the Upper San Gabriel River Watershed. The monitoring is a requirement of the National Pollutant Discharge Elimination System Municipal Separate Storm Sewer System Permit Order No. R4-2012-0175.

The City of El Monte looks forward to working with you in developing an equitable cost share for the city's contribution in this monitoring.

Should you have any questions on this matter, please contact Ed Suher from AEI-CASC Consulting at (310) 291-1150.

Sincerely,

Frank Senteno, P.E.
Public Works Director

AGREEMENT
BETWEEN THE LOS ANGELES GATEWAY REGION INTEGRATED REGIONAL WATER MANAGEMENT JOINT POWERS AUTHORITY
AND
THE CITY OF EL MONTE

FOR COST SHARING FOR THE INSTALLATION OF MONITORING EQUIPMENT AND MONITORING PURSUANT TO THE HARBOR TOXIC POLLUTANTS TMDL

This Agreement is made and entered into as of May 28, 2015, by and between the Los Angeles Gateway Region Integrated Regional Water Management Joint Powers Authority ("GWMA"), a California Joint Powers Authority, and the City of El Monte, (the "Permittee").

RECITALS

WHEREAS, the mission of the GWMA includes the equitable protection and management of water resources within its area;

WHEREAS, for the purposes of this Agreement, the term "MS4 Permittees" shall mean those public agencies that are co-permittees to a National Pollutant Discharge Elimination System Municipal Separate Storm Sewer System Permit Order ("MS4 Permit") issued by the Los Angeles Regional Water Quality Control Board;

WHEREAS, the United States Environmental Protection Agency established the Total Maximum Daily Loads ("TMDL") for Toxic Pollutants on March 23, 2012, with the intent of protecting and improving water quality in the Dominguez Channel and the Greater Los Angeles and Long Beach Harbor Waters ("Harbor Toxic Pollutants TMDL");

WHEREAS, the Harbor Toxic Pollutants TMDL regulates certain discharges from National Pollutant Discharge Elimination System ("NPDES") permit holders, requiring organization and cooperation among the Permittees;

WHEREAS, the Permittee manages, drains or conveys storm water into at least a portion of the Los Angeles River including the estuary or Coyote Creek or the San Gabriel River including the estuary;

WHEREAS, various MS4 Permittees desire to facilitate the achievement of the objectives of the Harbor Toxic Pollutants TMDL by installing one monitoring station in the Los Angeles River at Wardlow Road, one monitoring station in the San Gabriel River near Spring Street, and one monitoring station in the Coyote Creek, also near Spring Street and conducting monitoring at said monitoring stations (collectively "Monitoring Stations") to ensure consistency with other regional monitoring programs and usability with other TMDL related studies;

WHEREAS, installation of the Monitoring Stations and future monitoring requires administrative coordination for the various MS4 Permittees that the GWMA can provide;

WHEREAS, individual MS4 permittees that are not GWMA members have indicated a desire to participate in the cost sharing for the installation of the Monitoring Stations and the costs of monitoring conducted at the Monitoring Stations (collectively "Monitoring Costs");

WHEREAS, the GWMA Board of Directors authorized the GWMA to enter into individual separate agreements with such individual MS4 Permittees (which shall not have voting rights in any group relating to the GWMA Members) for purposes of only cost sharing in the Monitoring Costs;

WHEREAS, the members of the GWMA are the Cities of Artesia, Bell, Bell Gardens, Bellflower, Cerritos, Commerce, Cudahy, Downey, Hawaiian Gardens, Huntington Park, La Mirada, Lakewood, Long Beach, Lynwood, Maywood, Montebello, Norwalk, Paramount, Pico Rivera, Santa Fe Springs, Signal Hill, South Gate, Vernon, Whittier, Central Basin Municipal Water District and the Long Beach Water Department ("GWMA Members");

WHEREAS, because GWMA Members already currently pay annual membership fees that pay for GWMA administrative costs, GWMA Members that participate in the cost share for the Monitoring Costs shall pay a three percent (3%) administrative fee on each payment to cover various administrative costs;

WHEREAS, MS4 Permittees that are not GWMA Members that participate in the cost share for the Monitoring Costs shall pay a five percent (5%) administrative fee on each payment to cover various administrative costs;

WHEREAS, currently a majority of MS4 Permittees tributary to the Los Angeles and San Gabriel River systems have committed to cost share for the Monitoring Costs;

WHEREAS, because of the financial savings and benefits resulting from this cost-sharing arrangement, other MS4 Permittees may request to participate in the cost sharing of the Monitoring Costs;

WHEREAS, the cost-share formula, set forth in Exhibit "A" of this Agreement, currently assumes the participation of the maximum number of MS4 Permittees required to comply with the monitoring requirements of the Harbor Toxic Pollutants TMDL;

WHEREAS, it is currently unknown how many MS4 Permittees will ultimately participate in the cost sharing of the Monitoring Costs;

WHEREAS, because some definite maximum cost share amount per participating Permittee is required for planning purposes, this Agreement requires each participating Permittee to submit an initial payment that includes the first year payment plus a deposit that is 25% of the first year payment cost identified in Exhibit "A" of this Agreement, to account for possible non-participation of some MS4 Permittees in the cost share for the Monitoring Costs;

WHEREAS, depending on how many MS4 Permittees ultimately participate in the cost sharing for the Monitoring Costs, each participating Permittee's annual cost share amount will be adjusted and the GWMA will notify each participating Permittee of its adjusted annual cost share amount in writing;

WHEREAS, the "Initial Payment Amount" and the "Annual Payment Amount" identified in Section 8 ("Financial Terms") of this Agreement represent the maximum dollar amounts that the Permittee is required to submit to the GWMA, but may be reduced based on the final number of MS4 Permittees that participate in the cost sharing for the Monitoring Costs;

WHEREAS, if the actual cost share amount is less than the Initial Payment Amount paid by the Permittee, the GWMA will notify the Permittee and shall credit any balance in excess of the actual cost share amount towards the Permittee's "Annual Payment Amount" in subsequent years;

WHEREAS, the Permittee desires to share in the Monitoring Costs;

WHEREAS, the Permittee and the GWMA are collectively referred to as the "Parties";

WHEREAS, the Parties have determined that authorizing GWMA to hire additional consultant as necessary to install the Monitoring Stations and conduct the monitoring required by the Harbor Toxic Pollutants TMDL will be beneficial to the Parties;

WHEREAS, the Permittee agrees to pay: (a) its proportional share of the Monitoring Costs to be incurred by the GWMA in accordance with the Cost Sharing Formula reflected in **Exhibit "A",** (b) a deposit of 25% of the initial cost share amount and a deposit of 25% of the annual cost share amount; and (c) applicable administrative fees to cover administrative costs; and

WHEREAS, the role of the GWMA is to: (1) invoice and collect funds from the Permittee to cover its portion of the Monitoring Costs; and (2) hire and retain consultants to install Monitoring Stations and conduct monitoring at the Monitoring Stations.

NOW, THEREFORE, in consideration of the mutual covenants and conditions set forth herein, the Parties do hereby agree as follows:

Section 1. Recitals. The recitals set forth above are fully incorporated as part of this Agreement.

Section 2. Purpose. The purpose of this Agreement is for the Permittee to cost share in the Monitoring Costs.

Section 3. Cooperation. The Parties shall fully cooperate with one another to achieve the purposes of this Agreement.

Section 4. Voluntary Nature. The Parties voluntarily enter into this Agreement.

Section 5. Binding Effect. This Agreement shall become binding on GWMA and the Permittee.

Section 6. Term. This Agreement shall commence on July 1, 2015 and shall expire on June 30, 2018, unless terminated earlier pursuant to this Agreement.

Section 7. Role of the GWMA.

(a) The GWMA shall invoice and collect funds from the Permittee to cover the Monitoring Costs; and

(b) The GWMA shall administer the consultants' contracts for the Monitoring Costs.

Section 8. Financial Terms.

(a) Initial Payment Amount. The Permittee shall pay no more than Eleven Thousand Six Hundred Sixty-Two Dollars and Thirty Cents ($11,662.30) for the initial payment ("Initial Payment Amount") , for the 2015-2016 fiscal year to the GWMA for managing the installation of the Monitoring Stations and the monitoring data collected at the Monitoring Stations for the 2015-2016 fiscal year. This Initial Payment Amount includes: (1) the Permittee's cost share amount ("Cost Share Amount") identified in **Exhibit "A"**, attached hereto and incorporated herein; (2) the administrative fee identified in subsection (c) of this Section 8; and (3) a deposit in the amount of 25% of the Permittee's Cost Share Amount identified in **Exhibit "A"**.

(b) Annual Payment Amount. For each subsequent fiscal year, commencing with the 2016-2017 fiscal year, the Permittee shall pay no more than Six Thousand Three Hundred Sixty Dollars and Ninety Cents ($6,360.90) ("Annual Payment Amount") annually on a fiscal year (July 1st to June 30th) basis to the GWMA in exchange for the monitoring data collected from the Monitoring Stations. This price assumes the participation of the maximum number of MS4 Permittees subject to the Harbor Toxic Pollutants TMDL. This Annual Payment Amount includes: (1) the Permittee's Cost Share Amount identified in **Exhibit "A"**, attached hereto and incorporated herein; (2) the administrative fee identified in subsection (c) of this Section 8; and (3) a deposit in the amount of 25% of the Permittee's Cost Share Amount identified in **Exhibit "A"**.

(c) Adjustment of Cost Share Based on Number of Participants. The "Initial Payment Amount" and the "Annual Payment Amount" identified in Section 8 ("Financial Terms") of this Agreement represent the maximum dollar amounts that the Permittee is required to submit to the GWMA, but may be reduced based on the final number of MS4 Permittees that participate in the cost sharing for the Monitoring Costs. In the event that fewer than the maximum number of MS4 Permittees participate, the GWMA will notify the Permittee in writing that the Permittee's cost share amount will be adjusted accordingly. If the Permittee's actual cost share amount plus administrative

costs are less than the Initial Payment Amount paid by the Permittee, the GWMA will notify the Permittee in writing and shall credit any balance in excess of the actual cost share amount towards the Permittee's "Annual Payment Amount" in subsequent years;

(d) Administrative Costs. As part of the Initial Payment Amount and the Annual Payment Amount, the Permittee shall also pay its proportional share of the GWMA's staff time for hiring the consultants and invoicing the Permittee, audit expenses and other overhead costs, including reasonable legal fees incurred by the GWMA in the performance of its duties under this Agreement ("Administrative Costs"). The GWMA shall charge five percent (5%) of each Permittee's Cost Share Amount identified in **Exhibit "A"** to the Permittee's annual invoice to cover the Permittee's share of the Administrative Costs.

(e) The Permittee's Initial Payment Amount shall cover the 2015-2016 fiscal year and is due upon execution of this Agreement, but in no event later than June 30, 2015. For each subsequent fiscal year, commencing with the 2016-2017 fiscal year, the GWMA shall submit annual invoices to the Permittee for the Annual Payment Amount no later than the April 1st prior to the new fiscal year.

(f) Upon receiving an invoice from the GWMA, the Permittee shall pay the invoiced amount to the GWMA within thirty (30) days of the invoice's date.

(g) The Permittee shall be delinquent if its invoiced payment is not received by the GWMA within forty-five (45) days after the invoice's date. If the Permittee is delinquent, the GWMA will: 1) verbally contact the representative of the Permittee; and 2) submit a formal letter from the GWMA Executive Officer to the Permittee at the address listed in Section 12 of this Agreement. If payment is not received within sixty (60) days of the original invoice date, the GWMA may terminate this Agreement. However, no such termination may be ordered unless the GWMA first provides the Permittee with thirty (30) days written notice of its intent to terminate the Agreement. The terminated Permittee shall remain obligated to GWMA for its delinquent payments and any other obligations incurred prior to the date of termination. If the GWMA terminates this Agreement because the Permittee is delinquent in its payment, the Permittee shall no longer be entitled to the monitoring data collected from the Monitoring Stations.

(h) Any delinquent payments by the Permittee shall accrue compound interest at the average rate of interest paid by the Local Agency Investment Fund during the time that the payment is delinquent.

Section 9. Independent Contractor.

(a) The GWMA is, and shall at all times remain, a wholly independent contractor for performance of the obligations described in this Agreement. The GWMA's officers, officials, employees and agents shall at all times during the term of this Agreement be under the exclusive control of the GWMA. The Permittee cannot control the conduct of the GWMA or any of its officers, officials, employees or agents. The

GWMA and its officers, officials, employees, and agents shall not be deemed to be employees of the Permittee.

(b) The GWMA is solely responsible for the payment of salaries, wages, other compensation, employment taxes, workers' compensation, or similar taxes for its employees and consultants performing services hereunder.

Section 10. Indemnification and Insurance.

(a) The Permittee shall defend, indemnify and hold harmless the GWMA and its officers, employees, and other representatives and agents from and against any and all liabilities, actions, suits proceedings, claims, demands, losses, costs, and expenses, including legal costs and attorney's fees, for injury to or death of person(s), for damage to property (including property owned by the GWMA) for negligent or intentional acts, errors and omissions committed by the Permittee or its officers, employees, and agents, arising out of or related to that Permittee's performance under this Agreement, except for such loss as may be caused by GWMA's negligence or that of its officers, employees, or other representatives and agents, excluding the consultant.

(b) GWMA makes no guarantee or warranty that any monitoring data prepared by the consultants shall be approved by the relevant governmental authorities. GWMA shall have no liability to the Permittee for the negligent or intentional acts or omissions of GWMA's consultants. The Permittee's sole recourse for any negligent or intentional act or omission of GWMA's consultants shall be against consultants and their insurance.

Section 11. Termination.

(a) The Permittee may terminate this Agreement for any reason, or no reason, by giving the GWMA prior written notice thereof, but the Permittee shall remain responsible for its entire Annual Payment Amount through the end of the current fiscal year during which Permittee terminates the Agreement and shall not be entitled any refund of any portion of said Annual Payment Amount. Moreover, unless the Permittee provides written notice of termination to the GWMA by February 15th immediately prior to the new fiscal year, the Permittee shall also be responsible for its Annual Payment Amount through the end of the new fiscal year (*e.g.*, If the Permittee terminates on March 1st, 2016, the Permittee is responsible for the Annual Payment Amounts for both FY 2015-2016 and FY 2016-2017. If the Permittee terminates on February 10, 2016, the Permittee is responsible for its Annual Payment Amount only for FY 2015-2016, not for FY 2016-2017). If the Permittee terminates the Agreement, the Permittee shall remain liable for any loss, debt, or liability otherwise incurred through the end of the new fiscal year.

(b) The GWMA may, with a vote of the GWMA Board, terminate this Agreement upon not less than thirty (30) days written notice to the Permittee. Any remaining funds not due and payable or otherwise legally committed to Consultant shall

be returned to the Permittee.

Section 12. Miscellaneous.

(a) The Permittee has been accepted as a participant in the cost sharing for the Monitoring Costs and shall not be entitled to appoint a representative or to vote or participate in any way in decisions assigned to GWMA Members. Participant status entitles the Permittee only to the monitoring data collected from the Monitoring Stations for any fiscal year in which the participant has paid its Annual Payment Amount.

(b) Notices. All Notices which the Parties require or desire to give hereunder shall be in writing and shall be deemed given when delivered personally or three (3) days after mailing by registered or certified mail (return receipt requested) to the following address or as such other addresses as the Parties may from time to time designate by written notice in the aforesaid manner:

To GWMA:

Ms. Toni Penn
GWMA Administrative/Accounting Assistant
GWMA
16401 Paramount Boulevard
Paramount, CA 90723

To the Permittee:

Mr. Frank Senteno, P.E.
Director of Public Works
City of El Monte
11333 Valley Blvd.
El Monte, CA 91731
fsenteno@elmonteca.gov

(c) Amendment. The terms and provisions of this Agreement may not be amended, modified or waived, except by a written instrument signed by all Parties.

(d) Waiver. Waiver by either the GWMA or the Permittee of any term, condition, or covenant of this Agreement shall not constitute a waiver of any other term, condition, or covenant. Waiver, by the GWMA or the Permittee, to any breach of the provisions of this Agreement shall not constitute a waiver of any other provision or a waiver of any subsequent breach of any provision of this Agreement.

(e) Law to Govern: Venue. This Agreement shall be interpreted, construed, and governed according to the laws of the State of California. In the event of litigation between the Parties, venue shall lie exclusively in the County of Los Angeles.

(f) No Presumption in Drafting. The Parties to this Agreement agree that the general rule than an agreement is to be interpreted against the Party drafting it, or causing it to be prepared, shall not apply.

(g) Severability. If any term, provision, condition or covenant of this Agreement is declared or determined by any court of competent jurisdiction to be invalid, void, or unenforceable, the remaining provisions of this Agreement shall not be affected thereby and this Agreement shall be read and construed without the invalid, void, or unenforceable provisions(s).

(h) Entire Agreement. This Agreement constitutes the entire agreement of the Parties with respect to the subject matter hereof and supersedes all prior or contemporaneous agreements, whether written or oral, with respect thereto.

(i) Counterparts. This Agreement may be executed in any number of counterparts, each of which shall be an original, but all of which taken together shall constitute but one and the same instrument, provided, however, that such counterparts shall have been delivered to all Parties to this Agreement.

(j) Legal Representation. All Parties have been represented by counsel in the preparation and negotiation of this Agreement. Accordingly, this Agreement shall be construed according to its fair language.

(k) Authority to Execute this Agreement. The person or persons executing this Agreement on behalf of Permittee warrants and represents that he or she has the authority to execute this Agreement on behalf of the Permittee and has the authority to bind Permittee.

IN WITNESS WHEREOF, the Parties hereto have caused this Agreement to be executed on their behalf, respectively, as follows:

DATE: 7/21/15

LOS ANGELES GATEWAY REGION INTEGRATED REGIONAL WATER MANAGEMENT JOINT POWERS AUTHORITY

Christopher S. Cash
GWMA Chair

DATE: _____

PERMITTEE
City of El Monte

Signature

Jesus M. Gomez
Print Name

CITY MANAGER
Print Title

EXHIBIT "A"

COST SHARE MATRIX
ATTACHED

Harbor Toxics TMDL Monitoring
Los Angeles River Watersheds

				(50% equal share, 50% by area) Installation and 1st Year's operations $110,000			(50% equal share, 50% by area) 2nd Year and subsequent years $60,000		
Group Name	Cities/ Permittees Involved	Area (acres)	Area	Base Cost	Area Cost	Total Cost	Base Cost	Area Cost	Total Cost
Upper Los Angeles River Watershed Group	Alhambra	4,884	1.3%	$653	$687	$1,340	$356	$375	$731
	Burbank	11,095	3.0%	$653	$1,561	$2,214	$356	$852	$1,208
	Calabasas	4,006	1.1%	$653	$564	$1,217	$356	$307	$664
	Glendale	19,588	5.3%	$653	$2,756	$3,409	$356	$1,503	$1,860
	Hidden Hills	961	0.3%	$653	$135	$788	$356	$74	$430
	La Canada Flintridge	5,534	1.5%	$653	$779	$1,432	$356	$425	$781
	Los Angeles	181,288	48.8%	$653	$25,511	$26,164	$356	$13,915	$14,271
	Montebello	5,356	1.4%	$653	$754	$1,407	$356	$411	$767
	Monterey Park	4,952	1.3%	$653	$697	$1,350	$356	$380	$736
	Pasadena	14,805	4.0%	$653	$2,083	$2,737	$356	$1,136	$1,493
	Rosemead	3,311	0.9%	$653	$466	$1,119	$356	$254	$610
	San Gabriel	2,645	0.7%	$653	$372	$1,025	$356	$203	$559
	San Marino	2,410	0.6%	$653	$339	$992	$356	$185	$541
	South Pasadena	2,186	0.6%	$653	$308	$961	$356	$168	$524
	Temple City	2,577	0.7%	$653	$363	$1,016	$356	$198	$554
	Unincorporated	40,553	10.9%	$653	$5,707	$6,360	$356	$3,113	$3,469
Lower Los Angeles River Watershed	Downey	3,546	1.0%	$1,306	$499	$1,805	$713	$272	$985
	Lakewood	51	0.0%	$1,306	$7	$1,313	$713	$4	$716
	Long Beach	12,301	3.3%	$1,306	$1,731	$3,037	$713	$944	$1,657
	Lynwood	3,098	0.8%	$1,306	$436	$1,742	$713	$238	$950
	Paramount	1,997	0.5%	$1,306	$281	$1,587	$713	$153	$866
	Pico Rivera	1,510	0.4%	$1,306	$212	$1,519	$713	$116	$828
	Signal Hill	774	0.2%	$1,306	$109	$1,415	$713	$59	$772
	South Gate	4,704	1.3%	$1,306	$662	$1,968	$713	$361	$1,074
Rio Hondo/San Gabriel River Water Quality Group	Arcadia	6,912	1.9%	$1,493	$973	$2,466	$814	$531	$1,345
	Azusa	0	0.0%	$1,493	$0	$1,493	$814	$0	$814
	Bradbury	512	0.1%	$1,493	$72	$1,565	$814	$39	$854
	Duarte	832	0.2%	$1,493	$117	$1,610	$814	$64	$878
	Monrovia	5,056	1.4%	$1,493	$711	$2,204	$814	$388	$1,202
	Sierra Madre	1,792	0.5%	$1,493	$252	$1,745	$814	$138	$952
	Unincorporated	1,792	0.5%	$1,493	$252	$1,745	$814	$138	$952
Upper Reach 2 Group	Bell	1,676	0.5%	$1,493	$236	$1,729	$814	$129	$943
	Bell Gardens	1,577	0.4%	$1,493	$222	$1,715	$814	$121	$935
	Commerce	4,195	1.1%	$1,493	$590	$2,083	$814	$322	$1,136
	Cudahy	786	0.2%	$1,493	$111	$1,603	$814	$60	$875
	Huntington Park	1,930	0.5%	$1,493	$272	$1,764	$814	$148	$962
	Maywood	754	0.2%	$1,493	$106	$1,599	$814	$58	$872
	Vernon	3,298	0.9%	$1,493	$464	$1,957	$814	$253	$1,067
Other	El Monte	4,482	1.2%	$5,225	$631	$5,856	$2,850	$344	$3,194
	South El Monte	1,577	0.4%	$5,225	$222	$5,447	$2,850	$121	$2,971
LACFCD (5%)	--	--	--	--	--	$5,500	--	--	$3,000
	Totals	**371,303**	**100.0%**	**$52,250**	**$52,250**	**$104,500**	**$28,500**	**$28,500**	**$57,000**

- GWMA members will pay an additional 3% in administrative costs
- Non-GWMA members will an additional 5% in administrative costs

- GWMA will collect a 25% deposit on each cost share amount listed in case a city decides to drop out

Should the following cities elect to participate, their fees will be as shown below.

Carson	54		$5,225	$8	$5,233	$2,850	$4	$2,854
Compton	6,060		$5,225	$848	$6,073	$2,850	$485	$3,335
San Fernando	1,518		$653	$213	$866	$356	$116	$472

Last update 5/28/2015

Area is preliminary and subject to revisions.

Harbor Toxics TMDL Monitoring
Los Angeles River Watersheds

Cost Share Breakdown	
Base Cost	
Area Cost	
LACFCD Contribution	
Total	

Additional Monitoring	
Gateway Cities	
Non-Gateway Cities	

Participating	
Agencies	

Cost	
1st Year	$ 110,000
2nd Year	$ 60,000

Last update 5/28/2015

Area is preliminary and subject to revisions.

Harbor Toxics TMDL Monitoring
San Gabriel River Watersheds

				(50% equal share, 50% by area) Installation and 1st Year's operations $110,000			(50% equal share, 50% by area) 2nd Year and subsequent years $60,000		
Group Name	Cities/ Permittees Involved	Area (acres)	Area	Base Cost	Area Cost	Total Cost	Base Cost	Area Cost	Total Cost
Rio Hondo/San Gabriel River Water Quality Group	Arcadia	128	0.1%	$1,493	$41	$1,534	$814	$22	$837
	Azusa	5,952	3.6%	$1,493	$1,897	$3,389	$814	$1,035	$1,849
	Bradbury	704	0.4%	$1,493	$224	$1,717	$814	$122	$937
	Duarte	64	0.0%	$1,493	$20	$1,513	$814	$11	$825
	Monrovia	64	0.0%	$1,493	$20	$1,513	$814	$11	$825
	Sierra Madre	0	0.0%	$1,493	$0	$1,493	$814	$0	$814
	Unincorporated	1,344	0.8%	$1,493	$428	$1,921	$814	$234	$1,048
Upper San Gabriel River	Baldwin Park	4,335	2.6%	$1,742	$1,381	$3,123	$950	$753	$1,703
	Covina	4,481	2.7%	$1,742	$1,428	$3,170	$950	$779	$1,729
	Glendora	9,307	5.7%	$1,742	$2,966	$4,707	$950	$1,618	$2,568
	Industry	7,647	4.7%	$1,742	$2,437	$4,178	$950	$1,329	$2,279
	La Puente	2,207	1.3%	$1,742	$703	$2,445	$950	$384	$1,334
	Unincorporated	40,812	24.9%	$1,742	$13,005	$14,746	$950	$7,093	$8,043
East San Gabriel Valley Watershed Management Area	Claremont	5,790	3.5%	$2,613	$1,845	$4,457	$1,425	$1,006	$2,431
	La Verne	5,030	3.1%	$2,613	$1,603	$4,215	$1,425	$874	$2,299
	Pomona	7,929	4.8%	$2,613	$2,527	$5,139	$1,425	$1,378	$2,803
	San Dimas	8,539	5.2%	$2,613	$2,721	$5,333	$1,425	$1,484	$2,909
Lower San Gabriel River	Bellflower	1,216	0.7%	$1,045	$387	$1,432	$570	$211	$781
	Cerritos	5,645	3.4%	$1,045	$1,799	$2,844	$570	$981	$1,551
	Diamond Bar	4,563	2.8%	$1,045	$1,454	$2,499	$570	$793	$1,363
	Downey	4,237	2.6%	$1,045	$1,350	$2,395	$570	$736	$1,306
	Lakewood	1,293	0.8%	$1,045	$412	$1,457	$570	$225	$795
	Long Beach	2,138	1.3%	$1,045	$681	$1,726	$570	$372	$942
	Norwalk	6,246	3.8%	$1,045	$1,990	$3,035	$570	$1,086	$1,656
	Pico Rivera	3,929	2.4%	$1,045	$1,252	$2,297	$570	$683	$1,253
	Santa Fe Springs	5,683	3.5%	$1,045	$1,811	$2,856	$570	$988	$1,558
	Whittier	9,382	5.7%	$1,045	$2,990	$4,035	$570	$1,631	$2,201
Other	El Monte	1,577	1.0%	$2,613	$503	$3,115	$1,425	$274	$1,699
	Irwindale	6,152	3.8%	$2,613	$1,960	$4,573	$1,425	$1,069	$2,494
	South El Monte	1,823	1.1%	$2,613	$581	$3,193	$1,425	$317	$1,742
	Walnut	5,757	3.5%	$2,613	$1,834	$4,447	$1,425	$1,001	$2,426
LACFCD (5%)	--	--	--	--	--	$5,500	--	--	$3,000
	Totals	163,974	100.0%	$52,250	$52,250	$104,500	$28,500	$28,500	$57,000

- GWMA members will pay an additional 3% in administrative costs
- Non-GWMA members will an additional 5% in administrative costs
- GWMA will collect a 25% deposit on each cost share amount listed in case a city decides to drop out

Should the following cities elect to participate, their fees will be as shown below.

La Habra Heights	700		$2,613	$224	$2,837	$1,425	$119	$1,544
West Covina	10,283		$1,742	$3,291	$5,033	$950	$1,748	$2,698

Last update 5/28/2015

Area is preliminary and subject to revisions.

Harbor Toxics TMDL Monitoring
San Gabriel River Watersheds

Cost Share Breakdown	
Base Cost	
Area Cost	
LACFCD Contribution	
Total	

Additional Monitoring	
Gateway Cities	
Non-Gateway Cities	

Participating	
Agencies	

Cost	
1st Year	$ 110,000
2nd Year	$ 60,000

Last update 5/28/2015

Area is preliminary and subject to revisions.

Harbor Toxics TMDL Monitoring
Coyote Creek Watersheds

				(50% equal share, 50% by area) Installation and 1st Year's operations $110,000			(50% equal share, 50% by area) 2nd Year and subsequent years $60,000		
Group Name	Cities/ Permittees Involved	Area (acres)	Area	Base Cost	Area Cost	Total Cost	Base Cost	Area Cost	Total Cost
Lower San Gabriel River	Artesia	1,037	2.0%	$2,613	$1,062	$3,675	$1,425	$579	$2,004
	Cerritos	5,645	11.1%	$2,613	$5,781	$8,394	$1,425	$3,153	$4,578
	Diamond Bar	4,563	8.9%	$2,613	$4,673	$7,286	$1,425	$2,549	$3,974
	Hawaiian Gardens	614	1.2%	$2,613	$629	$3,241	$1,425	$343	$1,768
	La Mirada	5,018	9.8%	$2,613	$5,139	$7,752	$1,425	$2,803	$4,228
	Lakewood	1,293	2.5%	$2,613	$1,324	$3,937	$1,425	$722	$2,147
	Long Beach	2,138	4.2%	$2,613	$2,190	$4,802	$1,425	$1,194	$2,619
	Norwalk	6,246	12.2%	$2,613	$6,397	$9,009	$1,425	$3,489	$4,914
	Santa Fe Springs	5,683	11.1%	$2,613	$5,820	$8,433	$1,425	$3,175	$4,600
	Whittier	9,382	18.4%	$2,613	$9,608	$12,221	$1,425	$5,241	$6,666
Other	Unincorporated	9,400	18.4%	$26,125	$9,627	$35,752	$14,250	$5,251	$19,501
LACFCD (5%)	--	--	--	--	--	$5,500	--	--	$3,000
	Totals	51,019	100.0%	$52,250	$52,250	$104,500	$28,500	$28,500	$57,000

- GWMA members will pay an additional 3% in administrative costs
- Non-GWMA members will an additional 5% in administrative costs
- GWMA will collect a 25% deposit on each cost share amount listed in case a city decides to drop out

Should La Habra Heights choose to participate, the fee will be as below and the fee for Unincoporated will change as shown below.

La Habra Heights	3,242		$13,063	$3,307	$16,369	$7,125	$1,816	$8,941
Unincorporated	9,400		$13,063	$9,588	$22,651	$7,125	$5,264	$12,389

Last update 5/28/2015

Area is preliminary and subject to revisions.

Harbor Toxics TMDL Monitoring
Coyote Creek Watersheds

Cost Share Breakdown	
Base Cost	
Area Cost	
LACFCD Contribution	
Total	

Additional Monitoring	
Gateway Cities	
Non-Gateway Cities	

Participating	
Agencies	

Cost	
1st Year	$ 110,000
2nd Year	$ 60,000

Last update 5/28/2015

Area is preliminary and subject to revisions.