City of Arcadia Alternate Compliance Plan

December 2016

Los Angeles River Watershed Trash TMDL Prepared Pursuant to Resolution No. R15-006



Revised 05/10/17

Executive Summary

This Alternate Compliance Plan has been prepared with specific application to the California Regional Board, Los Angeles Region Resolution R15-006, commonly referred to as the Los Angeles River Trash TMDL Amendment.

As documented in reports annually submitted to the Regional Board, Arcadia has demonstrated continued compliance with the Trash TMDL (R07-12) since the original effective date in 2008. The Trash TMDL Amendment, adopted in 2015, provides Los Angeles River MS4 permittees with several options to demonstrate compliance with the final WLA. As described in this Report, Arcadia has achieved compliance for the reporting year in accordance with the Amendment.

Background

The Los Angeles Regional Water Quality Control Board (RWQCB) approved the Trash TMDL for the Los Angeles River watershed on September 19, 2001. This TMDL was subsequently rescinded on July 17, 2006. On September 3, 2008 the current Trash TMDL (Resolution 07-012) became effective. This TMDL established a nine-year schedule for reducing trash discharges from sources along the Los Angeles River to meet the numeric target of zero discharged by September 30, 2016.

An Amendment to the Trash TMDL (Resolution No. 15-006) was approved by the Regional Board on June 11, 2016, and was subsequently approved by the State Water Resources Control Board on November 17, 2015, and the USEPA on June 30, 2016. This Amendment provides five approaches for permittees subject to this TMDL to demonstrate compliance with the final zero trash waste load allocation (WLA). These approaches are:

- 1. 100% of all conveyances discharging to the Los Angeles River are retrofitted with trash "full capture" systems (FCSs).
- 2. 98% of all catch basins within the agency's jurisdictional land area in the watershed are retrofitted with FCSs¹. This approach requires a report on the technical infeasibility for the remaining catch basins and a report documenting partial capture devices and institutional control effectiveness.
- 3. 99% or greater reduction of the baseline load attained through a combination of FCS, partial capture devices, and institutional controls, calculated using a mass balance approach based on a trash daily generation rate (DGR) study. This approach requires all FCSs, partial capture devices, and institutional controls be properly sized, operated, and maintained. Continued DGR studies are also required for compliance reassessment.
- 4. 97% or greater reduction of the baseline load for two or more consecutive years, attained through a combination of FCS, partial capture devices, and institutional controls, and calculated using a mass balance approach based on a trash daily generation rate (DGR) study. This approach requires an evaluation of institutional control effectiveness and any potential enhancements, and a demonstration that opportunities to implement partial capture devices have been fully exploited. Continued DGR studies are also required for compliance reassessment.
- 5. A scientifically based alternative as approved by the Regional Board.

¹ 98% of all catch basins within the agency's jurisdictional land area in the watershed are retrofitted with FCS or, alternatively, 98% of the jurisdiction's drainage area is addressed by FCS and at least 97% of the catch basins (or, alternatively, drainage area) within the agency's jurisdiction in the subwatershed (the smaller of the HUC-12 equivalent area or tributary subwatershed) are retrofitted with FCS.

Alternative approaches #2 through #5 also require responsible jurisdictions to 1) demonstrate that existing studies of institutional controls and partial capture devices are representative and transferable to the implementing area, 2) provide a schedule for periodic effectiveness demonstrations and evaluations and 3) properly size, operate, and maintain FCSs and partial capture devices consistent with sizing, operation, and maintenance schedules used to determine their effectiveness.

Compliance Approach

The completion of the City of Arcadia's 2016 DGR study has demonstrated the City is in compliance with Approach #3. For the most recent reporting year of 2015-2016 Arcadia reported a 99.19% percent compliance level.

Requirements for Compliance Approach #3 and City Compliance Status

Pursuant to the Amendment to the Los Angeles River Watershed Trash TMDL, responsible jurisdictions may achieve compliance with the final WLA when they:

"...employ institutional controls or a combination of full capture systems, partial capture systems, and institutional controls [which result in a] reduction of trash from the jurisdiction's baseline load...between 99% and 100% as calculated using a mass balance approach, and the [trash capture] devices are properly sized, operated, and maintained."

The City's WLA reduction is between 99% and 100%

City Status: For the most recent reporting year of 2015-2016 Arcadia reported a 99.93% percent compliance level. This was verified with the Daily Generation Rate study during the summer of 2016, explained in Attachment A. 2

Summary of Full Capture Systems, Partial Capture Systems, and Institutional Controls

The results obtained during the 2016 DGR study indicated an effective implementation of institutional control measures such as anti-littering statutes, enhanced street sweeping, catch basin cleaning, trash/recycling pick-up, public outreach, and community clean-up programs. Additionally, the newly adopted Los Angeles County Bag Ban coincides with the City's Ordinance that prohibits single-use plastic bags. Details on this measure, as well as a quantification of its potential benefits, is included in Attachment C. Summaries of all remaining implemented Institutional Controls are also included in Attachment B³. The City of Arcadia expects a similar reduction through the continued implementation of its plastic bag ban.

The City has installed 234 full-capture screens in city-owned catch basins large enough to accommodate them. The City has also installed ten (10) ARS partial capture systems which are assigned 86% efficiency in catch basins⁴. Together, these capture devices account for approximately 91.55% of the city –owned catch basins located in Arcadia.

² Attachment A City of Arcadia, Daily Generation Rate Study 2016

³ Attachment B City of Arcadia, Currently Implemented Institutional Controls

⁴ Effectiveness Rate based on City of Los Angeles Technical Report: June 2006 Assessment of Catch Basin Opening Screen Covers

Characterization

Daily Generation Rate

The Daily Generation Rate (DGR) method is identified in the 2007 LAR Trash TMDL as a method for measuring the effectiveness of the institutional control measures. This method uses a mass balance approach based on a daily trash generation rate for representative drainage areas in the watershed. The DGR study is broken down into two phases, which consists of: 1) physically collecting the trash, and 2) quantifying the collected materials. Collection routes are selected in different designated land-use areas. Representative study areas are selected to include five priority land-use types:

- Commercial
- High/Low Density Residential
- Industrial
- Public Facilities and Educational Institutions
- Open Space and Recreation

At the conclusion of each route, the trash collected from the streets in the commercial, residential, industrial, public facilities/ educational institutions, and open space/recreation areas is delivered directly to a City facility where the trash is quantified per route.

Quantification

The collected trash from each individual land-use area is quantified and classified by weighing 5-gallon buckets and sorting the contents into five categories, according to material type.

- Plastic: bags, bottles, jugs, Styrofoam
- Paper: bags, newspaper, scraps, wrappers
- Glass: bottles, scraps, broken windows
- Metal: aluminum, steel, copper
- Other: cigarette butts, food, cloth, miscellaneous

The visually estimated composition of the trash loads was averaged for each land-use and is summarized in Table 1.

Land Usage	Plastic	Paper	Glass	Metal	Other		
Commercial	45%	47%	0%	5%	3%		
Residential	45%	45%	0%	5%	5%		
Industrial	39%	47%	2%	5%	7%		
Public Facilities/Educational Institutions	40%	44%	0%	3%	13%		
Open Space/ Recreation	52%	33%	1%	5%	9%		

Table 1: Trash Collected by Material Type

An estimate of the trash produced for each land-use area was calculated by taking the amount of trash collected and extrapolating that value to the remaining number of curb miles for that land-use area. Table 2 lists the DGRs by land use.

Land Usage	DGR per Curb Mile (lbs/mile)
Commercial	0.2975
Residential	0.0396
Industrial	0.7123
Public Facilities/ Educational Institutions	0.2944
Open Space/ Recreation	0.1545

Table 2: Daily Generation Rates by Land Use

The 2016 DGR study showed an annual trash discharge into the City's storm drain system of 756 lbs. This equates to a 99.19% reduction of trash from the City's baseline WLA. The city will continue to maintain structural and institutional controls and anticipates a compliance level above 99% in the future. Together, the mass balance approach coupled with structural catch basin compliance and institutional control measures demonstrate that the City has effectively met the compliance target of the Los Angeles River Trash TMDL.

Continued Compliance

Following the recommendation in Section 2.2 of the June 15, 2015, LARWQCB Staff Report, *Reconsideration of Certain Technical Matters of the Trash TMDLs for the Los Angeles River Watershed and the Ballona Creek Watershed*, the City requests to "reduce the frequency of DGR calculations from annually to once every five years as long as there are no reductions in implementation of partial capture devices and institutional controls over the time period and no significant changes in land use that would render the last DGR calculation unrepresentative of current land uses and trash controls within the agency's jurisdiction."

The 2016 DGR Study coupled with structural catch basin compliance and institutional controls demonstrates that the City of Arcadia has met the compliance target of the Los Angeles River Final Trash TMDL as ammended by R15-006. The City's continued effort coupled with the current compliance level effectively meets the 100% load reduction.

Attachment A: Daily Generation Rate Study 2016

DAILY GENERATION RATE STUDY December 15, 2016

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DAILY GENERATION RATE STUDY

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DAILY GENERATION RATE STUDY

Executive Summary

This report summarizes the activities and findings of the Daily Generation Rate (DGR) study, which was conducted in the City of Arcadia (City) during the summer of 2016. The calculated DGR is used to assess the City's efforts to comply with the Trash Total Maximum Daily Load (TMDL) for the Los Angeles River. The TMDL requires that by September 30, 2016, all municipal permittees reduce trash discharges to the Los Angeles River by 100% from their Baseline Waste Load Allocation (BWLA). However, the 2015 Los Angeles River Trash TMDL Amendment provides permittees several other options to demonstrate compliance. The City's strategy for compliance is based on Approach #3, which includes all of the following—full exploitation of the capture systems, evaluation of institutional controls, and a waste load allocation (WLA) reduction greater than 99%. The results of the study discussed herein indicate that the City is in compliance with the Trash TMDL for this year.

TMDL Background

The Los Angeles River Trash TMDL was adopted by the Regional Water Quality Control Board (RWQCB) in August 2007. Subsequently, in December 2009, the RWQCB voted to incorporate the Los Angeles River Trash TMDL into the Municipal Stormwater Permit to make the numerical trash limits enforceable. The Trash TMDL established a nine-year schedule for reducing trash discharges from sources along the Los Angeles River to meet the numeric target of zero trash in the water. The baseline Waste Load Allocation (WLA) or starting point for reductions, assigned to the City by the Trash TMDL is 93,036 pounds—by September 30, 2016, the TMDL required that all Permittees reduce their Waste Load Allocation (WLA) by 100%. However, an Amendment to the Trash TMDL (Resolution No. 15-006), approved by the Regional Board on June 11, 2016, provides alternate approaches to demonstrate compliance.

Daily Generation Rate

The DGR Study consisted of two phases: first the field collection of trash, and then its quantification. Collection routes were selected in different designated land-use areas. Representative study areas were selected to include five priority land-use types:

- Commercial
- High/Low Density Residential
- Industrial
- Public Facilities and Educational Institutions
- Open Space and Recreation

Field Collection

Once the land-use areas were designated, a manual pick-up was performed. To facilitate this process, a pick-up reaching tool was used. Pieces of trash ¹/₄ of an inch and greater were collected, anything smaller than that is not subject to the Trash TMDL. Manual collection also prevented trash entering the catch basins and precluded the need to block the catch basin inlets. At the conclusion of each collection activity, the trash collected from the different land use areas was delivered to a City facility where the trash was quantified



Picture 1: Trash being collected

per route. The collected street litter was placed in separate piles to avoid mixing. Precise curb miles and collection routes are located on pages 11-13 and are summarized in the following table.

Land Usage	Estimated Total Curb Miles	Designated Curb Miles	Field Collection Dates
Commercial	19.8	2	July 25 th –Aug. 22 nd
Residential	251.8	9	July 27th–Aug. 24th
Industrial	6.5	1	July 27th–Aug. 24th
Public Facilities / Education Institutions	7.1	1	July 25 th –Aug. 22 nd
Open Space / Recreation	6.6	1	July 25 th –Aug. 22 nd

Table 1: Land Usage Miles

Quantification

This phase took place at a City facility and consisted of evaluating and weighing the trash. The loads of trash were transported from the designated routes and separated into the individual land-use areas.

This study used the definition of litter as defined by the California Government Code Section 68055.1(g):

"Litter means all improperly discarded waste material, including, but not limited to, convenience food, beverage, and other product packages or containers constructed of steel, aluminum, glass, paper, plastic, and other natural and synthetic materials, thrown or deposited on the lands and water of the state, but not including the properly discarded waste of the primary processing of agriculture, mining, logging, sawmilling or manufacturing."

Since trash was collected using a manual pick-up procedure, the discerning field staff gathered trash as defined above, which avoided the need to sort and separate green waste from anthropogenic trash. The collected trash from each individual land-use area was then manually quantified and classified using the following procedures:

- 1. Gardening gloves were utilized to grab the trash, from only one specific load, and placed onto 5-gallon buckets.
- 2. The bucket was suspended from a hand-held device that measured the total weight. The weight of the bucket was subtracted.
- 3. The trash was sorted into five categories, according to material content/type, and approximately quantified (by percent).

Standard safety precautions were followed during the trash weighing process. This process was repeated for the remainder of the loads of trash. Trash collected from each area was quantified separately. All piles were kept separated as a quality control measure to avoid combining the trash from the five different areas.

Measuring

A digital scale was used to weigh the trash, and a 5-gallon bucket was used to estimate an approximate volume of trash. Each full bucket of anthropogenic trash was analyzed separately and was sorted and characterized by the different type of constituents.

Results

Data collected from the above process is summarized in the following table:



Picture 2: Weighing the trash.

Land Usage	Designated Curb Miles	Trash (lbs)	Days Since Last Street Sweeping
Commercial	2	17.81	6
Residential	9	10.69	6
Industrial	1	21.37	6
Public Facilities/Educational Institutions	1	8.88	6
Open Space / Recreation	1	4.63	6
Totals	14	63.4	

Table 2: Trash Collected per Land Usage Area

The characterization of trash was done by separating it according to the following constituents:

- Plastic: bags, bottles, jugs, Styrofoam
- Paper: bags, newspaper, scraps, wrappers
- Glass: bottles, scraps, broken windows
- Metal: aluminum, steel, copper
- Other: cigarette butts, food, cloth, miscellaneous

The visually estimated composition of the trash loads was averaged for each land-use and is summarized in the following table:

Land Usage	Plastic	Paper	Glass	Metal	Other
Commercial	45%	47%	0%	5%	3%
Residential	45%	45%	0%	5%	5%
Industrial	39%	47%	2%	3%	7%
Public Facilities/Educational Institutions	40%	44%	0%	3%	13%
Open Space / Recreation	52%	33%	1%	5%	9%

Table 3: Composition

DGR per Land-Use Area

An estimate of the trash produced for each land-use area was calculated by taking the amount of trash collected for the study and extrapolating that value to the remaining number of curb miles for that land-use area. The DGR was then determined by converting the trash per week (dependent on street sweeper's schedule) to trash collected per day. The final DGR value represents the amount of the trash generated for the entire city per day.

Trash Discharge Levels

The annual amount of trash that is being discharged into the storm drain system on a yearly basis was determined using the DGR values and the number of rain events during the year.

Table 4: DGR					
Land Usage	DGR (lbs/day)	DGR / Curb Mile (lbs./mi)			
Commercial	5.89	0.2975			
Residential	9.98	0.0396			
Industrial	4.63	0.7123			
Public Facilities/	2.09	0.2944			
Open Space/ Recreation	1.02	0.1545			
Total	23.61				

The stormwater trash discharge for a given rain event was calculated by multiplying the number of days since the last street sweeping by the DGR. The average number days between a rain event and last street sweeping was estimated to be 3.5 for all areas since street sweeping takes place weekly. The estimated weight of trash draining to catch basins during rain events was obtained by multiplying the average number of days between a rain event and the last street sweeping by the DGR values. The annual weight of trash draining to the catch basins was estimated by multiplying calculated values by the total number of rain occurrences during the 2015-2016 season (9 rain events recorded⁴). These annual values were the estimated amount of trash being discharged into the

storm drain system but does not account for the total amount of trash that was removed by the City and/or the County of Los Angeles Flood Control District during catch basin cleanouts. The final discharge was considered to be the worst-case scenario for the maximum annual weight of trash draining to catch basins from rain events.

Table 5 shows the calculated amount of trash washed into the storm drain system in the 2015-2016 season.

Land Usage	Total Discharge (lbs.)
Commercial	189
Residential	320
Industrial	148
Public Facilities/Educational Institutions	67
Open Space/ Recreation	32
Total	756

Table 5: Stormwater Trash Discharge

Conclusion

The city's estimated Total Storm Year Trash Discharge was 756 pounds. The baseline waste load allocation for Arcadia is 93,036 pounds, so this accounts for a WLA reduction of 99.19%. Since the City's WLA reduction for the year is greater than 99%, Arcadia fulfills Criterion 1 of Compliance Approach #3 in the Trash Amendment.

 $^{^{4}}$ Value obtained from the National Oceanic and Atmospheric Administration (NOAA) National Weather Service. Only rain events greater than 0.25 inch were considered

DGR Calculations

Commercial Area

- W_{C} = 17.87 lbs. Weight of trash collected for commercial area during 30-day study
- C_C= 2.0 mi Total commercial curb miles studied per round (5 rounds total)
- T_{C} = Total commercial curb miles

19.8 mi

 L_{S} =
 Number of days of study
 30 days

 Weight (lbs.) per day =
 $[(W_{O}/L_{S})/C_{C}]^{*} T_{C}$

 DGR =
 5.89 lbs./day

Final Commercial DGR= 5.89 lbs./ day

Residential Area

DGR =

- W_{R} = 10.69 lbs. Weight of trash collected for residential area during 30-day study
- *C_R*= 9.0 *mi* Total residential curb miles studied per round (5 rounds total)
- T_{R} = Total residential miles 25

L_S= Number of days of study

Weight (lbs.) per day =

251.8 mi 30 days [(*W_R* /*L_S*)/ *C_R*]* *T_R* [(10.69/30)/9]*251.8 9.98 lbs./day

Final Residential DGR= 9.98

9.98 lbs./ day

DGR Calculations

Industrial Area

- W_I= 21.37 lbs. Weight of trash collected for industrial area during 30-day study
- *C_I*= 1.0 mi Total industrial curb miles per round (5 rounds total)
- T_{I} = Total industrial curb miles
- L_S= Number of days of study

Weight (lbs.) per day =

DGR =

30 days [(*W∥ L*_S)/ *Ci*]* *T*/ [(21.37/30)/1)]*6.5 *4.63 lbs./day*

Final Industrial DGR=

R= 4.63 lbs./ day

6.5 mi

Public Facilities / Educational Institutions Area

 $W_{E=}$ 8.88 lbs.Weight of trash collected for public/educational area during 30-day
study $C_{E=}$ 1.0 miTotal public/educational curb miles per round (5 rounds total) $T_{E=}$ Total public/educational curb miles7.1 miLs=Number of days of study30 daysWeight (lbs.) per day = $[(W_{E}/L_S)/C_E]^* T_E$
[(8.88/30)/1)]*7.1DGR =2.09 lbs./day

Final Public/Educational DGR= 2.09 lbs./ day

CITY OF ARCADIA | 9/30/2015

DGR Calculations

Open Space/Recreation Area

W ₀ =	4.63 lbs.	Weight of trash collected for open space/rec area during 30-day study				
$C_0 =$	1 mi	Total open space/rec area curb miles per round (5 rounds total)				
$T_0=$	Total open sp	bace/rec curb miles	6.6 mi			
$L_s =$	Number of days of study		30 days			
	Weight (lbs.) per day =		[(<i>W_o</i> / <i>L_s</i>)/ <i>C_o</i>]* <i>T_o</i> [(4.63/30)/1)]*6.6			
	DGR =		1.02 lbs./day			

Final Open Space/Recreation DGR= 1.02 lbs./ day



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Study Mileage: 2.0 curb miles (i.e. survey both sides of street)

RESIDENTIAL AREA ROUTE



Study Mileage: 9.0 curb miles (i.e. survey boths sides of street)

INDUSTRIAL AREA ROUTE



Study Mileage: 1.0 curb miles (i.e. survey one side of street)



PUBLIC/ EDUCATIONAL AREA ROUTE

Study Mileage: 1.0 curb miles (i.e. survey one side of street)





Study Mileage: 1.0 curb miles (i.e. survey 0.84 curb miles of one side of street, plus 0.16 curb miles of other side of street)

Attachment B: Currently Implemented Institutional Controls

Attachment B-Currently Implemented Institutional Controls

Currently Implemented Institutional Controls

Compliance Approach #3 requires "institutional controls shall be deemed in compliance with the final WLA when the reduction of trash from the jurisdiction's baseline load is between 99% and 100%". Listed below is an inventory of currently implemented institutional controls. The effectiveness of these institutional controls is demonstrated through the City's 2016 Daily Generation Rate Study.

Proposed Plastic Bag Ban Ordinance

The City of Arcadia prohibits single-use plastic bags. The City hosted a Plastic Bag Ban Workshop on Wednesday, March 9, 2016 at the Council Chambers, where the Public Works Services Department provided details of the program and solicited input on the proposed Plastic Bag Ban Ordinance. Several more workshops are proposed to educate the public on the ban.

There is quantitative evidence of the effectiveness of these bans on decreasing trash discharge to the storm drain system. The City of Los Angeles' "Quantification Study of Institutional Measures for Trash TMDL Compliance 2012-2013" is an assessment of the City of Los Angeles' institutional measures and their effectiveness. The study discusses the decrease in the percentage of plastics during trash clean-up events since 2009. The ban on plastic bags is believed to have had a substantial impact; "During Year 1 of this Study (summer 2012), over 1,700 single use plastic grocery bags were collected; however, in Year 2 (summer 2013), just over 850 plastic bags were found within the Study areas, representing a 51 percent reduction in number of items. This number is expected to continue to drop as the City complies with the new ordinance."

The City of Arcadia expects a similar reduction through the continued implementation of its plastic bag ban.

Sweeping

The City of Arcadia sweeps the entire city each week, except private streets and streets without a curb and gutter.

Public Outreach

The City provides and produces stormwater pollution prevention outreach materials addressing trash pollution through the following: print and social media (brochures, newsletters, bill inserts, and City website), environmental booths during City-sponsored events, and annual business and K-12 school outreach campaigns. During outreach events, city staff demonstrates an interactive enviroscape display that allows residents to see how pollutants such as trash, oils, and pet waste drain to our waterways. Stormwater materials are also distributed annually to local businesses and to all K-12 schools during Earth Day.

Residential Trash Collection

The City of Arcadia contracts with Waste Management Inc. for residential and multi-family trash and recycling collection services. Residential trash is collected every Wednesday. Additionally, large bins are available for residents to help dispose of waste from home remodeling, major landscaping, roofing, etc.

Attachment B-Currently Implemented Institutional Controls

Household Generated Special Materials Program

Waste Management Inc. offers residents of Arcadia a home pick-up collection service for household special items such as used motor oil, old cans of paint, and electronic waste. Through this program, residents can schedule a collection of these materials. Residents are allowed up to 3 collections per year.

Bulky Item Program

Waste Management Inc. offers four free bulky item pickups per calendar year for each single-family residential account. Multi-family residents are allowed two free bulky item pickups per calendar year for each multi-family residential account.

Commercial Refuse Collection

The City has three permitted commercial haulers to assist with refuse and recycling needs: Republic Services, Waste Management Inc., and Valley Vista Services. Commercial business refuse collection is provided separately from residential refuse collection.

Used Motor Oil Recycling

The City of Arcadia has five (5) Used Oil Collection Centers located citywide. In addition, the City provides free used oil containers, funnels and oil change mats to all Arcadia residents at our collection centers and the Public Works Services Department, located at 11800 Goldring Rd, Arcadia.

Part 7.1.C(1)(b)(2) L.A. County MS4 Permit City of Arcadia Annual Report (Dec-2016)

Date: 12/15/2016 Reporting Period: 2016-2016 Prepared by JLHA

		Total Storm Year Tr	ash Discharge by Rep	orting Period
Col. 1	Col. 2	Col. 3	Col. 4	Col. 5
Reporting Period	Total Trash Discharged (lb. or gal.)	Effluent Limitation (Ib. or gal.)	Compliance	Comments
31-Oct-10				
31-Oct-11				
31-Oct-12				
31-Oct-13				
31-Oct-14				
31-Oct-15	1,139	3,070		
31-Oct-16	756	0	99.19	This year's study indicates that the City is within a 99.19 percent compliance level. See attached Alternative Compliance Plan.
		-		
Baseline Waste Load	d Allocation	93,036		
Notations:				
Form	Continue to add to this form	n for each annual reporting pe	eriod	
Column 1:	Reporting Period: Part 7.1.	(C)(1) of Order No. 01-182 as	amended by Order No. R4-2	2009-0130
Column 2:	As calculated pursuant to F	Part 7.1.(B)(1)(b)(2) of Order I	No. 01-182 as amended by O	rder No. R4-2009-0130
	Alternative approaches per	Part 7.1.(B)(1)(b)(3) must be	approved in advance by the	Executive Officer
Column 3:	Effluent Limitation per Part	7.1, Appendix 7-1, Table 1a	or 1b, of Order No. 01-182 as	amended by Order No. R4-2009-0130
Column 4:	Compliance - Yes, if total s	torm year trash discharge is l	ess than or equal to applicab	le Interim or Final Effluent Limitation
Column 5:	Provide comments, if neces	ssary		

Institutional Controls Total Storm Year Trash Discharge

Part 7.1.C(1)(b)(2) L.A. County MS4 Permit **City of Arcadia Annual Report (Dec-2016)**

Date: 12/15/2016 Reporting Period: 2015-2016 Prepared by JLHA

Rainfall	Station	Arcadia 2.1	NNE, Pasa	adena 1.8 E			
				Total Trash D	ischarged by	y Storm Event	
Col. 1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6	Col. 7	Col. 8
DGR	Date of Last Street Sweeping	Date of Storm Event	Precipitation Depth	Davs	Trash Recovered from Catch Basins	Storm Event Trash Discharge	Comments
23.6	09/30/15	10/05/15	0.5	5	0	118 1	Like most cities, the entire City of Arcadia
23.6	01/04/16	01/05/16	2.07	1	0	23.6	is not swept in one day. Approximately
20.0	01/04/16	01/06/16	0.82	2	0	17 2	actual parts of the City are swent weekly
23.6	01/25/16	01/31/16	0.02	6	0	141 7	Monday through Friday. Thus during any
23.0	02/11/16	02/17/16	0.25	6	0	1/1 7	given rain event different parts of the City
23.0	02/11/10	02/17/10	0.40	0	0	47.0	given fail event, unerent parts of the Ony
23.0	03/04/10	03/00/10	0.02	2	0	41.2	Were swept between 1 to 7 days
23.0	03/04/10	03/07/10	0.28	3	0	70.0	previously. Raintali data was collected
23.0	03/08/10	03/11/10	0.30	3	0	10.8	from the closest rainfall station. In cases
							a particular storm, the next closest rainfall station was used. Using the DGR of 23.6 lbs, and accounting for the week-long process to clean all areas of the City, the storm event trash discharge equates to an approximate discharge of 83.9 lbs per
Total S ¹	torm Year T	rash Disch	arge			756	storm year trash discharge of 756 lbs.
Notation				+		+	
Form Rainfall Station	Add additiona	I rows for storm	i events, if nec	the L.A. County	y station num	ber	
Total Stor	m Year Trash I	Discharge = Su	m of individua	l storm event di	scharges for	reporting period	d (October 1 - September 30).
Col. 1	DGR for Juris	diction from DG	R Sampling D	Jata worksheet		-1	1
Col. 2	Date of last st	reet sweeping					
Col. 3	Date of storm	event with 0.25	inch or more	of rainfall	. <u>.</u>		
Col. 4	Depth of rainf	all taken from n	earest rainfall	station (in.)		<u> </u>	
Col. 5	Number of day than 0.25 inch sweeping the	ys between date i, the Permittee discharge shall	e of last street shall calculate l be calculated	t sweeping and e a storm event from the date o	storm event. discharge. W of the last sto	For each day o /hen more than rm event discha	of a storm event that generates precipitation greater one storm event occurs prior to the next street arge calculation.
Col. 6	Amount of tra-	sh recovered fre	om catchbasir	ns, if any (lb. or	gal.)		
Col. 7	Storm Event [Discharge = Co ^r	l. 1 x Col. 5 - (Col. 7 [trash dis	charged by th	e storm event]	,
Col. 8	Provide comm	nents, if necess	ary				

Part 7.1.C(1)(b)(2) L.A. County MS4 Permit City of Arcadia Annual Report (Dec-2016)

						Tra	sh Collection for	Calculation of I	Daily Generation Rate, DGR	
Col. 1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6	Col. 7	Col. 8	Col. 9	Col. 10	Col. 11
Land Use Category	Total Area within Jurisdiction	Representative Area for DGR Calculation	Date of Last Street Sweeping	Date of DGR Sampling	Length of Collection Period	Trash Collection from Representative Area (lb. or gal.)	Trash Cleaned Out from Catchbasin(s) within the Representative Area (lb. or gal.)	Total Amount of Trash Generated in representative area	Total Trash Generated within Representative Area	Comments
Commercial	19.8	2					-			
			07/19/16	7/25/16	6	4.3	0	4.3		Commercial areas swept weekly. DGR sampling collected by hand (Monday), and prior to street
			07/26/16	8/1/16	6	5.2	0	5.2		sweeping activities (Tuesday).
			08/02/16	8/8/16	6	4.3	0	4.3		
			08/09/16	8/15/16	6	2.6	0	2.6		
		Tatal David	08/16/16	8/22/16	6	1.5	0	1.5	5.80	
High/Low Density		Total Days:			30		1		0.00	
Residential	251.8	9								
			07/21/16	7/27/16	6	1.6	0	1.6		Residential area swept weekly. DGR sampling collected by hand (Wednesday), and prior to street
			07/00/40	0/0/40	0	0.7	0	0.7		sweeping activities (Thursday).
			07/28/16	8/3/16	0	2.1	0	2.1		
			08/04/16	8/10/16	6	2.8	0	2.8		
			08/11/16	8/17/16	6	2.6	0	2.6		
			08/18/16	8/24/16	6	1.0	0	1.0	9.98	
		Total Days:			30					
Industrial	6.5	1	1	1		1	1			
			07/21/16	7/27/16	6	4.4	0	4.4		Industrial area swept weekly. DGR sampling collected by hand (Wednesday), and prior to street
			07/28/16	8/3/16	6	4.9	0	4.9		sweeping activities (Thursday).
			08/04/16	8/10/16	6	4.1	0	4.1		
			08/12/16	8/1//16	6	4.2	0	4.2		
		Total Davia	08/18/16	8/24/16	6	3.8	0	3.8	4.63	
Public/Educational		Total Days:			30				1.00	
Facilities	7.1	1								
			07/19/16	7/25/16	6	1.0	0	1.0		Public & Educational facility areas swept weekly. DGR sampling collected by hand (Monday), and
			07/26/16	8/1/16	6	0.6	0	0.6		prior to street sweeping activities (Tuesday).
			08/02/16	8/8/16	6	1.9	0	1.9		
			08/09/16	8/15/16	6	1.9	0	1.9		
			08/16/16	8/22/16	6	3.4	0	3.4	2.09	
		Total Days:			30					
Open Space/ Rec	6.6	1								
			07/19/16	7/25/16	6	0.1	0	0.1		Open Space & Recreational areas swept weekly. DGR sampling collected by hand (Monday), and
			07/26/16	8/1/16	6	0.6	0	0.6		prior to street sweeping activities (Tuesday).
			08/02/16	8/8/16	6	2.1	0	2.1		
			08/09/16	8/15/16	6	0.4	0	0.4	1.02	
		Tatal Davas	08/16/16	8/22/16	6	1.5	0	1.5	1.02	
		Total Days.	-		30					
Total Area	291.8	14					Total Trash (lbs)	63.4	00.01	
Nataa	* Total collection -	aniad must amust 20 days	- for each representation	a land use area			DGR (lbs/day)		23.61	
Col. 1	Land Use Catego	ry - Categories based on	Baseline Monitoring Pro	gram conducted by LACE	OPW baseline moni	itoring group. Alternativel	y, describe land use type a	as designated by the City.		
Col. 2	Total area of said	land use within jurisdictio	on (fill in once in gray-hig	hlighted row for each land	d use category). To	tal area may be accounte	ed for using other approve	d measurement units, e.g	curb miles.	
Col. 3	Representative ar	rea for DGR calculation (fi	ill in once in gray-highlig	hted row for each land us	e category). Repre	sentative area may be ac	counted for using other a	proved measurement		
Col. 4	Date of last street	sweeping	is used for DGR calculat	aon snouid be represental	ave, proportionally,	or the land uses within th	e jurisdiction and must be	approved by the EO prior	to the SU-day collection period.	
Col. 5	Date of DGR sam	pling (direct measuremen	nt of deposited trash) - T	he DGR collection period	(s) must fall betwee	en June 22nd and Septer	nber 22nd			
Col. 6	Length of Collection	on Period in days - The D	OGR collection period mu	ust be 30 days, total, for e	ach representative	land use area				
Col. 7	Trash collection fr	om representative area th	hrough street sweeping	or other method, lb. or ga	l. ulated in the CPs d	uring the DCP collection	nariod must be included in	the total trach generated		
GGI. 0	Where CBs are cl	osed off such that no tras	sh can enter them for the	purpose of DGR samplir	ing, this value will be	e zero (0).	penoa musi pe maidaea li	r ure cotar uasri gerierateo	ç	
Col. 9	Total amount of tr	ash generated in represe	ntative area (sum of Col	I. 7 and Col. 8), Ib. or gal.		· · ·	1			
Col. 10	Total Trash Gene	rated within Representation	ve Area (estimated in 30) day period)						
Vol. 11 Note: Sampling must be condu	Provide comment	s, it necessary lay period, starting, lung 2	2nd through Sentember	22nd of each year						
riolo, bamping must be collud	olog guning any 30-0	ay portou, atarting Julie 2	Lena anougn ooptember	LENG OF BOOT year.	-		1			

Part 7.1.C(1)(a)-L.A. County MS4 Permit City of Arcadia Annual Report (Dec-2016)

Col. 1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6	Col. 7	Col. 8	Col. 9	Col. 10
Reporting Period	Total Area	Total Area served by FCDs	Percentage of Area served by FCDs	Total # City- Owned CBs	Total # CBs served by FCDs and PCDs	Percentage of CBs served by FCDs and PCDs	Required Trash Abatement (%)	Compliance	Comments
31-Oct-08				261	108 FCD	41%	40%	Yes	FCD CB locations address 100% of Trash, capturing 41% (=1.00x0.41)
31-Oct-09				261	230 FCD (88%) 10 PCD (3%)	91%	50%	Yes	FCD CB locations address 100% of Trash, capturing 88% (=1.00x0.88) PCD CB locations address 86% of Trash, capturing 3% (=0.86x0.04)
31-Oct-10				261	230 FCD (88%) 10 PCD (3%)	91%	50%	Yes	FCD CB locations address 100% of Trash, capturing 88% (=1.00x0.88) PCD CB locations address 86% of Trash, capturing 3% (=0.86x0.04)
31-Oct-11				261	230 FCD (88%) 10 PCD (3%)	91%	60%	Yes	FCD CB locations address 100% of Trash, capturing 88% (=1.00x0.88) PCD CB locations address 86% of Trash, capturing 3% (=0.86x0.04)
31-Oct-12				261	230 FCD (88%) 10 PCD (3%)	91%	70%	Yes	FCD CB locations address 100% of Trash, capturing 88% (=1.00x0.88) PCD CB locations address 86% of Trash, capturing 3% (=0.86x0.04)
31-Oct-13				261	230 FCD (88%) 10 PCD (3%)	91%	80%	Yes	FCD CB locations address 100% of Trash, capturing 88% (=1.00x0.88) PCD CB locations address 86% of Trash, capturing 3% (=0.86x0.04)
31-Oct-14				261	230 FCD (88%) 10 PCD (3%)	91%	90%	Yes	FCD CB locations address 100% of Trash, capturing 88% (=1.00x0.88) PCD CB locations address 86% of Trash, capturing 3% (=0.86x0.04)
31-Oct-15				261	230 FCD (88%) 10 PCD (3%)	91%	96.7%	Yes	CB locations address 100% of Trash, capturing 88% (=1.00x0.88) PCD CB locations address 86% of Trash, capturing 3% (=0.86x0.04) A total of 234 CPS full capture systems are throughout
31-Oct-16				265	234 FCD (88%) 10 PCD (3%)	91.55%	100%	Yes	the City. The City has also installed ten ARS partial capture systems which are assigned 86 percent efficient in catch basins. Together, these capture devices account for approximately 91.55 percent of the city-owned catch basins located in Arcadia (88.3% from ECD and 3 25% from PCD)

Notations:

Form	Either report compliance using land area served by FCDs (Columns 2 through 4) or number of catchbasins served by FCDs (Columns 5 through 7).
	Continue to add to this form for each annual reporting period
Column 1:	Reporting Period: Part 7.1.(C)(1) of Order No. 01-182 as amended by Order No. R4-2009-0130
Column 2:	Total land area of jurisdiction (square kilometers)
Column 3:	Total land area of jurisdiction served by certified full capture devices (square kilometers)
Column 4:	Percentage of total land area of jurisdiction served by FCDs (Col. 4/Col. 3)
Column 5:	Total number of catchbasins (CBs) within jurisdiction
Column 6:	Total number of catchbasins (CBs) served by FCDs within jurisdiction
Column 7:	Percentage of CBs served by FCDs within jurisdiction (Col. 6/Col. 5)
Column 8:	Required Trash Abatement: Part 7.1, Appendix 7-1 of Order No. 01-182 as amended by Order No. R4-2009-0130
Column 9:	Compliance: Yes, if Col. 4 or Col. 7 is greater than Col. 8; No, if Col. 4 or Col. 7 is less than Col. 8
Column 10	Provide comments if necessary

Column 10: Provide comments, if necessary

L.A. County MS4 Permit City of Arcadia Annual Report: Dec 2015 Reporting year: FY 2015-2016 Prepared by: JLHA

Col. 1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6	Col. 7	Col. 8	Col. 9	Col. 10
				Structural Co	ntrol Measure				
Deneration	Total Trash Discharged	Effluent	Equivalent	Total # CBs served by FCDs	Percentage of CBs served	Required Trash	Total	O	
Reporting	(IDS.)	Limitation	Compliance	and PCDs	PCDs	Abatement	Compliance	Compliance	Comments
31-10-11						(,,,)	Compliance	Wot	
31-10-12									
31-10-13									
31-10-14									
31-10-15									
31-10-16	765	0	99.19%	234 FCD (88%) 10 PCD (3%)	91.55%	100%	99.93%	Yes	A total of 234 CPS full capture systems are throughout the City. The City has also installed ten ARS partial capture systems which are assigned 86 percent efficient in catch basins. Together, these capture devices account for approximately 91.55 percent of the city-owned catch basins located in Arcadia (88.3% from FCD and 3.25% from PCD).
Notations:				<u> </u>	<u> </u>			<u> </u>	
Form	Structural Col	ntrol Measure	Either report	compliance using la	nd area served by	FCD/PCDs or	number of cato	chbasins served	d by FCD/PCDs.
Column 1:	Reporting Per	100: Part 7.1.	(C)(1) of Urder	No. 01-182 as ame	nded by Order No	. R4-2009-013	0		
Column 2:	As calculated	pursuant to I	Part 7.1.(B)(1)(D(2) of Order No. U	1-182 as amended	by Order No.	R4-2009-0130	1	
Column 2	Alternative ap	proacnes pe	r Part 7.1.(B)(1)	(D)(3) must be appr 7.1 Table 1a at 1b	oved in advance b			D4 2000 0120	
Column 4:						oz as amende	a by Order No.	R4-2009-0130	
Column 5:	Compliance -	of optoblogi		Load Allocation)		juriodiction			
Column 6:	Doroontogo o	f CPa convod	by ECD/DCDa	within jurisdiction		junsaiction			
Column 7:	Percentage 0	sh Abataman	t: Part 7.1 App	endix 7-1 of Order N	lo. 01-182 as ame	nded by Order	No. R4-2009-0	130	
Column 8:	Total Combin	ed Complian	ce = (Col 6) + ($\frac{1}{10-Col} = \frac{1}{6} + \frac{1}{6} +$			100.104-2000-0		
Column 9	FCD Complia	nce:Yes if (col 8 is greater	than Col 7					
Column 10:	Provide com	nents, if nece	ssary						

Part 7.1 C(1)(a) -L.A. County MS4 Permit City of Arcadia Annual Report (Dec-2016)

Col. 1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6	Col. 7	Col. 8	Col. 9	Col. 10	Col. 11
Certified				FCD	FCD	CB ID No.			СВ	Frequency of FCD
FCD(s)	FCD Location	Nearest Cross Street	FCD Owner	Maintained	Installation	Served by	СВ Туре	CB Owner	Maintained	Maintenance and other
	1410 Croopooko Drivo			Βγ	Date	FCD		CITY	Ву	O&M comments
CF3			CITY	CITY		1		CITY	CITY	Annually
CP3	1014 Orangegrove					2				Annually
CPS	1055 W. Foothill		CITY	CITY		12			CITY	Annually
CPS	1115 W. Foothill Eastbound Footnill		CITY	CITY		1		CITY	CITY	Annually
CPS	(98'East in Right of Way)		CITY	CITY		4		CITY	CITY	Annually
CPS	Foothill northside acros	s from Heritage Oaks	CITY	CITY		6		CITY	CITY	Annually
CPS	1036 Rafael Dr.	-	CITY	CITY		20		CITY	CITY	Annually
CPS	1030 Heritage Oaks Dr.		CITY	CITY		21		CITY	CITY	Annually
CPS	1024 Whispering Oaks	Dr.	CITY	CITY		22		CITY	CITY	Annually
CPS	1024 El Caballo Dr.		CITY	CITY		23		CITY	CITY	Annually
CPS	1024 Loma Verde Dr.		CITY	CITY		24		CITY	CITY	Annually
CPS	1016 Don Ricardo Dr.		CITY	CITY		25		CITY	CITY	Annually
CPS	1023 Don Pablo Dr.		CITY	CITY		26		CITY	CITY	Annually
CPS	830 Singingwood		CITY	CITY		4		CITY	CITY	Annually
CPS	841 Singingwood Dr.		CITY	CITY		5		CITY	CITY	Annually
CPS	800 Hampton at the Arc	adia Wash	CITY	CITY		6		CITY	CITY	Annually
CPS	827 Hampton Rd. at the	e Arcadia Wash	CITY	CITY		7		CITY	CITY	Annually
CPS	N/E corner Baldwin at C	Bloria	CITY	CITY		9		CITY	CITY	Annually
CPS	N/W corner Baldwin at I	Hampton	CITY	CITY		10		CITY	CITY	Annually
CPS	704 Hampton	·	CITY	CITY		11		CITY	CITY	Annually
CPS	1301 Baldwin (on Hamr	oton)	CITY	CITY		12		CITY	CITY	Annually
CPS	N/W corner Baldwin / A	nokia	CITY	CITY		13		CITY	CITY	Annually
CPS	Baldwin at Anoakia		CITY	CITY		14		CITY	CITY	Annually
CPS	Baldwin at Anoakia		CITY	CITY		15		CITY	CITY	Annually
ARS	East West Orange Grov	ve Park	CITY	CITY		16		CITY	CITY	Annually
CPS	935 Fallenleaf		CITY	CITY		1		CITY	CITY	Annually
CPS	920 Fallenleaf		CITY	CITY		2		CITY	CITY	Annually
CPS	730 Katherine Lane		CITY	CITY		3		CITY	CITY	Annually
CPS	N/E corner Baldwin / Ar	bolada	CITY	CITY		4		CITY	CITY	Annually
CPS	N/E corner Baldwin / Fo	othill	CITY	CITY		5		CITY	CITY	Annually
CPS	N/W corner Baldwin / Fe	oothill	CITY	CITY		6		CITY	CITY	Annually
CPS	N/W corner Foothill / Ba	ldwin	CITY	CITY		7		CITY	CITY	Annually

Part 7.1 C(1)(a) -
L.A. County MS4 Permit
City of Arcadia
Annual Report (Dec-2016)

CPS	S/W corner Foothill / Baldwin North side Foothill	CITY	CITY	8	CITY	CITY	Annually
CPS	between Old Ranch/Don Diablo	CITY	CITY	9	CITY	CITY	Annually
CPS	1032 Don Robles Dr.	CITY	CITY	15	CITY	CITY	Annually
CPS	1024 Don Alvarado Dr.	CITY	CITY	16	CITY	CITY	Annually
CPS	1024 Don Diablo Dr.	CITY	CITY	17	CITY	CITY	Annually
CPS	1024 Old Ranch Rd.	CITY	CITY	18	CITY	CITY	Annually
CPS	1024 English Oak Rd	CITY	CITY	19	CITY	CITY	Annually
CPS	725 Carriage House Dr.	CITY	CITY	20	CITY	CITY	Annually
CPS	725 Carrriage House Dr.	CITY	CITY	21	CITY	CITY	Annually
CPS	719 Carriage House Dr.	CITY	CITY	22	CITY	CITY	Annually
CPS	701 Carriage House Dr.	CITY	CITY	23	CITY	CITY	Annually
CPS	726 Carriage House Dr.	CITY	CITY	24	CITY	CITY	Annually
CPS	728 Carriage House Dr.	CITY	CITY	25	CITY	CITY	Annually
CPS	732 Carriage House Dr.	CITY	CITY	26	CITY	CITY	Annually
CPS	1109 Englemann Ct.	CITY	CITY	27	CITY	CITY	Annually
CPS	753 Carriage House Dr.	CITY	CITY	28	CITY	CITY	Annually
CPS	763 Carriage House Dr.	CITY	CITY	29	CITY	CITY	Annually
CPS	1201 Oaklawn Rd.	CITY	CITY	1	CITY	CITY	Annually
CPS	1200 Oaklawn Rd. x2 drains	CITY	CITY	2	CITY	CITY	Annually
CPS	1200 Oaklawn Rd. x2 drains	CITY	CITY	3	CITY	CITY	Annually
CPS	476 Arbolada/One across from 476	CITY	CITY	4	CITY	CITY	Annually
CPS	476 Arbolada/One across from 476	CITY	CITY	5	CITY	CITY	Annually
CPS	501 Foothill	CITY	CITY	6	CITY	CITY	Annually
CPS	501 Foothill	CITY	CITY	7	CITY	CITY	Annually
CPS	N/W Corner on Foothill at Arbolada	CITY	CITY	8	CITY	CITY	Annually
ARS	431 W. Foothill	CITY	CITY	9	CITY	CITY	Annually
ARS	344 W. Foothill	CITY	CITY	10	CITY	CITY	Annually
CPS	1020 Loma Lisa Lane	CITY	CITY	11	CITY	CITY	Annually
CPS	1032 Woodacre Lane	CITY	CITY	12	CITY	CITY	Annually
CPS	1014 San Carlos Rd.	CITY	CITY	13	CITY	CITY	Annually
CPS	1022 Asder Lane	CITY	CITY	14	CITY	CITY	Annually
CPS	1014 Burnell Oaks Lane	CITY	CITY	15	CITY	CITY	Annually
CPS	290 Sierra Oaks Dr.	CITY	CITY	16	CITY	CITY	Annually
CPS	1026 Leandra Lane	CITY	CITY	17	CITY	CITY	Annually
CPS	1018 Merry Oak Lane	CITY	CITY	18	CITY	CITY	Annually
CPS	1017 Oakdale Lane	CITY	CITY	19	CITY	CITY	Annually

Part 7.1 C(1)(a) -L.A. County MS4 Permit City of Arcadia Annual Report (Dec-2016)

CPS CPS	1018 Rancho Rd. Colorado Pl. @ East Wash	CITY	CITY	21	CITY		
CPS	Colorado Pl. @ East Wash			21	CITT	CITY	Annually
		CITY	CITY	2	CITY	CITY	Annually
CPS	N/W Corner Huntington Dr at Civic Center	CITY	CITY	1	CITY	CITY	Annually
CPS	234 Campus Dr.	CITY	CITY	2	CITY	CITY	Annually
CPS	290 Campus Dr. (W/O El Monte)	CITY	CITY	3	CITY	CITY	Annually
CPS	290 Campus Dr. (W/O El Monte)	CITY	CITY	4	CITY	CITY	Annually
CPS	376 W Huntington Dr	CITY	CITY	5	CITY	CITY	Annually
CPS	Across from 376 W. Huntington Drive Westside Huntington	CITY	CITY	6	CITY	CITY	Annually
CPS	Dr N/O 388 W (east bound Huntington Dr.)	CITY	CITY	1	CITY	CITY	Annually
CPS	Westside Huntington Dr S/W entrance	CITY	CITY	7	CITY	CITY	Annually
CPS	1810 Anita Crest	CITY	CITY	1	CITY	CITY	Annually
CPS	1809 Anita Crest	CITY	CITY	2	CITY	CITY	Annually
CPS	141 Loralyn Dr. (136 property line)	CITY	CITY	3	CITY	CITY	Annually
CPS	123 W Sierra Madre Blvd.	CITY	CITY	1	CITY	CITY	Annually
CPS	S/W cor. Sierra Madre Blvd. & Oakhaven	CITY	CITY	2	CITY	CITY	Annually
CPS	N/E Corner W Sierra Madre at 1706 La Ramada 1/UU N. La Ramada	CITY	CITY	3	CITY	CITY	Annually
CPS	Ave. N/W corner across from 1706	CITY	CITY	4	CITY	CITY	Annually
CPS	1611 Oakhaven Dr.	CITY	CITY	5	CITY	CITY	Annually
CPS	1631 La Ramada Ave.	CITY	CITY	6	CITY	CITY	Annually
CPS	1630 Oakwood Ave.	CITY	CITY	31	CITY	CITY	Annually
CPS	1631 Oakwood Ave.	CITY	CITY	32	CITY	CITY	Annually
CPS	1343 Oakwood Dr.	CITY	CITY	1	CITY	CITY	Annually
CPS	36 Ontare Rd.	CITY	CITY	2	CITY	CITY	Annually
CPS	230 W Hacienda - Across Street from	CITY	CITY	5	CITY	CITY	Annually
CPS	S/O 210 Frwy Center Median (eastside)	CITY	CITY	11	CITY	CITY	Annually
ARS	S/O 210 Frwy Center Median (westside)	CITY	CITY	12	CITY	CITY	Annually
CPS	S/side Foothill at Wash between Rancho/Rodeo	CITY	CITY	21	CITY	CITY	Annually
CPS	11 E. Forest (west of Santa Anita) 122 West of 11 I	CITY	CITY	1	CITY	CITY	Annually
CPS	N/E Cor. On Santa Anita at 210 Freeway	CITY	CITY	5	CITY	CITY	Annually
CPS	Santa Anita at 210 Freeway	CITY	CITY	8	CITY	CITY	Annually
CPS	N/W Foothill / Rancho	CITY	CITY	14	CITY	CITY	Annually
CPS	N/W Foothill / Rancho	CITY	CITY	15	CITY	CITY	Annually

Part 7.1 C(1)(a) -		Certifie	ed Full Capture	Date : 12/15/2016			
L.A. Count	y MS4 Permit			-		Re	eporting year: 2015-2016
City of Arca	adia						Prepared by: JLHA
Annual Re	post(V(Deethed))/16ancho	CITY	CITY	16	CITY	CITY	Annually
CPS	S/W Foothill / Rancho	CITY	CITY	17	CITY	CITY	Annually
CPS	N/side Foothill at Wash between Rancho/Rodeo	CITY	CITY	19	CITY	CITY	Annually
CPS	S/side Foothill at Wash between Rancho/Rodeo	CITY	CITY	20	CITY	CITY	Annually
CPS	823 Rodeo	CITY	CITY	22	CITY	CITY	Annually
CPS	Tindalo	CITY	CITY	23	CITY	CITY	Annually
CPS	Rancho Road	CITY	CITY	24	CITY	CITY	Annually
CPS	Rancho Road	CITY	CITY	25	CITY	CITY	Annually
CPS	Rancho Road at Foothill	CITY	CITY	26	CITY	CITY	Annually
CPS	Rancho Road	CITY	CITY	27	CITY	CITY	Annually
CPS	Rancho Road at Foothill	CITY	CITY	28	CITY	CITY	Annually
CPS	201 W. Colorado Pl	CITY	CITY	1	CITY	CITY	Annually
CPS	Colorado Blvd. West of Santa Rosa	CITY	CITY	2	CITY	CITY	Annually
CPS	Colorado Blvd. West of Santa Rosa	CITY	CITY	3	CITY	CITY	Annually
CPS	Colorado Blvd. West of Santa Rosa	CITY	CITY	4	CITY	CITY	Annually
CPS	Colorado Blvd. West of Santa Rosa	CITY	CITY	5	CITY	CITY	Annually
CPS	201 W. Colorado Pl	CITY	CITY	35	CITY	CITY	Annually
CPS	Colorado Blvd. W.of S.A. under R/R overpass	CITY	CITY	7	CITY	CITY	Annually
CPS	35 Cornell Dr. & Windsor Rd	CITY	CITY	9	CITY	CITY	Annually
CPS	501 N. Santa Anita	CITY	CITY	17	CITY	CITY	Annually
CPS	501 N. Santa Anita	CITY	CITY	19	CITY	CITY	Annually
CPS	500 N. Santa Anita	CITY	CITY	20	CITY	CITY	Annually
CPS	500 N. Santa Anita	CITY	CITY	21	CITY	CITY	Annually
CPS	N/W corner on Santa Anita at Santa Clara	CITY	CITY	22	CITY	CITY	Annually
CPS	N/E Corner on Santa Anita at Santa Clara	CITY	CITY	27	CITY	CITY	Annually
CPS	250 W. Huntington Dr.	CITY	CITY	7	CITY	CITY	Annually
CPS	240 W. Huntington Dr (westbound)	CITY	CITY	1	CITY	CITY	Annually
CPS	240 W. Huntington Dr (westbound)	CITY	CITY	2	CITY	CITY	Annually
CPS	S/W cor. Colorado PI & Huntington Dr.	CITY	CITY	37	CITY	CITY	Annually
CPS	240 W. Huntington Drive	CITY	CITY	3	CITY	CITY	Annually
CPS	240 W. Huntington Drive	CITY	CITY	4	CITY	CITY	Annually
CPS	250 W. Huntington Dr.	CITY	CITY	5	CITY	CITY	Annually
CPS	250 W. Huntington Dr.	CITY	CITY	6	CITY	CITY	Annually
CPS	125 Colorado Place	CITY	CITY	36	CITY	CITY	Annually
							Annually
CDS	N/M/ corpor on Civic Contor Huntingon Dr	CITY	CITY	1	CITY	CITY	· · · · · · · · · · · · · · · · · · ·
0F3 CD9				2			Annually
050				-			Annually
000	221 W. LERUY			2			Annually
642	ZZU VV. LEROY	GIT	ULL	۷.	ULL	CITY	Annually

Part 7.1 C(1)(a) -	Certifie	ed Full Capture	Systems Database		_	Date : 12/15/2016
L.A. County	y MS4 Permit					Re	eporting year: 2015-2016
City of Arca	adia Norman atSanta Anita	CITY	CITY	3	CITY	CITY	Prepared by: JLHA
Annual Rep	1511 W Azure Way at Santa Anita Terrace	CITY	CITY	1	CITY	CITY	Annually
CPS	N/E Corner on Azure Way at Santa Anita Terr	CITY	CITY	2	CITY	CITY	Annually
CPS	N/E corner El Monte at Longden Ave	CITY	CITY	- 1	CITY	CITY	Annually
CPS	N/W corner El Monte at Longden Ave	CITY	CITY	2	CITY	CITY	Annually
CPS	S/W corner Longden Ave. at El Monte	CITY	CITY	-	CITY	CITY	Annually
CPS	205 W. Longden		CITY	4	CITY		Annually
CPS	178 W. Longden		CITY	5	CITY		Annually
CPS	165 Arthur		CITY	6	CITY		Annually
CPS	West on Azure at Arthur Ave		CITY	7	CITY		Annually
CPS	Fast on Arthur at Azuro			8			Annually
	45 Arthur			13	CITY	CITY	
	43 Arthur			14	CITY	CITY	
CPS	167 W. Londov Wov			1	CITY	CITY	
	187 W. Longley Way			2	CITY		
CPS	2227 Convon Ed			2	CITY		
CPS	2227 Canyon Rd			9	CITY		
CPS	2227 Carlyon Rd.	CITY	CITY	10	CITY	CITY	Annually
CF3	2240 Canyon Rd.	CITY		11	CITY	CITY	Annually
CF3	2240 Gallyoll Rd.	CITY	CITY	10	CITY	CITY	Annually
CPS CPS	2223 Highland Vista Dr.			12			Annually
CF3	2220 Highland Visia Dr.	CITY	CITY	13	CITY	CITY	Annually
CPS CPS	2011 Highland Oaks Dr.	CITY		3	CITY	CITY	Annually
CPS CPS	2000 Highland Oaks Dr.	CITY		4	CITY	CITY	Annually
CP3	2011 Canyon Rd.	CITY		5		CITY	Annually
CPS	2000 Canyon Rd.	CITY		0			Annually
CPS	2001 Carolwood Dr.			7			
CPS	N/W cor. Carolwood Dr & on Elkins Ave.	CITY		8	CITY	CITY	Annually
CPS	N/E cor. Canyon Rd. & on Elkins Ave	CITY		9	CITY	CITY	Annually
CPS	N/W cor. Highland Oaks Pl. & Elkins Ave.	CITY		10	CITY	CITY	Annually
CPS	2001 Oaks Place	CITY	CITY	11	CITY	CITY	Annually
CPS	2000 Oaks Place	CITY	CITY	12	CITY	CITY	Annually
CPS	2128 Canyon Rd.	CITY	CITY	14	CITY	CITY	Annually
CPS	2200 N. Highland Oaks Dr.	CITY	CITY	16	CITY	CITY	Annually
CPS	2011 N. Highland Oaks Dr.	CITY	CITY	17	CITY	CITY	Annually
				,			Annually
CPS	1801 Highland Oaks Dr.	CITY	CITY	1	CITY	CITY	A 11
CPS	1800 Highland Oaks Dr.	CITY	CITY	2	CITY	CITY	Annually
CPS	N/W Corner Highland Oaks Dr & Doshier Ave	CITY	CITY	3	CITY	CITY	Annually
CPS	1622 Highland Oaks Dr.	CITY	CITY	1	CITY	CITY	Annually

Part 7.1 C(L.A. County	1)(a) - y MS4 Permit	Certifie	ed Full Capture	e Systems Database		R	Date : 12/15/2016 eporting year: 2015-2016
City of Arca	, adia ով¥₩ բգբ_Իյցիլ გդd Oaks Dr. & Virginia Dr.	CITY	CITY	2	CITY	CITY	Prepared by: JLHA Annually
CPS	N/W cor. Highland Oaks Dr. & Virginia Dr.	CITY	CITY	3	CITY	CITY	Annually
CPS	S/W cor. 1619 Highland Oaks Dr. & Virginia Dr.	CITY	CITY	4	CITY	CITY	Annually
CPS	1624 N. Wilson Ave.	CITY	CITY	5	CITY	CITY	Annually
CPS	1625 N. Wilson Ave.	CITY	CITY	6	CITY	CITY	Annually
CPS	1200 Highland Oaks	CITY	CITY	1	CITY	CITY	Annually
CPS	N/W Corner Sycamore/Highland Oaks	CITY	CITY	2	CITY	CITY	Annually
CPS	N/W cor. 1201 Oakglen Ave. & Sycamore Ave.	CITY	CITY	3	CITY	CITY	Annually
CPS	1263 Oakglen Ave.	CITY	CITY	4	CITY	CITY	Annually
CPS	S/O 1266 Oakglen Ave.	CITY	CITY	5	CITY	CITY	Annually
CPS	1312 N. Highland Oaks Dr.	CITY	CITY	6	CITY	CITY	Annually
CPS	N/W cor 1321 Highland Oaks/Woodland Ave	CITY	CITY	7	CITY	CITY	Annually
CPS	149 E. Sycamore	CITY	CITY	8	CITY	CITY	Annually
CPS	150 E. Sycamore	CITY	CITY	9	CITY	CITY	Annually
CPS	N/W cor. Sycamore Ave & Oakhaven Rd.	CITY	CITY	10	CITY	CITY	Annually
CPS	N/E cor. Sycamore Ave. & Oakhaven Rd.	CITY	CITY	11	CITY	CITY	Annually
CPS	1257 Oakhaven Rd	CITY	CITY	16	CITY	CITY	Annually
CPS	N/E Corner Oakhaven Rd/Whispering Pine Dr	CITY	CITY	17	CITY	CITY	Annually
CPS	S/E Corner Oakhaven Rd/Whispering Pine Dr	CITY	CITY	18	CITY	CITY	Annually
CPS	S/E Corner Oakhaven Rd/Whispering Pine Dr	CITY	CITY	19	CITY	CITY	Annually
CPS	201 Whispering Pines	CITY	CITY	20	CITY	CITY	Annually
CPS	Whispering Pines Summit/Whisp.Pines Dr	CITY	CITY	22	CITY	CITY	Annually
CPS	Whispering Pines Summit/Whisp.Pines Dr	CITY	CITY	23	CITY	CITY	Annually
CPS	317 Whispering Pines Dr.	CITY	CITY	25	CITY	CITY	Annually
CPS	317 Whispering Pines Dr.	CITY	CITY	26	CITY	CITY	Annually
CPS	166 Country Oaks Circle	CITY	CITY	1	CITY	CITY	Annually
CPS	705 Country Oaks Circle	CITY	CITY	2	CITY	CITY	Annually
CPS	811 N. Wigwam Ave.	CITY	CITY	4	CITY	CITY	Annually
CPS	142 E. Haven	CITY	CITY	5	CITY	CITY	Annually
CPS	605 Lorena at Newman	CITY	CITY	3	CITY	CITY	Annually
CPS	144 E. Newman	CITY	CITY	4	CITY	CITY	Annually
ARS	N/W Colorado on Second	CITY	CITY	5	CITY	CITY	Annually
ARS	N/E Colorado on Second	CITY	CITY	6	CITY	CITY	Annually
CPS	Santa Clara-between Fifth and Second	CITY	CITY	7	CITY	CITY	Annually
							Annually
CPS	Santa Clara-between Fifth and Second	CITY	CITY	8	CITY	CITY	
CPS	N/W Corner on Santa Clara at Second Ave.	CITY	CITY	13	CITY	CITY	Annually
CPS	N/W Corner on Second at Santa Clara	CITY	CITY	14	CITY	CITY	Annually
CPS	1614 S. Wesley Lane	CITY	CITY	2	CITY	CITY	Annually

Part 7.1 C(1)(a) - L.A. County MS4 Permit			ed Full Capti	Date : 12/15/2016 Reporting year: 2015-2016			
	1247-Nipthore	CITY	CITY	2	CITY	CITY	Annually
CPS	1237 Ninth	CITY	CITY	3	CITY	CITY	Annually
CPS	1240 Ninth	CITY	CITY	4	CITY	CITY	Annually
CPS	1236 Ninth	CITY	CITY	5	CITY	CITY	Annually
CPS	1128 S. Ninth Ave.	CITY	CITY	6	CITY	CITY	Annually
CPS	1121 S. Ninth Ave.	CITY	CITY	7	CITY	CITY	Annually
CPS	911 Derek Drive	CITY	CITY	8	CITY	CITY	Annually
ARS	701 E. Pamela	CITY	CITY	2	CITY	CITY	Annually
CPS	917 E. Camino Real	CITY	CITY	3	CITY	CITY	Annually
CPS	920 E Camino Real	CITY	CITY	4	CITY	CITY	Annually
CPS	831 E. Camino Grove Ave.	CITY	CITY	20	CITY	CITY	Annually
CPS	1931 Tulip Lane	CITY	CITY	1	CITY	CITY	Annually
ARS	2424 S. Eighth Ave	CITY	CITY	1	CITY	CITY	Annually
CPS	N/W Corner Eighth at Sandra	CITY	CITY	2	CITY	CITY	Annually
CPS	2446 Eighth	CITY	CITY	3	CITY	CITY	Annually
CPS	N/E cor. Clark St. & Peck Rd.	CITY	CITY	1	CITY	CITY	Annually
CPS	N/E cor. Clark St. & Peck Rd.	CITY	CITY	2	CITY	CITY	Annually
CPS	N/E cor. Clark St & Peck Rd.	CITY	CITY	3	CITY	CITY	Annually
CPS	S/E cor. Clark St. & Peck Rd.	CITY	CITY	4	CITY	CITY	Annually
CPS	S/E cor. Clark St. & Peck Rd.	CITY	CITY	5	CITY	CITY	Annually
CPS	5460 S. Peck Rd.	CITY	CITY	6	CITY	CITY	Annually
CPS	N/E Peck Rd. / Goldring	CITY	CITY	7	CITY	CITY	Annually
CPS	5537 Reck Rd.	CITY	CITY	8	CITY	CITY	Annually
CPS	N/E cor. Clark St. & Peck Rd.	CITY	CITY	9	CITY	CITY	Annually
CPS	S. side of Lower Azusa-E.of 12300 L.Azusa	CITY	CITY	1	CITY	CITY	Annually
CPS	9801 E Lemon Ave	LACFCD	LACFCD				Annually
CPS	9759 E Lemon Ave	LACFCD	LACFCD				Annually
CPS	6502 Temple City Blvd	LACFCD	LACFCD				Annually
CPS	9553-9599 E Camino Real Ave	LACFCD	LACFCD				Annually

Quantity	Device Type
234	CPS

ort (Dec-2016)	10	ARS
Quantity		Catch Basin Inventory
	10	CBs w/PCD
	10	(86% efficiency)
	234	CBs w/FCD
	234	(100% efficiency)
	265	Total CBs
	Quantity	0rt (Dec-2016) 10 Quantity 10 234 265

Notations:

Form Insert additional rows, as necessary

Column 1: Indicate certified full capture device (FCD) installed

Column 2: Name FCD street location and indicate whether: WS - west side; ES - east side; NS - north side; SS - south side

Column 3: Name the nearest cross street location of the FCD

Column 4: FCD Owned by: Co - County of L.A.; Flood - L.A. County Flood Control District; Ci - City; Ca - Caltrans; Pr - Private; Oth - Others

Column 5: FCD Maintained by: Co - County of L.A.; Flood - L.A. County Flood Control District; Ci - City; Ca - Caltrans; Pr - Private; Oth - Others

Column 6: Provide the date when FCD was installed

Column 7: Indicate County or City assigned catch basin (CB) identification (ID) numbers

Column 8: Type of CB based on Standard Plan for Public Works Construction from Greenbook Committee, Public Works Standards, Inc. (i.e., 300-2; 301-2; 302-2; 303-2; etc.)

Column 9: CB Owned by: Co - County of L.A.; Flood - L.A. County Flood Control District; Ci - City; Ca - Caltrans; Pr - Private; Oth - Others

Column 10: CB maintained by: Co - County of L.A.; Flood - L.A. County Flood Control District; Ci - City; Ca - Caltrans; Pr - Private; Oth - Others

Column 11: Indicate frequency of FCD maintenance (e.g. inspection & cleanout: 1x/3 mo., 1x/6 mo., 1x Nov., 1x Jan., 1x Aug., etc.)