

2014-2015 Permit Year

Ventura Countywide Stormwater Quality Management Program Annual Report

Attachment E15 Ventura River Estuary Trash TMDL Annual Monitoring Report



County of Ventura
Fillmore
Moorpark
Ojai
Oxnard
Port Hueneme
Santa Paula

Thousand Oaks

nousand Oak

Ventura County Watershed Protection District

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January 28, 2015

Renee Purdy Los Angeles Regional Water Quality Control Board 320 W. 4th St., Suite 200 Los Angeles, CA 90013

Subject: Ventura River Estuary Trash TMDL Annual Monitoring Report

Dear Ms. Purdy,

Enclosed for your review and consideration is the Ventura River Estuary Trash TMDL Annual Monitoring Report for 2013-2014. This Annual Monitoring Report is being submitted per the requirements of the Ventura River Estuary Trash TMDL, Los Angeles Regional Water Quality Control Board Resolution No. R4-2007-008.

This document is being submitted on behalf of the following responsible parties: City of Ventura, County of Ventura, Ventura County Watershed Protection District, Ventura County Fairgrounds, California Department of Transportation, California Department of Parks and Recreation-Channel Coast District, and participants in the Ventura County Agricultural Irrigated Lands Group, which is a subdivision of the Farm Bureau of Ventura County.

During the 2013-2014 monitoring year, the responsible parties developed a revised TMRP to include a new MFAC/BMP Program that utilizes visual trash assessments and targeted clean ups of the parcels located within the Estuary, coupled with BMPs implemented in the Estuary and on the land areas adjacent to the Estuary. While developing the revised MFAC/BMP Program, the responsible parties implemented an interim MFAC/BMP Program and then implemented the revised MFAC/BMP Program once developed. The Annual Monitoring Report summarizes the results of the first year of the revised TMRP and MFAC/BMP Program.

If you have any comments or questions regarding the attached document, please contact me via email (ashlid@lwa.com) or by phone at (310) 394-1036.

Sincerely,

Ashli Desai Vice President

Larry Walker Associates

Harri Clesai

Page 2 of 2

cc: Jenny Newman, Los Angeles Regional Water Quality Control Board Stefanie Hada, Los Angeles Regional Water Quality Control Board Jeff Pratt, Ventura County Public Works Agency Director Tully Clifford, Ventura County Watershed Protection District Director Gerhardt Hubner, Ventura County Watershed Protection District Ewelina Mutkowska, Ventura County Public Works Agency Joe Yahner, City of Ventura Nat Cox, California Department of Parks and Recreation-Channel Coas

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JANUARY 2015

Ventura River Estuary Trash TMDL 2013-2014 TMRP Annual Report

submitted to

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, LOS ANGELES REGION

on behalf of the

CITY OF VENTURA, COUNTY OF VENTURA, VENTURA COUNTY
WATERSHED PROTECTION DISTRICT, PARTICIPANTS IN THE VENTURA
COUNTY AGRICULTURAL IRRIGATED LANDS GROUP, CALIFORNIA
DEPARTMENT OF FOOD AND AGRICULTURE, CALIFORNIA DEPARTMENT
OF STATE PARKS, AND CALIFORNIA DEPARTMENT OF TRANSPORTATION



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Introduction

This Annual Report is being submitted to fulfill the compliance requirements of the Amendments to the Water Quality Control Plan – Los Angeles Region for the Ventura River Estuary Trash Total Maximum Daily Load (Trash TMDL), Resolution No. R4-2007-008 (effective March 6, 2008). The purpose of this report is to present the results of the monitoring efforts conducted in accordance with the Trash Monitoring Reporting Plan (TMRP) and Minimum Frequency Assessment Collection/Best Management Practice (MFAC/BMP) Program developed to meet the requirements of the Trash TMDL. In addition, **Appendix 1.** includes the Certification Report for the Full Capture Connector Pipe Screen Trash Excluders installed by the County of Ventura in County unincorporated areas to meet 100% full trash capture compliance for point sources.

The initial TMRP, which was approved in 2009 by the California Regional Water Quality Control Board, Los Angeles Region (Regional Board), was revised in 2014 to more effectively target the disbandment of homeless encampments in the Ventura River Estuary (Estuary), which have been determined to be the primary source of trash in the TMDL compliance area. An Addendum No. 1 to the TMRP was submitted on April 30, 2014 and a revised Addendum was submitted on October 22, 2014 addressing comments from Regional Board staff. The TMRP and MFAC/BMP Program are designed to prioritize the use of resources to implement actions effective in reducing trash in the Estuary, while still providing a monitoring approach that will allow for an evaluation of the effectiveness of the MFAC/BMP Program and support identification of any needed adjustments to the MFAC/BMP Program. The responsible parties are still waiting for approval of the Addendum No. 1; however, Regional Board staff indicated the responsible parties should implement the revised TMRP program while awaiting approval.

In the responsible parties' TMRP revision request letter, dated October 9, 2013, the responsible parties stated additional time was needed to develop the details of the monitoring approach, particularly the most effective locations to implement the patrols and visual assessments. As such, the responsible parties proposed implementing an interim MFAC/BMP Program to begin in October 2013 while the responsible parties developed the revised MFAC/BMP Program and Regional Board staff reviewed and approved the revised MFAC/BMP Program. An interim MFAC/BMP Program was necessary to support development of some aspects of the monitoring approach, facilitate transition to a more effective clean-up and trash prevention program, and avoid the necessity of continuing to count pieces of trash while the responsible parties developed the detailed TMRP. The interim MFAC/BMP Program implemented by the responsible parties was as follows:

- 1. Conducted clean-up of all Estuary parcels within the TMDL compliance area by mid-November 2013 as the initial quarterly event.
- 2. Began initial patrols to determine the route(s) that will be used for visual assessments and identified the preferred routes by January 2014.
- 3. Formalized Memorandum of Agreement with Ventura Hillside Conservancy to organize and manage volunteer cleanup events and conduct trash monitoring activities.
- 4. Conducted regularly scheduled clean-up events in the Estuary beginning in March 2014, which were additional to the required collection events for the MFAC/BMP Program.

In addition, the responsible parties conducted several initial assessments in May and June 2014 and an initial collection event in May 2014 to test the applicability of the revised MFAC/BMP Program. The revised MFAC/BMP Program began in July 2014.

This Annual Report includes the following information from first-year monitoring conducted under the revised TMRP and MFAC/BMP Program:

- Monitoring Summary
- MFAC Events/BMP Implementation Summary
- MFAC/BMP Program Evaluation and Revision Recommendations

The efforts to implement the Trash TMDL are being completed on behalf of the responsible parties to the Trash TMDL as listed in **Table 1**. The efforts to implement the Trash TMDL requirements for nonpoint sources are focused within the Estuary and the parcels adjacent to the Estuary. **Table 2** presents the names of the parcels within the Estuary, which were grouped into four MFAC areas identified for the MFAC/BMP Program implementation. **Figure 1** shows the locations of the parcels within the Estuary. During this monitoring period, the cleanup and monitoring efforts were expanded to include the whole TMDL compliance area including areas that are not part of the eight parcels listed in **Table 2** and shown in **Figure 1** including the area under the Main Street Bridge, the area under the US 101 Bridge, and the area under the railroad bridge between MFAC Area 1 and MFAC Area 2. In addition, County of Ventura installed full trash capture devices within County unincorporated areas draining to the MS4 within the Trash TMDL Staff Report-defined Estuary Sub-watershed area.

Table 1. Responsible Parties Participating in the TMRP and MFAC/BMP Program

Responsible Party	Nonpoint Source (NPS)	Point Source (PS)
City of Ventura (City)	Х	Х
Ventura County (County)	Χ	X
Ventura County Watershed Protection District (VCWPD)	X	Χ
California Department of Food & Agriculture (Ventura Fairgrounds)	X	X
California Department of Transportation (Caltrans)	X ¹	X
California Department of Parks and Recreation	X	
Participants in the VCAILG ²	Χ	

^{1.} Caltrans was not assigned a Load Allocation, yet it is participating in the MFAC/BMP Program to meet the Trash TMDL goals.

Table 2. Estuary Parcels by MFAC Area

	MFAC Area 1	MFAC Area 2	MFAC Area 3	MFAC Area 4
Parcel	State of California Department of Parks and Recreation	State of California Department of Parks and Recreation	Ventura Beach RV Resort, Inc.	Wood-Claeyssens Foundation
Owner	City of San Buenaventura	State of California Department of Parks and Recreation	Ventura Hillside Conservancy	Ventura County Watershed Protection District

^{2.} Ventura County Agricultural Irrigated Lands Group.

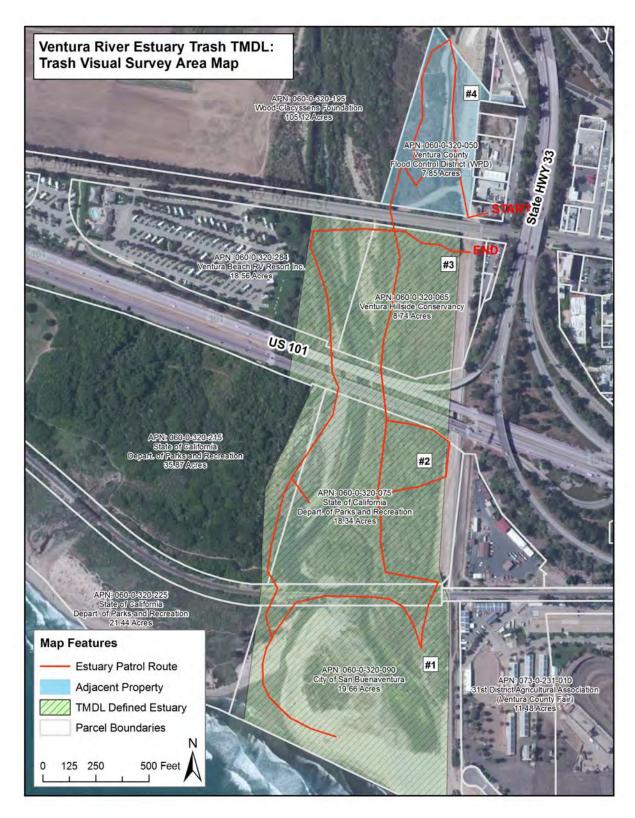


Figure 1. MFAC/BMP Program Monitoring Area and Assessment/Patrol Route

Monitoring Summary

ASSESSMENTS AND COLLECTION EVENTS

During the beginning of the monitoring year, the responsible parties developed the revised MFAC/BMP Program. Throughout the development period, the responsible parties implemented an interim MFAC/BMP Program, consisting of large-scale and small-scale clean-up events that did not follow an established MFAC protocol. As such, the responsible parties did not conduct any revised MFAC Events during the first two quarters of the monitoring year. Additionally, the responsible parties only conducted initial MFAC Events during the third quarter of the monitoring year to test the applicability of the revised MFAC/BMP Program. The responsible parties implemented the revised MFAC/BMP Program beginning in July 2014. Upon implementation of the revised MFAC/BMP Program, the responsible parties conducted regular visual trash assessment surveys along a pre-defined route in the Estuary on a rotating schedule each month to ensure the entire Estuary, as defined in the Trash TMDL, was covered on a quarterly basis. The assessment route was designed to include historic in-Estuary TMRP monitoring locations in addition to other areas on all parcels of the Estuary to reflect the new MFAC/BMP Program. The assessment route is shown in **Figure 1**. The visual trash assessment surveys were conducted in accordance with the revised TMRP. However, the responsible parties conducted significantly more assessments than required in the revised TMRP, which is one assessment per quarter. This is due to this monitoring year being a transition year between the previous MFAC/BMP Program and the revised MFAC/BMP Program. Additional cleanups have been determined to be necessary to address legacy trash that has accumulated in the Estuary. After the legacy trash has been removed, the revised TMRP frequency will be implemented.

The responsible parties also conducted trash collection events beginning in July 2014 utilizing information from the monitoring program and from the assessments to determine the locations to focus trash collection efforts. The responsible parties only conducted collection events in MFAC Area 2 as this was the only area that required collection events based on the information gathered during the assessments.

In addition, the responsible parties conducted regularly scheduled patrols along the assessment route as shown in **Figure 1**. The patrols were conducted to eliminate existing homeless encampments and prevent the establishment of new homeless encampments and to assess trash levels, as homeless individuals and homeless encampments are the main nonpoint sources of trash for the Estuary. The responsible parties averaged up to two patrols per week in areas exhibiting large homeless populations and averaged up to two patrols per month in areas exhibiting small homeless populations. The responsible parties conducted 105 patrols beginning in January 2014.

A summary of the assessment dates, the collection event dates, and the patrol dates is presented in **Table 3**. **Appendix 2**. Assessment and Collection Worksheets contains the Trash Visual Survey Worksheets and the Collection Event Worksheets for all MFAC Events conducted during 2013-2014.

Table 3. Assessment, Collection, and Patrol Dates for October 2013-Septebmer 2014

			Ap	r	M	ay		Jun		Jul		Aug	So	ер	
	Q3									Q4					
						Δ	ssessme	nt Dates ¹							
MF	AC Area	1			5/4/	/14	6/	13/14		7/30/14		/1/14	9/1	5/14	
ME	AC Area	2			5/4/	/14	6/	13/14		7/30/14	8	/1/14	9/1	5/14	
	AC Alea	2									8	/8/14			
							6/	/13/14	•	7/28/14	8	/1/14	9/1	5/14	
ME	AC Area	3							•	7/30/14	8	/8/14			
IVII	AO Alca										8	/9/14			
											8/	20/14			
MF	AC Area	4						7/28/14			8/20/14		9/15/14		
							Collection	n Dates²							
NAT	AC Area	2			5/7/14							11/14	9/1	5/14	
IVIF	AC Alea										8/16/14		9/20/14		
							Patrol	Dates							
1/3/14	2/11/14	3/14/14	4/11/14	5/10/14	6/17/14	7/21/14	8/6/14	8/20/14	9/5/14	9/29/14	10/14/14	10/26/14	11/12/14	11/31/14	
1/9/14	2/19/14	3/20/14	4/14/14	5/15/14	6/24/14	7/23/14	8/8/14	8/21/14	9/6/14	10/2/14	10/15/14	10/29/14	11/14/14	12/4/14	
1/13/14	2/28/14	3/28/14	4/19/14	5/23/14	6/29/14	7/25/14	8/8/14	8/22/14	9/10/14	10/5/14	10/17/14	10/31/14	11/17/14	12/6/14	
1/17/14	3/3/14	3/28/14	4/23/14	5/27/14	7/2/14	7/28/14	8/9/14	8/25/14	9/14/14	10/7/14	10/17/14	11/3/14	11/21/14	12/7/14	
1/23/14	3/3/14	3/31/14	4/26/14	5/30/14	7/7/14	7/30/14	8/11/14	8/26/14	9/19/14	10/8/14	10/18/14	11/5/14	11/22/14	12/9/14	
1/27/14	3/7/14	4/5/14	5/2/14	6/3/14	7/11/14	7/31/14	8/14/14	8/29/14	9/22/14	10/10/14	10/20/14	11/7/14	11/24/14	12/16/14	
2/4/14	3/10/14	4/8/14	5/4/14	6/11/14	7/16/14	8/1/14	8/18/14	9/2/14	9/25/14	10/13/14	10/23/14	11/10/14	11/25/14	12/18/14	

^{1.} During the beginning of the monitoring year, the responsible parties developed the revised MFAC/BMP Program. Throughout the development period, the responsible parties implemented an interim MFAC/BMP Program, consisting of large-scale and small-scale clean-up events that did not follow an established MFAC protocol. As such, the responsible parties did not conduct any MFAC Events during the first two quarters of the monitoring year. Additionally, the responsible parties only conducted initial MFAC Events during the third quarter of the monitoring year to test the applicability of the final MFAC/BMP Program. The responsible parties implemented the final MFAC/BMP Program beginning in July 2014.

^{2.} The responsible parties only conducted collection events in MFAC Area 2 as this was the only area that required collection events based on the information gathered during the assessments.

ASSESSMENT FINDINGS

The goal of the MFAC/BMP Program is to ensure the parcels in the Estuary are at a Category 1 level of trash based on the information collected during Estuary visual assessments. The three Trash Assessment Categories of the MFAC/BMP Program are:

- Category 1 Represents the SWAMP Category "Optimal"
- Category 2 Represents the SWAMP Category "Suboptimal"
- Category 3 Represents the SWAMP Category "Poor"

The definition of Category 1 is:

"On first glance, no trash is visible. Little or no trash (<10 pieces) evident when streambed and stream banks are closely examined for litter and debris, for instance by looking under leaves."

The definition of Category 2 is:

"On first glance, low to medium levels of trash are evident (10 - 100 pieces). Stream, bank surfaces, and riparian zone contain some litter and debris. Possible evidence of site being used by people: scattered cans, bottles, food wrappers, blankets, clothing."

The definition of Category 3 is:

"Trash distracts the eye on first glance. Stream, bank surfaces, and immediate riparian zone contain substantial levels of litter and debris (>100 pieces). Evidence of site being used frequently by people: many cans, bottles, and food wrappers, blankets, clothing."

There were multiple locations on the parcels within the four MFAC Areas that were assessed during the MFAC Events. These areas were located along the assessment route and in other areas of the Estuary identified through the patrols. Based on the trash conditions at the multiple assessed locations, the Ventura Hillside Conservancy determined the overall percentage of the MFAC Areas that were in each of the Trash Assessment Categories. **Table 4** presents a summary of the Trash Assessment Categories for MFAC Areas resulting from the assessments conducted during 2013-2014. **Appendix 2.** Assessment and Collection Worksheets contains the Trash Visual Survey Worksheets with all assessment locations for all MFAC Events conducted during 2013-2014.

Table 4. Percent of MFAC Area by Assessment Category¹

Quarter 4										
Assessment Area	Category 1	Category 2	Category 3	Notes						
MFAC Area 1	90%	5%	5%							
MFAC Area 2	75%	10%	15%							
MFAC Area 3	99%	1%	0%							
MFAC Area 4	99%	1%	0%							

^{1.} During the beginning of the monitoring year, the responsible parties developed the revised MFAC/BMP Program. Throughout the development period, the responsible parties implemented an interim MFAC/BMP Program, consisting of large-scale and small-scale clean-up events that did not follow an established MFAC protocol. As such, the responsible parties did not conduct any MFAC Events during the first two quarters of the monitoring year. Additionally, the responsible parties only conducted initial MFAC Events during the third quarter of the monitoring year to test the applicability of the final MFAC/BMP

Program. No assessment data were collected during the third quarter MFAC Events. The responsible parties implemented the revised MFAC/BMP Program beginning in July 2014.

MFAC Events/BMP Implementation Summary

To ensure the parcels are all within Category 1, the MFAC/BMP Program is continuously evaluated and modified using the following adaptive management approach:

- Estuary parcels in Category 1 for the monitoring event conducted prior to a scheduled MFAC Event are noted and any trash observed is collected during the visual survey. If no potential high trash generating areas are identified through the patrol of the parcel, the MFAC Event is not conducted. If potential high trash generating areas are identified by the patrols, then the MFAC Event focusing on those areas of the parcel that require cleanup.
- 2. Monitoring sites in Category 2 are evaluated to determine if additional BMPs are needed to reduce the accumulation of trash between monitoring events (i.e., visual surveys). The types of trash, likely sources, and observed trends in trash amounts are considered in determining if modifications to the MFAC/BMP Program are necessary to move these sites to Category 1.
- 3. Monitoring sites in Category 3 for two (2) consecutive quarterly MFAC Events are targeted for more frequent patrols and/or more frequent clean-ups depending on the identified primary source of trash until the site reaches Category 1 for two (2) consecutive visual surveys.

This following section provides the results of the collection events and the results of the BMPs implemented related to reducing trash within the Estuary and from adjacent land areas.

MFAC COLLECTION EVENTS AND ADDITIONAL CLEAN-UP EVENTS

One facet of the MFAC/BMP Program is to clean up any trash found through the assessments. This is done to ensure zero pieces of trash are found after the assessment. **Table 5** presents the trash collected during the collection events during 2013-2014. **Appendix 2.** Assessment and Collection Worksheets contains the Collection Event Worksheets for all MFAC Events conducted during 2013-2014. Another facet of the MFAC/BMP Program is to conduct additional clean-ups in the Estuary if it is found that trash is accumulating in deleterious amounts between assessments. The responsible parties conducted 14 additional clean-ups in the Estuary to address high trash accumulation areas. One area addressed by a number of special clean-ups was the State Parks Parcel (MFAC Area 2), which had legacy trash located within its boundary from previous homeless encampments. The parcel was known to have legacy trash issues, and therefore, was targeted for additional clean-ups from the beginning of the 2013-2014 monitoring year. **Appendix 3.** Clean-Up Photos provides photos of the types of trash removed during collection events and additional clean-up events.

Table 5. Summary of Trash Collected during the MFAC Collection and Additional Clean-up Events

Date	MFAC Area 1	MFAC Area 2	MFAC Area 3	MFAC Area 4
1/7/14			3 bags/60 lbs	5 bags/100 lbs
1/18/14	•		20 bags/400 lbs	40 bags/500 lbs
1/20/14		1.5 40 CY dumpsters/12 tons	8 bags/160 lbs	
2/4/14		38 bags/780 lbs	5 bags/100 lbs	
2/15/14	•	15 bags/300 lbs	7 bags/140 lbs	
3/4/14	•		6 bags/120 lbs	4 bags/80 lbs
3/22/14	•		10 bags/200 lbs	2 bags/40 lbs
4/19/14	•	1 40 CY dumpster/8 tons		
5/7/14 ¹		25 bags of trash		
5/17/14	•	1 6 CY dumpster/25 bags		
6/21/14		1 6 CY dumpster/30 bags		
7/19/14		150 bags/1.5 tons		
7/28/14	4.1 tons			
8/11/14 ¹		1 bag of trash		
8/16/14 ¹	-	5 bags/100 lbs		
9/15/14 ¹	-	2 bags of trash		
9/20/141	-	1 20 CY dumpster/52 bags		

^{1.} MFAC Collection Event

lbs=pounds

CY=cubic yard

BMP IMPLEMENTATION

This section describes the BMPs implemented by the responsible parties within the Estuary and on land areas adjacent to the Estuary.

City of Ventura Litter Management Program BMPs

- Street Sweeping
 - o Residential Streets swept at least once a month.
 - o Commercial Streets swept two to four times per month.
 - o Information encouraging residents/businesses to move parked cars for sweeping.
- Catch Basin Inlet-Cleaning and Placarding
 - City-maintained catch basin inlets are inspected and cleaned of trash and debris
 one to three times per year depending on the priority categorization of the catch
 basin.
 - o Information encouraging residents/businesses to report trash filled inlets.
 - o "Don't Dump Drains to Oceans Only Rain Down the Drain" stencils or placards placed on storm drain inlets.
- Trash Collection in Public Areas

- o Trash and recycling containers are installed at all transit shelters and maintained at least once per week to remove litter and to verify that containers are functioning properly.
- O Special event permit language requires additional trash and recycling containers to be set out during street fairs and art walks, along with litter clean-up following events.
- O Collection of trash from 18 public trash receptacles located within the watershed two or three times per week depending on the locations of the receptacles.

Trash Collection and Bulky Item Pickup

- Residents and businesses are provided with trash and recycling collection services.
- o Residential customers are allowed to set out two "bulky items" for free collection once per year as part of their regular trash collection service.

• Inspection, Planning and Enforcement Support

- o The City identifies and requires corrective measures for litter or litter sources found during commercial, industrial, and construction site inspections.
- o New development and redevelopment projects are required to install trash enclosures with doors and covers to reduce litter.
- o The Ventura Police Department conducts periodic "enforcement sweeps" through the portion of the Estuary that is adjacent to the City limits.
- Litter laws that prohibit the accumulation of trash on private property are enforced by the City Code Enforcement and County Environmental Health Department.
 Private properties are required to remove all trash from their premises at least once every seven days.

Outreach

- Litter prevention outreach is included in classroom presentations and stormwater pollution prevention advertisements/announcements.
- o Several half-hour TV programs produced by the City encourage residents to prevent litter.

• Partners in Progress

o Citywide volunteer program with a mission to preserve Ventura's natural environment by minimizing litter in water bodies and coastal areas.

• <u>City-Initiated Clean-Up Events</u>

o The City will initiate clean-up events, as necessary, in response to observed elevated trash levels.

City-Sponsored Clean-Up Events

o The City sponsors various clean-up events throughout the City that may include one or more of the following events during any given year: Martin Luther King

- Day; Earth Day Beach Clean-Up; Coastal Clean-Up Day; Backyard Collective; and Ventura Charter School Trash-a-thon.
- The City sponsored Westside Clean-Up (June 7, 2014) provided free disposal of solid waste from any west side (adjacent to the Ventura River) Ventura residents. Residents brought solid waste to a centralized location where it was sorted for recycling or disposal.
- o An additional clean-up event conducted by the City in the Estuary occurred on July 28, 2014 (underneath the rail road bridge).
- Work Plan to Eliminate Homeless Encampments (Safe and Clean Program)
 - O The Ventura City Council initiated the development of a work plan in September 2012 to eliminate encampments in the Estuary and to implement an on-going enforcement program. The work plan includes organizing stakeholder partners, conducting civil engagement, developing an action plan and corresponding follow-up steps, posting camps, conducting camp removal, and launching post-camp removal strategies.

County of Ventura and VCWPD Litter Management Program BMPs

- Installation of Full Capture Catch Basin Trash Excluders Installation of certified Stormtek Full Capture Catch Basin Trash Excluder Devices to achieve 100% reduction of trash from Baseline WLA, for all Ventura County Unincorporated areas draining to the County's MS4 within the Ventura River Estuary subwatershed.
- Catch Basin Cleaning Catch basins are inspected at least once per year and cleaned when filled to 25% or more of the catch basin's capacity. During storm season, all drainage facilities are inspected and cleaned as necessary.
- Catch Basin Labeling All County catch basins are labeled with "Don't Pollute, Flows to Waterways."
- Open Channel Storm Drain Maintenance All VCWPD owned and maintained channels are cleared, inspected, and cleaned as required at least once per year.
- Trash Management at Public Events A plan for the proper management of trash and litter is required when obtaining a permit for staging public events. This plan requires adequate facilities for trash collection and disposal.
- Trash Collection in Public Areas Trash receptacles have been placed within high trash generation areas. These devices are cleaned and maintained regularly to prevent trash overflow.
- Ventura County Ordinance No. 4142 County ordinance (Section 6923 "Litter" and Section 6955 "Watercourse Protection") prohibit the disposal and accumulation of trash in public areas, private driveways, parking areas, streets, alleys, sidewalks, or components of the storm drain or any watercourse.
- Inspections The County conducts commercial, industrial, and construction facility/site inspections to ensure proper pollution prevention BMPs are being applied and to educate employees on the importance of pollution prevention.

- Anti-Littering Signage The County has installed anti-dumping and anti-littering signage at key locations including high trash generating areas, as well as at known illegal dumping locations.
- Foster Park Trash Management The County manages Foster Park, which is situated along the Ventura River upstream of the Estuary, to ensure that trash originating from the park does not enter the river and deposit in the Estuary. Management actions include:
 - o Park host and rangers removing trash and enforcing litter ordinance
 - Increased enforcement and collection during high trash generating events (holidays)
 - o Covered trash containers and frequent trash pick-up and removal
 - Continued evaluation of trash management practices to determine whether current practices are sufficient
 - o Continued evaluation of existing litter-related signage to determine whether current signage is adequate
- Countywide Outreach The County and VCWPD continue to participate in the Countywide Outreach Program retaining the services of The Agency, a professional advertisement group that designs and conducts countywide, bilingual outreach programs advocating proper trash disposal. The most recent addition to the outreach program is trash prevention and protection of stormwater quality education using Facebook® and other forms of social media.
- Targeted Outreach The County conducts targeted outreach to schools within the area covered by the Trash TMDL to educate students, staff, and faculty on the importance of pollution prevention specifically regarding trash.

California Department of Food and Agriculture BMPs

The California Department of Food and Agriculture implements trash control BMPs at the Ventura County Fairgrounds on a schedule that varies depending on the time of the year. When the Ventura County Fair is being held at the Fairgrounds, the following BMPs are implemented daily and on an as needed basis:

- Litter pickup in the main parking lot, the beach parking lot, and the overflow parking lot
- Litter pickup in the areas surrounding the event locations
- Emptying of trash cans
- Emptying of recycle bins
- Diversion of storm drains to the sanitary sewer during the Fair (July August)

When the Ventura County Fair is not in progress at the Fairgrounds, the above BMPs are still implemented, but on a daily, weekly, and/or as needed basis depending on the specific BMP.

Caltrans Litter Management Program BMPs

• Ventura River Estuary – State Highway 33, between Post Mile 0.0 and 5.55, has litter removed approximately twice per month and is mechanically swept approximately once per month, as needed. This highway is also open to 'Adopt-A-Highway' groups and there are groups who currently have adoptions and perform litter removal twice per month.

Additional Trash Management Plans/BMPs in place for Caltrans:

- Caltrans currently uses a variety of methods to educate the public about the importance of managing stormwater. These are intended to change public behavior regarding the release of potential pollutants (e.g., litter, spilled loads, and oil leaks).
 - o The outreach program consists of a variety of written materials, monthly and quarterly bulletins, websites, workshops, and Caltrans's Adopt-a-Highway Program, as described below.
- Caltrans installs "No Dumping" and "Litter Fine" signs at selected locations on highways and freeways. Stenciled warnings prohibiting discharges to drain inlets at state-owned park-and-ride lots, rest areas, vista points, and other areas with pedestrian traffic are also used to increase public awareness.
- Litter and debris removal activities include sweeping of shoulders, paved medians, etc., and litter removal along the roadsides.
- Caltrans uses venues such as public schools, community-sponsored clean-up events, Bring Your Child to Work Day, and Earth Day to educate the public about the importance of excluding pollutants from stormwater.
- Caltrans's Adopt-A-Highway program is an opportunity for volunteers to make a tangible
 contribution to community and roadside aesthetics, and acts as a way to inform the public
 about the stormwater problems related to illegal dumping of litter and debris. As part of
 this program, signs are posted along roadways acknowledging groups that have
 volunteered to plant wildflowers, trees and/or shrubs, collect litter, or remove graffiti
 from structures.
- In the metropolitan portions of Los Angeles, San Diego, Orange, and Ventura Counties, storm drain inlets are inspected and cleaned annually prior to the rainy season. Those storm drain inlets that contain 12 inches or more of accumulated material will be cleaned.
- Litter and debris are periodically collected from Caltrans's rights-of-way and removed from drainage grates, trash racks, and ditch lines. Maintenance supervisors inspect highways in their assigned sections for the accumulation of litter. Signs may be installed where litter accumulation is a concern.
- "Don't Trash California" is a statewide Caltrans education and outreach trash reduction public program that has been conducted since 2005. The program uses public service announcements through various media such as television and radio broadcasts, billboards, newspapers, etc, and focuses on behavior changes. The program's surveys have shown changes in public perception on littering and results in reduced litter on the roadways.

In addition to local anti-litter ordinances, Caltrans relies on Sections 23112, 23113, 23114, and 23115 of the Vehicle Code as legal authority to prevent spills, dumping or disposal of materials on the highways and freeways under its jurisdiction, as enforced by the California Highway Patrol.

• Section 23112 states:

No person shall throw or deposit, nor shall the registered owner or the driver, if such owner is not then present in the vehicle, aid or abet in the throwing or depositing upon any highway any bottle, can, garbage, glass, nail, offal, paper, wire, any substance likely to injure or damage traffic using the highway, or any noisome, nauseous, or offensive matter of any kind.

No person shall place, deposit, or dump, or cause to be placed, deposited, or dumped, any rocks, refuse, garbage, or dirt in or upon any highway, including any portion of the right-of-way thereof, without the consent of the state or local agency having jurisdiction over the highway.

• Section 23113 states:

Any person who drops, dumps, deposits, places or throws, or causes or permits to be dropped, dumped, deposited, placed or thrown, upon any highway or street any material described in Section 23112 or in subdivision (d) of Section 23114 shall immediately remove the material or cause the material to be removed.

If the person fails to comply with subdivision (a), the governmental agency responsible for the maintenance of the street or highway on which the material has been deposited may remove the material and collect, by civil action, if necessary, the actual cost of the removal operation in addition to any other damages authorized by law from the person made responsible under subdivision (a).

• Section 23114 states (in pertinent part):

No vehicle shall be driven or moved on any highway unless the vehicle is so constructed, covered, or loaded as to prevent any of its contents or load other than clear water or feathers from live birds from dropping, sifting, leaking, blowing, spilling, or otherwise escaping from the vehicle.

• Section 23115 of the Vehicle Code states (in pertinent part):

No vehicle loaded with garbage, swill, cans, bottles, waste papers, ashes, refuse, trash, or rubbish, or any other noisome, nauseous, or offensive matter, or anything being transported to a dump site for disposal shall be driven or moved upon any highway unless the load is totally covered in a manner which will prevent the load or any part of the load from spilling or falling from the vehicle.

California Department of Parks and Recreation (State Parks) BMPs

• Designated Public Use Areas

- Trash and recycling containers are installed at all visitor activity areas and maintained at least once per week to remove litter and to verify that containers are functioning properly.
- o State Parks utilizes one mixed use (refuse and recycling) container to collect and dispose of trash and debris (~20,000 lbs.) from May through September.
- o It is routine and standard operating procedure for maintenance personnel and volunteer camp hosts to hand harvest (pogie) trash that is loose on park grounds each day after restrooms have been cleaned.
- o It is routine and standard operating procedure for beach lifeguards to hand harvest trash (pogie) that is loose on the beach or in the water each day when there are no swimmers in the water or it is safe to do so.

<u>Undeveloped Areas</u>

- Litter and debris are periodically collected from State Park's backcountry lands, water courses and roadways. Maintenance supervisors inspect park roads in their assigned sections for the accumulation of litter.
- o Signs may be installed where litter concentration is repetitive and at known illegal dumping locations.
- o Catch basins are inspected and cleaned at least once per year. During storm season, all drainage facilities are inspected and cleaned as necessary.

Volunteer Events and Public Outreach

- State Parks sponsors various Earth Day and Coastal Clean-Up Day events throughout the district. The department will initiate clean-up events, as necessary, in response to observed elevated trash levels.
- O Routine and random river bottom patrols are conducted by law enforcement at a minimum of once per week to discourage establishment of illegal camp sites.
- Camper outreach and education is implemented year-round, based on campground occupancy, and with extra efforts during the peak summer season to limit wind and wildlife trash dispersal.

• Construction Project and Special Events

- A plan for the proper management of trash and litter is required when obtaining a
 permit for staging public events on State Parks property. This plan requires
 adequate facilities for trash collection and disposal.
- When executing permits to outside contractors, State Parks insists in its contract language, and then conducts, construction facility/site inspections to ensure that proper pollution prevention BMPs are being activated.

VCAILG Litter Management Program BMPs

 Conditional Waiver – The Conditional Waiver of Waste Discharge Requirements for Discharges from Irrigated Lands within the Los Angeles Region ("Conditional Waiver", Order No. R4-2005-0080) requires VCAILG to provide educational classes focused on improving water quality, including identifying trash as an impairment of water quality. VCAILG members are required to document the trash control BMPs for agricultural areas that they employ. VCAILG assists its members with the implementation of additional BMPs for trash control, as necessary, following the adaptive process identified in the group's Water Quality Management Plan (WQMP).

- Outreach During VCAILG outreach activities, the Trash TMDL is highlighted and a
 connection made for the need to control trash in order to meet the requirements of the
 Trash TMDL. VCAILG's Management Practice Survey, used to determine the degree of
 implementation of BMPs and to provide targeted outreach, includes two questions
 regarding trash control.
- Trash TMDL Fee VCAILG members are assessed a fee, based on acreage farmed, to further reinforce through a fiscal measure that trash in the watershed needs addressing.
- Plastics Recycling Community Recycling & Resource Recovery, Inc. and local farmers
 are collaborating to recycle agricultural plastic used to cover strawberry beds and used in
 some vegetable fields during the growing season. Community Recycling & Resource
 Recovery, Inc. estimates that it collects approximately 70 percent of the agricultural
 plastic used in Ventura County. Collection and recycling of plastic is an effective
 method for reducing plastic trash from entering the Ventura River and the Estuary.
- Example Trash Control BMPs Employed by Terry Farms, a VCAILG Member:
 - o Roll-off trash cans on every ranch are emptied at least once per month
 - Recycle cans in place for the duration of the strawberry growing season: October through May
 - o Employees are reminded during daily meetings to throw all trash they generate into an appropriate receptacle
 - o Small trash cans provided to each crew are emptied daily into larger roll-off trash cans
 - o Occasional *ad hoc* trash clean-ups

MFAC/BMP Program Evaluation and Revision Recommendations

The TMRP states the responsible parties will: "Evaluate effectiveness of BMPs and recommended changes to TMRP Addendum No. 1 and MFAC/BMP Program, as necessary." Under the previous MFAC/BMP Program and TMRP, the following steps were used to assess MFAC/BMP Program effectiveness:

- 1. A review of BMP implementation, including identification of BMPs, location of BMPs, and time frame (*e.g.*, when an activity was implemented or installed); and
- 2. A comparison of monitoring results between monitoring locations and between events before and after BMP implementation.
- 3. Comprehensive review and assessment of MFAC/BMP Program

Given the broad nature of most of the BMPs implemented (*e.g.*, education programs, ordinances, street sweeping), the highly variable amounts of trash collected, and the relatively short time frame that full capture devices were installed, the responsible parties could not identify trends in the monitoring data that could be used to determine effectiveness of individual BMPs implemented. Based on the results of the previous evaluation and the structure of the new MFAC/BMP Program, the responsible parties utilized an approach based on the visual assessments.

The responsible parties utilized parcel rankings by Category as a means to assess effectiveness of the MFAC/BMP Program. That is, if there was an overall trend of parcels starting out and remaining in Category 1, or parcels moving from Category 2 or Category 3 to Category 1, then no modifications to the MFAC/BMP Program are needed. Conversely, if there was an overall trend of parcels moving from Category 1 to Category 2 or Category 3 over the course of the implementation year, then modifications to the MFAC/BMP Program would be considered.

2013-14 is the first year of the revised TMRP and modified MFAC/BMP Program implementation. A large amount of legacy trash existed in the Ventura River Estuary and the bulk of the effort (including many additional clean-up events) during this monitoring year has gone towards cleaning up the legacy trash. While most of the parcels have been cleaned and legacy trash removed, the State Parks Parcel (MFAC Area 2) still contains legacy trash. This is due to a population of homeless individuals that are not receptive to relocating from the area, even after multiple citations from local law enforcement. It is anticipated that this parcel will be fully cleaned by spring 2015. Once the legacy trash is removed, the revised TMRP and MFAC/BMP Program will begin to be implemented at the frequency outlined in the TMRP (without the additional clean-ups).

As a result, the responsible parties are not conducting an assessment of the program or proposing any revisions to the MFAC/BMP Program during this annual report. The focus on removing legacy trash in the Estuary during the monitoring year does not allow for development of an assessment of the baseline MFAC/BMP Program this year. Once the legacy trash is removed and the MFAC/BMP Program has been implemented without the legacy trash, the responsible parties will have a clearer understanding of the effectiveness of the baseline MFAC/BMP Program. However, through the initial implementation of the revised MFAC/BMP Program, it is clear that the revised MFAC/BMP Program is a better use of resources and much more effective at removing trash from the Estuary compared to the previous MFAC/BMP Program. The responsible parties will provide any revisions that were made or will be made to the MFAC/BMP Program, in the second-year Annual Report, which will be submitted in January 2016.

Appendix 1. County of Ventura Full Capture Connector Pipe Screen Trash Excluder Certification Report

VENTURA RIVER ESTUARY TRASH TMDL FULL CAPTURE CONNECTOR PIPE SCREEN TRASH EXCLUDER CERTIFICATION REPORT

100% Full Trash Capture Compliance within County Unincorporated Areas in Ventura River Estuary Subwatershed

Prepared By:



Ventura County Public Works Agency

800 S. Victoria Avenue Ventura, CA 93009-1600

January 2015

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Appendix

Appendix A Detailed Maps and Drainage Areas

Appendix B Installation Photos (Before & After)

Appendix C Inspection Form

Background

The purpose of this report is to document the installation and certification of 16 adequately sized and maintained semi-circular connector pipe screen (CPS) 100% full capture trash excluders for all Ventura County Unincorporated (County) areas draining to the County's MS4 within the Ventura River Estuary subwatershed as part of the Point Source requirements of the Ventura River Estuary Trash TMDL (Los Angeles Regional Water Quality Control Board Resolution No. R4-2007-008).

The Los Angeles Regional Water Quality Control Board (LARWQCB) adopted the definition of "full capture system" for the Ballona Creek Trash Total Maximum Daily Load (TMDL) per Resolution No. 04-023 on March 4, 2004. This definition is considered applicable for all receiving waters in the Los Angeles Region identified as being impaired for trash. The definition is as follows:

"A full capture system is any single device or series of devices that traps all particles retained by a 5 mm mesh screen and has a design treatment capacity of not less than the peak flow rate (Q) resulting from a one-year, one-hour, storm in the subdrainage area. Rational equation is used to compute the peak flow rate: $Q = C \times I \times A$, where Q = design flow rate (cubic feet per second, cfs); C = runoff coefficient (dimensionless); C = runoff coefficient map), and C = runoff area (acres)."

On August 1, 2007 the Los Angeles County Division of Public Works (LACDPW) received full capture certification from the LARWQCB for semi-circular connector pipe screens that were the basis of the submitted technical report "Connector Pipe Screen Design, Full Capture TMDL Compliance, Screen and Bypass Sizing Requirements (LACDPW Technical Report)," dated April 2007. Following the guidelines of the technical report, the County of Ventura hired a contractor to design, manufacture and install these types of devices in multiple watersheds, including the Ventura River watershed, in order to claim full capture credit towards the Trash TMDL requirements. The StormTek brand CPS devices are identified by name as being certified for 100% trash capture on page 2 in the LACDPW Technical Report.

In Fall 2014, 15 County owned and maintained catch basins were retrofitted with Stormtek CPS devices with 5 mm mesh screen designed to provide 100% capture of trash within their respective drainage areas. One catch basin location (Device ID 1-015) has 2 CPS devices installed side by side due to the large size of the outlet reinforced concrete box (RCB). All devices were installed on the downstream connector pipe at strategic locations within the Ventura River Estuary subwatershed to ensure 100% full trash capture from areas draining to the County's MS4.

Potential Point Sources and Responsible Jurisdiction

The Ventura River Estuary Trash TMDL Staff Report defines the estuary as "north-southerly between the Pacific Ocean and Main Street Bridge in the City of San Buenaventura, easterly adjacent to Seaside Wilderness Park where Ventura County Fairground is and which frequently hosts events and allows direct access to the estuary area, westerly next to Ventura Beach RV park between Main Street and Highway 101, and Emma Wood State Park under oversight of California Department of Parks and Recreation. Figure 1 depicts the general extent of the estuary as well as the parcels covering and surrounding the estuary and the applicable owner.



Figure 1 – General Extent of the Ventura River Estuary and Related Parcels

The Ventura River Estuary subwatershed is defined as "... northerly to the confluence with Weldon Canyon, easterly and westerly encompassing tributaries to the Ventura River and their surroundings, and partial City of Ventura where the storm drains discharging to the Ventura River" in the Trash Total Maximum Daily Load for the Ventura River Estuary – Final Staff Report dated July 11, 2007.

As the Minimum Frequency of Assessment and Collection (MFAC) Program for the Ventura River Estuary Trash TMDL was designed to address both point and non-point source trash and evaluate sources coming from upstream of the Estuary, the current MFAC Program includes areas outside of the estuary and areas not required by the TMDL.

The County's MS4 storm drain network that is within the Ventura River Estuary subwatershed was analyzed to identify the catch basin locations requiring CPS installations. The locations of the installations represent 100% trash capture for all County MS4 drainage areas within the subwatershed area. Figure 2 shows an overview of the County's MS4 within the Ventura River Estuary subwatershed with the locations of the installed CPS devices in relation to the Ventura River Estuary area.

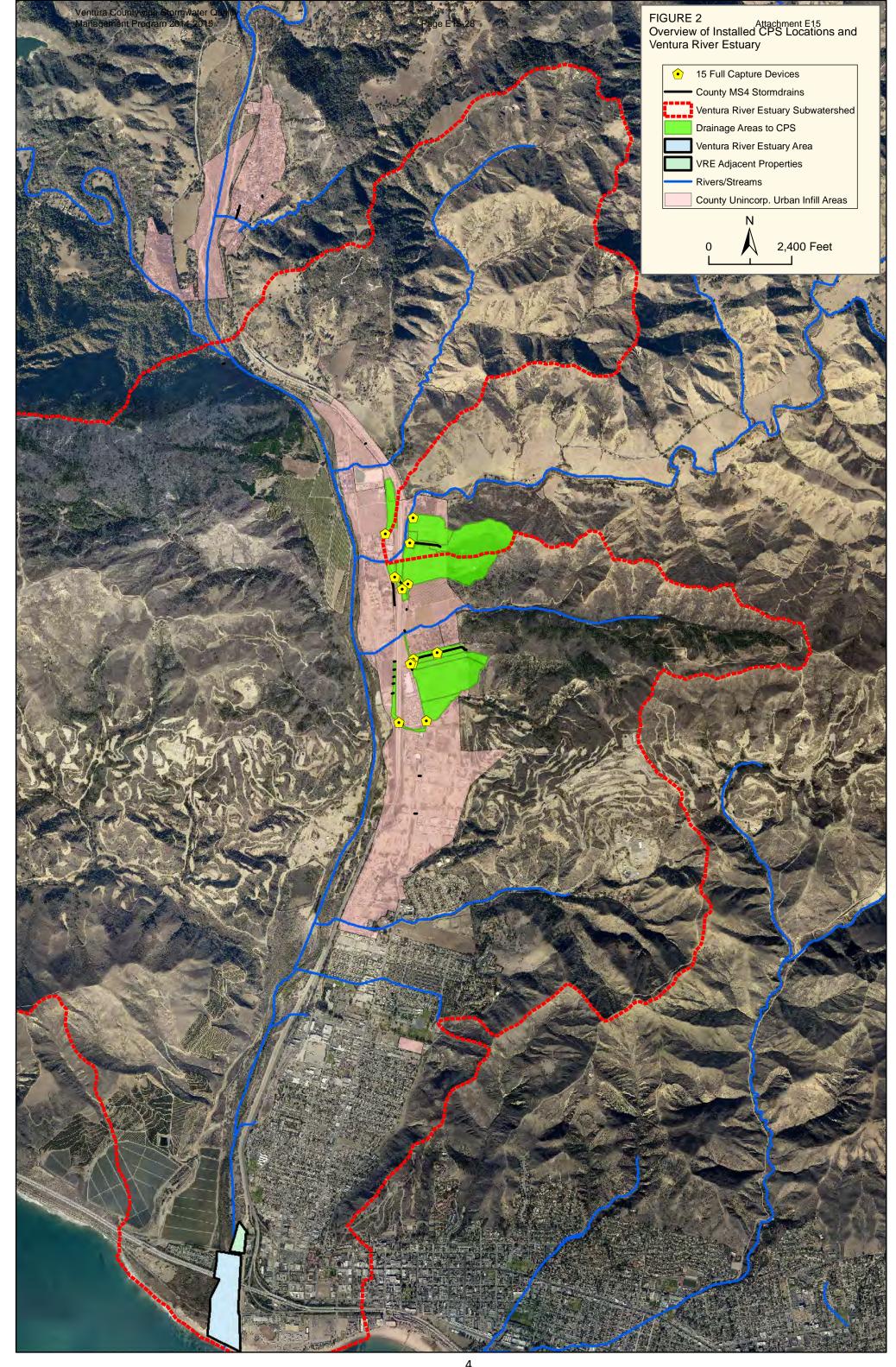


Figure 2 – Overview of Installed CPS Locations and Ventura River Estuary

CPS Device Trash Excluder Locations

Figures 3 and 4 show detailed maps of the County MS4 and the installed CPS devices with their drainage areas. **Appendix A** contains more detailed maps of each retrofitted catch basin and their drainage areas. **Appendix B** contains photos of before and after installation for each of the locations using their unique device identification number.

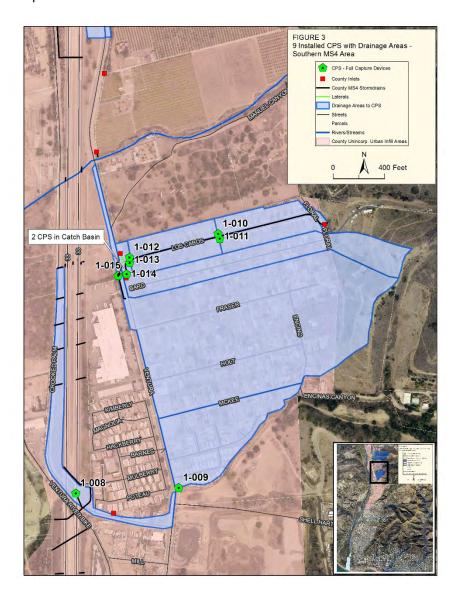


Figure 3 – Nine Installed CPS with Drainage Areas – Southern MS4 Area

It should be noted that Device ID 1-015 contains 2 CPS installed within the same catch basin. Due to the larger size of the downstream connector reinforced concrete box (7'W X 3'H), the 2 CPS devices were installed side by side to allow for full capture at this site.

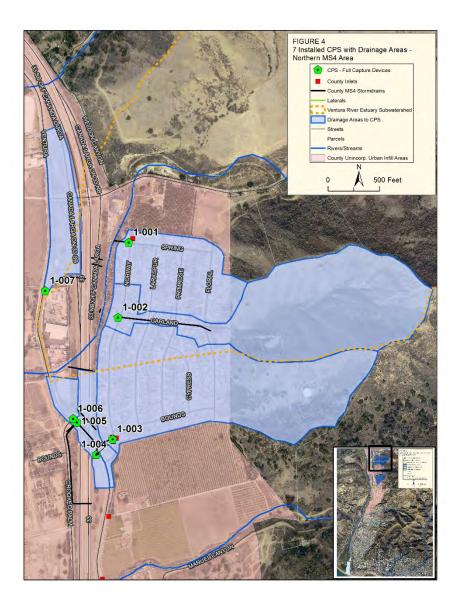


Figure 4 - Seven Installed CPS with Drainage Areas - Northern MS4 Area

Each of the CPS devices will be inspected and maintained in accordance with the operation and maintenance procedures described in detail in the document 'Ventura County - Full Capture Connector Pipe Screen Trash Excluders – Operations and Maintenance Plan' (O&M Plan) and summarized later in this report.

Design Hydrology

Since the majority of Ventura County drainage facilities are designed for a 10-yr design storm frequency (Q_{10}) , the calculations in this report for the sizing of the CPS devices are for a catch basin designed with a 10-year storm frequency. The 10-year flow is also used to analyze the downstream connector pipe design capacity frequency.

Due to a lack of historical hydrology studies for this area of the Ventura River Watershed, unit flow calculations provided by the Ventura County Watershed Protection District (VCWPD), Hydrology Section

were used for the 10-yr design flows in this analysis. The unit flows were calculated for Ventura County Rainfall Zone K, Average % Impervious = 23%, Time of Concentration (Tc) = 10 minutes and Hydrologic Soil Type = 4. Based on these parameters the average 10-yr I (in/hr) = 2.52 and the average C coefficient = 0.750 results in a Q_{10} (cfs/ac) = 1.89. It is important to note that the C coefficients listed in the Ventura County Technical Guidance Manual for Stormwater Quality Controls, 2011 (TGM) are different than the C coefficients used in the District's design storm hydrology method. This is mainly because at the 10-yr and longer storm levels the assumption is that the soils are saturated so the C coefficients are higher. At the 1- and 2-yr storm level, the soils are not fully saturated and so the C coefficients typically are lower. As described below, in calculating the Q_{1-1} , the TGM method of calculating C coefficients was used.

In order to calculate the peak flow resulting from a one-year, one-hour, storm (Q_{1-1}) for the installed CPS devices, first a rain gage analysis was performed to come up with the 1-yr, 1-hr rainfall intensity to be used in the Rational Equation to compute the peak flow rate Q = C x I x A. The following summarizes the steps taken to calculate the 1-yr, 1-hr rainfall intensity:

- Obtained the short duration frequency results from the Ventura County Watershed Protection District (District) Pearson III frequency analyses of the gage data for Gage # 167 – Hall Canyon starting in 1956
- Recorded the annual 1-hr mean, standard deviation, and station and regional skew value for the gage
- Assumed the 1-yr storm, although undefined for the annual maximum series, can be represented by the storm with a recurrence interval of 1.01 years (probability of exceedance of 0.99)
- This assumption is consistent with the Los Angeles County Department of Public Works (LACDPW) in responding to this request from the Regional Board for their jurisdiction
- Looked up the Pearson III frequency factors associated with the regional and station skews
- The above information was used to calculate the 1.01 yr 1-hr rain depth for the gage and the skew combination
- For the Hall Canyon Gage # 167, the 1-yr, 1-hr result is approximately 0.40 inches

The above results were checked and verified following the procedure below:

- Most catch basins in Ventura County are designed to accept the runoff from a 10-yr storm.
 Most areas of the County, including the Ventura River watershed area where the full capture
 devices were installed, use the K Zone rainfall hyetograph as defined in the Ventura County
 Design Hydrology Manual (2010)
- The 10-yr K Zone rainfall used in the Ventura County Modified Rational Method Program (VCRat) has a maximum 1-hr intensity of 1.2 in./hr.
- The short term rain data from Gage # 167 have a 1-hr, 1-yr/10-yr ratio of 0.191
- Applying this ration to the K Zone data shows a 1-yr, 1-hr estimate of approximately 0.20 in.
- This result shows that the 10-yr K Zone intensity commonly used in the design of catch basins is much higher than the Regional Boards requirement. Therefore, most, if not all, catch basins should be able to accept the 1-yr, 1-hr flow with correctly sized trash excluder openings with sufficient area.
- The 1-yr, 1-hr estimate using the K Zone data is smaller than the analysis results from the gage data; therefore the gage results used for sizing of the openings are considered conservative.

The drainage area was delineated for each catch basin with a CPS device installed. See **Figures 3 & 4** – Installed CPS Devices and Drainage Areas. This area represents the A in acres used in the Rational Equation Q = CIA. The dimensionless C, or runoff coefficient, used in the sizing calculations was

calculated based on the average weighted runoff coefficient for the drainage areas to each of the catch basins using Equation 2.13 from the TGM:

$$C = 0.95*imp + C_p (1-imp)$$

Where:

C = runoff coefficient (equals 0.95 for impervious surfaces)

Imp = impervious fraction of watershed

C_p = pervious runoff coefficient, determined based on soil type

GIS weighted overlay analysis was done for each drainage area to determine the average weighted soil number used in determining the C_p value used in the above equation and for calculating the Imp for each subdrainage area.

Table 1 shows the calculated Q_{10} and Q_{1-1} at each of the CPS device locations using the methods described above.

Table 1 – Hydrology Peak Flow Rates and Parameters

Device ID	Percent Impervious	C coefficient	1-yr/1-hr Intensity (in/hr)	Drainage Area (ac)	Q ₁₋₁ (cfs)	Q ₁₀ (cfs)
1-001	0.65	0.653	0.40	18.59	4.85	35.1
1-002	0.30	0.355	0.40	43.57	6.19	82.4
1-003	0.47	0.500	0.40	49.35	9.86	93.3
1-004	0.54	0.536	0.40	0.94	0.20	1.8
1-005	0.75	0.725	0.40	4.39	1.27	8.3
1-006	0.38	0.392	0.40	2.26	0.35	4.3
1-007	0.38	0.423	0.40	9.14	1.55	17.3
1-008	0.80	0.770	0.40	5.42	1.67	10.2
1-009	0.70	0.680	0.40	9.46	2.57	17.9
1-010	0.78	0.752	0.40	2.36	0.71	4.5
1-011	0.78	0.752	0.40	2.54	0.76	4.8
1-012	0.78	0.752	0.40	2.27	0.68	4.3
1-013	0.78	0.752	0.40	2.32	0.70	4.4
1-014	0.50	0.500	0.40	9.70	1.94	18.3
1-015	0.45	0.455	0.40	39.93	7.27	75.5

The licensed StormTek contractor, Estrada Engineering, sized the screens, their diameter and the vertical opening around the perimeter at the top of the screen for each device according to the recommended calculations and dimensions as shown in the LACDPW Technical Report. Each unit was custom designed and constructed for the catch basin based on its dimensions, outflow pipe and modeled flow rates. Table 2 lists the catch basin dimensions, installed CPS dimensions, and the LACDPW Technical Report minimum sizes and design screen capacities.

Hydraulic Analysis

Catch Basin Flows

A conservative estimate of catch basin flows based on curb openings widths must be determined in order to calculate the Q₁₋₁. The bypass structure must also be able to pass the maximum catch basin flow in order to provide proper flood protection. The LACDPW Technical Report was used for guidance in this analysis. The table in the Appendix of the LACDPW Technical Report was used to define the minimum screen capacity and minimum screen surface area for each catch basin. The catch basins were categorized as either 1) CB 300 – Standard Catch Basin, 2) CB 301 Side Inlet with Grate Catch Basin, or 3) CB 303 Standard Grating Catch Basin. By using the table, the catch basin type and their dimensions as well as the installed CPS device dimensions, the minimum screen capacity (cfs) and minimum screen surface area (sq in) were compared to the installed device capacity and surface area. **Table 2** lists these values and dimensions.

Table 2 - Catch Basin/CPS Dimensions & Minimum Recommended Screen Size/Capacity

Catch Basin Dimensions						Installed Insert Dimensions				LADPW Tech. Report Information				Calculated Flows		
ID No.	CB Type	Depth (in)	Width (in)	Length (ft)	Outlet Dia (in)	Туре	Screen Ht (in)	-		Screen Length (ft)	Screen Surface Area (sq in)	Min. Screen Height (in)*		Min. Screen Surface Area (sq in)	Min. Screen Capacity (cfs)*	Q1-1 (cfs)
1-001	300	70	30	6	24	S	40	36	18	4.8	2261	42	2.1	1058.4	4.9	4.85
1-002	300	47	26	6	28	S	40	36	18	4.8	2261	24	2.9	835.2	3.8	6.19
1-003	301	36	38	5	24	S	30	30	15	3.9	1413	18	3.3	712.8	3.3	9.86
1-004	301	40	36	5	24	S	32	31	15.5	4.1	1557	18	3.3	712.8	3.3	0.20
1-005	300	58	42	4	36	S	30	36	18	4.8	1696	30	1.1	396	1.8	1.27
1-006	300	34	34	7	24	S	30	30	15	3.9	1413	18	2.9	626.4	2.9	0.35
1-007	300	48	48	4	22	S	26	30	15	3.9	1225	24	1.5	432	2	1.55
1-008	301	34	48	5	24	S	30	30	15	3.9	1413	18	3.3	712.8	3.3	1.67
1-009	300	42	38	15	12	S	30	20	10	2.6	942	18	3.8	820.8	3.8	2.57
1-010	300	34	32	5	20	S	28	20	10	2.6	879	18	1.5	324	1.5	0.71
1-011	300	46	40	7	20	S	28	20	10	2.6	879	24	2.9	835.2	3.8	0.76
1-012	300	36	40	15	20	S	28	26	13	3.4	1143	18	3.1	669.6	3.1	0.68
1-013	300	36	38	5	20	S	28	20	10	2.6	879	18	1.5	324	1.5	0.70
1-014	300	46	32	6	32	S	30	36	18	4.8	1696	24	2.9	835.2	2.9	1.94
1-015	300	60	90	6	90	S	50	38	19	5.0	2983	30	2.1	756	3.5	7 27
1-015	300	60	90	6	90	S	50	38	19	5.0	2983	30	2.1	756	3.5	7.27
* Screen	n capaci	ty and re	commen	ded scree	n dimension:	s from	LADPW T	ech. F	Report	2007						
** Due	to size o	of outlet F	RCB (7'W	X 3'H) 2 (CPS Devices w	vere in	stalled s	ide by	side							

As noted in the LACDPW Technical Report some combinations of V-depths, connector pipe sizes and catch basin dimensions made installation of standard sized CPS devices impossible. For Device ID's 1-002 and 1-003, the calculated Q_{1-1} is greater than minimum Q_{1-1} shown in the LACDPW Technical Report for a catch basin with similar V-depths and lengths. The total area and therefore treatment capacity of the screen is still adequate at these locations as can be seen in the comparison of the installed Screen Surface Area to the Minimum Screen Surface area from the LACDPW Technical Report. As shown in **Table 2**, all of the installed devices meet the performance criteria for full capture certification.

Connecting Pipe Flows

As stated in the August 3, 2004 LARWQCB Technical Memorandum – Procedures and Requirements for Certification of a Best Management Practice for Trash Control as a Full Capture System (Memo), the pipes carrying the flows from the subdrainage area should be able to handle peak flows. Full flow

capacities using Manning's Equation were calculated for all connector pipes immediately downstream of the installed full capture devices. **Table 3** lists the estimated full flow capacities for each location.

Table 3 - Connector Pipe Full Flow Capacities

Device ID	Diameter (ft.)	Slope	'N'-Value	Full Flow	Calculated
				Capacity	Q10
1-001	2.00	0.0940	0.022	44.0	35.1
1-002	2.25	0.0769	0.015	80.0	82.4
1-003	2.50	0.0370	0.012	91.9	93.3
1-004	2.00	0.0100	0.012	26.3	1.8
1-005	3.50	0.0340	0.012	216.1	8.3
1-006	2.00	0.0088	0.012	24.7	4.3
1-007	1.50	0.0500	0.012	27.4	17.3
1-008	2.00	0.0171	0.012	34.5	10.2
1-009	2.50	0.0300	0.012	82.7	17.9
1-010	1.50	0.1193	0.012	42.3	4.5
1-011	1.50	0.2211	0.012	57.5	4.8
1-012	1.50	0.0278	0.012	20.4	4.3
1-013	1.50	0.0435	0.012	25.5	4.4
1-014	2.50	0.0107	0.012	49.4	18.3
1-015	5.00 (Circular Equivalent)	0.0400	0.015	485.3	75.5

The pipes carrying the flows from the subdrainage areas are able to adequately convey the calculated peak flows for the 10-year design storm.

On the basis of the above information, the County of Ventura CPS installations within the Ventura River Estuary watershed meet the definition of full capture system and are certified as a full capture system under the following conditions:

- 1. End-of-Pipe Configuration: The installed devices have an end-of-pipe configuration and do not rely on diversion weirs
- 2. Adequate Pipe Sizing: The pipes carrying the flows from the subdrainage area are able to handle the calculated peak flows.
- 3. Regular Inspections: The trash capture screen inserts will be visually inspected before and after rain events to allow for cleaning for optimal performance.
- 4. Regular Maintenance: The trash capture screen inserts will be adequately maintained and cleaned to ensure full capture during the design storm.

Inspections and Maintenance Procedures

To aid in the inspection and maintenance of the CPS devices, the County created the O&M Plan which includes comprehensive information on all aspects of inspection and maintenance of the CPS devices. Included in the O&M Plan are location maps with unique identification numbers, inspection procedures and frequency, equipment needed, maintenance procedures, emergency flood response and documentation submittal details. Because the CPS devices are recently installed, the O&M Plan is

subject to minor revisions over time. This chapter represents a summary of the inspection and maintenance procedures outlined in the document.

The maps and CPS device information in the O&M Plan are associated through unique CPS device numbers given to each installed full capture trash excluder. The first part of the identification number is a single number before the hyphen representing the Flood Control District Zone the device is located within. The second part is a three digit number representing a unique number for each device installed within that Flood Control District Zone numbered sequentially based on date of installation. For example, 1-001 represents the first device installed in Zone 1.

Each catch basin retrofitted with a CPS device has been identified in the field by a thermoplastic medallion (similar to **Figure 5**). The medallion has been positioned on the top of curb directly above the location of the CPS device within the catch basin. This was done for easy identification in emergency situations as the device location often differs between catch basins.

Figure 5 - Example of CPS Device Medallion



All CPS devices will be inspected a minimum of three times per fiscal year (July 1 through June 30). Each of the primary inspections must be separated by at least 30 calendar days.

Primary Inspections

- One (1) before the wet season (by October 1)
- One (1) during the wet season (October 1 April 15), and
- One (1) after the wet season (after April 15)

Emergency Inspections

Immediate response when flooding has been reported

All inspections and maintenance performed will be recorded on the form provided in **Appendix C** in accordance the maintenance procedures outlined herein. All inspections and maintenance will be completed by a two-person crew equipped with the proper tools and items as described in the O&M Plan.

It is anticipated that all trash excluders, even within the same flood control district zone, may be inspected by different crews. Therefore, each zone will identify one contact person that will be responsible for collecting and submitting all inspection reports to the Surface Water Quality Section (SWQS).

Each submittal will be completed within a week of inspection. All device inspections will be submitted together in one package. It is too difficult to keep track of all inspections if they are sent in by multiple sources at different times, by different methods.

It is anticipated that the emergency flood response inspections will be submitted the following day. Coordination with Ventura County Transportation Department - Maintenance group on inspection report submittal scheduling is ongoing as of January 2015.

Submittals will be scanned to PDF format and submitted to the SWQS via email. Incomplete inspection forms will not be accepted. Therefore, all pertinent information must be completed and the form signed and dated by the inspector accordingly.

The SWQS will collect all inspection forms and record all data within a spreadsheet for TMDL reporting requirements. Additionally, the SWQS will coordinate required repairs identified on the inspection forms with the CPS devices with the contractor that manufactured and installed them as they are under warranty.

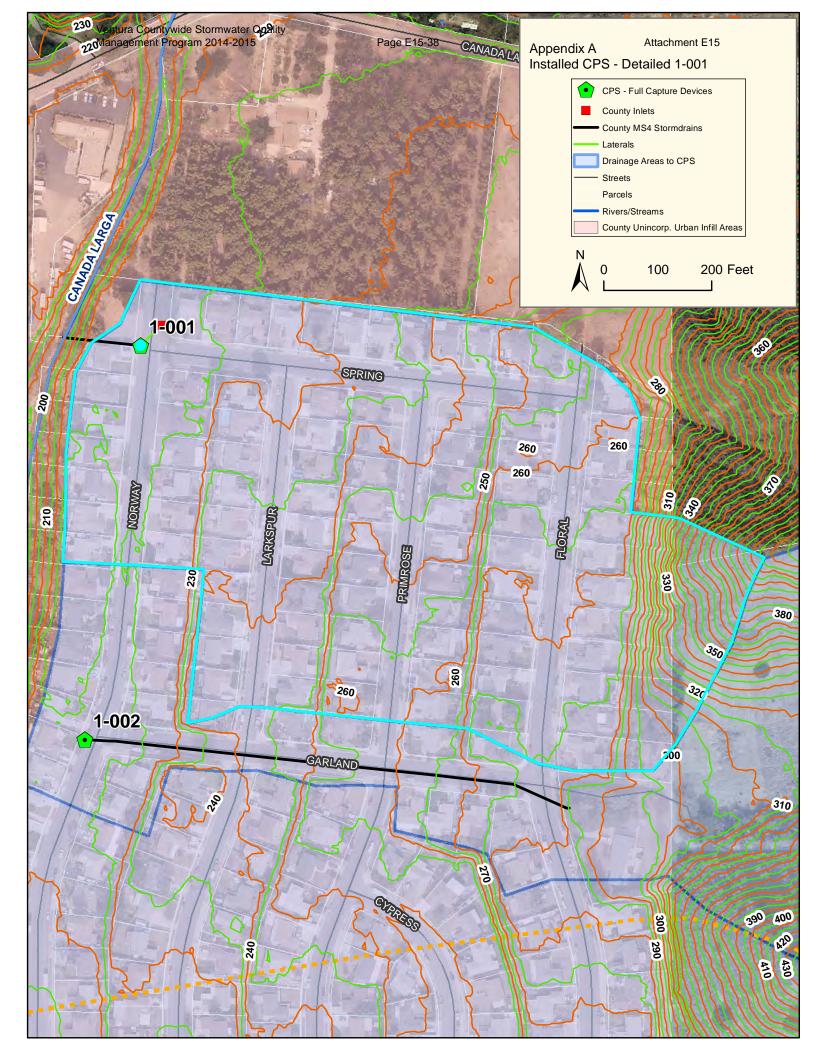
Conclusion and Summary

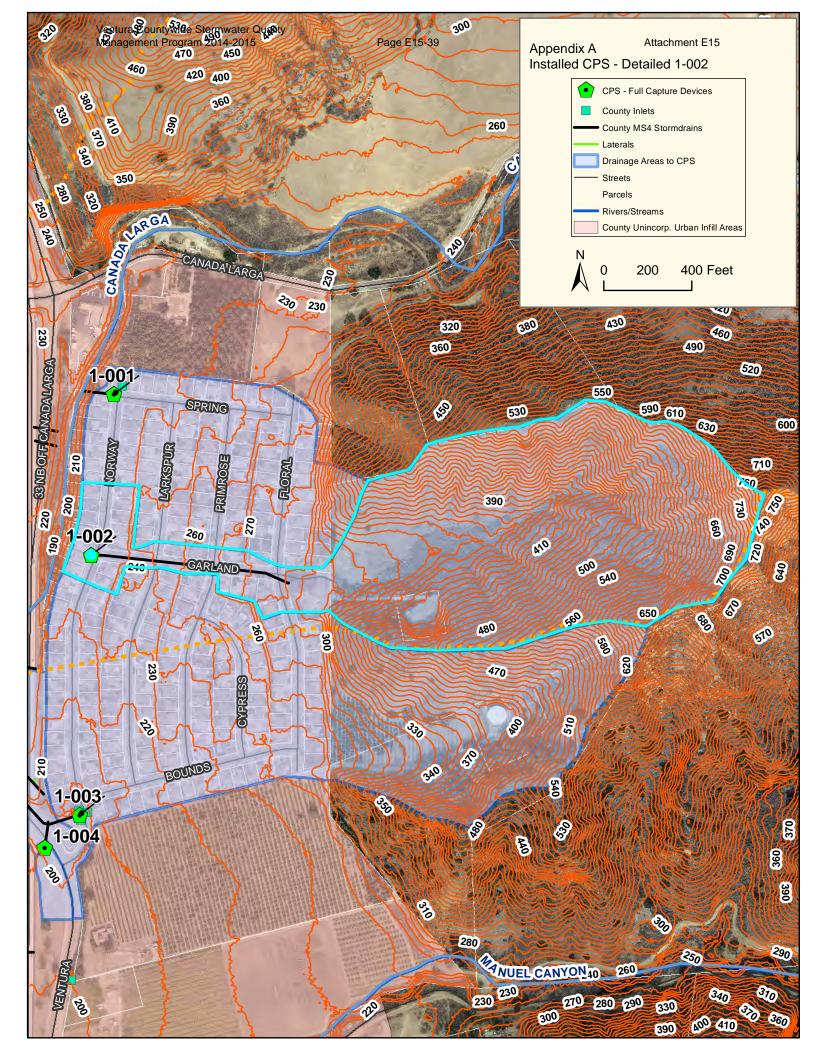
As shown in this report, the County of Ventura CPS retrofits within the Ventura River Estuary subwatershed meet the definition of full capture system and are certified as a full capture system by trapping all particles retained by a 5-mm mesh screen, and having a treatment capacity exceeding the peak flow rate resulting from a 1-yr, 1-hr storm in the subdrainage area. In addition, the following requirements are met:

- 1. <u>End-of-Pipe Configuration</u>: The installed devices have an end-of-pipe configuration and do not rely on diversion weirs;
- 2. <u>Adequate Pipe Sizing</u>: The pipes carry the flows from the subdrainage area are able to hand peak flows; and
- 3. <u>Regular Inspections and Maintenance</u>: The full capture system will be regularly inspected and serviced to continually maintain adequate flow through capacity.

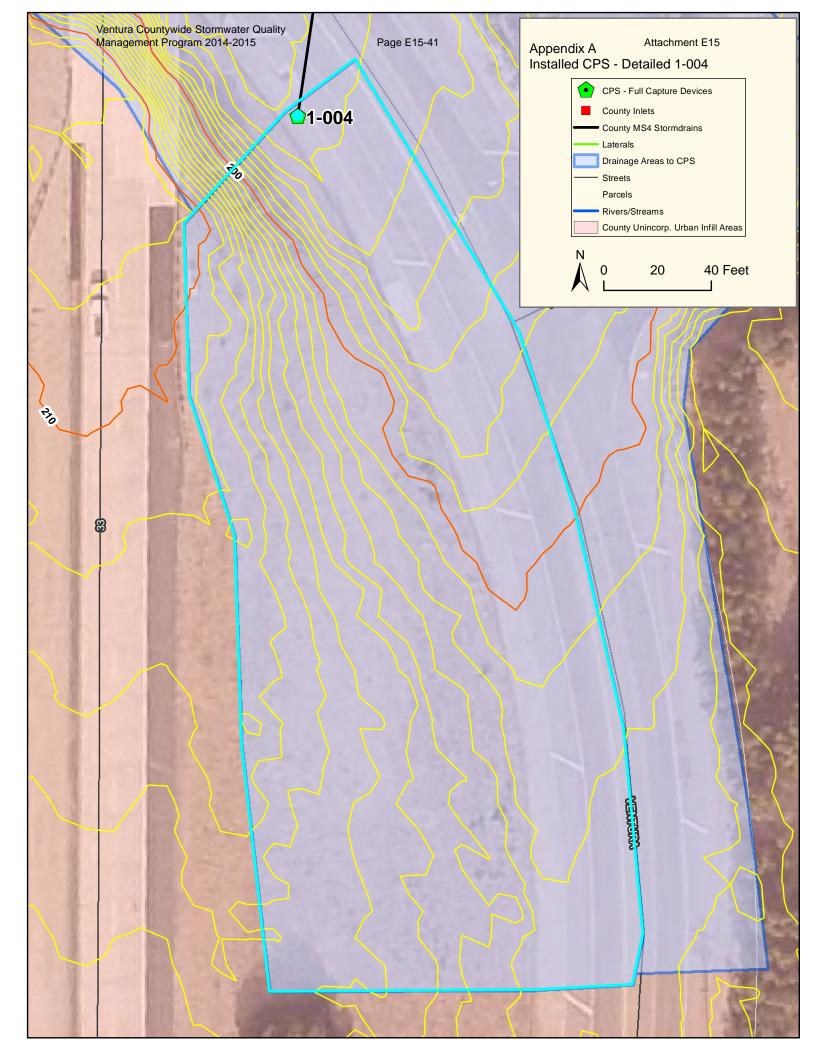
The County area within the Ventura River Estuary subwatershed that drains to County MS4 system has been treated by the installations of the CPS devices. This report serves as a determination that the vertical Connector Pipe Screens (as described and identified in this Report), when installed and maintained in appropriately sized catch basins, completely satisfy the full capture definition of the Ventura River Estuary Trash TMDL for County Unincorporated areas. It is understood that the County will have an on-going obligation to demonstrate that the installation of these devices are appropriately sized and meets the intent of this program. Likewise, the County is responsible for on-going maintenance to ensure the systems perform to design specifications.

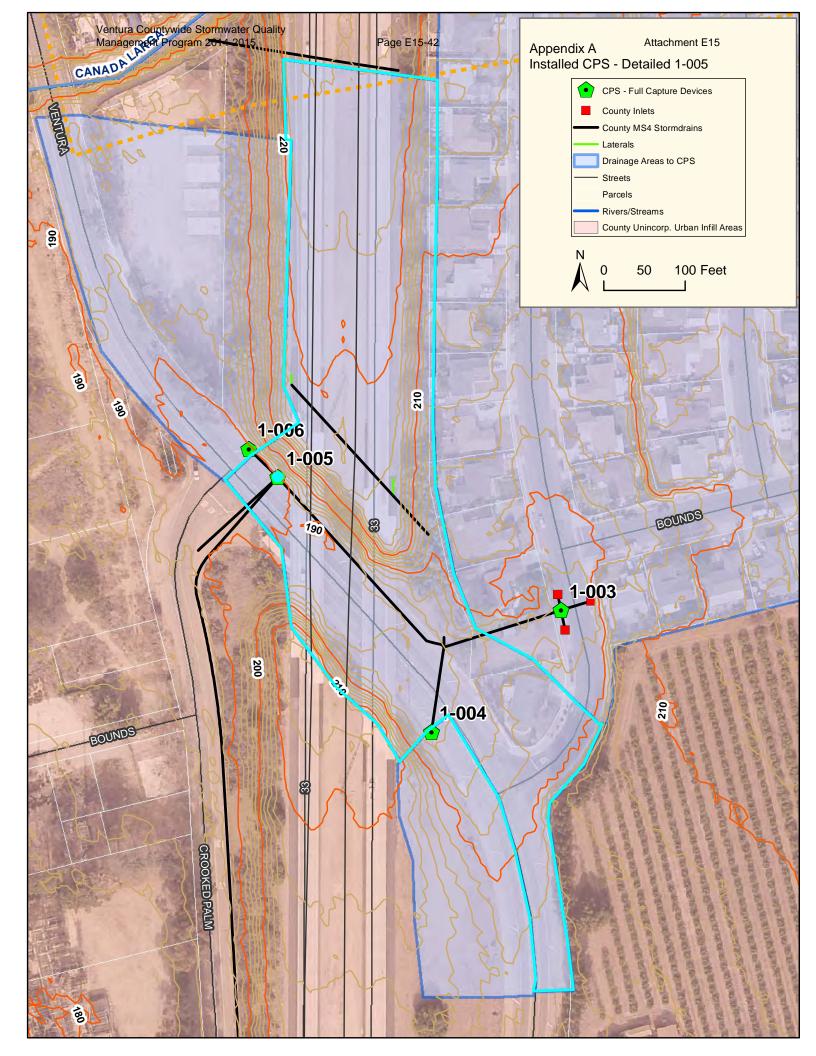
APPENDIX A DETAILED MAPS AND DRAINAGE AREAS

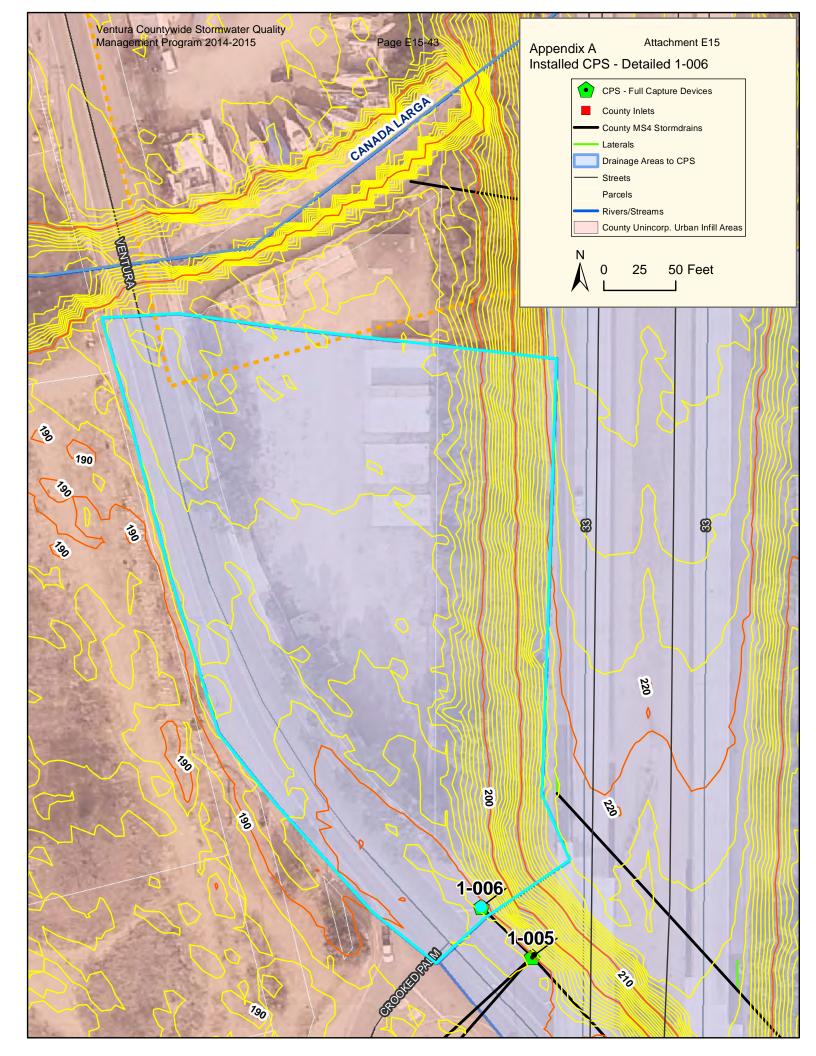


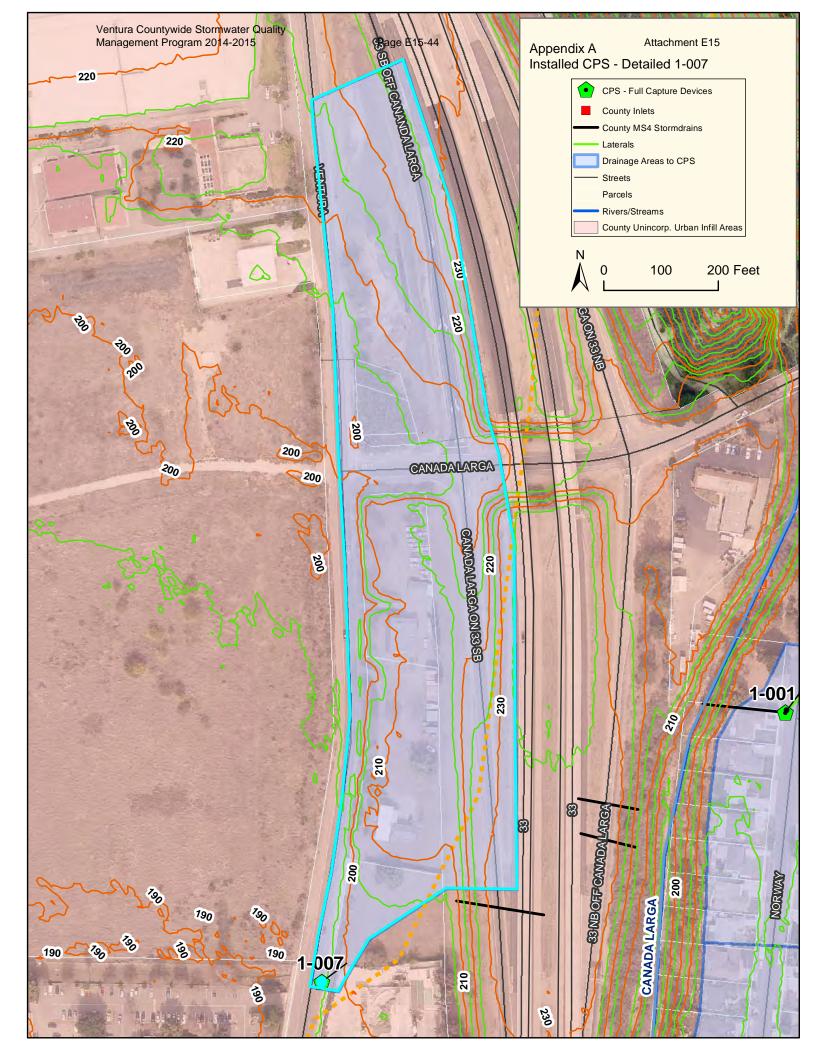


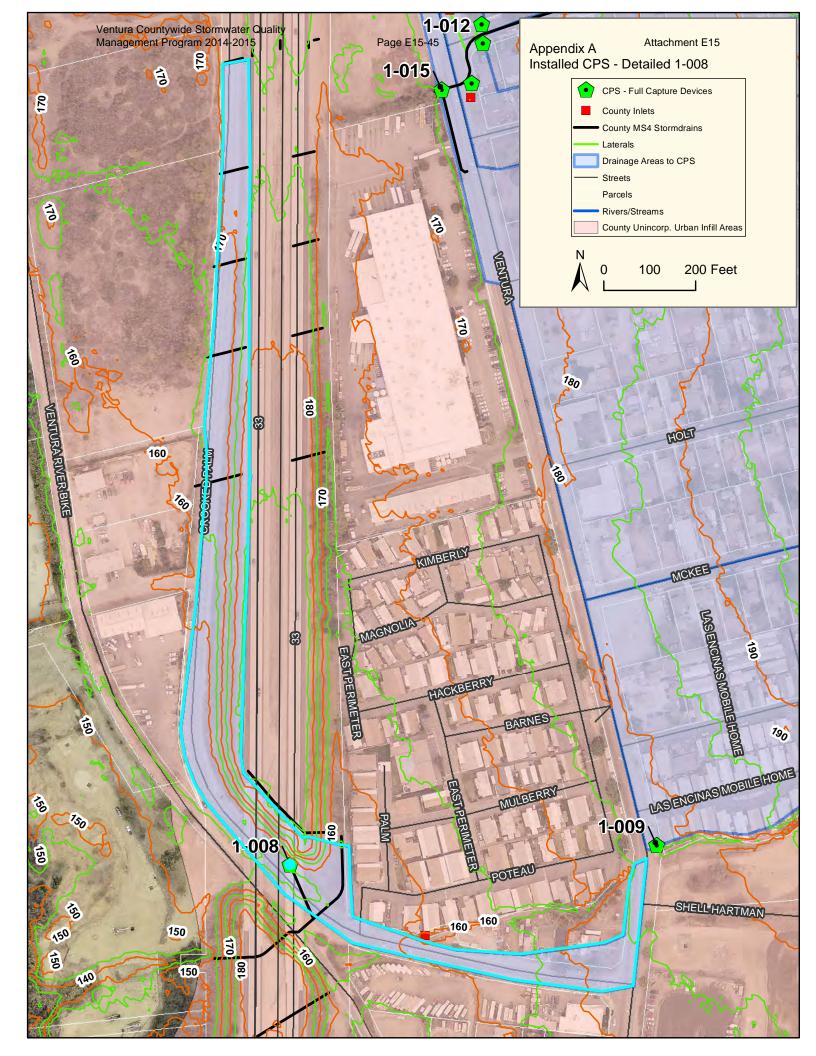


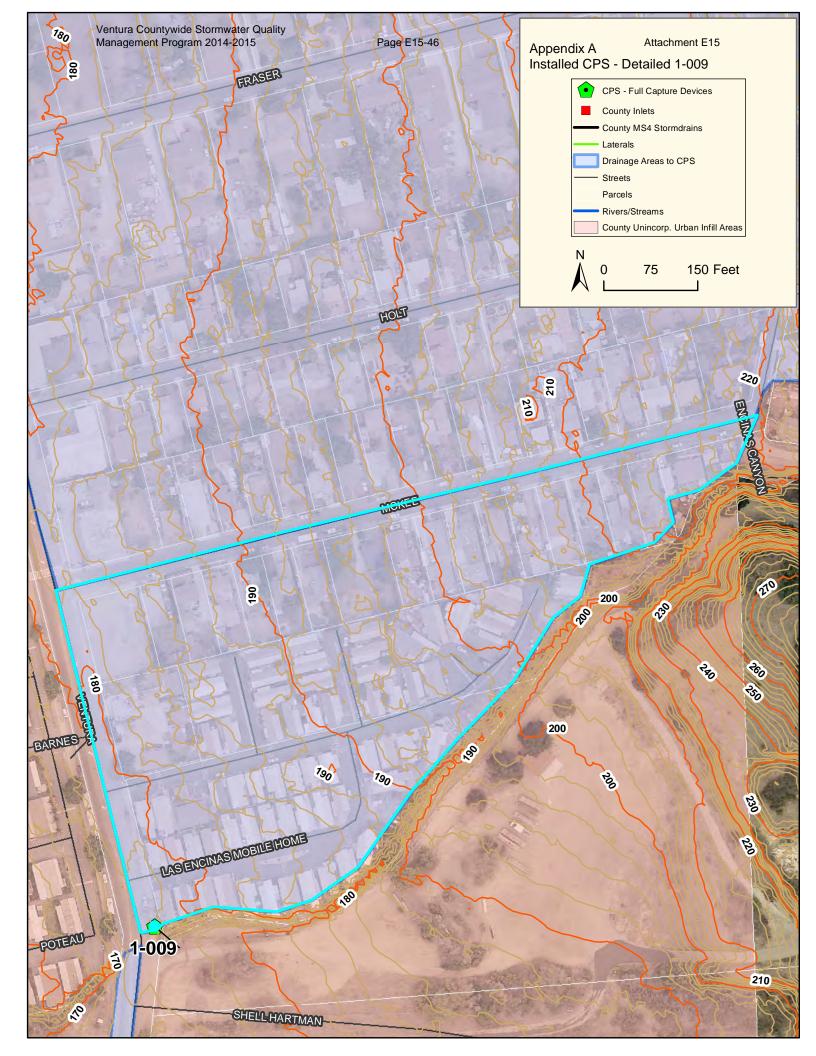


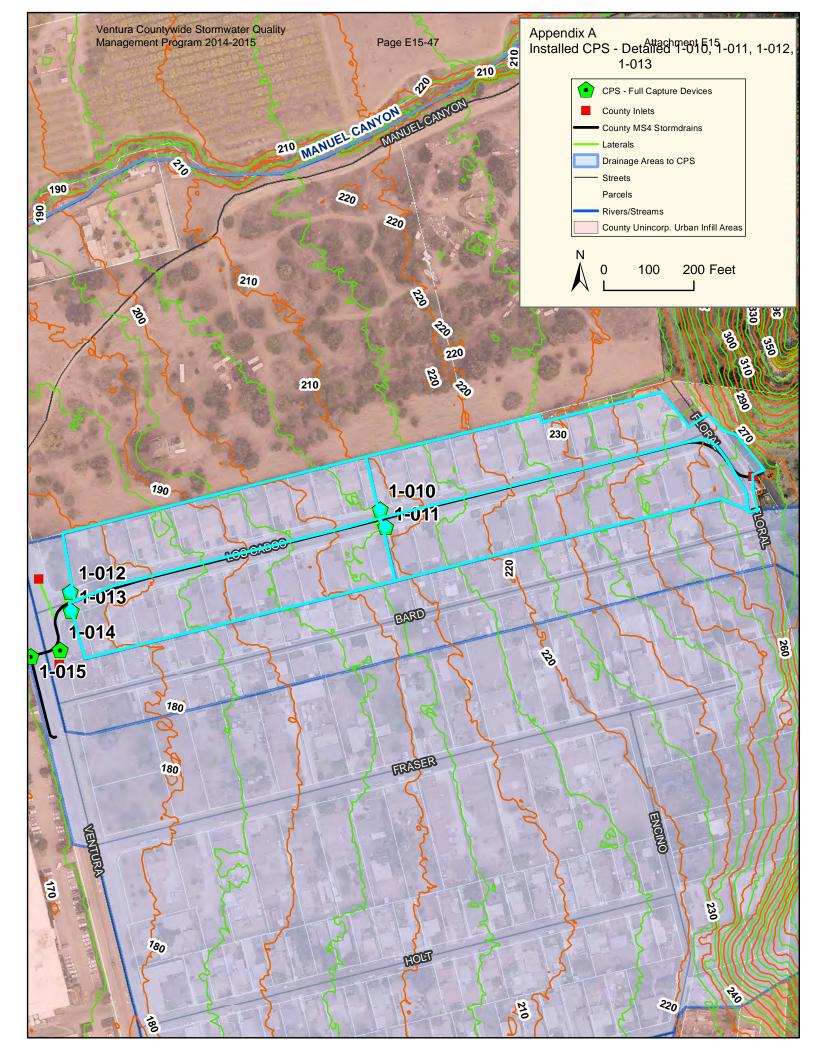


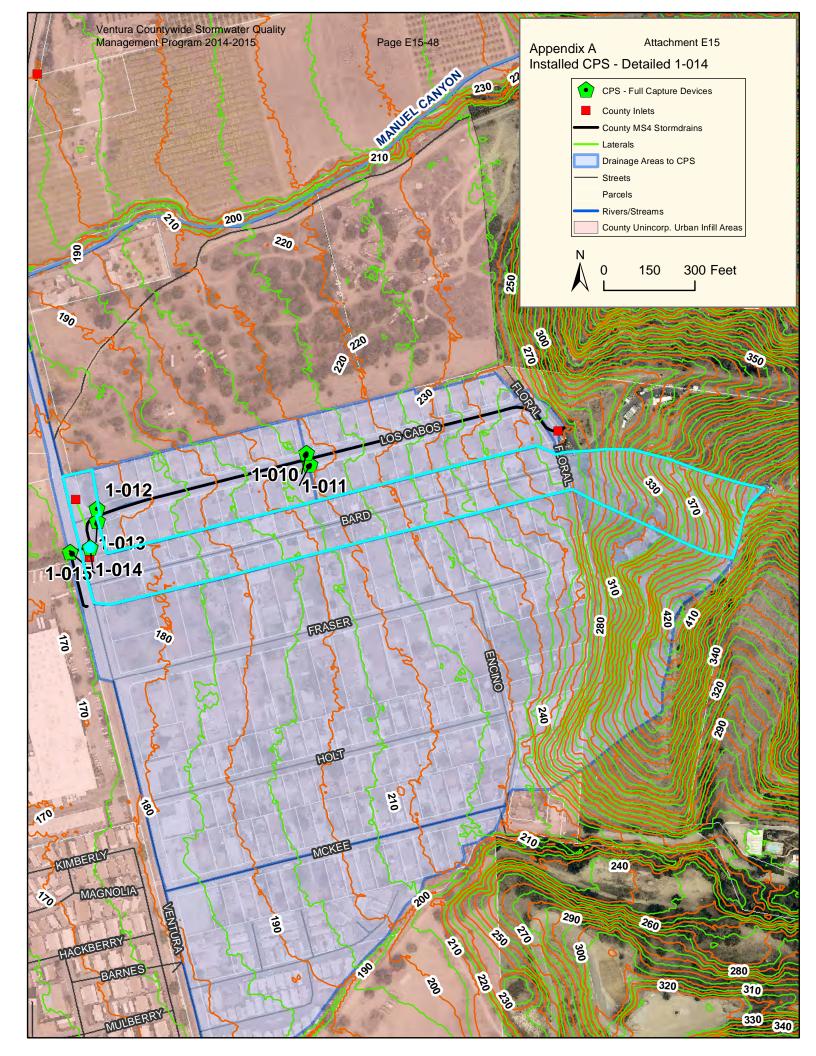


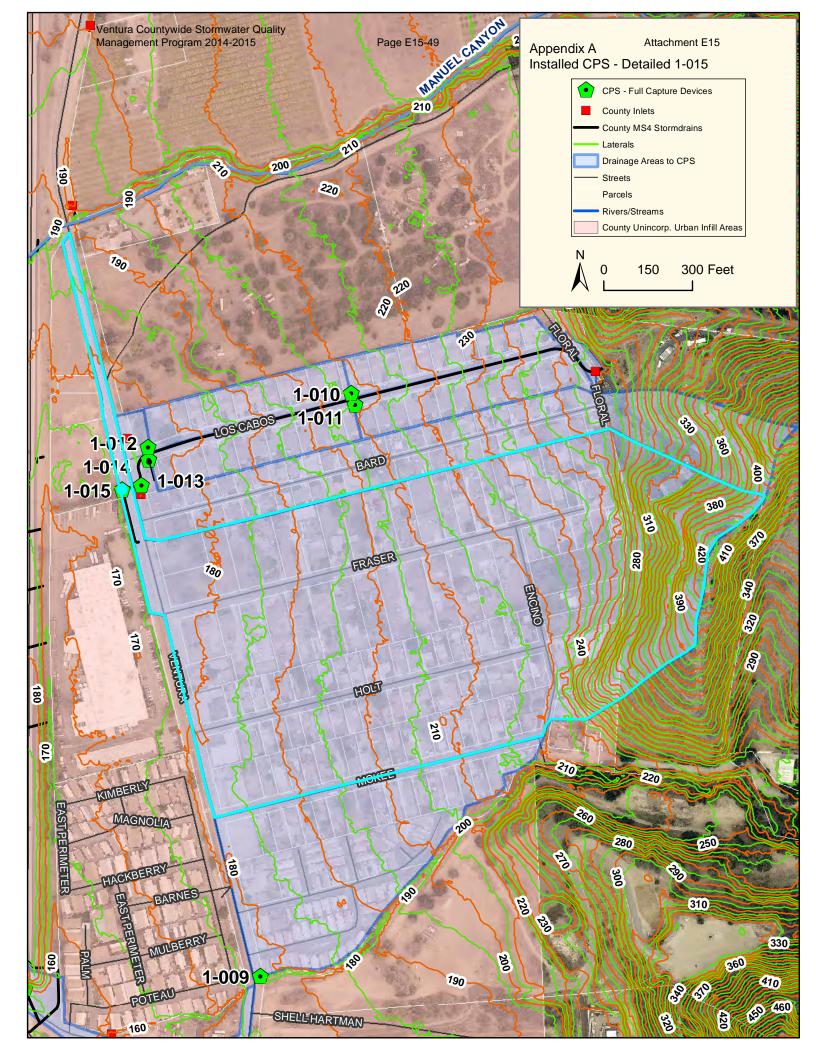












APPENDIX B INSTALLATION PHOTOS (BEFORE & AFTER)









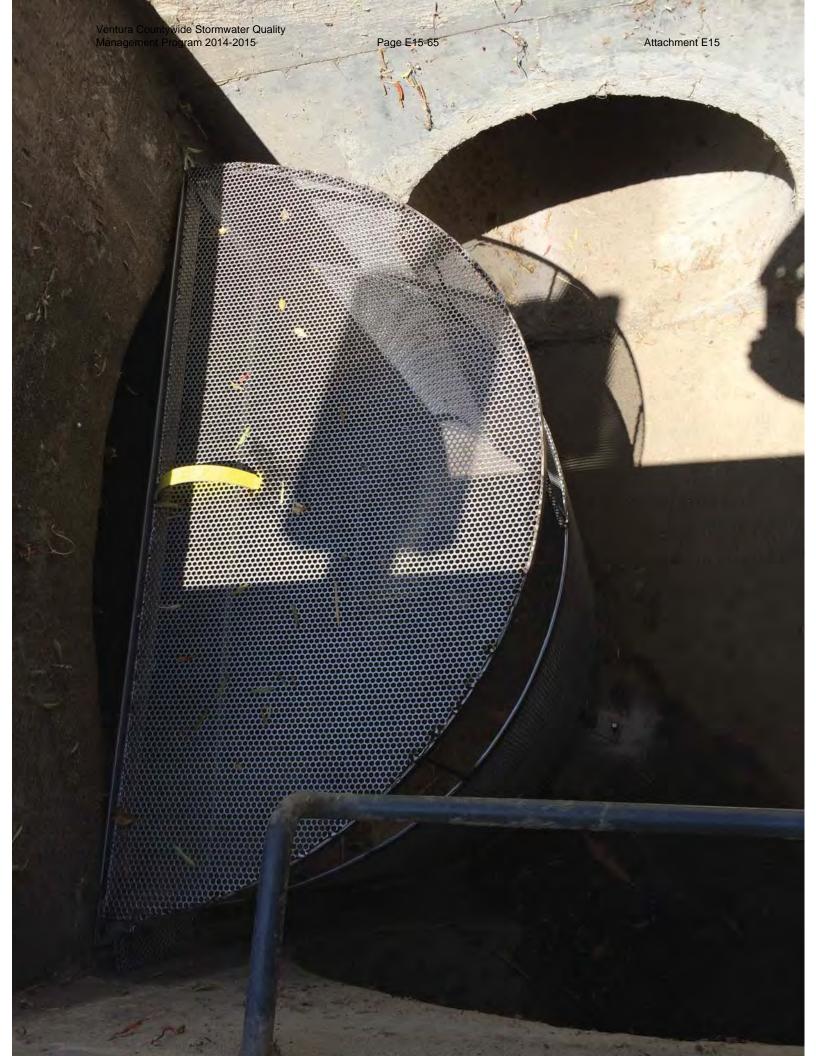














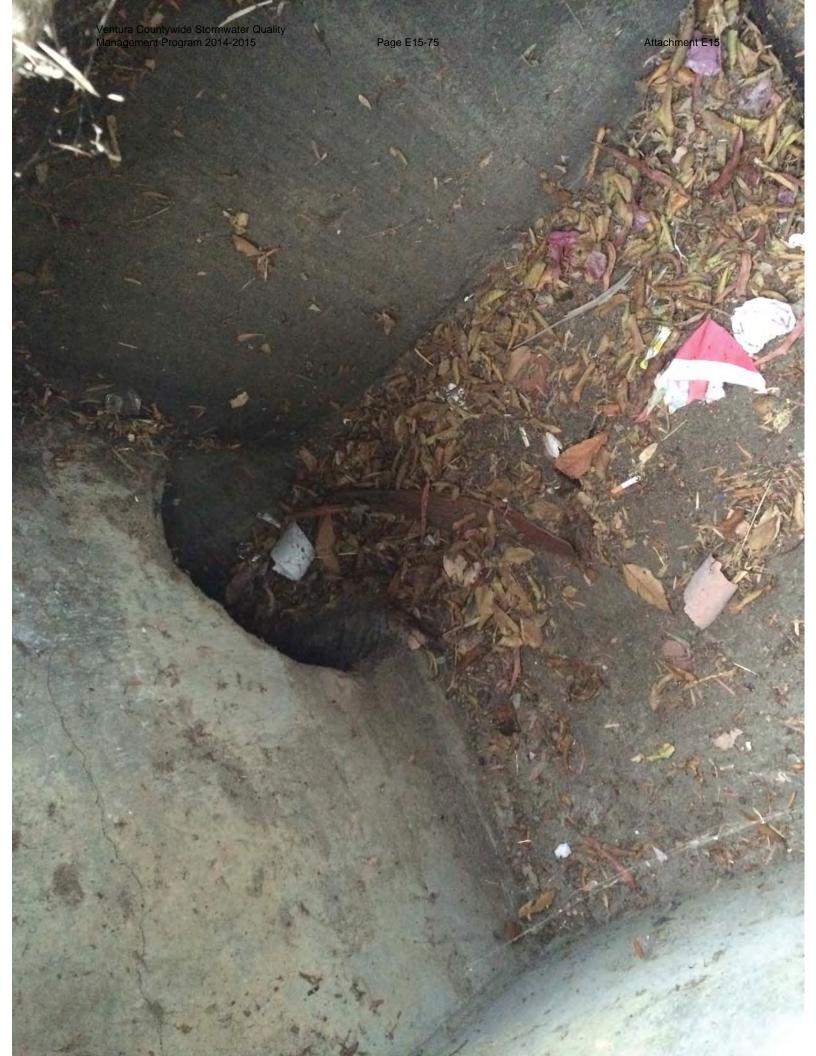




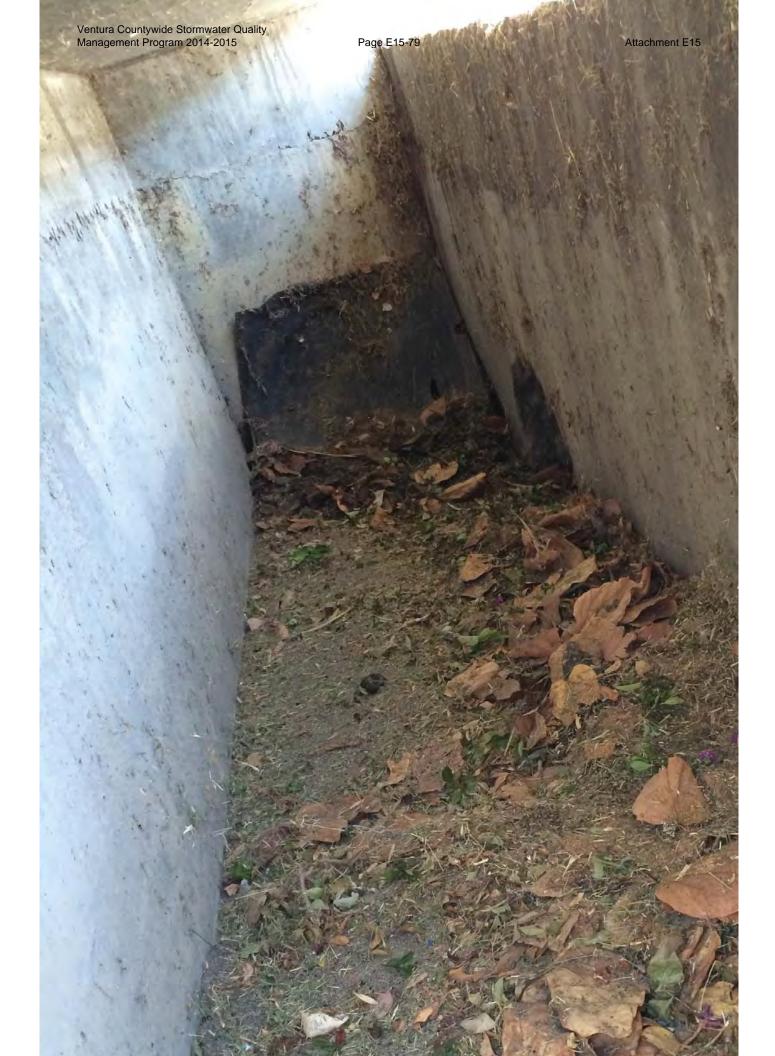


































APPENDIX C INSPECTION FORM

CHECKLIST FOR INSPECTION AND MAINTENANCE FULL CAPTURE CONNECTOR PIPE SCREEN (CPS) TRASH EXCLUDERS

Date:				CPS Device #: _						
Time:				Inspector:						
Inspect	ion Type:		Primary (3 per year required) Emergency (response due to flooding)							
STEP 1:	EXTERIOR	CHECK								
Exterior (Comments:									
Yes	No]								
	1.0	1. Has all tr	ash and de	ebris been remove	ed from cu	ırb/grate in	let?			
STEP 2:	INTERIOR	CHECK								
Interior (Comments:									
Yes	No	1								
		2. Has all de	ebris been	removed from the	e device s	creen?				
		3. Is materia	al retained	by device above	the maint	enance hei	ght?			
STEP 3:				if #3 above was			,			
	Sediment	6 of debris ba	ased on vis	vual observation (r Vegetation Debri		up to 100% T	Trash			
	Jaediment	L		vegetation bebit	5		Jirasii			
		Total combi	ined debris	removed from ca	atch basin					
	# of trash	bags filled				ht of debris	(lbs)			
M	aintenance (Comments:								
		_								
		_								
Ins	pector Signa	ture		Inspection [Date	_				

Appendix 2. Assessment and Collection Worksheets



P.O. Box 1284 Ventura, California 93002 www.venturahillsides.org 805-643-8044

July 19, 2014

Ewelina Mutkowska Stormwater Program Manager County of Ventura Public Works Agency 800 South Victoria Avenue Ventura, CA 93009-1600

Re: TMRP Invoice #1 -- for work period March 1 to June 30, 2014

- 1. The PARTIES agree that the scope of work will be reviewed and approved by the VRE Trash TMDL Responsible PARTIES and it will include the following tasks:
 - A. Routine monitoring and patrol within VRE area and adjacent property as defined in Exhibit 1 at least once a month.
 - 1. We averaged 2 patrols per week covering an expanded Area #3 (which covers the area between just north of the Main St. bridge and just south of the 101 bridge).
 - 2. We averaged 2 patrols per month covering areas #2, 3, 4.
 - 3. Once a month we patrolled the whole VRE area (#1, 2, 3, 4)
 - B. Coordination and supervision of volunteer clean-ups within VRE area as defined in Exhibit 1 to occur at least once a quarter.
 - 1. We coordinated and supervised volunteer clean-ups on the following days:

March 4 (regularly scheduled 1st Tuesday/mo)

March 9 (environmental students from Orange County)

March 16 (environmental students from Orange County)

March 22 (regularly scheduled 3rd Saturday/mo)

April 1 (regular 1st Tuesday/mo)

April 19 (regular 3rd Saturday/mo) (Cub & Boy Scouts)

May 6 (regular 1st Tuesday/mo)

May 17 (regular 3rd Saturday/mo)

June 3 (regular 1st Tuesday/mo)

June 21 (regular 3rd Saturday/mo)

July 7 (regular 1st Tuesday/mo)

July 19 (regular 3rd Saturday/mo)

- C. Quarterly trash assessment events in accordance with the revised Ventura River Estuary Trash Monitoring and Reporting Plan, (expected to be approved by RWQCB in April 2014).
 - We conducted two quarterly trash assessments (May 4 and June 16) as recorded on the attached Trash Visual Survey Worksheets and Trash Visual Survey Maps and photo pages below:
- D. Quarterly trash assessment data and photo reporting to the VRE Trash TMDL Responsible PARTIES.
 - We documented trash conditions and took representative photographs on May 4 and June 16 as recorded on the attached Trash Visual Survey Worksheets and Trash Visual Survey Maps and photo pages.
- E. Preparation of the Annual Report in accordance with the revised Ventura River Estuary Trash Monitoring and Reporting Plan, (expected to be approved by RWQCB in April 2014); the first report to be prepared by the Conservancy will be due January 2, 2015 for review and approval of the VRE Trash TMDL Responsible PARTIES.
 - 1. Annual report forthcoming in January 2015
- F. Volunteer Recruitment and Business Partner Outreach.
 - Our Development and Volunteer Outreach Manager, Lee Sherman, recruited many volunteers at many outreach events and opportunities, including soliciting volunteers and coordinating clean-up events via social media. His time is documented on the attached budget spreadsheet.
- 2. The annual budget for the Conservancy services to the VRE Trash TMDL Responsible PARTIES shall include sufficient hours to conduct the approved scope of work, mileage, and administration fee of not to exceed 10% (ten percent). The annual budget for this work shall be provided by the Conservancy on or before October 15th each year of this MOA duration and will be reviewed and approved by the VRE Trash TMDL Responsible PARTIES by December 31st each year of this MOA duration.

Thank you for the opportunity to conduct this work. At your earliest convenience, please remit \$5790.20 to:

Ventura Hillsides Conservancy P.O. Box 1284 Ventura, CA 93002

Sincerely,

Derek Poultney

Conservation Manager

Proposed Annual Budget January 2014	Routine Monitoring & Patrol 2x/wk		Coordinate & Supervise Volunteer Clean- ups 2x/mo		Quarterly Trash Assessment & Reporting & TMDL Team Coordination		Volunteer Recruitment & Business Partner Outreach		Mileage x \$0.565		Admin OVHD 10%	Totals
	hours	\$	hours	\$	hours	\$	hours	\$	miles	l		
Conservation Manager @ \$50/hr	400	\$20,000	120	\$6,000	60	\$3,000	40	\$2,000	964	\$544.66	\$3,154.50	\$34,699.16
Volunteer Manager @ \$40/hr	125	\$5,000	120	\$4,800	12	\$480	30	\$1,200	330	\$186.45	\$1,166.60	\$12,833.05
Equipment, supplies		\$50		\$1,000					20	\$11.30	\$108.10	\$1,189.40
Total \$48,721.6										\$48,721.61		

Invoice #1 for work performed 3-1-14 to 6-30-14		Routine Monitoring & Patrol 2x/wk		Coordinate & Supervise Volunteer Clean- ups 2x/mo		Quarterly Trash Assessment & Reporting & TMDL Team Coordination		Volunteer Recruitment & Business Partner Outreach		eage 60.56	Admin OVHD 10%	Totals
	hours	т	hours	\$	hours	\$	hours	\$	miles	\$		
Conservation Manager @ \$50/hr	9	\$450.00	22.75	\$1,137.50	26.5	\$1,325.00			105.1	\$58.86	\$291.25	\$3,262.61
Dvlpmt & Volunteer Manager @ \$40/hr			4	\$160.00			30.00	\$1,200	7.5	\$4.20	\$136.00	\$1,500.20
Conservation Assistant @ \$25/hr	21	\$525.00	10.25	\$256.25	1	\$25.00			202.5	\$113.40	\$80.63	\$1,000.28
Equipment, supplies: \$9.66 Pepper Spray & \$14.99 Carwash		\$24.65									\$2.46	\$27.11

Total \$5,790.20

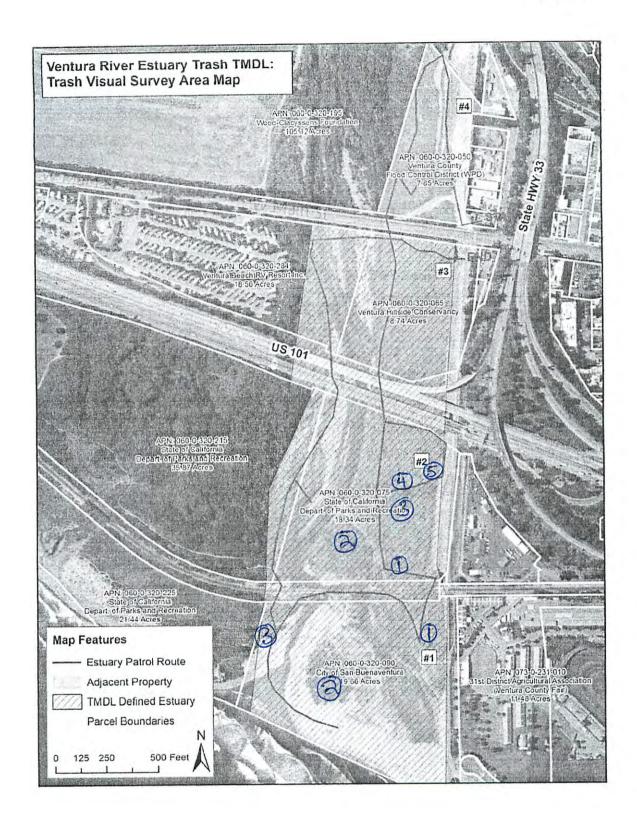
rash Visual Survey Workshe		-1 n rs
roel No.: 132 spector: Dashell Dunkell surrent Weather Condition: Sunny tecedent Weather Condition: Sunny	Survey	y Date: 5 / 64 / 14 y Start/ End Time: 5:45pml 8:00pm
vel of Trash Observed: efer to Program Monitoring Area Map as necess reas of the parcel. If necessary, categorize these	areas individually.	
EY: Category 1 (<10 pcs), Category 2 (10-5		n(s) for Category Rating:
Notes/Parcel area: (1-1) Scrub near beach (1-2) campsites at estuary S		active campsites
(1-3) campites at estracy E	4 ~6	+ active camps
2-1) campsite N of trestle (2-2) campsite on Island (2-3) abandoned campsites (2-4) campsite W of Estracy (2-5) speay painters/partyers	4 3-4	rge campsite nown camps, voices heard, day aboundanced camps all campsite amounts of trash/potential Hez-
□ Landscape Materials ਈ □ Toxic/ Hazardous Materials ਈ	oply): Saper Products/ Biodegr Aluminum/ metal Glass Sports Equipment	radable ☑ Household Items ☐ Automotive ☐ Biohazardous ☐ Other
Notes: Plastic bottles/food		s found.
2-1) 1 cleanup, (2-2) unk everal large cleanups, (2-3	Needed (describe why) to 8 (leanups, & naon extent of) 2 cleanups. bridge.	piagest active comping area.
-1) and (2-1), as we	ividuals were 11 as spray- sward dag and	



Track TMDI

Trash Visual Survey Worksheet		
Parcel No.: 1,23 Inspector: Dashiell Dunkell Current Weather Condition: Sunny	that	Survey Date: 6/13/14 Survey Start/ End Time: 10:00and 12:00pm
Antecedent Weather Condition:	· Way	
areas of the parcel. If necessary, categorize these are	eas individuall	
KEY: Category 1 (<10 pcs), Category 2 (10-50 p	cs), Categor	ry 3 (51-100 pcs), Category 4 (>100 pcs)
Notes/Parcel area: # 1-1-> Campsites E. Estuary # 1-2-> Campsites S. Estuary # 1-3-> Cypress grove #2-1-> Camp near trestle #22-> Island #2-3-> Arundo trucket	Category: 4 4 3 4 7 4	Reason(s) for Category Rating: ~ 6 active camps on City propert ~ 3 active camps on beach assorted trash piles I carge campsite, heavily use No new reft/evidence of activity 2 large campsites, heavily use
#2-4 - willow / Arundo	4	I medium campsite, active Temporary tent camp
101 Bridge	3	spray point cans asst. trash
Main St Bridge	_ 1	plastic bags, beer cans
□ Landscape Materials □ Toxic/ Hazardous Materials □ Personal Effects □ Spo	per Products minum/ meta ass orts Equipme	□ Biohazardous
The 8-10 active camps and trash.	ve 4-5 1 -> App d oxtre	comps remaining, and to prox 10-12 electups to clear mely large amounts of
heavier use as state camps and Arundo.	Pac	e property weared of

DRAFT



	٨	/	F	A	C	E	ν	e	n	t	V	۷	O	r	k	S	ı	1	е	е	t
--	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Parcel No .: State Packs 18.34	ಎ८(೮5 Event Date: _5	
Specific Cleanup Location: Mtd-part		Time: 9:00am / 11:45am
Field Technician name(s): Destruit		they
Current Weather Condition: Sunna	, breezy, werm	
Antecedent Weather Condition: <u>5 ێ v</u>	ing, NoT	
Types of Trash Observed (check all the	at apply):	
Plastic/ Styrofoam	☑ Paper Products/ Biodegradable	☑ Household Items
□ Landscape Materials	Aluminum/ metal	□ Automotive
Toxic/ Hazardous Materials	☑ Glass	☑ Biohazardous
☑ Personal Effects	□ Sports Equipment	□ Other
Notes: Matority of	trash was plastic	bags/food
waspers / drink	containers. Also 6	rae amounts
of Motura / person	rel effects. Found	3 syringes multiple
botteries bite por	3. Found 2 bicycles,	1 child's motorcycle,
4-wheeled caft, 1000	e rofts.	<i>J</i> '
) 	
		0
Potential Source(s) of Trash Collect	ted: Abandoned hor	neless camps,
wike threves graft	it writers.	
II Is a distribution Track Demokrin	- Fallawara - N. (2100	
Hazardous/ Legacy Trash Requirin	g Follow-up: None.	
MFAC Event Actions for Follow-up	: Nane	
1	1-121	2001 A 1.
Additional Notes: Cleaned	trash from ap	1000x/marery
3 (acque abandon	ed camps. ASTORED	by State Packs
Rangers, we tound	2 potentially Stole	n sicycles and
1 motorcycle, we at	so removed a raft	That everile
occess to the "Isla		
T. I Calliante de		
Trash Collected: No. of Trash Bags Filled: 25	Dumpster % Fill: <u>(ರಿ ೪/</u> Dum	npster Size (cubic yds):
No. of Hash Days I med. Vo		A
Lead Field Technician Certification	(sign/ print);	Aplia
"Cleaned area is free of all visible tra		WICY Doshiell Dunk

Representative Photos (3-1 to 6-30-2014):



Typical small camp & associated trash on State Park property we clean up same day or at next volunteer clean-up



Larger camp on City property (Area #1) we haven't gotten to yet



Random site that get cleaned up same day or during next volunteer cleanup



Ongoing spray can trash and dump sites under the bridges

Ojai Spring Carwash

11502 N. Ventura Ave

0jai CA 93023 805-640-9923

0001 0001100 000 000 11502 NORTH VENTURO AVE USA1, CA. 93023 805-640-9923

No chant 10: 6021424646 Term 10: 0075420008021424646000

Sale

xxxxxxxxxxxx3332

Entry Method: Swiped DISCOVER

Total:.

12.59

03/17/14

10:67:09

Inv II: 000012

Appr Code: 017058

Approd: Online

Course Com

Testrat. YOU'

0A1E/1.ME: 3/17/2014 10:07:14 AM CASHIER: 100101

Closed to Credit Card Purchase

STATTON: 01

18/01CEN 381167

Item Count: 0

1 MATTETJA Subtotal GRAND TOTAL

\$12.99

Credit

than you for visit sat!

Save this receipt. It is your laim troket
If it rains within 24 hours we'll rewash
the exterior for fixed! (Redecomble within
24 hours after take stores) 24 hours after rain stops)

THANK YOU FOR SHOPPING AT MEINERS OAKS ACE HARDWARE (805) 646-7234

like us at facebook.com/meinersoakshardware

3/16/14 11:30AM KS

554 SALE

5032354 PEPPER SPRAY .50Z CANSTR

1 EA

8.99 EA 8.99

SUB-TOTAL:

8.99 TAX

TOTAL:

.67 9.66

BC AMT:

9.66

BK CARD#:

XXXXXXXXXXXXXX3332

ID: 670120393799

01658B

AMT:

9.66

Host reference #:332191

Bat#1141

SWIPED

AUTH:

CARD TYPE:DISCOVER

EXPR: XXXX

==>> JRNL#D32191

<<==

CUST # *13193

ACE REWARDS ID # 19168260698

THANK YOU DEREK POULTNEY FOR YOUR PATRONAGE

I agree to pay above total amount according to card issuer agreement (merchant agreement if credit voucher) Acct: DEREK POULTNEY

Customer Copy



P.O. Box 1284 Ventura, California 93002 www.venturahillsides.org 805-643-8044

October 29, 2014

Ewelina Mutkowska Stormwater Program Manager County of Ventura Public Works Agency 800 South Victoria Avenue Ventura, CA 93009-1600

Re: TMRP Invoice #2 - Summary of work performed July 1 to September 30, 2014

- The PARTIES agree that the scope of work will be reviewed and approved by the VRE Trash TMDL Responsible PARTIES and it will include the following tasks:
 - A. Routine monitoring and patrol within VRE area and adjacent property as defined in Exhibit 1 at least once a month.
 - We averaged 2 patrols per week (sometimes 3 patrols per week during the busiest times during the County Fair) covering most of area #2 and all of Areas #3 & 4 (which covers the area between the railroad bridge and a quarter mile north of Main Street).
 - 2. We averaged 2 patrols per month covering areas 1, 2, 3, 4).
 - In addition, we helped coordinate State Park officer "law enforcement sweeps" on August 20, September 18 and September 30.
 - B. Coordination and supervision of volunteer clean-ups within VRE area as defined in Exhibit 1 to occur at least once a quarter.
 - We coordinated and supervised 8 volunteer clean-ups, several CREW (Arundo-removal) workdays and herbicide treatments on the following days:

July 7 (monthly herbicide treatment on cut Arundo)

July 19 (regularly scheduled 3rd Saturday/mo)

August 11 (monthly herbicide treatment on cut Arundo)

August 16 (regularly scheduled 3rd Saturday/mo)

September 8 (1st Tuesday/mo moved back a week)

September 9 (coordinated the CREW's first workday)

September 15 (monthly herbicide treatment)

September 20 (regularly scheduled 3rd Saturday/mo)

- C. Quarterly trash assessment events in accordance with the revised Ventura River Estuary Trash Monitoring and Reporting Plan, (expected to be approved by RWQCB in April 2014).
 - We conducted several trash assessments, including monthly assessments of the entire project area on July 28, 30; August 1, 8, 9, 11, 16, 20; and September 5, 15, 20, as documented on the attached Trash Visual Survey Worksheets and Trash Visual Survey Maps:
- Quarterly trash assessment photo reporting to the VRE Trash TMDL Responsible PARTIES.
 - 1. We took representative photographs on May 4 and June 16 as shown on the attached photo pages.
- E. Preparation of the Annual Report in accordance with the revised Ventura River Estuary Trash Monitoring and Reporting Plan, (expected to be approved by RWQCB in April 2014); the first report to be prepared by the Conservancy will be due January 2, 2015 for review and approval of the VRE Trash TMDL Responsible PARTIES.
 - 1. Annual report forthcoming in January 2015
- F. Volunteer Recruitment and Business Partner Outreach.
 - VHC staff spent a significant amount of time recruiting many volunteers at many outreach events and opportunities, including soliciting volunteers and coordinating clean-up events via social media.
- 2. The annual budget for the Conservancy services to the VRE Trash TMDL Responsible PARTIES shall include sufficient hours to conduct the approved scope of work, mileage, and administration fee of not to exceed 10% (ten percent). The annual budget for this work shall be provided by the Conservancy on or before October 15th each year of this MOA duration and will be reviewed and approved by the VRE Trash TMDL Responsible PARTIES by December 31st each year of this MOA duration.

Thank you for the opportunity to conduct this work. At your earliest convenience, please remit \$13,911.85 to:

Ventura Hillsides Conservancy P.O. Box 1284 Ventura, CA 93002

Sincerely,

Derek Poultney

Conservation Manager

Ventura Hillsides Conservancy

Invoice #2

Ventura River Estuary Trash TMDL Patrols, Monitoring, and Volunteer Clean-up # P6040508

Invoice date: 10-30-14

To: Ewelina Mutkowska, Watershed Protection District

800 S. Victoria Avenue Ventura, CA 93009-1610

Email: ewelina.mutkowska@ventura.org

Subject: Ventura River Estuary Trash TMDL Patrols, Monitoring, and Volunteer Clean-up # P6040508

Reported inspection period: from 7 / 1 / 2014 to 9 / 30 / 2014

Invoice #2 for work performed 7-1-14 to 9-30-14	R Mor	Task 1 Routine nitoring & Patrol 2x/wk	Volu	Task 2 dinate & Supervise unteer Clean-ups 2x/mo	Quart Asse Rep TMI Cool	ask 3 erly Trash ssment & orting & DL Team rdination	Volu Recrui Bus Pai Out	sk 4 Inteer tment & iness rtner reach	x \$	eage 60.56	Admin OVHD 10%	Totals
	hours	\$	hours	\$	hours	\$	hours	\$	miles	\$		
Conservation Manager @ \$50/hr	20.25	\$1,012.50	27	\$1,350	33.75	\$1,687.50	7.75	387.50	565	\$316.36	\$443.75	\$5,197.61
Volunteer Manager @ \$40/hr	45.5	\$1,820	31	\$1,240	17.75	\$710	82	\$3,280	247.5	\$138.60	\$705	\$7,893.60
Equipment/supplies												
Contractors				\$511 RCP herbicide application; \$309.64 EJ Harrison service								\$820.64
Total				<u>-</u>								\$13,911.85

Attachment: Completed Inspection forms/Report

Ventura Countywide Stormwater Quality
Management Program 2014-2015
Resource Conservation Partners, Inc.

Page E15-113

Attachment E15

Invoice

2500 Channel Drive, Suite A-2 Ventura, CA 93003

Date	Invoice #
10/15/2014	1032

Ventura Hillsides Conservancy
Derek Poultney
3451 Foothill Road Suite 201
Ventura, CA 93003

	P.O. No.	Terms	Project
		Due on receipt	On-Call T&M
Description	Qty	Rate	Amount
State Park Herbicide			
Herbicide	1	30.00	30.00
Labor	7.4	65.00	481.00
	1	otal -	\$511.00
	F	Payments/Credits	\$0.00

Now

\$511.00

Balance Due

DATE	DESCRIPTION	AMOUNT
VTA AVE &	HWY 33 -	
9/17/14	9/17 DL.40YD"GW"7-9AM PLS CALL 1.00	
9/17/14	9/17 D/P 40YD"GW"AFTER 12PM PLS 1.00	168.48
9/17/14	WOOD LOADS ZONE 1 2.96 35.450 FOR CUSTOMER SERVICE & BILLING CALL: (805)647-1414 EXT 7 THIS BILL IS DUE AND PAYABLE IN 10 DAYS	104.93
	SUB TOTAL	273.41
	TOTAL TAXES AND FEES	36.23

CURRENT	30 DAYS	60 DAYS	90 DAYS	Please pay BALANCE DUE
309.64	.00	.00	.00	309.64

Office Hours: MONDAY thru FRIDAY 8:00 A.M. to 5:00 P.M.

MAKE CHECK PAYABLE TO: E.J. HARRISON ROLLOFFS

Ventura Hillsides Conservancy

E. J. Harrison & Sons, Inc.

Dumpster

10/17/2014

309.64

1873



Trash Visual Survey Worksheet

	Survey Date: 7-28-14
7	Survey Start/ End Time: 10am / 11:3
ear, calm	
ear, calm	
prize these areas individually.	rantial variation in levels of trash observed in different 3 (51-100 pcs), Category 4 (>100 pcs) Reason(s) for Category Rating: 3 areas of non-camp, day-use trash
all that apply): ② Paper Products/ □ Aluminum/ metal □ Glass □ Sports Equipmen	□ Automotive □ Biohazardous
Events Needed (descri t cleanup to mak	bewhy): just a few minutes ke these areas trash-free aga:
than noted above	e, all of areas #3 and #4 are eces of trash).
	ear, calm ear, calm es necessary. Note any substrize these areas individually. ry 2 (10-50 pcs), Category Category: alge 2 all that apply): X Paper Products/ Aluminum/ metal Glass Glass Sports Equipmen chan noted above

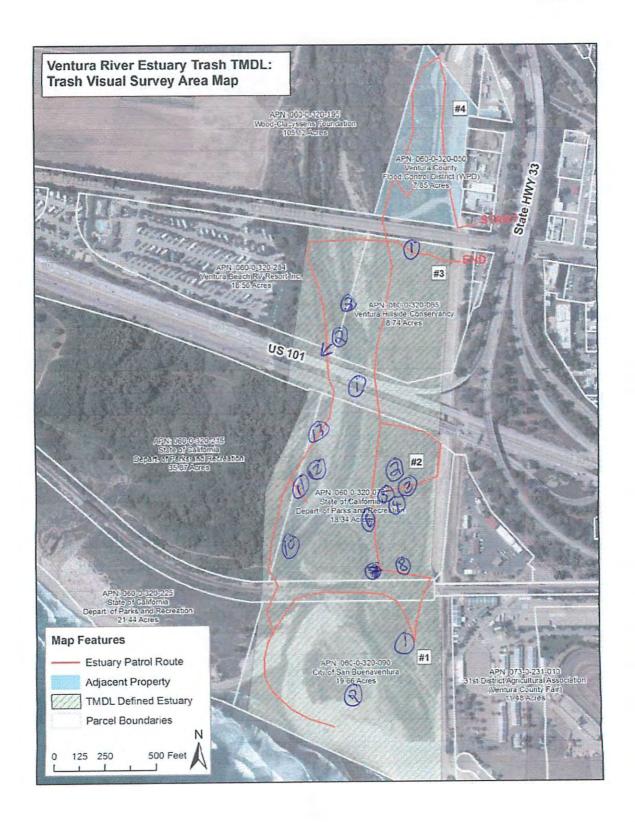
Trash Visual Survey Worksheet

Parcel No.: 1, 2, 3		Survey Date: 7-30-14
Inspector: Derek Poultney	_	Survey Start/ End Time: 10:45 / 12:30
Current Weather Condition: Clear, C	alm	
Antecedent Weather Condition: clear, c	alm	
Level of Trash Observed: Refer to Program Monitoring Area Map as necessar areas of the parcel. If necessary, categorize these a		antial variation in levels of trash observed in different
KEY: Category 1 (<10 pcs), Category 2 (10-50	pcs), Category	3 (51-100 pcs), Category 4 (>100 pcs)
Notes/Parcel area: under Main St. bridge	Category:	Reason(s) for Category Rating: 3 areas of non-camp, day-use
		trash
Area #3 just south of Mas	in 1	new minor area of day use trash
Area #2 right in middle	2	new camp large red tent
of the property		left voicemail for State Park
		Ranger to deal with it
Area #1 evidence of camp	 ers	
coming right back to the		
		lays ago left voicemail for the
		can keep that area camp/trash-free
•	aper Products/ I	_
	luminum/ metal	
□ Toxic/ Hazardous Materials □ G		□ Biohazardous
□ Personal Effects □ S _I	ports Equipment	t □ Other
Notes:		
Est. No. of Follow-up Cleanup Events N	leeded (descri	bewhy): just a few minutes at make these areas trash-free again
		mare these areas trash free again.
Additional Notes: I disturbed a	Bobcat's a	slumber in Area 3

Trash Visual Survey Workshee	<u>t</u>	The second second
Parcel No.:		Survey Date: 8/1/14
Inspector: District Dinkell		Survey Start/ End Time: 3:30 /6:00
	un/fo	21
Antecedent Weather Condition: 50000		3
Level of Trash Observed:		
Refer to Program Monitoring Area Map as necessary areas of the parcel. If necessary, categorize these		ostantial variation in levels of trash observed in different
KEY: Category 1 (<10 pcs), Category 2 (10-50		
Notes/ Parcel area:	Category:	Reason(s) for Category Rating:
#3-1	2	remnants of trush pile under badge
#3-2	3	Wash pile format Cans
*3-3	2	trash from RV Park
40.1		- I tead to be to to wither
#2-1	2	remarks of tashque under (0) badge
#4-4	2	Bke thet den
+0-3 +2-4	7	old confight trash pile
#2 t	W 1	carosite
#21	3 1	+0.11 h. 20
122-7	4	2 camp sites + trash bear
+2-4	2	to the base asser Vive change
#3-9	4	abandoned (and trais heap
- continued on	rever	Se ->
Types of Trash Observed (check all that app		(Birdenodola (II)
	aper Products Iuminum/ met	s/ Biodegradable
☐ Landscape Materials ☐ Toxic/ Hazardous Materials ☐ G		dal □ Automotive ☑ Biohazardous
TONIO Hazarada Materiale	oorts Equipm	
	3	1
Notes: MOSI COMMON TY 0-5	N 005e	rved was plastic bags/food
Wrappels		
Est No. of Follow-up Cleanup Events N	leeded (des	cribe why): Parcel #3 and 101 bindge:
I closure mostly under lor 1	bridge P	ofcel # 2: 10 cleansps, activity
instinicated correctly with	new r	amps being found, Parcel #1:
3 cleanings, notty for ~	3 cong	s on beach side of estuary
Additional Notes: city of Ven	tura f	east odge, however activity
recently cleared on to	supled	east odge, however activity
Alltared to be reside	I Ad IA	Campsites and southern
edge of property was	never	deared. Removal of myoporum

management regiani zer i zere	. ago = . o o	, masimism = 10
notes/parcel area:	Category	· reason.
#1-1	1	2 bikes + some trash
#1-2	4	2 camps + trasp
#2-10 #2-11 #2-13 #3-13	3443	trash heap camp + trash heap camp + bike chopo shops camp site

DRAFT



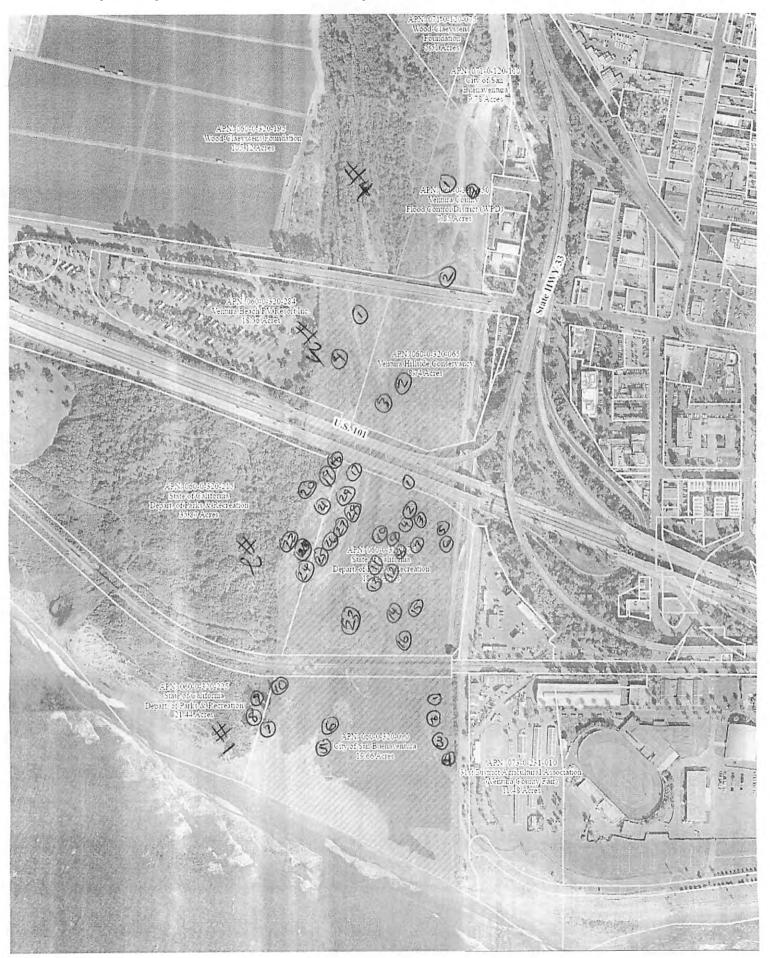
Trash Visual Survey Workshe	<u>et</u>	
Parcel No.: 233		Survey Date: <u>8/8/14</u>
nspector: Dashiell Dunkell		Survey Start/ End Time: 4:15 /5:45
Current Weather Condition: Pacial	san/fog	
Antecedent Weather Condition: 5444	m, ach	
Level of Trash Observed:	5	
Refer to Program Monitoring Area Map as necessa		tantial variation in levels of trash observed in different
areas of the parcel. If necessary, categorize these	· · · · · · · · · · · · · · · · · · ·	
KEY: Category 1 (<10 pcs), Category 2 (10-50	· · · · · · · · · · · · · · · · · · ·	
Notes/ Parcel area:	Category:	Reason(s) for Category Rating:
Main St Bridge	<u> </u>	Misc. trash of paint caus
Level Road	2	misc trash
101 Bridge	3	Paint cons, camping remnants
parcel #2 - South of 101	_ <u>a</u>	Abandoned compo
·		·
		
	-	· · · · · · · · · · · · · · · · · · ·
Types of Trash Observed (check all that ap	ply):	
Plastic/ Styrofoam	aper Products/	Biodegradable Household Items
_ ' ' '	Juminum/ metal	
	Blass	□ Biohazardous
red Personal Effects □ S	Sports Equipmen	other
Notes: Illegal gatti,	and go	ithti-related trash appeals
to be increasing		11
Est. No. of Follow-up Cleanup Events	Needed (descri	ibe why): Trada Surveyed Shoul
be cleaned up with		le cleanup except.
		· ·
		
Addițional Notes: Access to	ahana	loned course and tradi
oilos en ocoperti	# 2 C	Tak Parks moods to
be increased.		

<u> Trash Visual Survey Workshee</u>	<u>et</u>			
Parcel No.: 3		Survey Date:	8/9	
Inspector: Paswell Dunk	ēll		nd Time: 2:00/3:6	<u>≫</u>
Current Weather Condition: SUAM	y, was			
Antecedent Weather Condition: 500	ny / pal	that tog		
		\bigcirc		
Level of Trash Observed: Refer to Program Monitoring Area Map as necessa	enc Noto any sul	hetantial variation in le	wale of trach observed in differer	nt
areas of the parcel. If necessary, categorize these			TOIS OF CLUSING SECTION III. MINISTON	
KEY: Category 1 (<10 pcs), Category 2 (10-50	0 pcs), Catego	ry 3 (51-100 pcs), C	ategory 4 (>100 pcs)	
Notes/ Parcel area:	Category:	Reason(s) for Ca	itegory Rating:	
101 Bridge	3	Locgo an	rough of trash	
		0		
		_		
		_		
			· · · · · · · · · · · · · · · · · · ·	
	·	_		
		-		
Types of Trash Observed (check all that ap	ply):			
/		s/ Biodegradable	☐ Household Items	
•	Alyminum/ met	tal	□ Automotive	
☑ Toxic/ Hazardous Materials	Slass		□ Biohazardous	
	Sports Equipme		□ Other	
Notes: Leftover trush	from_	canpes	, Lots of	
Notes: Leftover trush spray point co	کہ			
		^ ((1)	
Est. No. of Follow-up Cleanup Events	Needed (des	cribe why):	10 (1) (lean	4
should be justicien	ah Loc	Clearth	y under (DI	
orical.	······································			
ALINE ACIADO A.	ما ار جالار	صه م کرید	CACOCACOCARIA	
Additional Notes:		Ciba St	Les STO DE COCE	•
Additional Notes: Acuado an wage of a figure in some	p place	S DE	, for on arms)	
17 CUTT CHAT IN DOVE	- pour	J		

- C. C. S.	Survey Date: 8 20 14
عال	Survey Start/ End Time: 4:45 /5:45
4.04	
in cloud	y, Day
ary. Note any sul areas individual	bstantial variation in levels of trash observed in different lly.
0 pcs), Catego	pry 3 (51-100 pcs), Category 4 (>100 pcs)
Category:	Reason(s) for Category Rating:
2	scattered trash
2	Party remains
3	Paint cans / trash
-	-
	- 1
-	
	-
ply):	
	s/ Biodegradable Household Items
Aluminum/ met	tal □ Automotive
Slass	□ Biohazardous
Sports Equipme	ent Other
acallist	i activity under 101
3	
	ply): Paper Products Aluminum/ met

Trash Visual Survey Worksheet	
Parcel No.: All parcels Inspector: Dashiell Dunkell Current Weather Condition: Purhal sun for Antecedent Weather Condition: Sun	Survey Date: 95 H Survey Start/ End Time: 1:00 and 2:30 pm
Level of Trash Observed: Refer to Program Monitoring Area Map as necessary. Note any sub areas of the parcel. If necessary, categorize these areas individual.	stantial variation in levels of trash observed in different y.
KEY: Category 1 (<10 pcs), Category 2 (10-50 pcs), Category	ry 3 (51-100 pcs), Category 4 (>100 pcs)
Notes/Parcel area: Category: 4-1 scattered personal trash 2 4-2 Trash under bridge 2	Reason(s) for Category Rating: food viappers + personal affects plantic trash + beer ins + parties
3-1 paint can + coffee cup 1 3-2 plastic trush 1 3-3 temporary camp 2	3 tens of trust suffered plastic left by floodwaters personal effects + toosh
2-1 101 bridge trash 2-2 abardoned camp 2-1 abardoned camp 2-4 abardoned camp 1-5 active camp 3 2-6 trash pre 4	many many pront zers + trash 5 mall campsile w/ trash Lots of trash tots of trash fairly contained Lots of trash
15 11011	Automotive Biohazardous ent Other Tash Sources appear to the parks property. 2-3 on City property near beach
Est. No. of Follow-up Cleanup Events Needed (designate likely needed due to trash and difficulty of a	(age amounts of
Additional Notes: unfortunately the New camps / trash sources is previously closued by volu- Arundo removal/stepped-up	unters and VHC staff

Ventura Countywide Stormwater Quality Management Program 2014-2015
Notes (pa. (cel a la Page E15-124 reason for routing (alego(y large active comp 4 2-7 active comp lots of trash 4 2-8 abandoned comp with of fecal matter/pape/truly 29 makeshift both (00m Sometragh 3 2-10 temporary comp small pile 2-11 teasin pile old large pile 4 + cush pile 2-12 old medium pile 4 trash pile 2-13 large area of multiple comps 2-14 41 lige trasped ofen 4 Large comp active comp 2-15 multiple tash piles/comps 4+ Loge trasped area 2-16 large arounts of trash 4 Caege compsile 2-17 9 Cattered trash 2 trash pile 1-1 more scattered trush real & gray 2-2 abandoned camp trash estucy rear beach 1-3 complife Cstrary rear beach 1-4 large camp full of trash on beach myopolum 4+ 1-5 on beach in alundo 4 Medium Sized caup w/ trush 1-6 tash is cettered on beach west estuary 1-7 abandoned compost beach large trash pile 1-8 scattered tresh tosh blowing into esthary 1-9 trash under cyples s trees trash under trestle 1-10 lots of pantions / plastic 3 Trush under lot bridge 2-18 lauge trash pile trash under 101 bridge 2-19 voius heard, not consailed active camp rear lot bridge 2-20 cots of trash, burned items bushed camp/trash 2-21 Durricaded entry 2 individuals on raft. Seen active camp site of tail 1-20 island comps 1-23 multiple billes, I dog, voice heard 1013 of trush, piles of feces trash pill for burricaded camp 46 2-24 2-25 old trash pile ~40-60 pieces



MFAC Event Worksheet
Parcel No.: 2 (State Packs) Event Date: 4/11/14
Specific Cleanup Location: East of Catualy Event Start/ End Time: 9:30 / 12:30
Field Technician name(s): Daswell Dunkell, Derek Pouttney
Current Weather Condition: Partial Sun / Gg
Antecedent Weather Condition: Sunny
Types of Trash Observed (check all that apply)
Plastic/ Styrofoam Paper Products/ Biodegradable Household Items
□ Landscape Materials □ Aluminum/ metal □ Automotive □ Toxic/ Hazardous Materials □ Glass □ Biohazardous
✓ Personal Effects □ Sports Equipment □ Other
Notes: Most of time was sport cocating access
points to current and abandoned compsites
to facilitate future trash removal.
Potential Source(s) of Trash Collected: I legal Caupers users of
ocoperty /
Hazardous/Legacy Trash Requiring Follow-up: There are approximated
6-8 active or semi-active camps left at on
the eastern portion of State Packs property
MFAC Event Actions for Follow-up: Apploximately 10 cleanups
are needed for trus portion of state parks, due
to amount of trasu and difficulty of access
18 CHANGE OF THE COLUMN TO THE
Additional Notes: DNE Ofea ofewiously beafed has had
an illegal confer return. State Packs Rougels
have been notified.
Trash Collected: No. of Trash Bags Filled: Dumpster % Fill: N/A Dumpster Size (cubic yds): 1/A
No. of Trash Bags Filled: Dumpster % Fill. 1976 Dumpster Size (cubic yds): P769
Lead Field Technician Certification (sign/ print):
"Cleaned area is free of all visible trash." -

MFAC Event Worksheet

Parcel No .: 2 (State	Parks)	Event Date:		
Specific Cleanup Location: No	it to levee road	Event Start/ End	Time: 9:00 am	12:00pm
Field Technician name(s):	ashiell Dunkell	, Derek	Poultney	10.0
Current Weather Condition:	artly cloudy		9	100
Antecedent Weather Condition:	Sunny, w	arm		
Types of Trash Observed (cl	neck all that apply):			
Plastic/ Styrofoam	Paper Products	/ Biodegradable	Household Iten	ns
☐ Landscape Materials	Aluminum/ meta		□ Automotive	
Toxic/ Hazardous Materia	ls d Glass		□ Biohazardous	
Personal Effects	□ Sports Equipme	ent	□ Other	
abandoned dump sites.	and potentiall cleaned up tro ush under 101	ecting for a service of a children of a chil	camps as reache	ess and ed and
Potential Source(s) of Trasl	n Collected: Illega	l campes	is and g	raffiti
Hazardous/ Legacy Trash R	equiring Follow-up: N	one seen		
MFAC Event Actions for Fo Acundo to reac		e clearing	dunbing	through
Additional Notes: Ran	ger or police	presentally a	ce may h	Lups.
Trash Collected: No. of Trash Bags Filled:	5 Dumpster % Fill:	N/a Dum	pster Size (cubic yd:	s): N/
Lead Field Technician Certi "Cleaned area is free of all		Mell/1	Jashirell [sunkell

MFAC Event Worksheet

Parcel No.: 2- state Parks Event Date: 9/15/14
Specific Cleanup Location: East of Estuacy Event Start/ End Time: 9:30 /
Field Technician name(s): Dashiell Dunkell, Derek Poutney
Current Weather Condition: Sunny Not
Antecedent Weather Condition: Suwny hot
Types of Trash Observed (check all that apply): Plastic/ Styrofoam Paper Products/ Biodegradable Household Items Landscape Materials Aluminum/ metal Automotive Toxic/ Hazardous Materials Glass Biohazardous Personal Effects Sports Equipment Other Notes: Continued creating access Through Arundo to areas on Fastern edge of estracy. Panned for following cheanup event Picked up trash on lovee road.
Potential Source(s) of Trash Collected: Tilegal campers, litter from freeway and bike path Hazardous/Legacy Trash Requiring Follow-up: None
MFAC Event Actions for Follow-up: <u>Continue Sweeping South of</u> Huy 101 bridge on east side of esthacy.
Additional Notes: Several campers have returned to areas previously cleaned during MFAC events
Frash Collected: No. of Trash Bags Filled: Dumpster % Fill: N/A Dumpster Size (cubic yds): N/A
Lead Field Technician Certification (sign/ print): "Cleaned area is free of all visible trash." -

MFAC Event Worksheet		
Parcel No.: 2 - State Porks	Event Date:	120/14
Specific Cleanup Location: Fast of Estraco	Event Start/ End T	me: 9:00and 12:00pm
Field Technician name(s): Da6kiell Dur		k Poultney
Current Weather Condition: Foggy, wa	r (m.	
Antecedent Weather Condition:	7.04	
Times of Treeh Observed ()	J	
Types of Trash Observed (check all that apply):		<i></i>
	ducts/ Biodegradable	Household Items
☐ Landscape Materials ☐ Aluminum	metal	□ Automotive
Toxic/ Hazardous Materials	.! .	Biohazardous
	•	Other
Notes: <u>Coastal Cleanup</u> C	by in con-	tunition
with Friends of the	ventura Riv	ier brought
out 21 volunteers 3	2 VHC sta	H to the
MFAC event.		
		
Potential Source(s) of Trash Collected: Ille State Parks property.	gal Camp	ers on
Hazardous/ Legacy Trash Requiring Follow-up:	None	
MFAC Event Actions for Follow-up: <u>Several</u> found, next event would be Ranger / Low enforcement Arundo removal needed a	e well served	ups were I to have Park antinued
Additional Notes: Access to car was greatly aided by pr	ups and 4 evious Aruna	to removal.
	Fill: BO% Dumps	ster Size (cubic yds): 20 yd
Lead Field Technician Certification (sign/ print):	Jase A	SUPPLICE

8-20-14 8-20-14







9-5-14 9-9-14





9-17-14 9-17-14





9-17-14 9-20-14





9-20-14 9-30-14









9-30-14 9-30-14





9-30-14 9-30-14

Appendix 3. Clean-Up Photos



Figure 1. MFAC Area 1 – Before (L) and After (R) Clean-Up Photos



Figure 2. MFAC Area 2 – Before (L) and After (R) Clean-Up Photos



Figure 3. MFAC Area 3 – Before (L) and After (R) Clean-Up Photos



Figure 4. MFAC Area 4 – Before (L) and After (R) Clean-Up Photos



Figure 5. City of Ventura July, 2014 Clean-Up Event Typical Camp – Before (L) and After (R)



Figure 5. City of Ventura July, 2014 Clean-Up Event Amount of Trash Removed