cleanwater PROGRAM

MEMBER AGENCIES:

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County of Alameda

Alameda County Flood Control and Water Conservation District

Zone 7 Water Agency

COUNTY OF ALAMEDA

FISCAL YEAR 2015-2016 ANNUAL REPORT OF STORMWATER PROGRAM IMPLEMENTATION

Submitted to:
California Regional Water Quality Control Board, San Francisco Bay Region

Public Works Agency
Alameda County

Daniel Woldesenbet, Ph.D., P.E., Director
399 Elmhurst Street • Hayward, CA 94544-1307 • (510) 670-5480 • www.acgov.org/pwa

September 28, 2016

Bruce Wolfe, Executive Officer
San Francisco Regional Water Quality Control Board
1514 Clay Street
Oakland, CA 94612

SUBJECT: Annual Report for Fiscal Year 2015-2016 for the Alameda County Unincorporated Area.

Dear Mr. Wolfe:

Enclosed herewith is the subject for the Fiscal Year 2015-2016 (months of July 2015 through June 2016). This is being submitted in accordance with the requirements of our NPDES permit.

Chapter 13.08 Section 13.08.040 of the Alameda County Code give the responsibility for the administration of the Unincorporated Area of Alameda County's NPDES permit requirements to the director of public works. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Yours truly,

Daniel Woldesenbet, Ph.D., P.E.
Director of Public Works

DW:SG
Enc.

FY 2015-2016 Annual Report
Permittee Name: _County of Alameda_

ATTACHMENT B

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Attachments:
Section C-4;
Section C-5;
Section C-7;
Section C-10

Section 1 – Permittee Information

Background Information							
Permittee Name:	County of Alameda						
Population:	140,800						
NPDES Permit No.:	CAS612008						
Order Number:	R2-2015-0049						
Reporting Time Period (month/year):	July 2015 through June 2016						
Name of the Responsible Authority:	Daniel Woldesenbet				**Title:**	Director of Public Works	
Mailing Address:	399 Elmhurst Street						
City:	Hayward	**Zip Code:**	94544		**County:**	Alameda	
Telephone Number:	510-670-5455		**Fax Number:**			510-670-5541	
E-mail Address:	danielw@acpwa.org						
Name of the Designated Stormwater Management Program Contact (if different from above):	Sharon Gosselin			**Title:**	Stormwater Program Manager		
Department:							
Mailing Address:	399 Elmhurst Street						
City:	Hayward	**Zip Code:**	94544		**County:**	Alameda	
Telephone Number:	510-670-6547		**Fax Number:510-670-5247**				
E-mail Address:	sharon@acpwa.org						

Section 2 - Provision C.2 Reporting Municipal Operations

Program Highlights and Evaluation Highlight/summarize activities for reporting year:
Summary: Staff continued to participate in the CWP M&O subcommittee. County staff attended the CWP SWPPP refresher training workshop on June 30, 2016.

C.2.a. ►Street and Road Repair and Maintenance

Place a **Y** in the boxes next to activities where applicable BMPs were implemented. If not applicable, type **NA** in the box and provide an explanation in the comments section below. Place an **N** in the boxes next to activities where applicable BMPs were not implemented for one or more of these activities during the reporting fiscal year, then in the comments section below provide an explanation of when BMPs were not implemented and the corrective actions taken.

y	Control of debris and waste materials during road and parking lot installation, repaving or repair maintenance activities from polluting stormwater
y	Control of concrete slurry and wastewater, asphalt, pavement cutting, and other street and road maintenance materials and wastewater from discharging to storm drains from work sites.
y	Sweeping and/or vacuuming and other dry methods to remove debris, concrete, or sediment residues from work sites upon completion of work.

Comments:

C.2.b. ►Sidewalk/Plaza Maintenance and Pavement Washing

Place a **Y** in the boxes next to activities where applicable BMPs were implemented. If not applicable, type **NA** in the box and provide an explanation in the comments section below. Place an **N** in the boxes next to activities where applicable BMPs were not implemented for one or more of these activities during the reporting fiscal year, then in the comments section below provide an explanation of when BMPs were not implemented and the corrective actions taken.

NA	Control of wash water from pavement washing, mobile cleaning, pressure wash operations at parking lots, garages, trash areas, gas station fueling areas, and sidewalk and plaza cleaning activities from polluting stormwater
NA	Implementation of the BASMAA Mobile Surface Cleaner Program BMPs

Comments:

C.2.c. ►Bridge and Structure Maintenance and Graffiti Removal

Place a **Y** in the boxes next to activities where applicable BMPs were implemented. If not applicable, type **NA** in the box and provide an explanation in the comments section below. Place an **N** in the boxes next to activities where applicable BMPs were not implemented for one or more of these activities during the reporting fiscal year, then in the comments section below provide an explanation of when BMPs were not implemented and the corrective actions taken.

y	Control of discharges from bridge and structural maintenance activities directly over water or into storm drains
y	Control of discharges from graffiti removal activities
y	Proper disposal for wastes generated from bridge and structure maintenance and graffiti removal activities
y	Implementation of the BASMAA Mobile Surface Cleaner Program BMPs for graffiti removal
y	Employee training on proper capture and disposal methods for wastes generated from bridge and structural maintenance and graffiti removal activities.
y	Contract specifications requiring proper capture and disposal methods for wastes generated from bridge and structural maintenance and graffiti removal activities.

Comments:

C.2.e. ►Rural Public Works Construction and Maintenance				
Does your municipality own/maintain rural[1] roads:	y	**Yes**		**No**
If your answer is **No** then skip to **C.2.f**.				
Place a **Y** in the boxes next to activities where applicable BMPs were implemented. If not applicable, type **NA** in the box and provide an explanation in the comments section below. Place an **N** in the boxes next to activities where applicable BMPs were not implemented for one or more of these activities during the reporting fiscal year, then in the comments section below provide an explanation of when BMPs were not implemented and the corrective actions taken.				
y	Control of road-related erosion and sediment transport from road design, construction, maintenance, and repairs in rural areas			
y	Identification and prioritization of rural road maintenance based on soil erosion potential, slope steepness, and stream habitat resources			
y	No impact to creek functions including migratory fish passage during construction of roads and culverts			
y	Inspection of rural roads for structural integrity and prevention of impact on water quality			
y	Maintenance of rural roads adjacent to streams and riparian habitat to reduce erosion, replace damaging shotgun culverts and excessive erosion			
y	Re-grading of unpaved rural roads to slope outward where consistent with road engineering safety standards, and installation of water bars as appropriate			
y	Inclusion of measures to reduce erosion, provide fish passage, and maintain natural stream geomorphology when replacing culverts or design of new culverts or bridge crossings			
Comments including listing increased maintenance in priority areas:				

[1]Rural means any watershed or portion thereof that is developed with large lot home-sites, such as one acre or larger, or with primarily agricultural, grazing or open space uses.

C.2.f. ►Corporation Yard BMP Implementation

Place an **X** in the boxes below that apply to your corporations yard(s):

	We do not have a corporation yard
	Our corporation yard is a filed NOI facility and regulated by the California State Industrial Stormwater NPDES General Permit
x	We have a **Stormwater Pollution Prevention Plan (SWPPP)** for the Corporation Yard(s)

Place an **X** in the boxes below next to implemented SWPPP BMPs to indicate that these BMPs were implemented in applicable instances.If not applicable, type **NA** in the box. If one or more of the BMPs were not adequately implemented during the reporting fiscal year then indicate so and explain in the comments section below:

x	Control of pollutant discharges to storm drains such as wash waters from cleaning vehicles and equipment
x	Routine inspection prior to the rainy seasons of corporation yard(s) to ensure non-stormwater discharges have not entered the storm drain system
x	Containment of all vehicle and equipment wash areas through plumbing to sanitary or another collection method
x	Use of dry cleanup methods when cleaning debris and spills from corporation yard(s) or collection of all wash water and disposing of wash water to sanitary or other location where it does not impact surface or groundwater when wet cleanup methods are used
x	Cover and/or berm outdoor storage areas containing waste pollutants

Comments:

If you have a corporation yard(s) that is not an NOI facility, complete the following table for inspection results for your corporation yard(s) or attach a summary including the following information:

Corporation Yard Name	**Inspection Date** (1x/year required)	**Inspection Findings/Results**	**Follow-up Actions**
Turner Court	4/13/2016	No Violations Found	NA

Section 3 - Provision C.3 Reporting New Development and Redevelopment

C.3.a. ►New Development and Redevelopment Performance Standard Implementation Summary Report

(For FY 15-16 Annual Report only) Provide a brief summary of the methods of implementation of Provisions C.3.a.i.(1)-(8).

Summary:

- The County has legal authority to implement C.3 through County Ordinance 13.08 Stormwater Management and Discharge Control.
- The County uses the following development review and permitting procedures. While in site development review for Planning approval, projects are routed through multiple departments for C3 compliance review. Conditions of approval (COA) are placed upon C3 regulated projects during this time. After site development review approvals are given, projects are reviewed again during engineering plans check to ensure that COAs are met and to verify the final stormwater treatment design. All regulated projects are then required to attain a Storm Water Permit prior to Building, Road/Flood Encroachment and Grading Permit issuance. The Storm Water Permit regulates the installation of C3 features and C6 best management practices, if applicable.

  Public projects are screened during conceptual design. Those that are potentially regulated are further reviewed at later stages of design. Regulated projects are reviewed by Storm Water Permit engineering plans checker prior to project advertisement for bids.
- When applicable, water quality effects and mitigation measures are addressed in CEQA by describing the potential impacts, type of C3 treatment to be used, and the benefits from that treatment. The CEQA document is routed with project plans as part of the development review process. Additional comments and clarifications are made at that time.
- The County does C.3 training in multiple ways. Larger broad topic trainings are covered biannually through the Countywide program. Smaller scale trainings are given at department meetings and one-on-one settings.
- The County educates staff, developers, contractors, construction site operators and owner/builders through development handouts, the District website and educational booths at street and County fairs.
- The County encourages site design measures on unregulated projects by including encouragement language on C3 handouts and verbally during development review and plans check.
- The County encourages source control measures on unregulated projects by including encouragement language on C3 handouts, including some of the measures into the Building Ordinance and verbally during development review and plans check.
- The County General Plan was revised in 2012 and included policies for stormwater management.

C.3.b.iv.(2) ►Regulated Projects Reporting

Fill in attached table **C.3.b.iv.(2)** or attach your own table including the same information.

C.3.c.ii►Design Specifications for Pervious Pavement Systems

(For FY 2015-16 Annual Report only). Submit design specifications for pervious pavement systems that have been developed and adopted on a regional or countywide basis. If design specifications have been adopted and are contained in a Countywide stormwater handbook, include a reference to the handbook.

Summary:

The County is following the design specifications included in the ACCWP C.3 Technical Guidance Manual.

C.3.e.iv. ►Alternative or In-Lieu Compliance with Provision C.3.c.

Is your agency choosing to require 100% LID treatment onsite for all Regulated Projects and not allow alternative compliance under Provision C.3.e.?		**Yes**	X	**No**

Comments (optional):

Onsite treatment is the preferred method. However, the County would allow Alternative or In-Lieu Compliance if it were proposed for a project.

C.3.e.v ► Special Projects Reporting

1. In FY 2015-16, has your agency received, but not yet granted final discretionary approval of, a development permit application for a project that has been identified as a potential Special Project based on criteria listed in MRP Provision C.3.e.ii(2) for any of the three categories of Special Projects (Categories A, B or C)?		**Yes**	X	**No**
2. In FY 2015-16, has your agency granted final discretionary approval to a Special Project? If yes, include the project in both the **C.3.b.iv.(2)** Table, and the **C.3.e.v.** Table.		**Yes**	X	**No**

C.3.h.v.(2) ► Reporting Newly Installed Stormwater Treatment Systems and HM Controls (Optional)

On an annual basis, before the wet season, provide a list of newly installed (installed within the reporting year) stormwater treatment systems and HM controls to the local mosquito and vector control agency and the Water Board. The list shall include the facility locations and a description of the stormwater treatment measures and HM controls installed.

See attached Table C.3.h.v.(2) for list of newly installed Stormwater Treatment Systems/HM Controls.

C.3.h.v.(3)(a) –(c) and (f) ► Installed Stormwater Treatment Systems Operation and Maintenance Verification Inspection Program Reporting

Option 1 – Reporting Site Inspections	**Number/Percentage**
Total number of Regulated Projects (including offsite projects, and Regional Projects) in your agency's database or tabular format at the end of the previous fiscal year (FY14-15)	26
Total number of Regulated Projects (including offsite projects, and Regional Projects) in your agency's database or tabular format at the end of the reporting period (FY 15-16)	29
Total number of Regulated Projects (including offsite projects, and Regional Projects) for which O&M verification inspections were conducted during the reporting period (FY 15-16)	8
Percentage of the total number of Regulated Projects (including offsite projects, and Regional Projects) inspected during the reporting period (FY 15-16)	30%[2]
Option 2 – Reporting Stormwater Treatment System Inspections	
Total number of stormwater treatment and HM systems in your agency's database or tabular format at the end of the previous fiscal year (FY 14-15)	
Total number of stormwater treatment systems in your agency's database or tabular format at the end of the reporting period (FY 15-16)	
Total number of stormwater treatment and HM systems inspected in the reporting period (FY 15-16)	
Percentage of stormwater treatment and HM systems inspected in the reporting period (FY 15-16)	%[3]

[2] Based on the number of Regulated Projects in the database or tabular format at the end of the previous fiscal year (FY 14-15), per MRP Provision C.3.h.ii.(6)(b).

[3] Based on the number of stormwater treatment and HM systems database or tabular format at the end of the previous fiscal year (FY 14-15), per MRP Provision C.3.h.ii.(6)(b).

C.3.h.v.(3)(d)-(e) ► Installed Stormwater Treatment Systems Operation and Maintenance Verification Inspection Program Reporting

Provide a discussion of the inspection findings for the year and any common problems encountered with various types of treatment systems and/or HM controls. This discussion should include a general comparison to the inspection findings from the previous year.

Summary:

A total of 13 sites were inspected during this reporting period. Five sites were inspected during construction to confirm proper installation and the remaining eight sites were inspected for O&M purposes.

The sites inspected for O&M purposes accounted for 30 percent of the treatment systems in our database at the start of the reporting period. Two of the eight or 25 percent of the sites inspected included a vault-based systems. The remaining six or 75 percent of the sites were non-vault-based systems. Seven of the O&M sites were issued verbal warnings. This was much higher than previous reporting years and likely attributed to the prolonged drought. The most common issues were dead/distressed plants and sedimentation. One site completed their O&M activities within one month while the remaining six sites did not complete the required O&M within this reporting period since the optimal replanting window is in the fall.

At the start of this reporting period there were a total of 26 sites with installed treatment systems in our O&M database. Our O&M inspections have met the requirements of the MRP.

Provide a discussion of the effectiveness of the O&M Program and any proposed changes to improve the O&M Program (e.g., changes in prioritization plan or frequency of O&M inspections, other changes to improve effectiveness program).

Summary:

Inspections during the 2015-2016 reporting period revealed two deficiencies in the C.3 program that weren't previously encountered.

The first deficiency is our current inspection frequency of every three to four years. We have determined that this frequency is too infrequent especially during drought, for smaller sites and for less funded sites. We are changing our policy to inspect deficient sites annually until significant maintenance improvement is observed which would warrant scaling back the inspections to bi- or tri-annually.

The second program deficiency identified was with regards to improving the communication between inspector, site manager, and the landscaper. In six (6) out of the seven (7) sites with deficiencies, outstanding corrections remained after the first attempt to repair and a second report or further communication was required to reiterate the corrections that were not fully addressed. This back and forth exchange between the site managers and inspectors is inefficient and needs to be improved. We will enact a policy whereby follow-up inspections are performed near the end of O&M to confirm or address any outstanding measures that were not addressed. This will ensure timely completion of corrective measures and avoid follow up request and written warning directing corrective measures that were not addressed.

C.3.i. ►Required Site Design Measures for Small Projects and Detached Single Family Home Projects

On an annual basis, discuss the implementation of the requirements of Provision C.3.i, including ordinance revisions, permit conditions, development of standard specifications and/or guidance materials, and staff training.

Summary:

BASMAA prepared standard specifications in four fact sheets regarding the site design measures listed in Provision C.3.i, as a resource for Permittees. We have modified local policies/procedures and forms to require all applicable projects approved after December 1, 2012 to implement at least one of the site design measures listed in Provision C.3.i. We are using the following products for C.3.i implementation:

- BASMAA's site design fact sheets
- County forms: Stormwater Requirements Pre-Screening Checklist and Single Family Residential Lot Clean Water Site Measures

C.3.j.i.v.(d) ► Green Infrastructure Outreach

On an annual basis, provide a summary of your agency's outreach and education efforts pertaining to Green Infrastructure planning and implementation.

Summary:

The County has been working with BAASMA and the countywide program to develop outreach documentation and presentations to be used for educating staff and elected officials. We have distributed these material to County staff and conducted one-on-one meetings with management about Green Infrastructure (GI) to raise awareness. We are planning a presentation tour and will be forming an interagency workgroup to develop the GI plan and further educate key staff. Please refer to the Countywide Program's FY 15-16 Annual Report for a summary of outreach efforts implemented at the Countywide level.

C.3.j.ii.(2) ► Early Implementation of Green Infrastructure Projects

On an annual basis, submit a list of green infrastructure projects, public and private, that are already planned for implementation during the permit term and infrastructure projects planned for implementation during the permit term that have potential for green infrastructure measures. Include the following information:

- A summary of planning or implementation status for each public and private green infrastructure project that is not also a Regulated Project as defined in Provision C.3.b.ii. (see C.3.j.ii.(2) Table B - Planned Green Infrastructure Projects).
- A summary of how each public infrastructure project with green infrastructure potential will include green infrastructure measures to the maximum extent practicable during the permit term. For any public infrastructure project where implementation of green infrastructure

measures is not practicable, submit a brief description of the project and the reasons green infrastructure measures were impracticable to implement (see C.3.j.ii.(2) Table A - Public Projects Reviewed for Green Infrastructure).
Background Information: The County is implementing this provision by evaluating projects using the BASMAA screening criteria. The process includes a multiple screening criteria including the type of work, design status, finding mechanisms, utilities conflicts, etc. Thus far, we have evaluated over 600 CIP to identify projects with potential for green infrastructure. Many projects were too far along in design to be changed or were too early to assess (these will be re-evaluated annually to determine potential for green infrastructure).
Summary of Planning or Implementation Status of Identified Projects: See attached Tables C.3.j.ii.(2)-A and C.3.j.ii.(2)-B for the required information.

C.3.j.iii.(2) ► Participate in Processes to Promote Green Infrastructure
On an annual basis, report on the goals and outcomes during the reporting year of work undertaken to participate in processes to promote green infrastructure.
Please refer to the Countywide Program's FY 15-16 Annual Report for a summary of efforts conducted to help regional, State, and federal agencies plan, design and fund incorporation of green infrastructure measures into local infrastructure projects, including transportation projects.

C.3.j.iv.(2) ► Tracking and Reporting Progress
On an annual basis, report progress on development and implementation of methods to track and report implementation of green infrastructure measures and provide reasonable assurance that wasteload allocations for TMDLs are being met.
Please refer to the Countywide Program's FY 15-16 Annual Report for a summary of methods being developed to track and report implementation of green infrastructure measures.

C.3.b.iv.(2) ►Regulated Projects Reporting Table (part 1) – Projects Approved During the Fiscal Year Reporting Period

Project Name Project No.	Project Location[10], Street Address	Name of Developer	Project Phase No.[11]	Project Type & Description[12]	Project Watershed[13]	Total Site Area (Acres)	Total Area of Land Disturbed (Acres)	Total New Impervious Surface Area (ft^2)[14]	Total Replaced Impervious Surface Area (ft^2)[15]	Total Pre-Project Impervious Surface Area[16](ft^2)	Total Post-Project Impervious Surface Area[17](ft^2)
Private Projects											
Cash & Carry	171/177 Lewelling Blvd. San Lorenzo; Cross street Via Granada	SLJ San Lorenzo, LLC	N/A	Redevelopment of a commercial building	Estudillo Canal	3.17	0.7	1,000	25,000	132,118	130,598
San Lorenzo Community Park	1970 Via Buena Vista, San Lorenzo; Cross street Via Carmen	Hayward Area Recreation and Park District	1 of 2	Redevelopment of a park	Bockman Canal	32 (both phases)	30 (both phases)	530,000 (both phases)	1,000	250,000	530,000
Public Projects											
Cherryland Fire Station	19745 Meekland Ave., Hayward; Cross street Blossom Ave.	Alameda County General Services Agency	N/A	New fire station	San Lorenzo Creek	0.91	0.91	300	32,900	32,900	33,200
Comments:											

[10]Include cross streets
[11]If a project is being constructed in phases, indicate the phase number and use a separate row entry for each phase. If not, enter "NA".
[12]Project Type is the type of development (i.e., new and/or redevelopment). Example descriptions of development are: 5-story office building, residential with 160 single-family homes with five 4-story buildings to contain 200 condominiums, 100 unit 2-story shopping mall, mixed use retail and residential development (apartments), industrial warehouse.
[13]State the watershed(s) in which the Regulated Project is located. Downstream watershed(s) may be included, but this is optional.
[14]All impervious surfaces added to any area of the site that was previously existing pervious surface.
[15]All impervious surfaces added to any area of the site that was previously existing impervious surface.
[16]For redevelopment projects, state the pre-project impervious surface area.
[17]For redevelopment projects, state the post-project impervious surface area.

C.3.b.iv.(2) ►Regulated Projects Reporting Table (part 2) – Projects Approved During the Fiscal Year Reporting Period (private projects)

Project Name Project No.	Application Deemed Complete Date[18]	Application Final Approval Date[19]	Source Control Measures[20]	Site Design Measures[21]	Treatment Systems Approved[22]	Type of Operation & Maintenance Responsibility Mechanism[23]	Hydraulic Sizing Criteria[24]	Alternative Compliance Measures[25/26]	Alternative Certification[27]	HM Controls[28/29]
Private Projects										
Cash & Carry	11/18/15	5/18/16	Discharge of run-off from depressed loading dock into flow-through planter vis sump pump; Sanitary sewer drain connections to	Minimize impervious surface with additional landscaping in parking lot	Flow-through planter	O&M agreement with private landowner	2.c	N/A	N/A	Not required; post-project impervious surface < pre-project

[18]For private projects, state project application deemed complete date. If the project did not go through discretionary review, report the building permit issuance date.
[19]For private projects, state project application final discretionary approval date. If the project did not go through discretionary review, report the building permit issuance date.
[20]List source control measures approved for the project. Examples include: properly designed trash storage areas; storm drain stenciling or signage; efficient landscape irrigation systems; etc.
[21]List site design measures approved for the project. Examples include: minimize impervious surfaces; conserve natural areas, including existing trees or other vegetation, and soils; construct sidewalks, walkways, and/or patios with permeable surfaces, etc.
[22]List all approved stormwater treatment system(s) to be installed onsite or at a joint stormwater treatment facility (e.g., flow through planter, bioretention facility, infiltration basin, etc.).
[23]List the legal mechanism(s) (e.g., O&M agreement with private landowner; O&M agreement with homeowners' association; O&M by public entity, etc…) that have been or will be used to assign responsibility for the maintenance of the post-construction stormwater treatment systems.
[24]See Provision C.3.d.i. "Numeric Sizing Criteria for Stormwater Treatment Systems" for list of hydraulic sizing design criteria. Enter the corresponding provision number of the appropriate criterion (i.e., 1.a., 1.b., 2.a., 2.b., 2.c., or 3).
[25]For Alternative Compliance at an offsite location in accordance with Provision C.3.e.i.(1), on a separate page, give a discussion of the alternative compliance site including the information specified in Provision C.3.b.v.(1)(m)(i) for the offsite project.
[26]For Alternative Compliance by paying in-lieu fees in accordance with Provision C.3.e.i.(2), on a separate page, provide the information specified in Provision C.3.b.v.(1)(m)(ii) for the Regional Project.
[27]Note whether a third party was used to certify the project design complies with Provision C.3.d.
[28]If HM control is not required, state why not.
[29]If HM control is required, state control method used (e.g., method to design and size device(s) or method(s) used to meet the HM Standard, and description of device(s) or method(s) used, such as detention basin(s), biodetention unit(s), regional detention basin, or in-stream control).

C.3.b.iv.(2) ►Regulated Projects Reporting Table (part 2) – Projects Approved During the Fiscal Year Reporting Period (private projects)

Project Name Project No.	Application Deemed Complete Date[18]	Application Final Approval Date[19]	Source Control Measures[20]	Site Design Measures[21]	Treatment Systems Approved[22]	Type of Operation & Maintenance Responsibility Mechanism[23]	Hydraulic Sizing Criteria[24]	Alternative Compliance Measures[25/26]	Alternative Certification[27]	HM Controls[28/29]
			take fire sprinkler test water; Storm drain stenciling							
San Lorenzo Community Park	2/1/14	10/2/15	Artifical turf landscaping with subdrain collectors on playing fields; Covered trash enclosures with sanitary sewer connection for dumpster drips and designed to prevent run-on;	Pre-treatment of runoff from parking areas; Permeable pavers	Collection and re-use	O&M by public entity	1.a	N/A	N/A	Storage lake. Sized by BAHM analysis.

C.3.b.iv.(2) ►Regulated Projects Reporting Table (part 2) – Projects Approved During the Fiscal Year Reporting Period (private projects)

Project Name Project No.	Application Deemed Complete Date[18]	Application Final Approval Date[19]	Source Control Measures[20]	Site Design Measures[21]	Treatment Systems Approved[22]	Type of Operation & Maintenance Responsibility Mechanism[23]	Hydraulic Sizing Criteria[24]	Alternative Compliance Measures[25/26]	Alternative Certification[27]	HM Controls[28/29]
			Storm drain stenciling; Landscaping that minimizes irrigation and runoff, promotes surface infiltration, minimizes the use of pesticides and fertilizers, and removes pollutants from runoff.							

C.3.b.iv.(2) ►Regulated Projects Reporting Table (part 2) – Projects Approved During the Fiscal Year Reporting Period (public projects)

Project Name Project No.	Approval Date[30]	Date Construction Scheduled to Begin	Source Control Measures[31]	Site Design Measures[32]	Treatment Systems Approved[33]	Operation & Maintenance Responsibility Mechanism[34]	Hydraulic Sizing Criteria[35]	Alternative Compliance Measures[36/37]	Alternative Certification[38]	HM Controls[39/40]
Public Projects										
Cherryland Fire Station	9/22/15	11/13/15	Contained fire apparatus washing apron discharging, after oil/water separator, into sanitary sewer; Storm drain stenciling; landscaping that minimizes irrigation and runoff; Covered trash enclosures with sanitary sewer connections	Project design and construction directs driveways, sidewalk and parking lot stormwater runoff into bioretention areas. Building roof downspouts will also outfall into adjacent bioretention areas.Where feasible,	Flow thru planters, biorentention areas	O&M by public entity	2.c	N/A	N/A	Not required. Project creates/replaces less than acre of impervious area

[30]For public projects, enter the plans and specifications approval date.
[31]List source control measures approved for the project. Examples include: properly designed trash storage areas; storm drain stenciling or signage; efficient landscape irrigation systems; etc.
[32]List site design measures approved for the project. Examples include: minimize impervious surfaces; conserve natural areas, including existing trees or other vegetation, and soils; construct sidewalks, walkways, and/or patios with permeable surfaces, etc.
[33]List all approved stormwater treatment system(s) to be installed onsite or at a joint stormwater treatment facility (e.g., flow through planter, bioretention facility, infiltration basin, etc.).
[34]List the legal mechanism(s) (e.g., maintenance plan for O&M by public entity, etc…) that have been or will be used to assign responsibility for the maintenance of the post-construction stormwater treatment systems.
[35]See Provision C.3.d.i. "Numeric Sizing Criteria for Stormwater Treatment Systems" for list of hydraulic sizing design criteria. Enter the corresponding provision number of the appropriate criterion (i.e., 1.a., 1.b., 2.a., 2.b., 2.c., or 3).
[36]For Alternative Compliance at an offsite location in accordance with Provision C.3.e.i.(1), on a separate page, give a discussion of the alternative compliance site including the information specified in Provision C.3.b.v.(1)(m)(i) for the offsite project.
[37]For Alternative Compliance by paying in-lieu fees in accordance with Provision C.3.e.i.(2), on a separate page, provide the information specified in Provision C.3.b.v.(1)(m)(ii) for the Regional Project.
[38]Note whether a third party was used to certify the project design complies with Provision C.3.d.
[39]If HM control is not required, state why not.
[40]If HM control is required, state control method used (e.g., method to design and size device(s) or method(s) used to meet the HM Standard, and description of device(s) or method(s) used, such as detention basin(s), biodetention unit(s), regional detention basin, or in-stream control).

C.3.b.iv.(2) ►Regulated Projects Reporting Table (part 2) – Projects Approved During the Fiscal Year Reporting Period (public projects)

Project Name Project No.	Approval Date[30]	Date Construction Scheduled to Begin	Source Control Measures[31]	Site Design Measures[32]	Treatment Systems Approved[33]	Operation & Maintenance Responsibility Mechanism[34]	Hydraulic Sizing Criteria[35]	Alternative Compliance Measures[36/37]	Alternative Certification[38]	HM Controls[39/40]
				landscape areas will be designed as self-treating areas.						
Comments:										

C.3.h.v.(2). ►Table of Newly Installed[41] Stormwater Treatment Systems and Hydromodification Management (HM) Controls (Optional)

Fill in table below or attach your own table including the same information.

Name of Facility	Address of Facility	Party Responsible[42] For Maintenance	Type of Treatment/HM Control(s)
Ashland Family Housing	16385 East 14th Street, San Leandro	John Yue (510) 208-9716; GSA Building Maintenance Dept. 2054 Fairmont Dr., San Leandro, Ca 94578; email: John.yue@acgov.org	34 Flow Through Planter Units and Permeable pavers
Highland Hospital Acute Tower Replacement (ATR) Project	1411 East 31st Street, Oakland	John Yue (510) 208-9716; GSA Building Maintenance Dept. 2054 Fairmont Dr., San Leandro, Ca 94578; email: John.yue@acgov.org* (*Vanir Construction temporarily responsible until completion of all phases of work at this site)	UpFLow Media Filter Vault, 3 Filterra Tree Systems

[41] "Newly Installed" includes those facilities for which the final installation inspection was performed during this reporting year.
[42] State the responsible operator for installed stormwater treatment systems and HM controls.

C.3.e.v.Special Projects Reporting Table

Reporting Period – July 1 2015 - June 30, 2016

Project Name & No.	Permittee	Address	Application Submittal Date[43]	Status[44]	Description[45]	Site Total Acreage	Gross Density DU/Acre	Density FAR	Special Project Category[46]	LID Treatment Reduction Credit Available[47]	List of LID Stormwater Treatment Systems[48]	List of Non-LID Stormwater Treatment Systems[49]
There were no Special Projects within the Unincorporated County's jurisdiction	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

[43]Date that a planning application for the Special Project was submitted.
[44] Indicate whether final discretionary approval is still pending or has been granted, and provide the date or version of the project plans upon which reporting is based.
[45]Type of project (commercial, mixed-use, residential), number of floors, number of units, type of parking, and other relevant information.
[46] For each applicable Special Project Category, list the specific criteria applied to determine applicability. For each non-applicable Special Project Category, indicate n/a.
[47]For each applicable Special Project Category, state the maximum total LID Treatment Reduction Credit available. For Category C Special Projects also list the individual Location, Density, and Minimized Surface Parking Credits available.
[48]**:** List all LID stormwater treatment systems proposed. For each type, indicate the percentage of the total amount of runoff identified in Provision C.3.d. for the Special Project's drainage area.
[49]List all non-LID stormwater treatment systems proposed. For each type of non-LID treatment system, indicate: (1) the percentage of the total amount of runoff identified in Provision C.3.d. for the Special Project's drainage area, and (2) whether the treatment system either meets minimum design criteria published by a government agency or received certification issued by a government agency, and reference the applicable criteria or certification.

Special Projects Narrative: No special project for 2015-2016

C.3.j.ii.(2) ► Table A - Public Projects Reviewed for Green Infrastructure

Project Name and Location[44]	Project Description	Status[45]	GI Included?[46]	Description of GI Measures Considered and/or Proposed or Why GI is Impracticable to Implement[47]
Western Boulevard (East) Pavement Rehab and Improvements from Hampton Ave to Sunset Blvd	Pavement rehab and potential installation of curb and gutter	Design	TBD	Pavement overlays are typically screened out as not feasible because they are considered maintenance activities. However, we are further evaluating this project because it is likely that curb and gutter will be also installed. We will evaluate further if pervious concrete can be used.
West Blossom Way UPRR Crossing Improvement	Install sidewalk across railroad tracks in UPRR	Design	No	Not feasible to include GI because there is no storm drain system within the project limits, underlying clay soils and UPRR will not allow pervious paving in their right-of-way.
Meekland Ave Sidewalk and Transit Access Improvement Project (phase 1)	Pavement rehab and installation of sidewalk, curb and gutter	Design	TBD	Evaluating the use pervious concrete in sidewalk and the use of tree well filters.

C.3.j.ii.(2) ► Table B - Planned Green Infrastructure Projects

[44] List each public project that is going through your agency's process for identifying projects with green infrastructure potential.
[45] Indicate status of project, such as: beginning design, under design (or X% design), projected completion date, completed final design date, etc.
[46] Enter "Yes" if project will include GI measures, "No" if GI measures are impracticable to implement, or "TBD" if this has not yet been determined.
[47] Provide a summary of how each public infrastructure project with green infrastructure potential will include green infrastructure measures to the maximum extent practicable during the permit term. If review of the project indicates that implementation of green infrastructure measures is not practicable, provide the reasons why green infrastructure measures are impracticable to implement.

Project Name and Location[48]	Project Description	Planning or Implementation Status	Green Infrastructure Measures Included
Intersection Improvements at Greenville Road and Villareal Drive, Castro Valley	Installation of traffic calming bulb out at intersection	In design with anticipated construction 2017	The project will drain portions of roadway and sidewalk into a road bulb out bioretention cell.
Hesperian Boulevard Corridor Pedestrian and Streetscape Improvement Project	Pavement rehab and retrofit of sidewalk	In design with anticipated construction 2017	The project will drain portions of roadway and sidewalk into multiple road bulb out bioretention cells, is considering using pervious surfaces and bioretention cells within road medians and placing pervious asphalt parking stalls within a parking lot.
Santa Rita Jail Access Ramp Disability Upgrade	Retrofit an existing pedestrian ramp to be ADA compliant	In design with anticipated construction 2017	Impervious surface will drain to adjacent vegetation.
Turner Court Proposition 84 Storm Water Grant Program LID Project	Retrofit a parking lot to demonstrate various types of LID treatment facilities.	In design with anticipated construction 2017	The project will include seven types of pervious paving, four types of tree well filters, bioretention, in-ground planters, capture and reuse, trash capture and use of structural cells.

[48] List each planned (and expected to be funded) public and private green infrastructure project that is not also a Regulated Project as defined in Provision C.3.b.ii. Note that funding for green infrastructure components may be anticipated but is not guaranteed to be available or sufficient.

Section 4 – Provision C.4 Industrial and Commercial Site Controls

Program Highlights and Evaluation
Highlight/summarize activities for reporting year:

Summary:

Alameda County inspected 253 industrial and commercial facilities in fiscal year 2015 to 2016. During this year, 58 new facilities were inspected and 67 facilities were closed. Alameda County effectively used its enforcement program issuing 3 Notices of Violation (NOV) and 1 Administrative Action with Penalty and/or Cost Recovery (also called Administrative Enforcement Invoice). Alameda County also addressed 3 complaints, which included coordinating with various agencies. Referrals to other permittees and regulatory agencies were also completed. Alameda County continued its program mission of protecting local creeks, wetlands and the San Francisco Bay through education and helping businesses stay in compliance.

Alameda County conducted trainings for C4 inspectors on August 6, 2015 and April 4, 2016.

Alameda County regularly attended the countywide Industrial and Illicit Discharge Control (IIDC) Subcommittee meetings to ensure current and consistent approach in complying with the Municipal Regional Permit requirements. Staff also participated in the IIDC Annual Inspector Training held on June 6, 2016.

Alameda County presented "Common Compliance Issues at Commercial and Industrial Sites" at the California Stormwater Quality Association (CASQA) 11th Annual Conference on October 19, 2015.

C.4.b.iii ► Potential Facilities List

List below or attach your list of industrial and commercial facilities in your Inspection Plan to inspect that could reasonably be considered to cause or contribute to pollution of stormwater runoff.

Please see attached.

C.4.d.iii.(1)(a) ►Facility Inspections

Fill out the following table or attach a summary of the following information. Indicate your violation reporting methodology below.

	X	Permittee reports multiple discrete violations on a site as one violation.
		Permittee reports the total number of discrete violations on each site.

	Number	Percent
Number of businesses inspected	253	
Total number of inspections conducted	255	
Number of violations (excluding verbal warnings)	13	
Sites inspected in violation	2	1

Violations resolved within 10 working days or otherwise deemed resolved in a longer but still timely manner	12	5

Comments:

Sites inspected in violation include follow-up inspections at facilities under enforcement. Percentage calculated by dividing the number of follow-up inspections by the total number of inspections conducted.

Violations observed during inspection were resolved within 10 working days or in a longer but still timely manner except for in Cattoor Property located at 7555 Sheridan Road, Sunol. The facility owner requested for extended time to complete corrective actions including proper manure management. This facility is currently in enforcement.

Inspection was not completed at Lock Away Storage located at 8555 Dublin Canyon Road, Castro Valley because access to the facility was denied.

C.4.d.iii.(1)(b) ►Frequency and Types/Categories of Violations Observed

Fill out the following table or attach a summary of the following information.

Type/Category of Violations Observed	Number of Violations
Actual discharge (e.g. active non-stormwater discharge or clear evidence of a recent discharge)	2
Potential discharge and other	38

Comments:

Permittee reports multiple discrete violations on a site as one violation. Potential NSW discharge is reported when a 2 (Best Management Practices [BMPs] are not effective) or 3 (no BMPs are implemented) is noted in one or more area of activity during inspection of a facility.

C.4.d.iii.(1)(b) ►Frequency and Type of Enforcement Conducted

Fill out the following table or attach a summary of the following information.

	Enforcement Action (as listed in ERP)[49]	**Number of Enforcement Actions Taken**	**% of Enforcement Actions Taken[50]**
Level 1	Warning Notice	13	77
Level 2	Administrative Action (Notice of Violation)	3	18
Level 3	Administrative Action with Penalty and/or Cost Recovery	1	5
Level 4	Legal Action	0	0
Total		17	100

[49]Agencies to list specific enforcement actions as defined in their ERPs.
[50]Percentage calculated as number of each type of enforcement action divided by the total number of enforcement actions.

C.4.d.iii.(1)(c) ►Types of Violations Noted by Business Category

Fill out the following table or attach a summary of the following information.

Business Category[51]	Number of Actual Discharge Violations	Number of Potential/Other Discharge Violations
Animal Boarding	1	4
Auto-related	0	11
Building Trade/Corporation Yard	0	4
Dry Cleaner	0	1
Industrial General Permit	0	1
Nurseries	0	1
Miscellaneous	0	6
Mobile	1	1
Municipal/School	0	3
Restaurant/Retail Food	0	6

C.4.d.iii.(1)(d) ►Non-Filers

List below or attach a list of the facilities required to have coverage under the Industrial General Permit but have not filed for coverage:

None

C.4.e.iii ►Staff Training Summary

Training Name	Training Dates	Topics Covered	No. of Industrial/ Commercial Site Inspectors in Attendance	Percent of Industrial/ Commercial Site Inspectors in Attendance	No. of IDDE Inspectors in Attendance	Percent of IDDE Inspectors in Attendance
Guide to Performing	8/6/2015	Laws, Municipal Regional Stormwater Permit, Inspection Procedures, Types of Businesses Inspected	6	67	NA	NA

[51]List your Program's standard business categories.

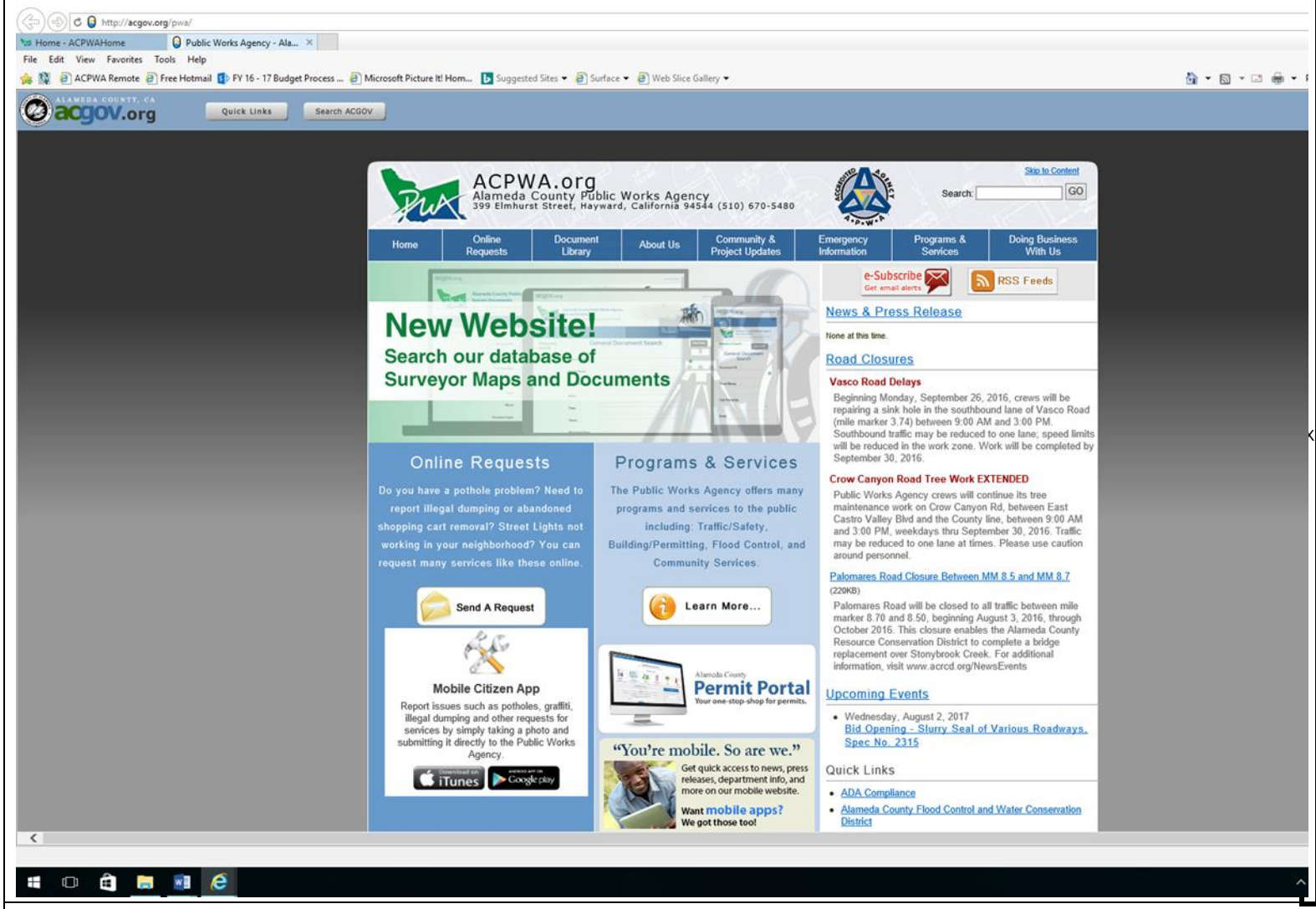
Facility Inspections						
Guide to Performing Facility Inspections	4/4/2016	Laws, Municipal Regional Stormwater Permit, Inspection Procedures, Types of Businesses Inspected	11	55	NA	NA
Stormwater Business Inspectors Workshop: MRP 2.0 What Does it Mean for Inspectors?	6/9/2016	MRP 2.0 What has changed in C.4, C.5, C.15, Assessing BMPs, Illicit Discharge Case Study – Cart Washing, Utility Vault Discharges, Drinking Water System Discharges Panel Discussion – communications about discharges, Desk Top Exercises on Enforcement Scenarios	4	67	NA	NA
Comments: None						

Section 5 – Provision C.5 Illicit Discharge Detection and Elimination

Program Highlights and Evaluation **Highlight/summarize activities for reporting year:**
Provide background information, highlights, trends, etc.
Summary: County staff participates in the CWP's I&IDC subcommittee. Refer to the C.5 Illicit Discharge Detection and Elimination section of countywide program's FY 15-16 Annual Report for description of activities at the countywide level.

C.5.c.iii ►Complaint and Spill Response Phone Number		
List below or attach your complaint and spill response phone number		
Public Works Agency	Maintenance and Operations Main Number	510-670-5500
Provide your complaint and spill response web address, if used		
www.acpwa.org in "on-line requests – send a report" section. We also have Citizen App available for download. Both are user friendly methods for the public to report spills and dumping.		

Is a screen shot of your website showing the central contact point attached?	Yes	No



If No, explain:

Provide a discussion of how the central contact point (complaint and spill response phone number and, if used, web address) is being publicized to your staff and the public.
The staff who field call from the public are informed as part of their training to forward spill response calls directly M&O dispatch, our response phone. The Citizen App was rolled out to the staff at AC Public Works via email introducing the app and information describing where and how to download and use the app. The spill response phone number for the District and the ACPWA website address are included on our outreach materials we make available at events to the public.

C.5.d.iii.(1), (2), (3) ►Spill and Discharge Complaint Tracking

Spill and Discharge Complaint Tracking (fill out the following table or include an attachment of the following information)

	Number	Percentage
Discharges reported (C.5.d.iii.(1))	14	
Discharges reaching storm drains and/or receiving waters (C.5.d.iii.(2))	3	21%
Discharges resolved in a timely manner (C.5.d.iii.(3))	14	100%

Comments:

Complaints/Spill/Discharge incidents and follow-up are tracked by Maintenance and Operations Department using Work Order software and "Mainstar"database. Service requests are given to a C.5 field inspector in our M &O department for first response, inspection, and follow-up. Activities are tracked using ACCESS database. Summary report is generated by sampling Mainstar database using activity code unique to spill and illicit discharges.

C.5.f.iii ►MS4 Map Availability

Discuss how you make your MS4 map available to the public and how you publicize the availability of the MS4 map.

The County Unincorporated Area maps are on the Alameda Flood Control and Water Conservation District website. The Alameda County Flood Control District has created a full-featured, interactive map of every watershed in western Alameda County on the "Explore Watersheds" section of the website. Using the map, you can select a zone to find information on its creeks, culverts and storm drains, and explore points of interest. Alternatively, you can view this map on Google Maps or download for use with Google Earth. Links are available on the District's webpage.

The District conducted extensive outreach for the Explore Watersheds section of the website during FY 15-16. Multiple e-blasts were sent to local school teachers, city staff, environmental consultants, and watershed/friends groups to explain and advertise the watershed education program. A flyer advertising the new watershed education section of the website and program was distributed to middle and high school teachers throughout Alameda County. The District presented the Explore Watersheds program at the State of the Estuary Conference poster session in September, 2015. On-line Google ads were also run during FY 15-16 to advertise the website and program, and push online traffic to the site.

Section 6 – Provision C.6 Construction Site Controls

C.6.e.iii.(1) ►Hillside Development Criteria

What criteria is your agency using to determine hillside development areas?		Local criteria such as maps of hillside development areas or other written criteria	X	The permit definition of projects on sites with ≥ 15% slope
Attach a copy of hillside development area maps or provide your written criteria below, if applicable.				
Description:				

C.6.e.iii.2.a, b, c ►Site/Inspection Totals

Number of High Priority Sites (sites disturbing < 1 acre of soil requiring storm water runoff quality inspection) (C.6.e.iii.1.a)	**Number of sites disturbing ≥ 1 acre of soil** (C.6.e.iii.1.b)	**Total number of storm water runoff quality inspections conducted (include only High Priority Site and sites disturbing 1 acre or more)** (C.6.e.iii.1.c)
2	15	119
Comments:		

C.6.e.iii.2.d ►Construction Activities Storm Water Violations

BMP Category	Number of Violations[52] excluding Verbal Warnings	% of Total Violations[53]
Erosion Control	5	17%
Run-on and Run-off Control	4	13%
Sediment Control	11	37%
Active Treatment Systems	0	0%
Good Site Management	6	20%
Non Stormwater Management	4	13%
Total[54]	**30**	**100%**

[52]Count one violation in a category for each site and inspection regardless of how many violations/problems occurred in the BMP category. For example, if during one inspection at a site, there are 2 erosion control violations, only 1 violation would be counted for this table.

[53]Percentage calculated as number of violations in each category divided by total number of violations in all six categories.

[54]The total number of violations may count more than one violation per inspection, since some inspections may result in violations in more than one category. For example, during one inspection of a site, there may have been both an erosion control violation and a sediment control violation. For this reason, the total number of violations in this table may not match the total number of enforcement actions reported in Table C6.e.iii.1.e.

C.6.e.iii.2.e ►Construction Related Storm Water Enforcement Actions

	Enforcement Action (as listed in ERP)[55]	Number Enforcement Actions Issued	% Enforcement Actions Issued[56]
Level 1[57]	Verbal Warning	15	63%
Level 2	Written Warning	8	33%
Level 3	Notice of Violation	0	0%
Level 4	Stop Notice	1	4%
Total		**24**	**100%**

C.6.e.iii.2.f, g ►Illicit Discharges

	Number
Number of illicit discharges, actual and those inferred through evidence at high priority sites and sites that disturb 1 acre or more of land (C.6.e.iii.1.f)	0
Number of sites with discharges, actual and those inferred through evidence at high priority sites and sites that disturb 1 acre or more of land (C.6.e.iii.1.g)	0

[55]Agencies should list the specific enforcement actions as defined in their ERPs.
[56]Percentage calculated as number of each type of enforcement action divided by the total number of enforcement actions.
[57]For example, Enforcement Level 1 may be Verbal Warning.

C.6.e.iii.2.h, i ►Violation Correction Times

	Number	Percent
Violations (excluding verbal warnings) fully corrected within 10 business days after violations are discovered or otherwise considered corrected in a timely period (C.6.e.iii.1.h)	9	100%[58]
Violations (excluding verbal warnings) not fully corrected within 30 days after violations are discovered (C.6.e.iii.1.i)	0	0%[59]
Total number of violations (excluding verbal warnings) for the reporting year[60]	9	100%
Comments:		

C.6.e.iii.(4) ►Evaluation of Inspection Data

Describe your evaluation of the tracking data and data summaries and provide information on the evaluation results (e.g., data trends, typical BMP performance issues, comparisons to previous years, etc.).

Description:

A total of 119 inspections were conducted at 17 sites within the County's jurisdiction during the reporting period (2015-2016). During the inspections, a total of 30 violations were recorded, 18 less than the previous year. These violations included: problems with 11 sediment control measures; 5 erosion control, 4 run-on/run-off controls and 6 site management and 4 cases of non-stormwater management issues. The most common violations were encountered in the sediment control and site management categories, which accounted for over 50 percent of the violations similar to that of the previous year. The generally low BMP violations can be attributed to many construction projects being completed prior to the rainy season which starts on October 15 as well as impacts from the inspections, improved stormwater awareness, and increased involvement of the site's construction supervisors and the project managers.

C.6.e.iii.(4) ►Evaluation of Inspection Program Effectiveness

Describe what appear to be your program's strengths and weaknesses, and identify needed improvements, including education and outreach.

Description:

Currently our stormwater compliance program is effective and running smoothly. Our staff includes well trained field inspectors. The County has participated in the countywide program's subcommittee/work groups for BMP training. Please refer to the C.6 Construction Site Control section of countywide program's FY 15-16 Annual Report for a description of activities at the countywide or regional level.

[58]Calculated as number of violations fully corrected in a timely period after the violations are discovered divided by the total number of violations for the reporting year.

[59]Calculated as number of violations not fully corrected within 30 days after the violations are discovered divided by the total number of violations for the reporting year.

[60]The total number of violations reported in the table of Violation Correction Times equals the number of initial enforcement actions, i.e., this assumes one violation is issued for several problems during an inspection at a site. The total number of violations in the table of Violation Correction Times may not equal the total number of enforcement actions because one violation issued at a site may have a second enforcement action for the same violation at the next inspection if it is not corrected.

C.6.f ►Staff Training Summary

Training Name	Training Dates	Topics Covered	No. of Inspectors in Attendance	
Inspecting C.6 BMPs & Installation Demonstration	March 5, 2015	Review of key inspection elements, including common problems and corrective actions, and a field demonstration of installed erosion and sediment BMPs.	2	25%
QSD/QSP Qualified Stormwater Pollution Prevention Plan (SWPPP) Developer/ Qualified SWPPP Practitioner	March 23 – 25, 2016	• Construction General Permit • Significant Changes between the New and Old CGP • Risk Level 1,2 and 3 • Stormwater Sampling • BMPs • Preparation of SWPPP Plans Inspections	2	25%

Section 7 – Provision C.7. Public Information and Outreach

C.7.b.i.1 ►Outreach Campaign

Summarize outreach campaign. Include details such as messages, creative developed, and outreach media used. The detailed outreach campaign report may be included as an attachment. If outreach campaign is being done by participation in a countywide or regional program, refer to the separate countywide or regional Annual Report.

Summary:

Please refer to the Countywide Program's 2015-16 Annual Report.

C.7.c. Stormwater Pollution Prevention Education

The ACFC&WCD is continuing to use a smart phone application called "Mobile Citizen" to make it easier for local residents to report illegal dumping and spills and send photos of the incident s. The application has GPS functionality, so it simultaneously maps the location and generates a work request for the Maintenance and Operations Department.

Local stormwater phone number(s)	510-670-5500
Local/Regional stormwater website(s)	www.cleanwaterprogram.org

Outreach:

Refer to Countywide Program's C.7 Public Information and Outreach section of Program's FY 15-16 Annual Report for efforts conducted by the countywide program to publicize stormwater points of contact (e.g. program website, Facebook page, outreach materials, etc.).

C.7.d ►Public Outreach and Citizen Involvement Events

Describe general approach to event selection. Provide a list of outreach materials and giveaways distributed.
Use the following table for reporting and evaluating public outreach events

Event Details	**Description** (messages, audience)	Evaluation of Effectiveness
Provide event name, date, and location. Indicate if event is local, countywide or regional.	Identify type of event (e.g., school fair, creek clean-up, storm drain stenciling, farmers market etc.), type of audience (school children, gardeners, homeowners etc.) and outreach messages (e.g., Enviroscape presentation, pesticides, stormwater awareness)	Provide general staff feedback on the event (e.g., success at reaching a broad spectrum of the community, well attended, good opportunity to talk to gardeners etc.). Provide other details such as: • Success at reaching a broad spectrum of the community • Number of participants compared to previous years. • Post-event effectiveness assessment/evaluation results • Quantity/volume of materials cleaned up, and comparisons to previous efforts
Stormwater Exhibit at the Alameda County Fair: The Fair is running from June 15 to July 4, 2016. Setting up the exhibit and producing the outreach materials are Countywide Program efforts. Staffing the exhibit is an effort conducted by individual Permittees.	The County Fair is attended by a wide range of residents from throughout the County. The primary message of the exhibit and outreach materials is to encourage residents to reduce their use of pesticides or when necessary use less-toxic pesticides. The exhibit also illustrates the basic watershed awareness/stormwater pollution message.	Several hundred thousand residents attend the fair each year. A more detailed description of the exhibit is included in Section C.7 Public Information and Outreach of the ACCWP FY 15/16 Annual Report.
Castro Valley Fall Festival, Castro Village Shopping Center, Castro Valley – 9/12 & 9/13/15 Our booth and display at this event is created, organized and staffed by the Unincorporated Program.	Local Street Fair open to the general public. To coincide with Coastal Clean-up efforts, the focus of our booth at Fall events is reducing litter that ends up in local creeks, and eventually the San Francisco Bay.	A large community event with an estimated 4000 residents in attendance, and 200 vendors. We had lots of participation in our interactive booth, which was staffed from 10am-6pm both days of the event. We had a life-size stormdrain on the table, where people could lift the grate and take a look at some of the trash that ends up in our creeks by going down the stormdrain.

		This was used as a conversation piece, to engage with the public, and talk about alternatives to some commonly used trash items (use a reusable water bottle instead of plastic ones, use Tupperware in lunches instead of plastic bags, use a reusable shopping bag, reusable coffee cup, etc.) We also had a colored wheel game, that was used along with our "true or rubbish questions", Families that visited our booth could also play our interactive game, where they went "fishing" in our "Bay", with the goal of pulling out a fish and not one of the disposable litter items mentioned above. If they pulled out litter, they were asked which reusable they could have used to prevent this from ending up in the Bay. We also gave away reusable chico bags, mood pencils, seed packets, activity guides, Detain the Rain brochures and car maintenance guides. We also had a flyer available for the public that listed upcoming Hands-On-Conservation volunteer events in Castro Valley.
Sunol Wildflower Festival – 4/9/16, Sunol-Ohlone Regional Wilderness The Unincorporated Area Program created the booth concept, did all set-up and breakdown of the booth and staffed the event.	Local, family friendly festival that is open to the public. Many families with young children in the Sunol/East Bay Area attend this event. In additionl to the outreach booths, East Bay Parks staff guide wildflower walks.	Approximately 200 local community members attended this event. Our Clean Water booth featured a frog puppet craft activity for children and families attending the event. We used this activity as an opportunity to discuss how water pollution affects animals such as frogs in our local creeks, and how they can be an indicator species for water quality. We also discussed different ways in which we can keep our creeks and streams clean of pollution. To promote the use of non-toxic methods in the home and garden to control pests in order to reduce stormwater pollution, CWP spray bottle sticker labels and fact cards were given out to event participants. The labels and fact cards contained recipes for non-toxic pest controls

		which could be used instead of store-bought chemicals. In order to further encourage the prevention of toxic chemicals being released into our storm drains, "Keeping it All in Tune" brochures were available for event participants which discuss keeping your car free from leaks and the proper way to dispose of automotive fluids.
Alameda County Public Works Bring your daugher to Work Day, Public Works Office in Hayward – 4/28/16	Workplace education for school-aged boys. The children learn about careers in stormwater pollution prevention, along with other departments within Alameda County Public Works.	Approximately 30 children attended this event. We distributed Watershed pollution prevention Activity Books, mood pencils, reusable bags and native plant seeds to the girls who attended the event.
Lake Chabot 50th Anniversary Festival, Castro Valley – 6/4/16 The Unincorporated Area Program created the booth concept, did all set-up and breakdown of the booth and staffed the event.	Large festival open to the public. Many local families with children attended the event. Our booth focused on storm water pollution prevention.	Approximately 1500 local community members attended this event. Our Clean Water booth featured a frog puppet craft activity for children and families attending the event. We used this activity as an opportunity to discuss how water pollution affects animals such as frogs (that may live in/near a lake like Chabot), and how they can be an indicator species for water quality. We also discussed different ways in which we can keep our waterways clean of pollution. To promote the use of non-toxic methods in the home and garden to control pests in order to reduce storm water pollution, CWP spray bottle sticker labels and fact cards were given out to event participants. The labels and fact cards contained recipes for non-toxic pest controls which could be used instead of store-bought chemicals. In order to further encourage the prevention of toxic chemicals being released into our storm drains, "Keeping it All in Tune" brochures were available for event participants which discuss keeping your car free from leaks and the proper way to dispose of automotive fluids.

Castro Valley Farmers Market, Castro Valley BART Station, Redwood Road & Norbridge, Castro Valley – 7/11/15, 8/22/15, 9/26/15, 10/24/15 and 6/11/16. The Unincorporated Area Program created the booth concept, did all set-up and breakdown of the booth and staffed the event.	Local Farmers market open to the public. Unincorporated Area booth materials	Approximately 50-100 local community members attend this event on Saturdays. In the fall, we feature our anti-litter message, using the life-sized storm drain model that allows residents to see where the litter goes (into the creek). In the spring, ee feature our spring ant-pesticide message on how to use non-toxic methods to deal with pests around the home and garden. Giveaways included native flower seeds, mood pencils, non-toxic recipe water bottle labels, activity guides, reusable bags and Keeping it all in Tune brochures.
Community Stewardship Grants Program	The Countywide Program sponsors the Community Stewardship Grants (CSG) Program. The CSG Program provides approximately $25,000 annually in $1,000 to $5,000 increments to individuals and community groups to support stormwater improvement/outreach projects throughout the County.	See Section C.7 of the ACCWP FY15/16 Annual Report for a summary.
12th Unincorporated Area Fall Clean-Up and Beautification, Ashland and Cherryland sections of San Lorenzo – 9/26/15 The Unincorporated Area Program staff at Nate Miley's office coordinated and staffed this event.	Large, annual clean-up organized and funded by the Unincorporated Area Program in the Ashland and Cherryland communities.	Approximately 40 volunteers participated and picked up trash at the following locations: East 14th Street, Mission Blvd, Liberty Blvd. and Foothill Blvd. – Ashland and Cherryland Communities. The Unincorporated Area Program also provided safety vests, ponchos, gloves, rakes, shovels garbage bags, and garbage bags for volunteers, and picked up approximately **5 cu yds** of trash. Volunteers also received native seed packets, chico bags and Clean Water Program Activity Guides.

San Lorenzo Homeowners' Association Earth Day Clean-Up/Landscape Expo, 377 Paseo Grande, San Lorenzo – 4/23/16 The Unincorporated Area Program sponsored this event.	Community clean-up that was sponsored by the Unincorporated Area Program.	The Unincorporated Area Program provided the following supplies to this event for 50 participants: 50 Vests, 50 Litter Picks, 50 sets of gloves and 50 large garbage bags. **15 cu yds of trash** was hauled by Maintenance Staff at the end of the event.
Cull Canyon Reservoir Earth Day Beautification, Castro Valley – 4/23/16 Unincorporated Area staff facilitated this clean-up site the day of the event.	The Unincorporated Area Program partnered with the East Bay Regional Park District to facilitate a native planting at Cull Canyon Reservoir. This site was one of the 5 public sites sponsored by the Castro Valley Sanitary District.	This event consisted of 15 local volunteers working at the site from 9am – 12pm, installing native trees along the water and installing an irrigation system.
Castro Valley Sanitary District Earth Day Clean-Up, Throughout Castro Valley – 4/23/16 The Unincorporated Area Program sponsored this event.	The Unincorporated Area Program is a major sponsor (in addition to planning and facilitating two clean-up sites for the event) of this large, annual clean-up at trash "hot spot" locations within the Castro Valley Community.	Approximately 700 volunteers at 14 Castro Valley schools and 5 public sites participated in the 14th annual clean-up. Volunteers cleared **approximately cleared 60 cy of organic debris and 5 cy of litter** from Castro Valley streets, parks, schools and creeks. As a major event sponsor, the Unincorporated Program provided: 200 pairs of gloves, 200 litter pickers, and 10 shovels, and picked up 60 cubic yards of debris.
Sunol AgPark, Sunol CA - On-Farm Events for the Public **AgPark Plant Sale/ open house/hedgerow workday community event at hedgerow by HOC- 5/7/16** **AgPark Harvest Festival –HOC activity table at hedgerow- 9/27/15**	Two larger-scale (open to the general public) events were held at the Sunol Agpark, an organic farm on SFPUC watershed land in Sunol, operated by Sustainable Agriculture Education. The AgPark Harvest Festival and the AgPark Plant Sale/Hedgerow workday event activity was staffed by Hands-On Conservation and attracted event participants who made custom wildflower seed packets, cover crop seed packets, and learned how to protect the beneficial	-The AgPark Harvest Festival attracted almost 300 people, with the HOC activity table featuring wildflower and cover crop seed packet-making and hedgerow plant displays, attracting approx. 35 visitors, including a number of children. -The AgPark Plant Sale event attracted approx. 100 people, with a group of 20 CSUEB students weeding and checking irrigation in the hedgerows.

	insects that visit the hedgerow, and what plants are best suited to attract them. Many gardeners, urban farmers and families attended.	CWP giveaways included reusable bags and spray bottle labels with non-toxic pest control recipes. Both events had lower participation than the previous year, however we had roughly the same number of participants visit our table. Very worthwhile event, as audience is receptive to messages since event is held at an organic farm.
Parent University- Resource Fair, Castro Valley **Castro Valley Unified School District- sponsored event** **10/17/15** **Held at Castro Valley Adult Education Center,** **Hands-On Conservation Program (tabling at resource fair for parents)**	The Hands-On Conservation program was featured at an outreach table at the annual Saturday parent education and resource fair for Castro Valley parents. Display materials depicted the stewardship efforts of the HOC program at Creekside areas in the Castro Valley area at which litter cleanups and habitat enhancement plantings are done. Re-usables also featured, especially school lunch options. CWP Wildflower seed packets given out.	Approximately 25-30 parents and youth group leaders visited the table, and inquired about local stewardship opportunities for youth, youth groups and parents. 35-40 copies of handouts for the upcoming HOC workdays at nearby Bay trees Park were taken as well as our custom wildflower seed packets and CWP giveaways. Excellent opportunity to make contacts with Scout and other youth organization leaders for involving their groups in nearby HOC workdays. Parents interested in re-usables and wildflower seeds.
Hands-On Conservation- Collaboration with EarthTeam San Lorenzo High School Volunteers on Litter Assessment and Litter Cleanup **San Leandro Marina 2/16/16 and 2/20/16** **Weekes Park, Hayward 5/17/16**	HOC Program collaborated with Earth Team to support the three workdays. Students planned the litter cleanups and performed litter assessments, then conducted the litter clean-ups on the 20th and 17th. A chalk art installation was also implemented by the students on the 17th to bring attention to the underground creek at Weekes Park.	An average of 15 Students per event cleaned up approximately 1 cu yd of litter from the two sites and recycled a portion. The Saturday clean up was highly visible to park visitors. The HOC Program has been collaborating with the San Lorenzo High School students in annual stewardship events with shared leadership by Earthteam for over five years, and it allows both programs to provide a stronger program, so very beneficial to all. There is an emphasis at

		EarthTeam on developing student leadership skills, which fits well with our HOC workdays.
Sunol AgPark (organic farm) Hedgerow planting workdays, Sunol **Stewardship activities with the Hands-On Conservation program** **High school/middle school student service learning workdays at the hedgerows, and community volunteers-** **-7/24/15 with corporate group** **-9/23/16 with Menlo School** **-10/9/15, 11/13/15, 3/4/16 with Head Royce Middle School, Oakland** **-3/25/16 with "Alternate Spring Break" group of college students** **-6/7/16 with International High School, Oakland** **-5/7/16 hedgerow workday with CSUEB at Agpark Plant sale event**	High school/middle school student service learning workdays at the Agpark organic farm's hedgerow. Activities include: pollinator/insectary hedgerow plants, plant signage, drip irrigation installation, mulching and weeding, and wildflower seeding. Communications with volunteers informally on the purposes of the hedgerow- to provide beneficial insect habitat, and farm conservation practices that are beneficial to farm and farmer operations and natural resources protection.	As part of the service learning element of education program at the Sunol AgPark farm, a number of groups came to the farm to work on the hedgerow: -30 volunteers from corporate group worked on 7/24 - 30 students with teachers and chaperones from Menlo School - 3 classes of 25-30 students each from Head-Royce Middle School in Oakland - 1 class of 20 International High School students from Oakland and 2 teachers. - 7 Alternate Spring Break volunteers - 20 volunteers including CSUEB students at the AgPark Plant Sale and hedgerow workday Several hedgerow planning and maintenance workdays were also done, in order to prepare the site for upcoming service learning workdays. High interest from young people is sustainable agriculture and conservation makes these programs attractive to school groups.
Castro Valley Creek Cleanups, Castro Valley, adjacent to Castro Valley Library and trail - **Stewardship activities with the Hands-On Conservation program** **Coastal Cleanup Day "Creek Care" workday on 9/19/16 with creek and trail cleanup with**	"Creek Care" Stewardship activities with the Hands-On Conservation program. At the workdays the creek area and trail was cleaned up, invasive plants removed, mulch applied, and native riparian plants along the creek side trail were maintained.	On Earth Day Approximately 1000 linear feet of creek bank and trail was cleaned up by 24 community volunteers, and 6-8 citizens doing community service under county staff supervision. 2 cubic yards of mulch applied to habitat plantings along creekside trail.

community volunteers and students, co-led by Friends of San Lorenzo Creek. **-Earth Day creek and trail cleanup on 4/23/16 with Friends of San Lorenzo Creek and civic partners**	Earth Day event included coordination and assistance from other involved agencies and the local group, Friends of San Lorenzo Creek; pre-cleanup presentation given by Friends group on the creek restoration that had taken place. Events done in partnership with Alameda County Flood Control District for trash pick up and coordination with community service citizens.	At Coastal Cleanup Day- approximately 24 volunteers cleaned up litter along 1500' of creek trails and adjacent library parking lot bioswales. Event co-led by Friends of San Lorenzo Creek. Volunteers were given CWP reusable shopping bags and other CWP items. Trash total volume: 3.5 cu yds (includes bulky items/trash from homeless)
Bay Trees Park, Creek Care workdays, Castro Valley **Stewardship activities with the Hands-On Conservation program at Bay Trees Park** **-- 11/7/16 "Creek Care" workday with Castro Valley Boy scouts and parents** **--3/9/16 HOC workday with various high school students from the area**	Student and community volunteers and a scout group repaired bender board pathways in the native plant trail, planted wildflowers and removed weeds, picked up litter and trash, spread mulch, replaced irrigation, and removed invasive plants to improve habitat and prevent erosion along the creek. "Creek Care" concepts were passed along informally to volunteers. The site was also maintained and monitored four times during the year by HOC staff in order to maintain irrigation in drought conditions, and to prep site for HOC workdays, and to reduce fire hazard through weed removal	-11/7/16 "Creek Care" workday with 18 Castro Valley Boy Scouts and parents -On 3/19/16 approx. 20 Castro Valley and other high school students , plus several community volunteers, worked at the site Excellent location adjacent to creek channel for habitat restoration stewardship activities. CWP reusable trash bags given to volunteers. Trash total volume: 1.50 cu yds The site was maintained and monitored four times during the year by HOC staff in order to maintain irrigation in drought conditions, and to prep site for HOC workdays, and to reduce fire hazard through weed removal
School wide Campus Litter Cleanup by students at Palomares Watershed Science Expo- **5/20/16**	Each Expo activity station exhibitor was given a trash bag and was responsible for having each group of students pick up trash from the area surrounding the station on the campus during the event, with help from parent chaperones. Trash was collected at the end of the day from each	Everyone who attended the Expo participated in this activity. Approximately 3 gallons of trash collected/recycled. Trash total volume: .015 cu yd

	station and recycled by Palomares Elementary Jr. Naturalists.	
Watershed Science Expo at Palomares School, Castro Valley, **Friday 5/20/16 all -day event** **Served Castro Valley and San Lorenzo schools, but event exhibitors came from all over the San Francisco Bay Area.**	This watershed education-focused day features watershed/hands-on science - focused activity stations on campus and by the creek, led by watershed/science exhibitors for 3rd grade students and their teachers from schools throughout the watershed. 11 stations were led by Palomares students and staff. 15 stations were led by Bay Area science organizations or Public agencies. - 34 Palomares students trained as "Creek Tour Guides" led 75 tours of the creek restoration sites and their own stewardship projects. They also led 3 activity stations with a creek theme. -Palomares Jr. Naturalists also assisted with event-wide trash cleanup of campus by all participants. -3 assemblies with live wildlife presented by Wildlife Associates -Palomares staff members led 8 additional stations with assistance from 4th & 5th grade students -County staff led an activity station with the watershed diorama, and provided creek organisms for their creek critters station	All six grade levels from Palomares School participated. 3rd grade students from 39 classes from 12 schools from Castro Valley and San Lorenzo Totals: 1,004 students, 42 teachers, 3 principals, and 280 parent helpers/chaperones attended. 52 Palomares parent/community and PTA volunteers helped out preparing for the event and the day of. 15 agencies/organizations had activity stations; total of 26 stations at the Expo. Donations of materials came from the local sanitary district, stores, adult school, parent club. Attending classes donated $650 Redwood Christian School gave permission to use two of their fields for parking for free on the day of the event. Ala. Co. Clean Water lends barricades and traffic cones for the safety of visitors to the event. All 14 teacher responses were positive and cited the hands-on learning, science & creek education, and the fact that the activities were linked to the 3rd grade science standards. The teachers whose classes were bussed to the event were especially appreciative, saying that they and their classes could not have attended otherwise. Students and teachers at the event say it is the best field trip of their school year.

Palomares Creek at Palomares School- Castro Valley – Community and Parent Volunteers Earth Day Campus Cleanup - 4/23/16	Annual trail maintenance and school campus cleanup day held as part of Castro Valley community Earth Day event. Parent volunteers and community members work at the school to clean up the campus, pick up trash, clear debris and provide erosion control along the trail, remove invasive plants and poison oak in preparation for the May Watershed Expo. This year the main trail was reworked to make the trail wider.	The event had 57 parents, teachers, students and community members in attendance. Approx. 400-500 linear feet of creek area/ trail improved, mulch applied where needed, and overgrown plants pruned back along trail. School campus cleaned up. Poison oak cleared away from trails. Trash total volume: 1.0 cu yd

C.7.e. ►Watershed Stewardship Collaborative Efforts

Summarize watershed stewardship collaborative efforts and/or refer to a regional report that provides details. Describe the level of effort and support given (e.g., funding only, active participation etc.). State efforts undertaken and the results of these efforts. If this activity is done regionally refer to a regional report.

Evaluate effectiveness by describing the following:

- Efforts undertaken
- Major accomplishments

Summary:

Local Watershed Stewardship Efforts:

Collaboration also continues with:

- The Friends of San Lorenzo Creek community group to find ways to work together and include group members in our local outreach events. 2015/2016 fiscal year collaboration efforts are described under the Citizen Involvement section below.
- Earth Team to locate clean-up areas for San Lorenzo High School students who are participating in their program, where students implement action projects that provide active learning about environmental science.
- Clean Water Action Partnership for their Rethink Disposable outreach campaign. The campaign goal is to reach out to local restaurants and help them come up with an implementable plan to reduce the amount of litter that is produced by their establishment.

Sulphur Creek Nature Center and the Castro Valley Library to conduct watershed education programs at the library. The programs utilized the interpretive signs mentioned above that are located along the library trail and Castro Valley Creek, and will also incorporated the Google Earth Creek and Watershed Map program that was completed by the Alameda County Flood Control and Water Conservation District and is now available to the public (see more under School-Age Children Outreach). We worked with nature center staff to improve our watershed model used for education purposes, and because of the success of using the model during these programs to teach children about local watersheds, we are allowing them to continue using the model into the 2016-17 FY for their watershed education programs.

C.7.f. ►School-Age Children Outreach

Summarize school-age children outreach programs implemented. A detailed report may be included as an attachment.
Use the following table for reporting school-age children outreach efforts.

Program Details	Focus & Short Description	Number of Students/Teachers reached	Evaluation of Effectiveness
Provide the following information: Name Grade or level (elementary/ middle/ high)	Brief description, messages, methods of outreach used	Provide number or participants	Provide agency staff feedback. Report any other evaluation methods used (quiz, teacher feedback etc.). Attach evaluation summary if applicable.

See the Section C.7 of the ACCWP FY 15/16 Annual Report for a summary of the Program's School-Age Outreach Program	See the Section C.7 of the ACCWP FY 15/16 Annual Report for a summary of the Program's School-Age Outreach Program	See the Section C.7 of the ACCWP FY 15/16 Annual Report for a summary of the Program's School-Age Outreach Program	See the Section C.7 of the ACCWP FY 15/16 Annual Report for a summary of the Program's School-Age Outreach Program
Palomares School –creek program outreach to community -Loaned program materials and expertise to Washington Middle School in San Lorenzo for week of May 9th 2016 **-** Creek activity stations demonstrated by Tour Guides for a team of visiting summer school teachers 5/26/16	-The science program at Washington Middle School (San Lorenzo) utilized Palomares creek program materials for a field trip to Samuel Taylor State park; water quality testing and other creek investigations were done by students. Palomares Tour Guides demonstrated creek activities to summer school teachers to help them evaluate the potential activities they might use for summer school classes in July 2016	305 students, 6 teachers on field trip 12 Palomares student Creek Tour Guides and a teacher presented the activities and answered questions	Utilizing creek studies materials and expertise from the Palomares program to share with other entities in the watershed who wish to do hands-on learning about creek life and restoration is an efficient and appreciated use of resources. Tour Guides were able to share what they have learned about the watershed and the plants and animals which live there. Visiting teachers were able to determine how to modify the activities for the summer school classrooms.
Palomares School- Castro Valley **Bi-weekly Watershed and Creek Science Lessons** for Palomares School students K-5. **September 2015 through June 2016**	Bi-weekly creek and watershed-based lessons taught at Palomares Creek on school campus by credentialed teacher to Palomares School students K-5th grades. Covers water quality studies, creek ecology, soil/geology, landforms in relation to creek and watershed; math, science. 5th graders participate in World Water Monitoring Day. Lessons for Palomares students primarily take place on campus at the outdoor classroom at the creek and in the creek trail. Curriculum is tied to state standards for each grade level and is science based.	108 lessons to Palomares classes, grades 1-5; bi-weekly lessons during school year (24-32 students per class). "Trout in the Classroom program" engaged 75	Creek lessons are part of regular science instruction during the school day and meet state standards. Time allowed for the lessons during the school day. Science testing reflects what students learn. Numerous visits to creek for hands-on lessons to reinforce classroom learning. The creek lessons are featured at an annual presentation to Castro Valley School Board by the school's teachers, and for Palomares Open House. Many parents have their children attend this school because of the creek studies program. **This year the Watershed and Creek Science programs and the Science Expo were a key**

	Hands-on stewardship activities are carried out by all students, including playground area erosion control practices (5th grade) and creek bank invasive plant removal with 3rd, 4th and 5th graders. 4th and 5th graders worked on erosion control at an eroded site along the trail. 1st grade worked on the native plant garden and raised trout in their classroom. 3rd grade raised trout and tree frogs and started to track local native birds. Other classes visited the tank to observe the trout. 2nd and 4th grades worked on improving soil in the gardens. K-3 students planted native flower seeds around the campus.1st and 2nd grade classes are working on butterfly gardens.	Palomares students and 3 teachers.	**part of the school application for the Gold Ribbon School Award, which they received.** CA Dep't. Fish and Wildlife "Trout In the Classroom" program for the 3rd consecutive year at the school; 1st and 3rd grade students raised fish in the classroom and released fingerling trout in a nearby lake. Two members of the Mission Peak Fly Fishers Assoc. teach students about trout, creek/habitat care, and conservation, in addition to lessons taught by classroom teachers who are trained by CA Dept. of Fish and Wildlife, Trout in the Classroom Program.
Palomares School- Castro Valley After-School Programs **Program term April -June 2016** Junior Naturalists after- school program and Creek Tour Guides For 1st thru 5th grades	After-school Jr. Naturalist program conducted at Palomares Creek on school campus for Palomares School students 1st-5th grades. Hands-on activities cover water quality studies, creek ecology, conservation activities and stewardship. Tour Guides (3rd-5th grades) learn content and methods for leading creek tours, and material for use at 3 activity stations they lead at annual Watershed Expo. After-school programs open to Palomares School and other schools in watershed	Junior Naturalists (46 students) and 2 teachers lead the program. 6 parent volunteers assisted at various times Creek Tour Guides (34 students) April - June 2016.	Jr. Naturalists are interested in nature and are willing to work as stewards of the environment, and also share their interest with others. They take a pledge to care for the environment and to share their knowledge with others Students in the Tour Guides program lead creek tours for other students from other schools, their teachers and chaperones at the annual Watershed Expo; in leading the tours students demonstrate the material they have learned. Teachers want to expose their students to their peers (the student Tour Guides), and the information they share.

			Students who participate often utilize their knowledge and training to become leaders at the school.

Section 9 – Provision C.9 Pesticides Toxicity Controls

C.9.a. ►Implement IPM Policy or Ordinance

Is your municipality implementing its IPM Policy/Ordinance and Standard Operating Procedures?	X	**Yes**		**No**
If no, explain:				

Report implementation of IPM BMPs by showing trends in quantities and types of pesticides used, and suggest reasons for increases in use of pesticides that threaten water quality, specifically organophosphates, pyrethroids, carbaryl, and fipronil. A separate report can be attached as evidence of your implementation.

Trends in Quantities and Types of Pesticides Used[61]

Pesticide Category and Specific Pesticide Used	**Amount[62]**					
	FY 15-16	**FY 16-17**	**FY 17-18**	**FY 18-19**	**FY 19-20**	**FY 20-21**
Organophosphates						
Product or Pesticide Type A						
Product or Pesticide Type B						
Pyrethroids						
Product or Pesticide Type X	9.62 fl. oz.					
Product or Pesticide Type Y						
Carbamates						
Product or Pesticide Type X						
Product or Pesticide Type Y						
Fipronil						
Product or Pesticide Type X	1.5 fl. oz.					
Product or Pesticide Type Y						

[61]Includes all municipal structural and landscape pesticide usage by employees and contractors.
[62]Weight or volume of the product or preferably its active ingredient, using same units for the product each year. Please specify units used. The active ingredients in any pesticide are listed on the label. The list of active ingredients that need to be reported in the pyrethroids class includes: metofluthrin, bifenthrin, cyfluthrin, beta-cyfluthrin, cypermethrin, deltamethrin, esfenvalerate, lambdacyhalothrin, and permethrin.

Indoxacarb	Reporting not required in FY 15-16					
Diuron	Reporting not required in FY 15-16					
Diamides	Reporting not required in FY 15-16					

- All Gardeners are now required to document the name of the targeted pest and list descriptions of all attempted nontoxic strategies that did not achieve desirable control levels prior to the last-resort herbicide application when reporting pesticide use to their supervisor.

C.9.b ►Train Municipal Employees

Enter the number of employees that applied or used pesticides (including herbicides) within the scope of their duties this reporting year.	11
Enter the number of these employees who received training on your IPM policy and IPM standard operating procedures within this reporting year.	11
Enter the percentage of municipal employees who apply pesticides who have received training in the IPM policy and IPM standard operating procedures within this reporting year.	100%

Type of Training:

Internal departmental training sessions, contracted Bay-Friendly Coalition/ReScape California-facilitated training, PAPA Seminars, etc.

C.9.c ►Require Contractors to Implement IPM

Did your municipality contract with any pesticide service provider in the reporting year?	X	**Yes**		**No**

If yes, briefly describe how contractor compliance with IPM Policy/Ordinance and SOPs was monitored

All pest matters are funneled through a single contact in the Building Maintenance Department. That employee ensures contractor compliance through verbal and email communication, frequent accompaniment of the contractor during site visits, and close monitoring of pesticide use. All contractors have appropriate IPM certification and each have proven track records of implementing IPM principles. The Department regularly receives pest exclusion recommendations from each vendor and the proposed measures are prioritized by carpenters and other maintenance personnel. Additionally, monitoring stations are strategically placed and regularly observed in order to appropriately respond to increasing pest pressures at each property.

C.9.d ►Interface with County Agricultural Commissioners

Did your municipality communicate with the County Agricultural Commissioner to: (a) get input and assistance on urban pest management practices and use of pesticides or (b) inform them of water quality issues related to pesticides,	X	Yes		No

If yes, summarize the communication. If no, explain.

The Building Maintenance Department frequently interacts with the Deputy Agriculture Commissioner on matters that include the specific identification and classification of pests as well as ongoing discussions that pertain to ongoing strategic adjustments to joint IPM efforts.

Did your municipality report any observed or citizen-reported violations of pesticide regulations (e.g., illegal handling and applications of pesticides) associated with stormwater management, particularly the California Department of Pesticide Regulation (DPR) surface water protection regulations for outdoor, nonagricultural use of pyrethroid pesticides by any person performing pest control for hire.		**Yes**	X	**No**

If yes, provide a summary of improper pesticide usage reported to the County Agricultural Commissioner and follow-up actions taken to correct any violations. A separate report can be attached as your summary.

C.9.e.ii (1) ►Public Outreach: Point of Purchase

Provide a summary of public outreach at point of purchase, and any measurable awareness and behavior changes resulting from outreach (here or in a separate report); **OR** reference a report of a regional effort for public outreach in which your agency participates.

Summary:

See the C.9 Pesticides Toxicity Control section of Countywide Program's FY 15-16 Annual Report for information on point of purchase public outreach conducted countywide and regionally.

C.9.e.ii (2) ►Public Outreach: Pest Control Contracting Outreach

Provide a summary of outreach to residents who use or contract for structural pest control and landscape professionals); **AND/OR** reference a report of a regional effort for outreach to residents who hire pest control and landscape professionals in which your agency participates.

Summary:

See the C.9 Pesticides Toxicity Control section of Countywide Program's FY 15-16 Annual Report for information on point of purchase public outreach conducted countywide and regionally.

C.9.e.ii.(3) ►Public Outreach: Pest Control Operators

Provide a summary of public outreach to pest control operators and landscapers and reduced pesticide use (here or in a separate report); **AND/OR** reference a report of a regional effort for outreach to pest control operators and landscapers in which your agency participates.

Summary:

See the C.9 Pesticides Toxicity Control section of Program's FY 15-16 Annual Report for a summary of our participation in and contributions towards countywide and regional public outreach to pest control operators and landscapers to reduce pesticide use.

C.9.f ►Track and Participate in Relevant Regulatory Processes

Summarize participation efforts, information submitted, and how regulatory actions were affected; **AND/OR** reference a regional report that summarizes regional participation efforts, information submitted, and how regulatory actions were affected.

Summary:

During FY 15-16, we participated in regulatory processes related to pesticides through contributions to the countywide Program, BASMAA and CASQA. For additional information, see the Program's Annual Report and the Regional Report submitted by BASMAA on behalf of all MRP Permittees.

Section 10 - Provision C.10 Trash Load Reduction

C.10.a.i ► Trash Load Reduction Summary

For Population-based Permittees, provide an estimate of the overall trash reduction percentage achieved to-date within the jurisdictional area of your municipality that generates problematic trash levels (i.e., Very High, High or Moderate trash generation). Base the estimate on the information presented in C.10.b i-iv and C.10.e.i-ii. Provide a discussion of the trash estimate below, including whether the applicable trash reduction performance guideline or deadline was attained. If not attained, include a discussion of next steps (e.g., development of a detailed plan or report of non-compliance).

Trash Load Reductions	
Percent Trash Reduction in All Trash Management Areas (TMAs) due to **Trash Full Capture Systems** (as reported C.10.b.i)	4%
Percent Trash Reduction in all TMAs due to **Control Measures Other than Trash Full Capture Systems** (as reported in C.10.b.ii)	0%
Percent Trash Reduction due to **Jurisdictional-wide Source Control Actions** (as reported in C.10.b.iv)	8%
SubTotal for Above Actions	**12%**
Trash Offsets (Optional)	
Offset Associated with Additional Creek and Shoreline Cleanups (as reported in C.10.e.i)	0%
Offset Associated with Direct Trash Discharges (as reported in C.10.e.ii)	0%
Total Estimated % Trash Load Reduction in FY 15-16	**12%**

Discussion of Trash Load Reduction Estimate:

Section C.10 Attachments contain a detailed plan and schedule of implementation of additional reduction control actions that address attainment of the MRP 2.0 Trash Reduction Requirement.

C.10.a.iii ► Mandatory Trash Full Capture Systems

Provide the following:

1) Total number and types of full capture systems (publicly and privately-owned) installed prior to FY 15-16, during FY 15-16, and to-date, including inlet-based and large flow-through or end-of-pipe systems, and qualifying low impact development (LID) required by permit provision C.3.
2) Total land area (acres) treated by full capture systems for population-based Permittees and total number of systems for non-population based Permittees compared to the total required by the permit.

Type of System	# of Systems	Areas Treated (Acres)
Installed Prior to FY 15-16		
Connector Pipe Screen (Stormtek)	37	167
Channel Screen (City of Hayward system that treats an area in Unincorporated Alameda County) *Areas treated include jurisdictional and non-jurisdictional lands (e.g., public K-12 schools and colleges, and freeways) within the boundaries of the City that are not treated by traditional full capture devices.	--	38* (25% of treatment area)
Installed in FY 15-16		
NA	NA	NA
Total for all Systems Installed To-date	**37**	**205**
Treatment Acreage Required by Permit (Population-based Permittees)		**112**
Total # of Systems Required by Permit (Non-population-based Permittees)		**NA**

C.10.b.i ► Trash Reduction - Full Capture Systems

Provide the following:

1) Jurisdictional-wide trash reduction in FY 15-16 attributable to trash full capture systems implemented in each TMA;
2) The total number of full capture systems installed to-date in your jurisdiction;
3) Since the effective date of MRP 2.0 (January 1, 2016), the percentage of systems that exhibited significant plugged/blinded screens or were >50% full when inspected or maintained;
4) A narrative summary of any maintenance issues and the corrective actions taken to avoid future full capture system performance issues; and
5) A certification that each full capture system is operated and maintained to meet the full capture system requirements in the permit.

TMA	Jurisdiction-wide Reduction (%)	Total # of Full Capture Systems	% of Systems Exhibiting Plugged/Blinded Screens or >50% full	Summary of Maintenance Issues and Corrective Actions
1	0.1%	37	0%	During FY 2015/16, all devices where inspected and cleaned two times. Inspections and maintenance occurred during the first weeks of December 2015 and June 2016. Upon analyses of prior collection data, we determined that waiting until after the first rain that occurs after the fall season would be the best time to remove the majority of organic debris that washes into storm drains. Removal of the debris prior to heavier rains, later in the season, prevent the organic debris from breaking down in the inlet and hardening onto the lower part of the screen. There was no evidence of overflow in any of the inlets. We will continue to analyze site collection data to determine an appropriate regular maintenance schedule for each site.
2	0.0%			
3	0.0%			
4	1.7%			
5	0.0%			
6	1.0%			
7	0.0%			
8	0.0%			
Total	**4.0%**			

Certification Statement: The County of Alameda certifies that a full capture system maintenance and operation program is currently being implemented to maintain all applicable systems in manner that meets the full capture system requirements included in the Permit.

*The total jurisdiction-wide reduction reported for full capture systems includes 1.2% reduction associated 38 acres (25% of treatment area) treated by one channel screen operated on Target Tributary to Sulphur Creek by the City of Hayward.

C.10.b.ii ► Trash Reduction – Other Trash Management Actions (PART A)

Provide a summary of trash control actions other than full capture systems or jurisdictional source controls that were implemented within each TMA, including the types of actions, levels and areal extent of implementation, and whether actions are new, including initiation date.

TMA	Summary of Trash Control Actions Other than Full Capture Systems
1	**Street Sweeping:** TMA 1 includes Meekland Ave, a high TGR area. The county sweeps once/weekly. Sweeping is done in the late night/early hours while cars are not on the roadways. **Anti-littering and Illegal Dumping Enforcement Activities:** Perform enforcement of high trash generating retail area without full trash capture devices. Enforcement includes inspection of retail areas' waste storage area, parking lot and any partial capture device (CDs units, vortex unit, large interceptor) located on private property. **San Lorenzo Homeowners' Association Earth Day Clean-Up/Landscape Expo,** 377 Paseo Grande, San Lorenzo – 4/23/16 (please see section C.7 for more information)
2	**Anti-littering and Illegal Dumping Enforcement Activities:** Perform enforcement of high trash generating retail area without full trash capture devices. Enforcement includes inspection of retail areas' waste storage area, parking lot and any partial capture device (CDs units, vortex unit, large interceptor) located on private property. **12th Unincorporated Area Fall Clean-Up and Beautification**, Ashland and Cherryland sections of San Lorenzo – 9/26/15 (please see section C.7 for more information)
3	**Street Sweeping:** All County roads are swept at least once/month. TMA 3 includes most of the County's portion of Hesperian Blvd, a high TGR road. Post-MRP, the County sweep Hesperian Blvd once/week. Sweeping is done in the late night/early hours while cars are not on the roadways. **Trash Bins:** Trash canisters have been place along the retail portions of Hesperian Blvd and are maintain by San Lorenzo Chamber of Commerce. **Anti-littering and Illegal Dumping Enforcement Activities**: Perform enforcement of high trash generating retail area without full trash capture devices. Enforcement includes inspection of retail areas' waste storage area, parking lot and any partial capture device (CDs units, vortex unit, large interceptor) located on private property.
4	**Street Sweeping:** All County roads are swept at least once/month. TMA 4 includes portions of East Lewelling Blvd., Hesperian Blvd. and Ashland Ave that The County sweeps once/week. Sweeping is done late night/early hours while cars are not on the roadway. **Trash Bins:** Trash canister have been place along the retail and school portions of East Lewelling Blvd. and Hesperian Blvd are maintained by San Lorenzo Chamber of Commerce. **Anti-littering and Illegal Dumping Enforcement Activities:** Perform enforcement of high trash generating retail area without full trash capture devices. Enforcement includes inspection of retail areas' waste storage area, parking lot and any partial capture device (CDs units, vortex unit, large interceptor) located on private property. **Hands-On Conservation- Collaboration with EarthTeam San Lorenzo High School Volunteers on Litter Assessment and Litter Cleanup Cull Canyon Reservoir Earth Day Beautification,** Castro Valley – 4/23/16 (please see section C.7 for more information)

5	**Anti-littering and Illegal Dumping Enforcement Activities:** Perform enforcement of high trash generating retail area without full trash capture devices. Enforcement includes inspection of retail areas' waste storage area, parking lot and any partial capture device (CDs units, vortex unit, large interceptor) located on private property.
6	**Street Sweeping:** All County roads are swept at least once/month. TMA 6 includes portions of Redwood Rd and Castro Valley Blvd that The County sweeps once/week. Sweeping is done late night/early hours while cars are not on the roadway **Trash Bins:** Trash canister have been place along the retail portions of Redwood Rd and Castro Valley Blvd and are maintained by Castro Valley Sanitary District. **Anti-littering and Illegal Dumping Enforcement Activities:** Perform enforcement of high trash generating retail area without full trash capture devices. Enforcement includes inspection of retail areas' waste storage area, parking lot and any partial capture device (CDs units, vortex unit, large interceptor) located on private property. **-Castro Valley Sanitary District Earth Day Clean-Up**, Throughout Castro Valley – 4/23/16) **-Coastal Cleanup Day** "Creek Care" workday on 9/19/16 with creek and trail cleanup with community volunteers and students, co-led by Friends of San Lorenzo Creek. **-Earth Day** creek and trail cleanup on 4/23/16 with Friends of San Lorenzo Creek and civic partners (please see section C.7 for more information
7	**Street Sweeping:** All County roads are swept at least once/month
8	**Street Sweeping:** All County roads are swept at least once/month **Cull Canyon Reservoir Earth Day Beautification,** Castro Valley – 4/23/16 (please see section C.7 for more information) **-Castro Valley Sanitary District Earth Day Clean-Up**, Throughout Castro Valley – 4/23/16) **-Coastal Cleanup Day** "Creek Care" workday on 9/19/16 with creek and trail cleanup with community volunteers and students, co-led by Friends of San Lorenzo Creek. **-Earth Day** creek and trail cleanup on 4/23/16 with Friends of San Lorenzo Creek and civic partners (please see section C.7 for more information
1-8	**On-land Clean Up:** The County has two Annual FTE equivalent county staff dedicated to on-land trash removal for the **all TMA's** in the unincorporated area of Alameda County. Through the County's Work Furlough Program, three "weekend workers" remove trash on-land in the unincorporated area of Alameda County, full-time on Saturdays and Sundays throughout the year. Combined, trash removal from staff and weekend workers was approximately 2,000 cubic yards (Types of litter include bottles (mainly plastic, some cans and glass), paper cups, paper, plastic lids, polystyrene, plastic and foil food wrappers, misc. hard plastic, cardboard cigarette butts, and large items however, larger items are not part of the totals)

C.10.b.ii ► Trash Reduction – Other Trash Management Actions (PART B)

Provide the following:

1) A summary of the on-land visual assessments in each TMA (or control measure area), including the street miles or acres available for assessment (i.e., those associated with VH, H, or M trash generation areas not treated by full capture systems), the street miles or acres assessed, the % of available street miles or acres assessed, and the average number of assessments conducted per site within the TMA; and
2) Percent jurisdictional-wide trash reduction in FY 15-16 attributable to trash management actions other than full capture systems implemented in each TMA.

TMA ID or *(as applicable)* Control Measure Area	**Total Street Miles or Acres Available for Assessment**	**Summary of On-land Visual Assessments**			**Jurisdictional-wide Reduction (%)**
		Street Miles or Acres Assessed	**% of Applicable Street Miles or Acres Assessed**	**Avg # of Assessments Conducted at Each Site**	
1	388 acres	0	0%	-	0%
2	468 acres	0	0%	-	0%
3	252 acres	0	0%	-	0%
4	82 acres	0	0%	-	0%
5	106 acres	0	0%	-	0%
6	242 acres	0	0%	-	0%
7	32 acres	0	0%	-	0%
8	4 acres	0	0%	-	0%
	Total	**0**	**0%**	**-**	**0%**

C.10.b.iv ► Trash Reduction – Source Controls

Provide a description of each jurisdictional-wide trash source control action implemented to-date. For each control action, identify the trash reduction evaluation method(s) used to demonstrate on-going reductions, summarize the results of the evaluation(s), and provide the associated reduction of trash within your jurisdictional area. Also include the total % reduction credit for all source controls up to the maximum 10% allowed by MRP 2.0.

Source Control Action	Summary Description & Dominant Trash Sources and Types Targeted	Evaluation/Enforcement Method(s)	Summary of Evaluation/Enforcement Results To-date	% Reduction	Total Reduction Credit (%)
Single-use Plastic Bag Ordinance or Policy	The Alameda County Waste Management Authority adopted the Single-Use Bag Ban. As of January 1, 2013, all grocery stores, supermarkets, mini-marts, convenience stores, liquor stores, pharmacies, drug stores or other entities that sell milk, bread, soda and snack foods (all four items) and/or alcohol (Type 20 or21 license) in Alameda County must comply with the Single-Use Bag Ban Ordinance. Affected stores may no longer provide customers with single-use bags at check-out. A copy of the Ordinance is available on the Alameda County Waste Management Authority's website: http://reusablebagsac.org/ordinancetext.html	See Section C.10 of the ACCWP FY 15-16 Annual Report.	See Section C.10 of the ACCWP FY 15-16 Annual Report.	4 %	**8%**
Expanded Polystyrene Food Service Ware Ordinance or Policy	During FY 14-15, the Alameda County Board of Supervisors adopted Alameda County Ordinance No. 2015-30 which prohibits the distribution of disposable food service ware or food packaging that contains polystyrene. The ordinance became effective on 6/9/2015. The ordinance is available by clicking the following link: AC Polystyrene Ordinance	See Section C.10 of the ACCWP FY 15-16 Annual Report.	See Section C.10 of the ACCWP FY 15-16 Annual Report.	4%	

C.10.c ► Trash Hot Spot Cleanups

Provide the FY 15-16 cleanup date and volume of trash removed during each MRP-required Trash Hot Spot cleanup during each fiscal year listed. Indicate whether the site was a new site in FY 15-16.

Trash Hot Spot	New Site in FY 15-16 (Y/N)	FY 15-16 Cleanup Date(s)	Volume of Trash Removed (cubic yards)				
			FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16
ala_san_3 behind Big Lots 20800 Mission Blvd. Hayward 94541.	No	10/23/15	24	60	1	3	10
ala_cas_1 3625 Castro Valley Blvd. Castro Valley 94546.	No	10/23/15	11	8	8	2	1
ala_san _1 Behind 22292 N. 3rd St. Hayward 94546; behind Japanese Gardens	No	10/23/15	6	4	3	3	1
ala_est_1 South side of Bay Fair Center 15555 East 14th St. #350 San Leandro 94578	No	10/23/15 8/16/16	34	1	2	6	2 1

C.10.d ►Long-Term Trash Load Reduction Plan

Provide descriptions of significant revisions made to your Long-term Trash Load Reduction Plan submitted to the Water Board in February 2014. Describe significant changes made to primary or secondary trash management areas (TMA), trash generation maps, control measures, or time schedules identified in your plan. Indicate whether your trash generation map was revised and is attached to your Annual Report.

Description of Significant Revision	Associated TMA
The County of Alameda has made substantial changes to the County's Long-term Trash Reduction Plan. The County hired consultant EOA to assist with evaluating and refining as needed the County's Baseline Trash Generation Rate map. EOA and County staff work together to conduct field observations throughout the Alameda County Unincorporated Area, covering 90% of very high, high, and moderate identified TGR areas. As a result of extensive field observations and refinement of TGR areas, EOA completed revisions to the County Baseline Trash Generation Rate Map. As a result of the revisions made to the Baseline Trash Generation Rate Map, the County revised all TMA's. (See C.10. Attachment Alameda County East TMA/Full Capture and Alameda County West TMA/Full Capture maps) The County's Long Term Trash reduction Plan still mainly relies on the installation of full trash capture devices to meet its long-term trash reduction goals. However, due to the changes in the TGR map and TMAs, the County had to develop a new Full Capture Strategy. Working with EOA, the County identified, verified, and prioritized top locations for larger "in-line" devices (please see C.10. Attachment Potential Large Full Capture Devices") and identified and prioritized location for smaller, insert full-trash capture devise. In FY 16/17, the County is installing in-line full-trash capture devices in the three highest priority area that will completely capture all of the area in TMA 1 and TMA 2. The two TMA 2 device installations are currently in the initial design phase and the device installation design in TMA 1 is being initiated. Installation on these three devices will result in a 62% jurisdiction wide trash reduction. Please see C.10. Attachment Alameda County East TMA/Full Capture and Alameda County West TMA/Full Capture maps show and note that the "planned full trash capture" is depicted with a solid blue line and spotted shaded area. In addition to the three in-line devices and the 37 inlet devices already installed, the County will install in 2016/17 more inlet device in areas of TMA 4 and TMA 6 determined most unlikely to have an in-line device installed. While the County still plans to use full capture devices in TMA's 3, 4, 5, 6 and 7, we intend to use the cost information from the 16/17 in-line projects to evaluate whether to use in-line or inlet device in the more moderate areas.	**1-8**

C.10.e. ► Trash Reduction Offsets (Optional)

Provide a summary description of each offset program implemented, the volume of trash removed, and the offset claimed in FY 15-16. Also, for additional creek and shoreline cleanups, describe the number and frequency of cleanups conducted, and the locations and cleanup dates. For direct discharge control programs approved by the Water Board Executive Officer, also describe the results of the assessments conducted in receiving waters to demonstrate the effectiveness of the control program. Include an Appendix that provides the calculations and data used to determine the trash reduction offset.

Offset Program	Summary Description of Actions and Assessment Results	Volume of Trash (CY) Removed/Controlled in FY 15-16	Offset (Jurisdiction-wide Reduction %)
Additional Creek and Shoreline Cleanups (Max 10% Offset)	NA		
Direct Trash Discharge Controls (Max 15% Offset)	NA		

Appendix 10-1. Baseline trash generation and areas addressed by full capture systems and other control measures in Fiscal Year 15-16.

TMA	2009 Baseline Trash Generation (Acres)					Trash Generation (Acres) in FY 15-16 After Accounting for Full Capture Systems					Jurisdiction-wide Reduction via Full Capture Systems (%)	Trash Generation (Acres) in FY 15-16 After Accounting for Full Capture Systems and Other Control Measures					Jurisdiction-wide Reduction via Other Control Measures (%)	Jurisdiction-wide Reduction via Full Capture AND Other Control Measures (%)
	L	M	H	VH	Total	L	M	H	VH	Total		L	M	H	VH	Total		
1	74	216	173	0	463	75	216	173	0	463	0.1%	75	216	173	0	463	0.0%	0.1%
2	40	256	213	0	508	40	256	213	0	508	0.0%	40	256	213	0	508	0.0%	0.0%
3	145	207	46	0	397	145	207	46	0	397	0.0%	145	207	46	0	397	0.0%	0.0%
4	101	61	42	0	203	121	51	31	0	203	1.7%	121	51	31	0	203	0.0%	1.7%
5	177	82	24	0	283	177	82	24	0	283	0.0%	177	82	24	0	283	0.0%	0.0%
6	765	259	15	0	1,038	796	228	15	0	1,038	1.0%	796	228	15	0	1,038	0.0%	1.0%
7	285	32	0	0	317	285	32	0	0	317	0.0%	285	32	0	0	317	0.0%	0.0%
8	228,608	4	0	0	228,612	228,608	4	0	0	228,612	0.0%	228,608	4	0	0	228,612	0.0%	0.0%
Totals	230,194	1,117	512	0	231,822	230,246	1,076	500	0	231,822	4.0% *	230,246	1,076	500	0	231,822	0.0%	4.0% *

*The total jurisdiction-wide reduction reported for full capture systems includes 1.2% reduction associated 38 acres (25% of treatment area) treated by one channel screen operated on Target Tributary to Sulphur Creek by the City of Hayward.

Section 11 - Provision C.11 Mercury Controls

C.11.a ► Implement Control Measures to Achieve Mercury Load Reductions
C.11.b ► Assess Mercury Load Reductions from Stormwater
C.11.c ► Plan and Implement Green Infrastructure to Reduce Mercury Loads
C.11.d ► Prepare Implementation Plan and Schedule to Achieve TMDL Allocations
C.11.e ► Implement a Risk Reduction Program

Summary:

A summary of countywide Program and regional accomplishments for these sub-provisions are included within the C.11 Mercury Controls section of Program's FY 15-16 Annual Report and/or BASMAA regional reports.

Section 12 - Provision C.12 PCBs Controls

C.12.a ►Implement Control Measures to Achieve PCBs Load Reductions
C.12.b ►Assess PCBs Load Reductions from Stormwater
C.12.c ►Plan and Implement Green Infrastructure to Reduce PCBs Loads
C.12.d ►Prepare Implementation Plan and Schedule to Achieve TMDL Allocations
C.12.e ►Evaluate PCBs Presence in Caulks/Sealants Used in Storm Drain or Roadway Infrastructure in Public Rights-of-Way
C.12.f ►Manage PCB-Containing Materials and Wastes During Building Demolition Activities So That PCBs Do Not Enter Municipal Storm Drains
C.12.g.►Fate and Transport Study of PCBs: Urban Runoff Impact on San Francisco Bay Margins
C.12.h ►Implement a Risk Reduction Program

Summary:

A summary of Permittee, Countywide Program and regional accomplishments for these sub-provisions are included within the C.12 PCB Controls section of Program's FY 15-16 Annual Report and/or BASMAA regional reports.

Section 13 - Provision C.13 Copper Controls

C.13.a.iii ►Manage Waste Generated from Cleaning and Treating of Copper Architectural Features

(For FY 15-16 Annual Report only) Do you have adequate legal authority to prohibit the discharge of wastewater to storm drains generated from the installation, cleaning, treating, and washing of copper architectural features, including copper roofs?	X	**Yes**		**No**

(For FY 15-16 Annual Report only) Provide a summary of how copper architectural features are addressed through the issuance of building permits.

Summary:
The County Building Department has prohibited the installation of copper features.

(FY 15-16 Annual Report and each Annual Report thereafter) Provide summaries of permitting and enforcement activities to manage waste generated from cleaning and treating of copper architectural features, including copper roofs, during construction and post-construction.

Summary:
Waste generated from cleaning and treating of copper architectural features is required to be collected and directed to the sanitary sewer system. Any discharge to the MS4 is considered illicit and enforced through County ordinance.

C.13.b.iii ►Manage Discharges from Pools, Spas, and Fountains that Contain Copper-Based Chemicals

(For FY 15-16 Annual Report only) Do you have adequate legal authority to prohibit the discharge to storm drains of water containing copper-based chemicals from pools, spas, and fountains?	X	**Yes**		**No**

(For FY 15-16 Annual Report only) Provide a summary of how copper-containing discharges from pools, spas, and fountains are addressed to accomplish the prohibition of the discharge.

Summary:
The County includes conditions of approval in building permits that prohibits discharges to the MS4 and requires discharges be directed to vegetation or sanitary sewer. Any discharge to the MS4 is considered illicit and enforced through County ordinance.

(FY 15-16 Annual Report and each Annual Report thereafter) Provide summaries of any enforcement activities related to copper-containing discharges from pools, spas, and fountains.

Summary:
No pool, spa, and fountain discharges were reported to the County.

C.13.c.iii ►Industrial Sources Copper Reduction Results

Based upon inspection activities conducted under Provision C.4, highlight copper reduction results achieved among the facilities identified as potential users or sources of copper, facilities inspected, and BMPs addressed.

Summary:

Any businesses identified during industrial/commercial CWP inspections as potential sources of copper are presented with information describing ways to reduce copper exposure risks. In the unincorporated County, automotive repair facilities and carwashes appear to represent the most likely potential sources of copper in the form of brake dust and additional BMP are often requested (i.e., drain inlet filters) to supplement existing BMP that may appear underperforming. No industries considered to be big copper sources are present in unincorporated County, such as metal platers, semi-conductor manufacturers, smelters, foundries, boat yards, scrap yards, etc.

Section 15 -Provision C.15 Exempted and Conditionally Exempted Discharges

C.15.b.vi.(2) ► Irrigation Water, Landscape Irrigation, and Lawn or Garden Watering

Provide implementation summaries of the required BMPs to promote measures that minimize runoff and pollutant loading from excess irrigation. Generally the categories are:

- Promote conservation programs
- Promote outreach for less toxic pest control and landscape management
- Promote use of drought tolerant and native vegetation
- Promote outreach messages to encourage appropriate watering/irrigation practices
- Implement Illicit Discharge Enforcement Response Plan for ongoing, large volume landscape irrigation runoff.

Summary:

Refer to the C.7. Public Information and Outreach and C.9. Pesticide Toxicity Control sections of the ACCWP's FY15-16 Annual Report and section C.7 of this report.

Section C.4 Attachments

C.4 Potential Facilities List

C.4.b.iii ▶ Potential Facilities List

FACILITY NAME	NUM	STREET DIR	STREET NAME	CITY
5 STAR HAND CAR WASH	15608	EAST	14TH	SAN LEANDRO
7-ELEVEN FOOD STORE # 14190	15651		WASHINGTON	SAN LORENZO
7-ELEVEN FOOD STORE #14180	477		HACIENDA	SAN LORENZO
7-ELEVEN FOOD STORE #14184	1711		159TH	SAN LEANDRO
7-ELEVEN FOOD STORE #14191	1988		167TH	SAN LEANDRO
7-ELEVEN INC. STORE #35518	15350	EAST	14th	SAN LEANDRO
7-ELEVEN STORE #29519	22317		REDWOOD	CASTRO VALLEY
A STREET SMOGCHECK	335	WEST	A	HAYWARD
ABLE AUTO GLASS & UPHOLSTERY	929		WEST A	HAYWARD
ABSOLUTE AUTO SALES	16500	EAST	14TH	SAN LEANDRO
ACAPULCOS TACOS	691	WEST	A	HAYWARD
ACME CAR SERVICE	1015		GROVE	HAYWARD
AGGIE'S HOT DOG AND HAMBURGERS	19600		HESPERIAN	HAYWARD
AIRPORT APPLIANCE	20286		HESPERIAN	HAYWARD
AK MARKET LIQUORS	17651		MEEKLAND	HAYWARD
ALAMEDA COUNTY FIRE STATION #24	1430		164TH	SAN LEANDRO
ALAMEDA COUNTY FIRE STATION #26 (CASTRO VALLEY	18770		LAKE CHABOT	CASTRO VALLEY
ALAMEDA COUNTY FIRE STATION #6	19780		CULL CANYON	CASTRO VALLEY
ALBERTSON'S SHOPPING CENTER	20897		REDWOOD	CASTRO VALLEY
ALCO FLOOD CONTROL GRANT AVE. TEMP.	2575		GRANT	SAN LEANDRO
ALL RENTS	110		GREENVILLE	LIVERMORE
ALLIED TRAILER SUPPLY	15180	EAST	14TH	SAN LEANDRO
ALTAMONT LANDFILL & RESOURCE(CUPA)	10840		ALTAMONT PASS	LIVERMORE
AM PM MINI MARKET	22141		CENTER	CASTRO VALLEY
AMA TIRES	16265	EAST	14TH	SAN LEANDRO
APPLECREEK FARMS	7324		CROW CANYON	CASTRO VALLEY
AQUA CHLOR BY SWIM CHEM	15885		ALTAMONT PASS	TRACY
ARB TEMP CONSTRUCTION YARD	16790	EAST	14TH	SAN LEANDRO
ARCO 00608	17601		HESPERIAN	SAN LORENZO
ARCO 02152	22141		CENTER	CASTRO VALLEY
ARCO 04977	2770		CASTRO VALLEY	CASTRO VALLEY
ASIA DELIGHT EXPRESS RESTAURANT	18444		HESPERIAN	SAN LORENZO
AutoZone #3331	17750		Hesperian	SAN LORENZO
AVILA'S TAQUERIA	16841		MEEKLAND	SAN LORENZO
BART Castro Valley Station (L10)	3301		Norbridge	CASTRO VALLEY
BASKIN ROBBINS	20560		REDWOOD	CASTRO VALLEY
BAY FAIR UNOCAL 76 #256277	15803	EAST	14TH	SAN LEANDRO
BAY SIGNS	16375	EAST	14TH	SAN LEANDRO
BECK ROOFING CO. INC.	21123		MEEKLAND	HAYWARD
BIG 5 SPORTING GOODS	15556		HESPERIAN	SAN LORENZO
BIG A AUTO REPAIR	790		BOCKMAN	SAN LEANDRO
BIG LOTS	20800		MISSION	HAYWARD
BLACK ANGUS STEAKHOUSE	15800		HESPERIAN	SAN LORENZO
BLOCKBUSTER VIDEO	3090		CASTRO VALLEY	CASTRO VALLEY
BLUE CROSS VETERINARY CLINIC	1510		150TH	SAN LEANDRO

C.4.b.iii ▶ Potential Facilities List

FACILITY NAME	NUM	STREET DIR	STREET NAME	CITY
BODI'S JAVA	3803	EAST	CASTRO VALLEY	CASTRO VALLEY
BONFARE MARKET, #8	19125		REDWOOD	CASTRO VALLEY
BOULEVARD BURGER 2	3714		CASTRO VALLEY	CASTRO VALLEY
BOULEVARD CHEVRON (CUPA)	2920		CASTRO VALLEY	CASTRO VALLEY
BROTHERS WELDING AND HANDIMAN	2		LEWELLING	SAN LORENZO
BUDGET INN	16500		FOOTHILL	SAN LEANDRO
BURGER KING #977	2757		CASTRO VALLEY	CASTRO VALLEY
CAESAR'S CHICKEN	19450		HESPERIAN	HAYWARD
CALAVERAS NURSERIES INC	1000		CALAVERAS	SUNOL
CALIFORNIA'S GUNITE & POOL PLASTER	510		GREENVILLE	LIVERMORE
CAR AUDIO + DJ DEPOT	16910	EAST	14TH	SAN LEANDRO
CARL'S JR #7084	20550		MISSION	HAYWARD
CARNICERIA EL JALISCIENSE	20008		MEEKLAND	HAYWARD
CASA LUCAS MARKET	16684	EAST	14TH	SAN LEANDRO
CASTRO VALLEY SANITARY DISTRICT	21040		MARSHALL	CASTRO VALLEY
CENTRAL SELF-STORAGE	2300		GRANT	SAN LORENZO
CHABOT LIQUORS	20388		LAKE CHABOT	CASTRO VALLEY
CHARLES WILHELM TRAINING(CWP)	6496		CROW CANYON	CASTRO VALLEY
CHECK 'N' GO	20824		MISSION	HAYWARD
CHEVRON #90504 (CUPA)	15900		HESPERIAN	SAN LORENZO
CHINA BOWL RESTAURANT	2690		CASTRO VALLEY	CASTRO VALLEY
CHINA GARDEN	22253		REDWOOD	CASTRO VALLEY
CHUCK AND JOE'S LIQUOR	20451		REDWOOD	CASTRO VALLEY
CIGARETTE BOX #1	2785		CASTRO VALLEY	CASTRO VALLEY
CIGARETTE BOX II	3668		CASTRO VALLEY	CASTRO VALLEY
CIGARETTE CITY	20930		MISSION	HAYWARD
CIGARETTE DEPOT	15935		HESPERIAN	SAN LORENZO
CIGARETTES FOR LESS	16104	EAST	14TH	SAN LEANDRO
CLASSIC BURGERS	15927		HESPERIAN	SAN LORENZO
CLUB MOTO	7727		Altamont Pass	LIVERMORE
CONNIE'S POND AND GARDEN	2517		SAN CARLOS	CASTRO VALLEY
CONNIE'S TROPICAL FISH	2520		CASTRO VALLEY	CASTRO VALLEY
CORDEIRO'S WELDING SERVICE	19356		MEEKLAND	HAYWARD
CORNERSTONE COFFEE BREWING CO.	20991		REDWOOD	CASTRO VALLEY
COST U LESS	15920		HESPERIAN	SAN LORENZO
CROUSE HOMES, INC	237		CHERRY	HAYWARD
CROW CANYON PARK	8000		CROW CANYON	CASTRO VALLEY
CULL CANYON LAGOON (CUPA)	18627		CULL CANYON	CASTRO VALLEY
CUSTOM FREIGHT SYSTEMS	2484		BAUMANN	SAN LORENZO
CV TOWN AND COUNTRY LIQUOR	22269		REDWOOD	CASTRO VALLEY
CVS PHARMACY # 9904	3667		CASTRO VALLEY	CASTRO VALLEY
CVS PHARMACY #9904 (CUPA)	3667		CASTRO VALLEY	CASTRO VALLEY
CYCLE SALVAGE	21065		FOOTHILL	HAYWARD
DAMPA FILIPINO FOOD	2960		CASTRO VALLEY	CASTRO VALLEY
Darcie Kent Vineyards	7000		Tesla	LIVERMORE

C.4.b.iii ▶ Potential Facilities List

FACILITY NAME	NUM	STREET DIR	STREET NAME	CITY
DELL'S CAFE	2637		CASTRO VALLEY	CASTRO VALLEY
DELL'S IVY ACRES NURSERY INC	8301		NILES CANYON	SUNOL
DELUXE INN	21172		MISSION	HAYWARD
DENICA'S REAL FOOD KITCHEN	2723		CASTRO VALLEY	CASTRO VALLEY
DIABLO WINDS, LLC	12050		ALTAMONT PASS	LIVERMORE
DICKEY'S BARBECUE PIT	3835	EAST	CASTRO VALLEY	CASTRO VALLEY
DOMINO'S PIZZA	3300	EAST	CASTRO VALLEY	CASTRO VALLEY
DON'S TRANSMISSION	15768	EAST	14TH	SAN LEANDRO
DONUT EXPRESS	2638		CASTRO VALLEY	CASTRO VALLEY
DOT RADIATOR	2		LEWELLING	SAN LORENZO
E + S MASONRY	2882		GROVE	CASTRO VALLEY
E&B NATURAL RESOURCES MGMT CO. - SCHENONE WELL FIEI	8700		PATTERSON PASS	LIVERMORE
EBMUD SOUTH AREA SERVICE CENTER	589	EAST	LEWELLING	SAN LORENZO
EBRPD - SOUTH CO. CORP. YARD	17930		LAKE CHABOT	CASTRO VALLEY
EDEN HOSPITAL	20103		LAKE CHABOT	CASTRO VALLEY
EL HERRADERO MFPU	769	WEST	A	HAYWARD
EL INDIO	2430		WHIPPLE	HAYWARD
EL POTRO NIGHT CLUBS	871	WEST	A	HAYWARD
EL RANCHO STEAK HOUSE	3240		CASTRO VALLEY	CASTRO VALLEY
EL RINCONCITI CHILANGO	16496	EAST	14TH	SAN LEANDRO
ENGINE RESEARCH COMPANY	610	EAST	LEWELLING	SAN LORENZO
ENTERPRISE	20885		MISSION	HAYWARD
ENXCO - DIFWIND FARMS LTD. VII & IX	12046		ALTAMONT PASS	TRACY
FANFA, INC.	2401		GRANT	SAN LORENZO
FLAVOR OF INDIA	15930		HESPERIAN	SAN LORENZO
FOOTHILL National	16210		FOOTHILL	SAN LEANDRO
FRESH FILIPINO	15829		CHANNEL	SAN LORENZO
GALA BAKERY	1432		VIA LACQUA	SAN LORENZO
GARRE' VINEYARD & WINERY INC (CUPA)	7986		TESLA	LIVERMORE
GEAR WORKS	16446		ASHLAND	SAN LORENZO
GEORGE MCGILL'S BODY SHOP	560	EAST	LEWELLING	SAN LORENZO
GOLFLAND GOLDEN TEE	2533		CASTRO VALLEY	CASTRO VALLEY
HARMANS KFC #189	17630		HESPERIAN	SAN LORENZO
HAYWARD ALAMEDA CAR WASH LLC-SAN LORENZO	17945		HESPERIAN	SAN LORENZO
HAYWARD AUTO IMPORTS	20095		MISSION	HAYWARD
HAYWARD AUTO PLAZA	16611	EAST	14TH	SAN LEANDRO
HAYWARD TIRE PROS	263	WEST	A	HAYWARD
HERNANDEZ AUTO BODY & PAINT	2		LEWELLING	SAN LORENZO
HERTZ	20519		MISSION	HAYWARD
HERZER LANDSCAPING	16120		ASHLAND	SAN LEANDRO
HEYER HOUSE LIQUOR	19205		CENTER	CASTRO VALLEY
HOANG'S AUTO CARE	20009		MEEKLAND	HAYWARD
HONG KONG BBQ RESTAURANT	20918		REDWOOD	CASTRO VALLEY
I SUSHI	20649		RUSTIC	CASTRO VALLEY
INSTA-LUBE	15526		Hesperian	SAN LORENZO

FACILITY NAME	NUM	STREET DIR	STREET NAME	CITY
ITC ENGINEERING SERVICES, INC.	9959		CALAVERAS	SUNOL
JACK IN THE BOX #3415	18555		MISSION	HAYWARD
JENNY'S CAFE	2836		CASTRO VALLEY	CASTRO VALLEY
JIM'S HAIR SALON	20888		MISSION	HAYWARD
JOHN'S FOOD AND LIQUOR (CUPA)	16260	EAST	14TH	SAN LEANDRO
K. J. WOODS	2642		GRANT	SAN LORENZO
KATRINIA'S SANDWICHES & SALAD	3064		CASTRO VALLEY	CASTRO VALLEY
KATSU RESTAURANT	20861		REDWOOD	CASTRO VALLEY
KAVANAGH LIQUORS	500		VIA MERCADO	SAN LORENZO
KEITH'S TRANSMISSION SERVICE	22312		Redwood	CASTRO VALLEY
KING KONG CHINESE RESTAURANT	2966		CASTRO VALLEY	CASTRO VALLEY
KITCHEN @ SAN LEANDRO	16695	EAST	14TH	SAN LEANDRO
KLH AUTO TECH, INC.	5269		CROW CANYON	CASTRO VALLEY
KNUDSEN'S ICE CREAMERY	3323		CASTRO VALLEY	CASTRO VALLEY
KOYOMI	2652		CASTRO VALLEY	CASTRO VALLEY
KS GLASS TINT WINDOW	488		LEWELLING	SAN LORENZO
L&L HAWAIIAN BARBECUE	20438		REDWOOD	CASTRO VALLEY
LA CASITA	48		BLOSSOM	HAYWARD
LAKE CHABOT FISHING OUTFITTERS	17936		LAKE CHABOT	CASTRO VALLEY
LAMPS PLUS	15928		HESPERIAN	SAN LORENZO
LAS CARRETAS	22472		MEEKLAND	HAYWARD
LAUNDERLAND	16314	EAST	14TH	SAN LEANDRO
LAUNDROMAT	20894		MISSION	HAYWARD
LAUNDROMAT	22279		REDWOOD	CASTRO VALLEY
LEE'S DONUT SHOP	22319		REDWOOD	CASTRO VALLEY
LEE'S DONUTS	35	EAST	LEWELLING	SAN LORENZO
LIQUOR CENTER	22058		CENTER	CASTRO VALLEY
LIQUOR KING	20892		REDWOOD	CASTRO VALLEY
LISA ARNOLD NURSERY SALES	9950		CALAVERAS	SUNOL
LITTLE CAESAR'S PIZZA #5042	3020		CASTRO VALLEY	CASTRO VALLEY
LITTLE MEXICO TAQUERIA	465	WEST	A	HAYWARD
LIVERMORE RANCH KENNELS	4964		TESLA	LIVERMORE
LOCKAWAY STORAGE	8555		DUBLIN CANYON	CASTRO VALLEY
LONDON FISH & CHIPS	18890		HESPERIAN	HAYWARD
LOS MOLCAJETES RESTAURANT	22154		REDWOOD	CASTRO VALLEY
LOS VECOS TAQUERIA	441		BLOSSOM	HAYWARD
LUCCA'S ITALIAN DELI	3121		CASTRO VALLEY	CASTRO VALLEY
Lucky #768	15840		Hesperian	SAN LORENZO
MAC'S SPORTS BAR	21722		MEEKLAND	HAYWARD
MARSHALL STEEL CLEANERS	20447		REDWOOD	CASTRO VALLEY
MCDONALD'S	18708		HESPERIAN	HAYWARD
MCDONALD'S #18516	355	WEST	A	HAYWARD
METRO PAINTING INC.	21750		MEEKLAND	HAYWARD
MI PUEBLITO MARKET	471	WEST	A	HAYWARD
MILLEN'S WOODWORKING	2620		NORBRIDGE	CASTRO VALLEY

FACILITY NAME	NUM	STREET DIR	STREET NAME	CITY
MILLS PROPERTY	30		GREENVILLE	LIVERMORE
MISSION MUFFLER AND BRAKE	21011		MISSION	HAYWARD
MOOSE LODGE #1491	20835		RUTLEDGE	CASTRO VALLEY
NATION'S GIANT HAMBURGER	3088		CASTRO VALLEY	CASTRO VALLEY
Neff Rental LLC	15740		Hesperian	SAN LORENZO
NEW HANDY CORNER MARKET	446		BLOSSOM	HAYWARD
NEW STADIUM CLUB	15698	EAST	14TH	SAN LEANDRO
NEW YORK PIZZA	39	EAST	LEWELLING	SAN LORENZO
NEXCYLCE	3443		CASTRO VALLEY	CASTRO VALLEY
NILES CANYON RAILWAY	5550		Niles Canyon	SUNOL
NORCAL AMBULANCE	3615		CASTRO VALLEY	CASTRO VALLEY
NORTH COUNTY CONSTRUCTION	4010		RAYMOND	LIVERMORE
O'Reilly Auto Parts #3471	15604		Hesperian	SAN LORENZO
OAK CREEK	6127	EAST	CASTRO VALLEY	CASTRO VALLEY
ORO LOMA SEWER LIFT STATION #4	0		Railroad	SAN LORENZO
PACIFIC RANCH SUPERMARKET	15833		CHANNEL	SAN LORENZO
PAD THAI CUISINE	3774		CASTRO VALLEY	CASTRO VALLEY
PAPA MURPHY'S CASTRO VALLEY	20895		REDWOOD	CASTRO VALLEY
PAPA PANCHO'S TAQUERIA	15939		HESPERIAN	SAN LORENZO
PEET'S COFFEE AND TEA	20439		REDWOOD	CASTRO VALLEY
PEKING GARDEN RESTAURANT	15950		HESPERIAN	SAN LORENZO
PETE'S HARDWARE	2569		CASTRO VALLEY	CASTRO VALLEY
PIZZA EXPRESS	19573		CENTER	CASTRO VALLEY
PLAZA BOTTLE SHOP & MARKET	15292		LIBERTY	SAN LEANDRO
POPEYE'S CHICKEN & BISCUITS	17555		HESPERIAN	SAN LORENZO
PORTALES TAQUERIA	3153		CASTRO VALLEY	CASTRO VALLEY
POTTER FIRE PROTECTION, INC.	22156		MEEKLAND	HAYWARD
PURRFECT AUTO SERVICE 93	21135		MISSION	HAYWARD
QUICKLY	20893		REDWOOD	CASTRO VALLEY
QUIK STOP MARKET #84 (CUPA)	2881		GROVE	CASTRO VALLEY
R & D CAFE	15813		CHANNEL	SAN LORENZO
RAY'S AUTO REPAIR	976		RUFUS	HAYWARD
REDWOOD CONVALESCENT HOSPITAL	22102		REDWOOD	CASTRO VALLEY
RETZLAFF VINEYARDS	1356	SOUTH	Livermore	LIVERMORE
REZIAS GAS AND MARKET	20450		HESPERIAN	HAYWARD
RGW CONSTRUCTION	550		GREENVILLE	LIVERMORE
RIGATONI'S	20680		RUSTIC	CASTRO VALLEY
RIOS-LOVELL ESTATE WINERY	6500		Tesla	LIVERMORE
RODRIGUE-MOLYNEAUX WINERY	3053		MARINA	LIVERMORE
ROGER KRAUS RACING ENTERPRISES	2896		GROVE	CASTRO VALLEY
ROS DONUTS	15918		HESPERIAN	SAN LORENZO
ROSE GARDEN RESTAURANT	15754	EAST	14TH	SAN LEANDRO
ROUND TABLE PIZZA	15960		HESPERIAN	SAN LORENZO
ROUND TABLE PIZZA	20920		REDWOOD	CASTRO VALLEY
ROYAL MARKET	698	WEST	SUNSET	HAYWARD

C.4.b.iii ▶ Potential Facilities List

FACILITY NAME	NUM	STREET DIR	STREET NAME	CITY
SABOR CURDSIDE GRLL MFPU	0		E 14TH @ 163RD	SAN LEANDRO
SAM'S BURGERS #1 INC	18401		HESPERIAN	SAN LORENZO
SAM'S SIGNS	16719	EAST	14TH	SAN LEANDRO
SAN LORENZO UNIFIED SCHL DIST(CUPA)	15510		USHER	SAN LORENZO
SAN LORENZO VILLAGE EAST	15918		16032 HESPERIAN	SAN LORENZO
SAVE TOW OF HAYWARD	21602		WESTERN	HAYWARD
SCR COLLISION SERVICES INC	965		Rufus	HAYWARD
SFPUC Sunol Corporation Yard	505		Paloma	SUNOL
SHAWN ENTERPRISE INC	16690	EAST	14TH	SAN LEANDRO
SIERRA DESIGN MANUFACTURING INC.	1113		GREENVILLE	LIVERMORE
SKI WORLD USA	2751		CASTRO VALLEY	CASTRO VALLEY
SPANKY'S COCKTAILS	20812		BAKER	CASTRO VALLEY
SPEED WAREHOUSE INC	21040		MEEKLAND	HAYWARD
Sprint United Managemnt Co. FN03XC014	16065		Mateo	SAN LEANDRO
STARBUCKS COFFEE COMPANY	20663		RUSTIC	CASTRO VALLEY
STONY RIDGE WINERY	4948		TESLA	LIVERMORE
Stop N Save 108	20570		Stanton	CASTRO VALLEY
SUBWAY	3933	EAST	CASTRO VALLEY	CASTRO VALLEY
SUBWAY SANDWICHES	22085		CENTER	CASTRO VALLEY
SUNOL CORNER	11600		PLEASANTON SUNOL	SUNOL
SWIFT LIFT TRUCK SERVICE, INC	2572		GRANT	SAN LORENZO
T&M LIQUORS	16900	EAST	14TH	SAN LEANDRO
TAQUERIA EL MEZCAL	5	EAST	LEWELLING	SAN LORENZO
THAI GARDEN	20955		MISSION	HAYWARD
THE CHEESE STEAK SHOP (CUPA)	3422		VILLAGE	CASTRO VALLEY
THE DOOLITTLE DRINKS 'N' SUCH	20394		LAKE CHABOT	CASTRO VALLEY
THE MANOR LOUNGE	18250		HESPERIAN	SAN LORENZO
THREE OAKS STORAGE	15725		RAILROAD	SAN LORENZO
TITO'S RESTAURANT	15508	EAST	14TH	SAN LEANDRO
TOGO'S	2731		CASTRO VALLEY	CASTRO VALLEY
TOMSIC CABINET SHOP	576	EAST	LEWELLING	SAN LORENZO
TONY AND TED'S LIQUORS	2688		CASTRO VALLEY	CASTRO VALLEY
TOO GOOD GOURMET INC	2380		GRANT	SAN LORENZO
TOWN & COUNTRY LIQUOR (CUPA)	16244	EAST	14TH	SAN LEANDRO
TRAVELERS INN	17290		FOOTHILL	CASTRO VALLEY
TRUCK TOPS USA	17000	EAST	14TH	HAYWARD
TRUE VALUE HARDWARE	19640		CENTER	CASTRO VALLEY
U.S. CLEANERS	20535		ANITA	CASTRO VALLEY
UNIKAR ENTERPRISES	21480		MISSION	HAYWARD
United #5431	44		Lewelling	SAN LORENZO
UNITED PRO PAINTING, INC.	22345		MEEKLAND	HAYWARD
VALLEY AUTO REPAIR	2769		Castro Valley	CASTRO VALLEY
VALLEY CONVENIENT MINI MART	5285		CROW CANYON	CASTRO VALLEY
VALLEY INN	17130		FOOTHILL	CASTRO VALLEY
VALLEY JAVA	20511		STANTON	CASTRO VALLEY

C.4.b.iii ▶ Potential Facilities List

FACILITY NAME	NUM	STREET DIR	STREET NAME	CITY
VALLEY TROPICALS	5987		MISSION	SUNOL
Vasco Road Landfill	4001	NORTH	Vasco	LIVERMORE
VIDEO PALACE	20966		MISSION	HAYWARD
VILLAGE CAR WASH	15785		WASHINGTON	SAN LORENZO
VILLAGE SHOPPING CENTER	20630		PATIO	CASTRO VALLEY
VITALITY BOWLS	20668		RUSTIC	CASTRO VALLEY
Walgreens #0101	3382		CASTRO VALLEY	CASTRO VALLEY
WALGREENS #3032	15850	EAST	14TH	SAN LEANDRO
WENDY'S	17435		HESPERIAN	SAN LORENZO
WENDY'S OLD FASHIONED HAMBURGERS	2475		CASTRO VALLEY	CASTRO VALLEY
WENTE VINEYARDS-THE COURSE O+M FACI	4280		ARROYO	LIVERMORE
WENTE VINEYARDS-WINE PRODUCTION	5050		ARROYO	LIVERMORE
WESTERN PRECAST INC	5200		DOLAN	LIVERMORE
WESTOVER & PALOMARES WINERY	34329		PALOMARES	CASTRO VALLEY
Wheel Works #240718/8229	15604		Hesperian	SAN LORENZO
WHY NOT?	469	WEST	A	HAYWARD
XTRA OIL DBA CHEVRON	3495		CASTRO VALLEY	CASTRO VALLEY
YOGURT DELUXE	4065	EAST	CASTRO VALLEY	CASTRO VALLEY
ZAMORA MARKET/ CLUB ZAMORA	16020	EAST	14TH	SAN LEANDRO

Section C.5 Attachments

C-5 Complaint Discharge Tracking Table

Complaint/Spill/Discharge Tracking Spreadsheet

[Enter Agency Name]

MRP Requirements *The MRP's Provision C.5.f requires the following: "All incidents or discharges reported to the complaint/spill system that might pose a threat to water quality shall be logged to track follow-up and response through problem resolution. The data collected shall be sufficient to demonstrate escalating responses for repeat problems, and inter/intra-agency coordination, where appropriate."*

Purpose: *The purpose of this spreadsheet is to provide an example "water quality spill and discharge complaint and follow up" tracking method for the ACCWP agencies to adapt for their use starting April 1, 2010.*

1	2	3	4	5	6	7	8	9	10	11	#	13	14	#	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Complaint Information																**Investigation Information**														**Follow Up Information**								
Date and Time of Complaint Receipt		**Source of Complaint** Enter "1" for source of complaint			**Threat to Water Quality**		**Type of Pollutant(s)** Enter "1" for each type reported											**Type of Pollutant(s)** Enter "1" for each type found										**Enter "1" if Discharge Entered Storm Drain and/or receiving water**	Enter "1" if there is nothing needing abatement	**Type of Enforcement** Enter "1" for each type					**Response Times** Enter number of days			
Date of Complaint	**Time of Complaint**	**Public**	**Another Public Agency**	**Own Agency Staff**	**Enter "1" if discharge reported threat to water quality**	**Enter "1" if no threat to water quality**	**Washwaters**	**Sewage**	**Construction Materials**	**Vehicle Fluids**	**Food Wastes**	**Paint**	**Sediment and/or Silt**	**Industrial Wastes**	**Litter and/or Debris**	**Other**	**Date Investigation Started**	**Time Investigation Started**	**Washwaters**	**Sewage**	**Construction Materials**	**Vehicle Fluids**	**Food Wastes**	**Paint**	**Sediment and/or Silt**	**Industrial Wastes**	**Litter and/or Debris**	**Other**	**Nothing Found to Abate**		**None**	**Warning Notice**	**Written Warning/ Notice of Violation**	**Notice to Comply**	**Legal Action**	**Call to Investigate**	**Investigate to Abate**	**Call to Abate**	**Enter "1" if Resolved in Timely Manner**
7/20/15	4:26p	1				1				1							7/21/15	7:00a				1								1	**1**					1	0	0	1
7/21/15	10:19a	1				1								1			7/21/15	2:00p									1			1	1					1	0	0	1
7/31/15	3:47p			1		1				1							8/1/15	8:00a										1		1	1					1	0	0	1
9/9/15	2:29p		1			1		1									9/9/15	3:00p		1										1	1					0	0	0	1
10/21/15	10:54a	1				1				1							10/22/15	9:00a				1								1	1					1	0	0	1
10/23/15	1:17p	1				1				1							10/24/15	9:00a				1								1	1					1	0	0	1
10/29/15	8:56a	1				1		1									10/29/15	9:30p										1		1	1					1	0	0	1
11/9/15	10:30a	1				1						1					11/9/15	11:00a										1		1	1					1	0	0	1
1/12/15	7:20a		1			1		1									1/12/15	2:50p										1		1	1					1	0	0	1
1/29/16	8:43a			1	1					1							1/29/16	10:00a				1							1	1						1	0	0	1
2/26/16	12:58p	1			1						1						2/26/16	2:00p					1						1			1					1	0	0	1
3/3/16	7:39a	1			1					1							3/3/16	12:00p					1						1	1						1	0	0	1
3/4/16	2:00p	1				1						1					3/4/16	8:00a						1						1	1					1	0	0	1
4/18/16	11:03a	1				1				1							4/20/16	8:00a				1								1			1	1		1	0	0	1

Complaint/Spill/Discharge Tracking Spreadsheet

1	2	3	4	5	6	7	8	9	10	11	#	13	14	#	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Complaint Information																**Investigation Information**														**Follow Up Information**								
Date and Time of Complaint Receipt		**Source of Complaint** Enter "1" for source of complaint			**Threat to Water Quality**		**Type of Pollutant(s)** Enter "1" for each type reported											**Type of Pollutant(s)** Enter "1" for each type found										**Enter "1" if Discharge Entered Storm Drain and/or receiving water**	**Nothing Found to Abate** Enter "1" if there is nothing needing abatement	**Type of Enforcement** Enter "1" for each type					**Response Times** Enter number of days			
Date of Complaint	**Time of Complaint**	**Public**	**Another Public Agency**	**Own Agency Staff**	**Enter "1" if discharge reported threat to water quality**	**Enter "1" if no threat to water quality**	**Washwaters**	**Sewage**	**Construction Materials**	**Vehicle Fluids**	**Food Wastes**	**Paint**	**Sediment and/or Silt**	**Industrial Wastes**	**Litter and/or Debris**	**Other**	**Date Investigation Started**	**Time Investigation Started**	**Washwaters**	**Sewage**	**Construction Materials**	**Vehicle Fluids**	**Food Wastes**	**Paint**	**Sediment and/or Silt**	**Industrial Wastes**	**Litter and/or Debris**	**Other**			**None**	**Warning Notice**	**Written Warning/ Notice of Violation**	**Notice to Comply**	**Legal Action**	**Call to Investigate**	**Investigate to Abate**	**Call to Abate**	**Enter "1" if Resolved in Timely Manner**

Summary Discharge Information

Number of discharges reported	14
Number of discharges reaching storm drains and/or receiving waters	3
Number of discharges resolved in a timely manner	14
Percentage of discharges resolved in a timely manner	100%

Summary of Types of Pollutants Discharged

	Washwater	Sewage	Const. Mat.	Vehicle Fluids	Food Wastes	Paint	Sed./Silt	Ind. Wastes	Litter/Debris	Other	Total
Number	0	1	0	5	2	1	0	0	1	4	14
Percentage	0%	7%	0%	36%	14%	7%	0%	0%	7%	29%	100%

Summary of Sources of Complaints

	Public	Another Public Agency	Own Public Agency	Total
Number	10	2	2	14
Percentage	71%	14%	14%	100%

Section C.7 PIP Attachments

C.7.1 Alameda County Resource Conservation District
FY15/16 Final Report

7/31/16 draft

Final Report for Fiscal Year 2015/16

ACRCD Contract C-11979

Submitted by Amy Evans, Resource Conservationist,
Alameda County Resource Conservation District

The Alameda County RCD contracted with the Alameda County Flood Control and Water Conservation District during FY 2015/16 for work to be accomplished on a number of tasks, including:

- Task 1- Hands-On Conservation, an ongoing program of the ACRCD that supports on-the-ground stewardship/education activities for middle school through college age youth, and additional community volunteers. Amy Evans leads this task.
- Task 2- A ongoing multi-faceted, creek-based watershed education program at Palomares Elementary School in Castro Valley that serves the school and wider community. Sherry Johnson leads this education program at the school.
- Task 3- Support for the annual Bringing Back the Natives garden tour (subcontract with Kathy Kramer, originator and operator of the tour).
- Task 6- Support for the Alameda Creek watershed Forum, a watershed group in Alameda County that works to improve the health of the watershed through an informative website, information sharing and enhanced partnerships. Ian Howell leads this task.
- Task 9- Administration of the Community Stewardship Grants program for the Alameda Countywide Clean Water Program. Amy Evans leads this administrative task in collaboration with the CSG workgroup.
- Task 10- Cynthia Butler, RCD staff, works in conjunction with Sharon Gosselin to coordinate the Clean Water Program's Public Information and Outreach Program for the ACFC&WCD and the Unincorporated Area.
- Task 12- Cynthia Butler serves as project manager and reports to Sharon for the update and enhancement of the Google Earth Watershed Map Program for Western Alameda County. This included managing subcontracts, overseeing the research needed for this task, and launching and publicizing the program.
- Task 14- Conservation at Urban Farms Mini-Grant Program, a new project was successfully implemented in FY15 by Susan Ellsworth, AC RCD staff member.

The activities undertaken for these tasks have been organized into the following four sections, which are the same as those in the MRP Section C.7 report:

- Public Outreach Events
- Citizen Involvement Events
- School-Age Children Outreach
- Watershed Stewardship Collaborative Efforts

Public Outreach Events

Watershed Science Expo at Palomares School (Task 2)

The Watershed Science Expo was held at Palomares School, Castro Valley, on Friday 5/20/16, from 8:30-2:30 PM. Local schools in the San Lorenzo Creek watershed attended, along with teachers, principals and many parent volunteers. Students in 39 3rd grade classes from 12 schools in Castro Valley, Hayward and San Lorenzo participated. 1,004 students, 3 principals, 42 teachers, 280 chaperones, and 52 parent/community and PTA members attended and assisted with the event. Sherry Johnson, a retired credentialed science teacher from the school who originated the watershed education program at the school, once again expertly organized and oversaw the Expo.

The watershed education-focused day featured 26 watershed/hands-on science -focused activity stations for 3rd grade students from schools in the San Lorenzo Creek watershed, which includes Palomares Creek. The 15 Expo exhibitors, representing agencies, special districts, colleges and non-profit organizations throughout the East Bay, donated their time to run hands-on activity stations on natural resources and watershed science themes, and learning activities at the creek. Groups of students rotated through the exhibitors' stations during the course of the day. ACRCD staff hosted a "creek critters" station alongside the creek at which students could practice identifying aquatic insects that are typically found in Palomares Creek, and also learn about watersheds and water quality protection by interacting with a watershed diorama.

A highlight of the Expo was the presentation of three consecutive Wildlife Associates outdoor assemblies which feature trained naturalists introducing several wild animals that are native to the area. Every class attending the Expo got to experience the program, which really engages the students in understanding the importance of healthy habitats needed to support the animals.

Another important element of the Expo were the 75 creek tours conducted by the 34 Palomares 3rd-5th grade students who were trained as "Creek Tour Guides" by Sherry Johnson during the Palomares School afterschool program. The Tour Guides also devised and ran 3 water-themed activity stations at the Expo. This is described further in the School Age Children Outreach section below. Palomares teachers also led 8 additional mini-stations at the Expo, with 4th and 5th grade students, with simple, hands-on science activities, to alleviate crowding at peak hours of the Expo.

Students from all six grade levels from Palomares Elementary participated in the Expo activities. Also, all students at the Expo helped pick up litter in the immediate areas surrounding each of the activity stations, and also throughout the campus during the course of the Expo. This effort, developed and led by ACRCD staff as part of their work at the Expo, is described below under Citizen Involvement Events.

Donations of materials for the Expo came from the Castro Valley Sanitary District, stores, small businesses, adult school, and Palomares Parent Club. The Palomares Parent Club organized and presented a lunch for the exhibitors, with most of the food donated.

Classes attending the Expo donated a total of $750 towards the cost of the event. The Alameda County Flood Control and Water Conservation District provide road closure materials and assistance, and once again, parking on an adjacent property was generously allowed by the landowner.

Evaluation: the teachers who received funding from the program to cover the cost of their classes being bussed to the Expo were especially appreciative, saying that they and their classes would not have been able to attend without that support. All 14 teacher responses were positive and cited the hands-on learning, science & creek education, and the fact that the activities were linked to the 3rd grade science standards.

(Unincorporated Area)

Castro Valley Parent University- Resource Fair, a Castro Valley Unified School District-sponsored event (Task 1)

The Hands-On Conservation program was featured at an outreach table at the Saturday 10/17/15 Parent University- an annual parent education and resource fair for Castro Valley parents. Display materials depicted the stewardship efforts of the HOC program at creekside areas in the Castro Valley area at which litter cleanups and habitat enhancement plantings are done. Re-usable containers were also highlighted, especially school lunch options- in contrast to throwaways which contribute to litter around schoolyards.

The resource fair takes place as one busy hour within the full day event that offers multiple workshops and talks for local parents. Approximately 70-80 parents attended the resource fair, with around 25-30 parents and youth group leaders visiting the HOC table, actively inquiring about local stewardship opportunities for youth. 45-50 copies of handouts for the upcoming HOC workday (11/7/15) at nearby BayTrees Park were taken, and custom wildflower seed packs were provided, since wildflower seeding would be taking place on the 7th.

This event is an excellent opportunity to make contacts with Scout and other youth organization leaders for involving their groups in HOC workdays in the Castro Valley area. Definitely worth attending annually, as these are engaged parents who live in the community near our HOC workday sites.

(Unincorporated Area)

Community Service and Volunteer Fair, Logan High School, Union City (Task 1)

ACRCD staffed one of about 15 tables at the Fair, a high school lunchtime event for 100-125 students and teachers, on 3/22/16. Display materials focused on Hands-On Conservation "Creek Care" and anti-littering messages. HOC program staff talked informally with 30 -40 students about volunteer opportunities at the nearby Union City Civic Center Park, a HOC adopted spot in Union City. Students were encouraged to sign up to volunteer for the HOC 4/24 and 4/30 Earth Day cleanup events at the nearby park, and about 80 mini-flyers for the events were handed out to interested students. HOC staff also talked with other environmental organization tablers, and several school staff members who were interested in the program for their students.

This event is an effective venue for publicizing the close-by stewardship opportunities available to students and to inform teachers of the program. Students need to earn Community Service hours and the HOC programs near the school help students with meeting these requirements; the school staff person who manages the Community Service Program also manages the event, so it is an opportunity to thank her for her support of the program over the past 5 years.

(Flood Control District)

Sunol AgPark- on-farm events for the public (Task 1)

The Sunol AgPark hosted two large- scale events open to the public, the Harvest Festival on 9/27/15 and the Plant Sale/ hedgerow workday event on 5/7/16. The AgPark is an organic farm on SFPUC watershed land in Sunol, operated by Sustainable Agriculture Education. The Hands-On Conservation program staffed an activity table at each event, which attracted event participants who learned about suitable native and edible plants for hedgerows, made custom wildflower seed packets and learned how to protect the beneficial insects that visit the hedgerow. The HOC program works with SAGE during the school year, helping to lead service-learning hedgerow planting and monitoring activities to students and community members who visit the farm.

The AgPark Harvest Festival attracted more than 300 people, with the HOC activity table staffed by HOC having 30- 35 visitors, including a number of children, who enjoyed the seed packet project. The AgPark Plant Sale event attracted nearly100 people, and 20 CSUEB students worked in the hedgerow that day. CWP Wildflower seed packets were given out at both events. 15-20 spray bottle labels with non-toxic pest repellent recipes (a CWP give-away) were popular with visitors to the table, as many attendees were interested in non-toxic approaches to gardening.

Kathy Kramer's Bringing Back the Natives Garden Tour (Task 3)

This project is a subcontract through ACRCD. The annual native plant garden tour for the public was held on 5/1/16. Gardens featuring drought tolerant and wildlife-friendly plants were showcased. Kathy provided an annual report to Cynthia Butler with details of the tour and results.

Citizen Involvement Events

Conservation at Urban Farms Mini-Grant Program (Task 14)

The 2015/16 mini-grant program funded a range of water quality improvement practices on urban farms and gardens with a focus on underserved communities. These practices include soil stabilization practices (mulching and cover crop planting), practices to limit application of synthetic fertilizer (enhancement of compost systems, compost creation and application and cover crop), practices to keep rainwater and excess irrigation on-site and out of storm drains and creeks (creation of berms, swales, rain gardens, and rainwater catchment systems), and practices to help minimize excess irrigation and related erosion

and run-off (installation of drip systems, mulching). Additional practices included construction of hedgerows and other native and insectary plantings to support integrated pest management in lieu of pesticides.

The following 7 organizations received mini-grants (with a term of one year) for storm water management and conservation improvements at their urban farm or garden sites. This was an increase of 2 grants from the prior year:

- Acta Non Verba, Oakland
- City Slicker Farm, Oakland
- Eden Gardens, San Lorenzo
- International Rescue Committee's New Roots Program, Oakland
- Fremont LEAF, Fremont
- Tennyson High School Farm and Community Garden, Hayward
- West Oakland Woods Flower Farm, Oakland

The following run-off prevention and conservation benefits were derived from these collaborations:

- Collaborated with 7 farm/garden managers at 8 different sites throughout the ACFCWCD service area,
- Engaged more than 700 volunteers at more than 10 different public events and workdays as well as numerous informal classes, workshops, and meetings
- Anticipated on-site capture of more than 140,000 gallons of run-off that otherwise would exit the farm site to roads, streams and/or storm drains.
- 1100 gallons of rainwater captured through rain barrel systems for re-use.
- Avoided use of more than 1800 lbs of synthetic fertilizer and 20 gallons of liquid fertilizer; one site reduced its N leaching potential by 50%
- 30 cubic yards of compost applied
- Hundreds of native, drought tolerant plants planted as part of hedgerows, berms or other erosion-prevention mechanisms
- Installation or improvement of drip irrigation systems at three sites to replace sprinkler or other less efficient and run-off inducing irrigation techniques.

Other program partners included the USDA's Natural Resource Conservation Service (NRCS), UC Cooperative Extension and Project EAT

Community Stewardship Grants Program (Task 9)

Alameda County RCD administers the Alameda Countywide Clean Water Program's Community Stewardship Grant program. Work began in March 2015 on the 2016 grant cycle, with $27,400 in grant funding being awarded to six grantees. RCD tasks included developing the updated RFP and flyer, publicizing the grant, preparing grant summaries and materials for the workgroup, developing the agreements, making payments, providing reports to the PIP committee, providing information on the grant projects for the CWP/CSG webpage and answering grantee questions; all of these activities were done in close coordination with the CSG workgroup. Projects from the 2015 cycle were completed.

Youth Stewardship - Hands-On Conservation (HOC) (Task 1)

The Hands-On Conservation Program provides opportunities for outdoor stewardship activities for young adults of middle school through college age to increase knowledge of natural resources and protection of watersheds through hands-on activities that include water quality improvement activities at local creeks, stewardship education and creek side habitat restoration. Activities include age-appropriate elements of watershed education and career development; these are described in the School-Age Children Outreach section.

Hands On Conservation workdays are publicized at the www.handsonconservation.org website, which also features event registration and liability waiver form downloads.

The HOC workday sites at which plantings have been installed and trash cleanups done have been formally adopted through the ACFC&WCD Adopt A Creek/Spot program. In addition to the workdays with volunteers, the adopted spots are maintained by HOC staff on a regular basis, and coordination with the site landowner occurs on a regular basis. Over the past three years, however, the ongoing drought has somewhat impacted the habitat restoration planting element of the program. Part time HOC staff members help with HOC program events and workdays when a large turnout of the public is expected.

HOC staff continued to develop and maintain partnerships and co-host events with other groups such as Earth Team, the Friends of San Lorenzo Creek, the Alameda Creek Alliance, Sustainable Agriculture Education, agency landowners and others, in order to enhance the offerings of the HOC program.

Activities during 2015/16 included these events:

Union City Civic Center Park, Union City (Task 1)

This is an adopted spot through the ACFC&WCD Adopt A Creek/Spot program. The park features a flood control channel with an adjacent paved walking trail that extends beyond the park, following the channel 1/8 mile to Alameda Creek. The site is very close to Logan High School, which is a primary source of volunteers for the Hands-On Conservation workdays.

Workday activities included trash removal from creek banks, planting and maintaining irrigation for native plants in a creek side trail area, applying mulch around plantings, invasive plant removal, and litter/ trash cleanup along the creek trail and throughout the park. A "Monarch Habitat Trail' was initiated this year in conjunction with Union City Parks and planting milkweed therefore became an important new activity at the site. Students from Logan High School, Boy and Girl Scouts, and Cesar Chaves Middle School and other students and community volunteers participated. At the start of each workday, HOC staff briefed the volunteers on safety measure and the importance of reducing litter and other pollutants that impact local creeks.

Coordination was maintained with Union City Parks staff to maintain tools in the shed at the site and to provide plants, trees and wildflower seed for planting at the site. Previous plantings continue to be maintained with weeding, mulching and irrigation gel replacement. Coordination was maintained with Logan High School teachers and the school volunteer/career center to notify students of volunteer opportunities and to confirm student volunteer credits.

Workdays at the adopted spot in 2015/16 include:

-1200' linear feet of creek banks along park trails cleaned (5 times =6000') of litter and debris. Many native trees and milkweed plants were planted on Make A Difference Day and Earth Day along park trails next to the channel, with trees being provided by the city.

-Coastal Cleanup Day held on Sunday 9/20/16 included a middle school class, with approximately 35 volunteers total for the day. The Alameda Countywide Clean Water Program's "Luv the Bay" pledge was taken by several volunteers and posted at the website. Volunteers collected litter from the creek banks, creek trail and park trails.

- Two Earth Day events (4/24/16 and 4/30/16) each attracted over 30 volunteers, including Girl and Boy Scouts and a church group.

-Make a-Difference Day attracted 40 including a class of enthusiastic middle school students from Cesar Chavez Middle School and their teacher and chaperones.

-Martin Luther King National Day of Service on 1/18/16 had 15 volunteers, with additional support from Union City Parks staff and a City Council member for the milkweed and tree planting. Volunteers included high school students and local residents, several teachers, and members of a youth group.

Total trash/recycling volume: 2.5 cu yds of trash, litter and recyclables were gathered at this site. Recyclables that were not muddy or contaminated were recycled, and Union City parks hauled the trash away. In addition to the bags there was approximately 1/2 cu yd of bulky items gathered between the three cleanup events.

This partnership is an excellent arrangement for workdays, due to support from Union City Parks and the proximity of the high school to the site. Workday participation is best when groups of volunteers come with their leaders, or classes of students come with their teachers. "Creek Care" practices were introduced informally to volunteers as they worked to engage them in the process of improving creek side habitat and water quality in their neighborhood creeks. The duck pond in the park and adjacent flood control channel in the park provide opportunities for pointing out stormwater pollution impacts and some mitigating efforts to improve the water quality for the wildlife that live there year round.

Volunteers each received reusable CWP shopping bags and/or CWP items such as spray bottle labels or mood pencils.

(Flood Control District)

Sunol Agpark Hedgerows, Sunol (Task 1)

Stewardship workdays were held in Sunol at the Sunol AgPark, an organic farm located along the edge of the Arroyo de la Laguna. Students and community volunteers planted native and drought tolerant flowering plants, herbs and wildflowers in the hedgerows, removed invasive plants and weeds, and applied mulch. T he hedgerows provide habitat for pollinators and beneficial insects which directly support the farm's organic program. Volunteers also helped with creating and installing plant signage/labels.

HOC assisted with the planting workdays as well as explaining to workday participants the connection between farm and creek and the conservation and stewardship practices that

are applied at the farm to protect natural resources.
Hands-On Conservation co-led and provided tools and equipment for several workdays in collaboration with Sustainable Agriculture Education (SAGE).

2015/16 workdays included:
-On 7/24/15, HOC co-led a workday with 30 volunteers from a corporate group at which the creekside hedgerow was the focus. Mulch was applied around native plants in the grass filter strip to prevent sediment-laden runoff from the farm fields from entering the creek corridor.
-HOC assisted SAGE staff with leading service learning hedgerow workdays for 3 classes of Head-Royce School Middle students on 10/9/15, 11/13/15 and 3/4/16.
-On 6/7/16, 20 International High School students from Oakland worked at the hedgerow; this was a group of immigrant English language learners, so the program was modified to accommodate their needs. The students were enthusiastic workers, however.
-On 9/23/16 a group of 30 students from Menlo School worked at the hedgerow.
-The "Alternate Spring Break" program for U.S college students brought 7 volunteers on 3/25/16; this was to have been a much larger group, but they had last minute transportation issues so could only send 7 students. They were a big help with spring weeding and very interested in the hedgerow as a conservation practice that supports sustainable agriculture. We hope to get a larger group next year.
-On 5/7/16 a group of 20 volunteers from nearby CSU East Bay worked in the hedgerow despite afternoon rainy and windy conditions during the AgPark spring Plant Sale. The plant labeling activity was reduced in scope due to the conditions.
-At several Hedgerow maintenance work sessions with RCD and SAGE staff, irrigation line assessment and repair and plant monitoring was done in prep for subsequent workdays.
-The HOC program tabled at two AgPark events, the Harvest Festival on 9/27/15 and the Plant Sale and hedgerow workday event on5/7/16. These are described above under Public Outreach Events.
There is a high level of interest in local, sustainable agriculture among young people, as well as environmental awareness and desire for active participation in stewardship; this site represents the melding of the two and is thus of great interest to teachers for bringing students and for community volunteers.

(Unincorporated and Flood Control District)

Bay Trees Park "Creek Care" workdays, Castro Valley, Hands-On Conservation
"Creek Care" workdays continued in Bay Trees Park, an adopted spot of the Hands-On Conservation program; stewardship activities reflected the actions that residents can take to protect creeks and enhance wildlife habitat around them. High School students and community volunteers worked to repair bender board at the site, planted and monitored native plants, removed weeds, spread mulch, refilled Driwater tubes (irrigation method) and cleaned up trash along the creek trails in the park. The ongoing drought has reduced the ability to continue planting intensely at the site, hence fewer plants installed this year, with a greater focus on wildflower seeding and milkweed plantings for the resident Monarch butterflies.

Several site maintenance workdays were held at which trees and shrubs were pruned to reduce fire hazard and increase visibility through the plantings for security. Trees planted five years ago are now 20 feet tall and no longer need irrigation; the plan to establish a canopy of native trees at the site has been accomplished… this is very inspiring to the volunteers. Also, shrubs have matured and are now providing seeds and berries to resident birds- another result of the project.

FY 2016 workdays:

-On 11/7/15 a group of 18 volunteers including Boy Scouts and their parents, and various community members planted native milkweed plants, laid down erosion control fabric and seeded wildflowers, replaced DriWater, and cleaned up litter.

-On 3/19/16 a workday was held with 20 students from Castro Valley/Dublin area high schools. Weeding was the primary activity but a litter cleanup was also done.

CWP reusable trash bags were given to volunteers.

Several site maintenance staff workdays were held at which trees and shrubs were pruned to reduce fire hazard and increase visibility through the plantings for security. Bender board along trails was repaired or removed where necessary due to tripping hazard, as park users apparently run down the slopes. Coordination with park maintenance staff was maintained to improve access to irrigation water for the project.

Trash total: A total of approximately 1.5 cubic yards of trash, litter, and recyclables were gathered at this site. Recyclables that were not muddy or contaminated were recycled, and park staff took the trash and the bulky trash items.

(Unincorporated Area)

HOC in collaboration with EarthTeam

San Lorenzo High School - Litter Assessments and Cleanups with HOC and EarthTeam

HOC collaborated with Earth Team to support three workdays. Students met at the San Leandro Marina on 2/16/16 and 2/20/16, and at Weekes Park, Hayward on 5/17/16.

Students planned the litter cleanups and performed litter assessments, then conducted the litter clean-ups on the 20th and 17th. A chalk art installation was also performed by the students on the 17th to bring attention to the underground creek at Weekes Park.

An average of 15 Students participating per event worked to clean up approximately 1 cu yd of litter from the two sites, and they recycled a portion of that. The Saturday clean up at the San Leandro Marina Park was highly visible to park visitors with many trail walkers commenting positively on their work. Clean up results were tallied by student leaders for the day and reported to Zero Waste.

The HOC Program has been collaborating with the San Lorenzo High School students in annual stewardship events with shared leadership by EarthTeam for five years, and it allows both programs to provide a stronger program, so is very beneficial to all. There is an emphasis at EarthTeam on developing student leadership skills, which fits well with our HOC workdays. HOC provided clean up equipment, mentoring on litter cleanup safety, and info sharing on the watershed at the two clean up sites.

Students publicized their efforts on their blog and through their social media outlets. The

Earth Team organization provided the transportation for the students and facilitated the student-led work for the cleanup and art efforts. EarthTeam has an excellent youth program, and is developing knowledgeable, responsible articulate leaders in the environmental stewardship field at San Lorenzo High School. HOC collaboration with them enhances both programs, and the partnership will continue in FY 2017.

Castro Valley Creek, "Creek Care" workdays, Castro Valley- (Task 1)

Workdays at this location, a highly visible daylighted and restored urban creek adjacent to the community library, which features a widely used creekside trail with interpretive signage and native plantings attract many community members who appreciate the small but beautiful riparian corridor in the heart of downtown Castro Valley. HOC cleanups are done in collaboration with partner organizations, including Friends of San Lorenzo Creek.

It appears that repeat cleanups, at least 3- 4 per year are needed in order to effectively handle the load of litter and accumulation of homeless belongings which gradually build up in the creek channel and along the trail. Cigarette butts are also a problem at the trailside benches, and typically several volunteers focus on these areas at the workdays.

Two HOC cleanups were held in FY2016, and one was carried out as part of a pilot stewardship and education activity led there by HARD staff, a project that HOC advised on and which was managed by Cynthia Butler (Task 10).

-The annual Earth Day creek/trail cleanup event was held at Castro Valley Creek along the trail that extends from the Castro Valley Library to Castro Valley Blvd. on 4/23/16. The creek trail was cleaned up, invasive plants removed and native riparian plants along creek side trail were maintained. Approximately 1000 linear feet of creek bank and trail was cleaned up by 24 student and community volunteers and 6-8 citizens doing community service under county supervision. Bags of litter and recyclables were collected as well as bulky items from small homeless encampment spots. Several large bags of invasive plant material was also removed from the creek banks. Two cubic yards of wood chips were brought in for the event and applied as mulch on the planted areas paralleling the creek trail, which were also weeded.

The Earth Day event included other involved agencies, especially County Supervisor Nate Miley's office, Castro Valley Sanitary District, the local group Friends of San Lorenzo Creek; and Alameda County Flood Control and Water Conservation District, which picked up the bags of trash. A pre-cleanup informal presentation was given by the Friends group on the creek restoration that had taken place at that spot. The Hands-On Conservation program provided tools and equipment and lead groups of volunteers. The Earth Day cleanup at this spot is the Friends of San Lorenzo Creek's primary annual service project, and they express appreciation for the help from the Hands-On Conservation program.

-A Coastal Cleanup Day workday was held on the official day 9/19/16 in conjunction with Friends of San Lorenzo Creek, with 24 volunteers, during which the creek trail and bioswale areas around the library were cleaned up and weeded, and the opposite side of the creek as well, which gets a significant load of trash from the adjacent parking lot. The trash totals were reported to the coastal commission immediately after the event as part of the Coastal Cleanup Day statewide count. They also publicized the event on their website, resulting in a large turnout of community members.

Trash total: approximately 3.5 cubic yards of trash, litter, recyclables and bulky items were

gathered at the site. Recyclables that were not muddy or contaminated were recycled, and Alameda County Flood Control and Water Conservation District hauled the trash, bulky items and plant material away immediately after the event. Plant material was composted.

(Unincorporated Area)

Earth Day Cleanup at Palomares Creek and School, Castro Valley (Task 2)

A school campus, creek and trail maintenance day was held as part of the Castro Valley Earth Day event on 4/23/16. 57 parent volunteers, students, teachers and community members worked at the school to clean up the campus, apply mulch, to clear debris and provide erosion control along the trail, remove invasive plants and poison oak in preparation for the school's 5/20/16 Watershed Expo event. Approx. 400-500 linear feet of creek area/ trail was improved.

Trash total: 1 cubic yard. Recyclable materials were gathered separately and placed in recycling bins on campus.

(Unincorporated Area)

"Creek Care" stewardship workdays (Task 1)

Alameda Creek, Niles Canyon Roll and Stroll Event, Niles (Fremont)

The Hands-On Conservation program conducted a "Clean Creeks Team" litter cleanup of the 6 mile long canyon's roadsides during a one-time road closure of Niles Canyon Road (state route 84) for a bike and hike thru the canyon event on 10/11/15. HOC staff started at the west end of the canyon, moving along with a wagon to contain the bags of litter as it was picked up. Alameda Creek Alliance (ACA) organization started from the east end; through this collaboration the entire roadway was cleaned up over a 5 hour period.

Many walkers and bicyclists remarked to the volunteers who were picking up the litter on need for the cleanup and expressed appreciation that it was being done that day. ACA provided educational materials to participants as to protecting creek habitat for native fish in Alameda Creek, and HOC had a mini-flyer handout on the" Clean Creeks Team" and also info on how to safely pick up litter. The event was initiated and strongly supported by the Alameda County Board of Supervisors, East Bay Regional Park District and the local water districts ACWD and SFPUC. ACFC&WCD collected the trash at the end of the event. It was a very well organized large-scale event, with an estimated turnout of 15,000 people, primarily bicyclists and families. 20-25 people volunteered briefly in litter pick up or volunteering with the ACA. , in regard to the roving litter cleanup; this includes Alameda Creek Alliance member volunteers.

Excellent opportunity to interact with public and demonstrate stewardship.

Debris/ trash approx. 1 cu yd. Litter and recyclables (in bags) total volume: 2.5 cu yds (includes ACA bags collected)

Countywide event.
(Flood Control District)

School-wide Trash Cleanup by students at Palomares School Watershed Science Expo (Task 2)

A school wide Campus Trash Cleanup was held during the Palomares Watershed Science Expo on 5/20/16 (Expo described above under Public Outreach Event). The trash pickup activity was done by groups of students, exhibitors, teachers and volunteers at each of the 26 stations during the day. Each activity station was given a trash bag with instructions for the exhibitor to have each group of students pick up trash from the area surrounding their station on the campus. Trash was collected at the end of the day from each station and recycled by a team of Jr. Naturalists. The campus and creek area was left clean at the end of the Expo. A storm drain is situated in the schoolyard, which leads directly via a short pipeline to Palomares Creek, so cleanup is critical. The storm drain pipe outfall at the creek was pointed out to students at the "Creek Critters" activity station alongside the creek.

Trash total: .015 cubic yards of litter and recyclables was gathered by all in attendance at the Expo

(Unincorporated Area)

Planning for new FY2017 HOC workdays

Planning began in spring 2016 for several new HOC workdays to be held in fall 2016:

-Logan High School on-campus stormdrain planting demonstration: will be conducted as an afterschool HOC planting project to demonstrate use of plantings increasing runoff infiltration and reducing erosion in the vicinity of a stormdrain.

-Plummer Creek, Newark: litter cleanup and tree planting in Newark in conjunction with Newark Parks Foundation; assessed creek segments to find appropriate clean up spot and tree planting areas. Community workday scheduled for 10/8/16. A map will be created that shows the Plummer Creek watershed and potential clean up areas with public access, in order to develop awareness and interest in the health of the creek.

- Collaboration with Green Streets Project, Union City: now planning with HOC a water quality testing demonstration with Logan High School students and city staff at new retention planters at streets adjacent to Logan High School, as afterschool HOC event in Fall 2016.

School-Age Children Outreach

Hands-On Conservation (Task 1)

The Hands-On Conservation Program provides opportunities for outdoor stewardship activities for young adults of middle school through college age to increase knowledge of natural resources and protection of watersheds through hands-on activities that include water quality improvement activities at local creeks, stewardship education and creek side habitat restoration. Activities include age appropriate elements of watershed education and career development.

See the above sections of this report for specific information on 2015/16 HOC workdays and outreach events.

The education-related aspects of the Hands-On Conservation program include:

HOC and partner organization staff communicate with volunteers during the workdays, in two different ways: at the start and conclusion of each workday volunteers are educated

in the goals and reasons for undertaking the stewardship project, the watershed protection strategies being employed, and the positive impact that the day's work will have. Throughout the events, more informal conversations are had with volunteers to discuss these themes and also the particulars of the stewardship practices being employed during the project. The impact of litter on creeks, lakes and wetlands is a topic that greater attention is given to, which is reinforced as the litter is being picked up during stewardship workdays. Career and education information is also passed on in relation to the level of interest of the group or individual volunteers.

Palomares School Watershed Education, Castro Valley (Task 2)
Through this program, hands-on, site- specific creek and watershed lessons are taught to Palomares students and to classes from schools in the San Lorenzo Creek watershed. Palomares Creek, which flows along the edge of the school campus, was restored by the Alameda County Flood Control District and other partners in 2000-2001. A creek side trail and outdoor classroom area was also developed at that time. A curriculum that met state standards was developed for the program, and it continues to be utilized by Sherry Johnson, a credentialed teacher and ACRCD staff member. Biweekly creek science lessons are taught at the school, and after-school programs include Junior Naturalists and Palomares Creek Tour Guides; these are discussed below.
One of the elements of the program that involves public participation, the campus-wide cleanup on Earth Day, is covered in that section above. The Palomares School Watershed Expo event is discussed under the Public Outreach Event section above.

(Unincorporated Area)

Bi-Weekly watershed and creek science lessons during the school day at Palomares School (Task2)
-School day creek and watershed lessons were conducted between September and June in the 2015/16 school year for Palomares students in K-5th grades. 108 watershed-based lessons were taught to classes of 24-32 students (1st-5th grade) at the school campus by the credentialed teacher and watershed educator Sherry Johnson. Creek lessons are part of regular science instruction during the school day and meet state standards. Numerous visits are made to the creek for hands-on lessons to reinforce classroom learning. Topics cover water quality studies, creek ecology, soil/geology, wildlife and plants, and bird life in relation to the creek and larger San Lorenzo creek watershed.

-Led by Sherry, the following activities were the focus for the 2016 school year: hands-on stewardship activities by Palomares students at all grade ranges were prioritized, including installation of campus plantings of native plants and grasses and application of erosion control materials (4th and 5th grades), invasive plant removal (3rd,4th and 5th grades),improving soil in gardens on campus (2nd and 4th) pollinator garden planting (1st grade), butterfly gardens (2nd grade), wildflower seeding on campus (K-3rd grade) continued to be done at the Palomares campus by the students, led by Sherry. 5th graders monitored water quality and reported results to World Water Monitoring day. 3rd graders also raised tree frogs in their classroom and began to study local birds.

-A CA Dep't. of Fish and Wildlife "Trout In the Classroom" program again took place this year at the school; 1st and 3rd grade students raised and released fingerling trout at a nearby lake; other classes at the school visited the fish in the classroom and learned about their care and ecology. Professionals from CA Dep't of Fish and Game oversee the project, and Mission Peak Fly Fishers Assoc. members assist and teach. The program engaged 75 Palomares students and 3 teachers.

-The Palomares School principal and teachers consider creek lessons to be a part of their regular science instruction, since creek lessons meet state standards. The creek lessons are featured at an annual presentation to the Castro Valley School Board by the school's teachers, and for the Palomares Open House. Many parents have their children attend this school because of the creek studies program.

This year the Palomares Watershed and Creek Science programs and the Science Expo were a key part of the school application for the Gold Ribbon School Award, which they received.

(Unincorporated Area)

Palomares School after-school programs

A Junior Naturalists after school program for 46 1st-5th grades and a Creek Tour Guides program for 34 3rd-5th graders was held between April and June 2016. They are open to Palomares School students and other schools in the watershed. The program is conducted at Palomares Creek on the school campus at the end of the school day and features hands-on activities that cover water quality studies, creek ecology, conservation activities and stewardship. Tour Guides learn content and methods for leading creek tours at the annual Watershed Expo- and this year led 75 tours. The Tour guides also led 3 activity tables with a creeks theme at the Expo, and the Jr. Naturalists helped with separating the recyclables at the Expo campus litter cleanup.

Two Palomares teachers lead the two after-school programs, and 6 parent volunteers assisted them. The Jr. Naturalist and Tour Guides programs were highlighted at the Palomares Elementary Open House event in May and at an annual presentation to the Castro Valley Unified School District Board of Directors.

(Unincorporated Area)

Palomares School –creek program outreach to community (Task 2)

Sherry Johnson utilizes creek studies materials and expertise from the Palomares program to share with other entities in the watershed who wish to do hands-on learning about creek life and restoration. This is an efficient and appreciated use of the learning resources that have been developed over the years.

Activities included:

-12 Palomares Tour Guides and Sherry Johnson demonstrated creek activity stations for a

team of visiting summer school teachers on 5/26/16. The tour guides were able to share what they had learned about the watershed and the plants and animals that live there. Visiting teachers were able to determine how to better develop their lessons for summer school.

-The science program at Washington Middle School (San Lorenzo) borrowed and utilized Palomares creek program materials during the week of May 9th 2016 for a field trip to Samuel Taylor State park; water quality testing and other creek investigations were done by students there. 305 students participated in the field trip, along with 6 teachers.

(Unincorporated Area)

Additional information on Contract Tasks 10, 12

Task 10 Storm Water Information and Outreach Assistance

Cynthia Butler, RCD storm water outreach coordinator, works in conjunction with Sharon Gosselin as the Alameda County Clean Water Program Outreach and Public Information Coordinator.

Cynthia's activities include leadership and workgroup activities with the PIP subcommittee, coordination of outreach events and materials, communications activities and event planning, hiring and managing RCD interns to assist with public outreach event staffing and program support and managing outreach projects in coordination with Sharon and Gigantic Ideas Studio for the Flood Control District and Unincorporated Area Clean Water Programs. Cynthia is responsible for reporting on Public outreach and Education for the MRP; her activities are covered in those reports. Cynthia collaborates with various RCD staff in implementing her projects.

Task 12 Interactive Watershed Maps

Cynthia Butler also manages Task 12. In FY16 she completed the task, which involved the development of an interactive watershed map based on Google Earth, two subcontracts to assist with the project, coordination with Flood Control District website consultants who prepared the documents for posting on the county website, and hiring and overseeing staff who wrote and edited watershed information for the map and website. The interactive watershed map project was successfully launched and publicized. Work on integrating the use of the map program with existing youth environmental education programs, and maintaining the information and links on the watershed information pages is ongoing.

Watershed Stewardship Collaborative Efforts

Alameda Creek Watershed Forum (ACWForum) (Task 6)

The objective of this task is to enhance partner coordination, knowledge, and effectiveness, in ways that help improve Alameda Creek watershed conditions.

Work under Task 6 supported the activities of the ACWForum, a watershed group in Alameda County. The group's website is www.acwForum .org, through which ACWForum members can post project and stewardship event information and from which a quarterly

e-newsletter is sent.

acwForum Activities FY2016

Technical symposium 1/26/16 Synchronizing watches: Working smarter—together—to bring grant dollars to Alameda Creek Watershed, @ Castro Valley Library

- Participation: 34 including 3 guest presenters and special moderator, Carl Morrison. Attendees included acwForum signatory member agencies, agency staff, the public, local organizations, researchers, and students.
- Topics: Overview of federal, state, and local grant opportunities that support watershed restoration, stewardship, habitat enhancement, etc. (Carl Morrison, Zone 7; Morrison & Associates). Special presentation of State Coastal Conservancy's Bay Program and Prop 1 grant funding (Kelly Malinowski, SCC). Grant-writing tips and technicalities (James Muller, SFEP).
- Break out groups discussed: (1) types of projects/planning/programs that need grant funding; (2) challenges to securing grants; (3) potential partners for grant proposals and funded work; (4) sources of matching funds; (5) ways to support the acwForum as an information-sharing component of grant proposals.
- Event planning conducted with Steering Committee members. Feedback received from participants via break out group worksheets.

ANNUAL CONFERENCE Postponed until fall 2016.

Steering Committee: Email communication throughout the year. Teleconference meetings held in October and March to plan the winter technical symposium and spring/summer conference, respectively. State of the Watershed model developed for consistent annual conference scheduling and content development. In person working meeting held 6/30/16 at Castro Valley Library to review activities of the past two years and to discuss support for a large county-wide watershed symposium in 2017. Steering committee agreed to regular meetings to plan events and explore topics such as the Alameda Creek Watershed Council goals and Letter of Understanding. Increased interest from signatory agencies to participate on the steering committee. Anticipate input from LARPD, RWQCB, ACWD, and EBRPD in FY2017, as well as continued participation from ACFC&WCD, ACRCD, City of Fremont, City of Livermore, SFPUC, Zone 7

Website: www.acwForum.org used for calendar updates & information sharing. Website upgrades sub-contracted to GreenInfo Network. Enhancements: rotating photos from across the watershed, improved document management for Calendar event attachments. Functional upgrades: text editing glitches resolved. Newsletter sign-up functionality corrected. ACRCD staff added eight project descriptions to the Projects page, and identified a list of potential projects from stakeholder agencies to be reviewed and verified before uploading in FY2017.

Newsletter: Forum Highlights e-newsletter released quarterly. Contents include: upcoming events, highlights of acwForum events, compilation of litter cleanup results within the watershed for Coastal Cleanup Day and Earth Day-related activities, tools and information for restoration and water conservation, and recognition of individuals making a difference in the watershed. Writing contributed by acwForum stakeholder agencies for some pieces.

Outreach: e-mail list updated regularly to include new contacts who sign up via

www.acwForum.org and at events.

-acwForum activities were utilized as match/leverage for ACRCD's USEPA Healthy Watersheds grant, which focuses on application of BMPs in the Alameda Creek Watershed to reduce non-point source pollution.

Report submitted by:
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Section C.10 Attachments

C.10 Alameda County West TMA/Full Trash Capture Map
C.10 Alameda County East TMA/Full Trash Capture Map
C.10 Large Full Capture Devices Prioritization Trash with Reduction Estimates

Attachment C-10

County of Alameda
Action Plan and Schedule to Reach Attainment of MRP 2017 Trash Reduction Requirement

Background
The County hired consultant EOA to assist with evaluating and refining as needed the County's Baseline Trash Generation Rate (TGR) map. EOA and County staff work together to conduct field observations throughout the Alameda County Unincorporated Area, covering 90% of very high, high, and moderate identified TGR areas. As a result of extensive field observations and refinement of TGR areas, EOA completed revisions to the County Baseline Trash Generation Rate Map. As a result of the revisions made to the Baseline Trash Generation Rate Map, the County revised all TMA's. (See County of Alameda2015-16 Annual Report C.10. Attachment Alameda County East TMA/Full Capture and Alameda County West TMA/Full Capture maps).

Due to the changes in the TGR map and TMAs, the County developed a new full capture strategy. Working with EOA, the County identified, verified, and prioritized top locations for larger "in-line" devices (please see County of Alameda 2015-16 Annual Report C.10. Attachment Potential Large Full Capture Devices") and identified and prioritized location for smaller, insert full-trash capture devise.

Current Action Plan
The County's Long Term Trash Reduction Plan still mainly relies on the installation of full trash capture devices to meet its long-term trash reduction goals.

In FY 16/17, the County is installing in-line full-trash capture devices in the three highest priority area that will completely capture all of the area in TMA 1 and TMA 2. Sites have been identified and verified. The two TMA 2 device installations are currently in the initial design phase and the device installation design in TMA 1 is being initiated. Installation on these three devices will result in a 62% jurisdiction wide trash reduction.

Full Capture Area	Low Acres	Mod Acres	High Acres	Non-Juris Acres	Total Catchment Acres	Weighted Acres	Weighted Acres of Credit	Percent Juris-Wide Reduction
Coelho Dr Behind Theater	509.7	99.9	74.5	385.2	1069.2	397.8	397.8	12.6%
East 14th/Ashland	371.7	121.3	135.4	94.3	722.6	662.7	662.7	21.0%
Meekland/Paseo Grande	47.1	219.5	166.4	195.1	628.1	885.1	885.1	28.0%

(Please see County of Alameda 2015-16 Annual Report C.10. Attachment Alameda County East TMA/Full Capture and Alameda County West TMA/Full Capture maps show and note that the "planned full trash capture" is depicted with a solid blue line and spotted shaded area.)

In addition to the three in-line devices and the 37 inlet devices already installed, the County will install in 2016/17 more inlet device in areas of TMA 4 and TMA 6 determined most unlikely to have an in-line device installed. While we have identified and prioritized locations for smaller, insert full-trash capture

devise, we will delineate the drainage area once we have selected the sites for insert full-trash capture devise installation.

The County has committed funds in FY 16/17 for the purchase, design, and construction/installation of the three in-line full-trash capture devices. In addition to the three in-line devices and the 37 inlet devices already installed, the County will install in 2016/17 more inlet device in areas of TMA 4 and TMA 6 determined most unlikely to have an in-line device installed. While we have identified and prioritized locations for smaller, insert full-trash capture devise, we will delineate the drainage area once we have selected the sites for insert full-trash capture devise installation.

While the County still plans to use full capture devices in TMA's 3, 4, 5, 6 and 7, we intend to use the cost information from the 16/17 in-line projects to evaluate whether to use in-line or inlet device in the more moderate areas.

Through the County's C.4. Industrial/Commercial Site Control Program, we are developing and implementing a policy that will require industrial/commercial retail establishment to install and maintain a full trash capture device in any outlet that is directly connected to the County's MS4.

The County's expanded Trash Bag Ban will go into effect in May 2017. The County's Polystyrene Ban remains in effect.

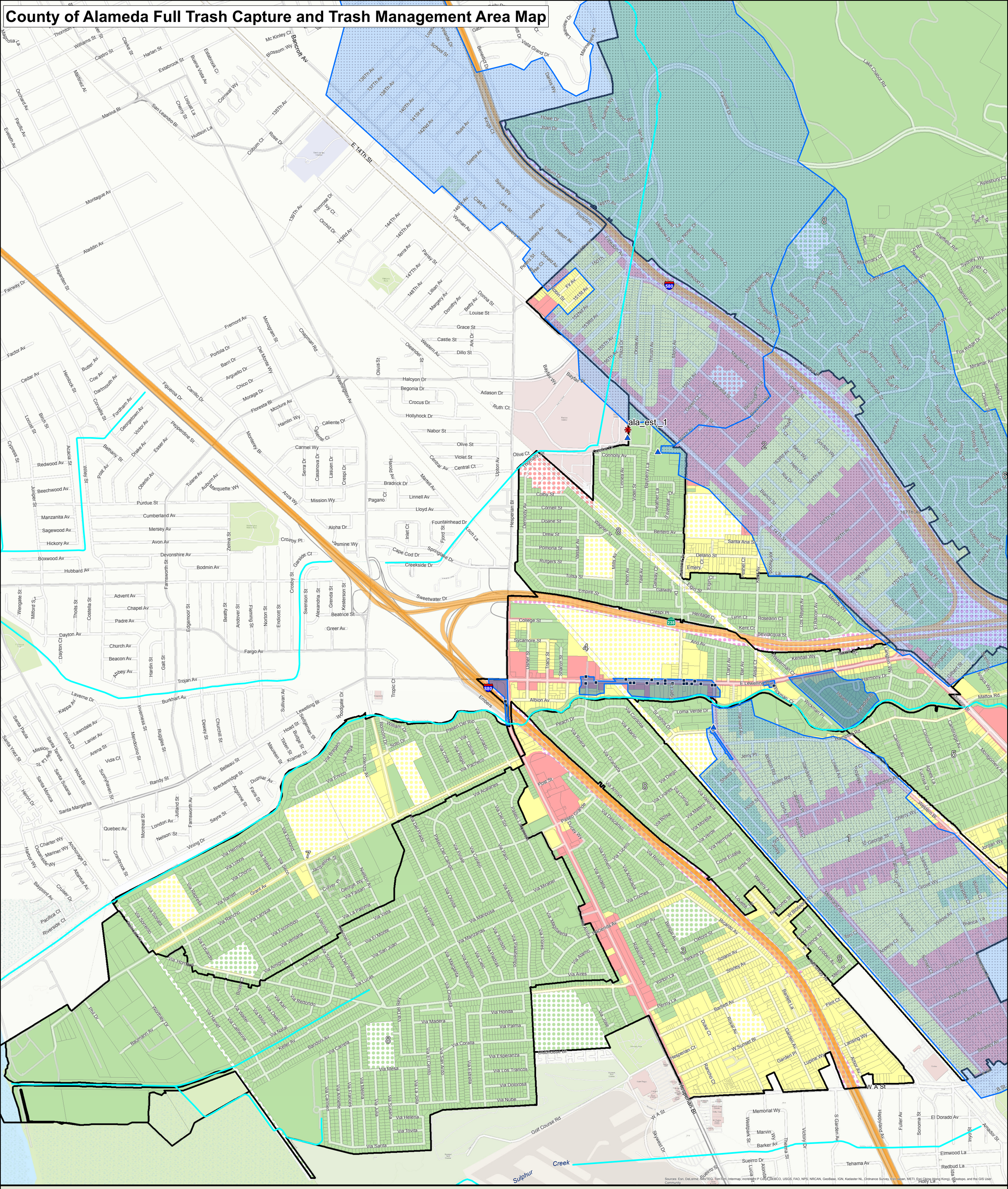
Trash Load Reductions with Planned Actions:	
Percent Trash Reduction due to In-line Trash Full Capture Systems	61.6%
Percent Trash Reduction due to Insert Trash Full Capture Systems:	3%*
Percent Trash Reduction due to Jurisdictional-wide Source Control Actions	10%
Total for Above Actions	74.6%*

*total does not include additional inlet devices that will be installed in FY 16/17

Schedule

Key Milestones for "In-line" Full Trash Capture Install Completion	**Date**
Three "in-line" device design finalize	January 6, 2017
Board of Sups for action to advertise	January 24, 2017
Advertise for installation construction	Thru March 3, 2017
Bid opening	March 6, 2017
Award contract	March 28, 2017
Construction begins	April 17, 2017
Construction final	May 26, 2017

County of Alameda Full Trash Capture and Trash Management Area Map



Legend

Trash Generation Category

- Low
- Moderate
- High
- Very High

- Creek/Shoreline Hotspot
- Full-Capture Location
- Planned Full-Capture Location
- Full Trash Capture
- Planned Trash Capture
- Trash Management Area
- Non-Jurisdictional (Dot color = Generation Category)

- Streets
- Freeway
- Creeks
- Parcel Boundary

N

0 0.15 0.3 0.6 Miles

Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

Data Sources:
Roads: Alameda County
City Boundaries: Alameda County
Creeks: Alameda County
Parcels: Alameda County
Background: ESRI World Topographic Map

Map Created By:
EOA, Inc.

Date:
September 28th, 2016

County of Alameda Full Trash Capture and Trash Management Area Map

ala_cas_1

ala_san_1

ala_san_3

Legend

Trash Generation Category

- Low
- Moderate
- High
- Very High

- Creek/Shoreline Hotspot
- Full-Capture Location
- Planned Full-Capture Location
- Full Trash Capture
- Planned Trash Capture
- Trash Management Area
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Table 1. Large Full Capture Devices Prioritization Trash with Reduction Estimates

Potential Large Full Capture Device	Priority	Recommended Priority Order	Low (acres)	Moderate (acres)	High (acres)	Total (acres)	Weighted Acres	Average Trash Rate	Percent Jurisdiction Wide Reduction	Non-Jurisdictional and Existing Full Capture Areas (acres)	Total Catchment Area (acres)	Extra Credit from Non-jurisdictional Schools (wa)	Total Weighted Acres including schools	Average Trash Rate with Schools	Percent Jurisdiction Wide Reduction with Schools	Notes
Meekland/Paseo Grande	High	1	47	219	166	432	883	1.41	27.85%	196	628	8	891	1.42	28.09%	Treats some Hayward areas
East 14th/Ashland #1	High	2	371	121	135	627	662	0.92	20.89%	94	721	1	663	0.92	20.90%	Would need to treat two large culverts that meet here
East 14th/Thrush #1	High	3	1	29	57	87	257	2.79	8.10%	5	92	20	277	3.01	8.75%	Would need to treat two large culverts that meet here
SUBTOTAL HIGH PRIORITY	**HIGH**		**419**	**370**	**358**	**1146**	**1802**		**56.8%**	**295**	**1442**	**29**	**1831**		**57.7%**	
Bockman #1	Moderate	4	206	47	32	286	175	0.53	5.53%	44	330	0	175	0.53	5.53%	
Skywest/Clubhouse #1	Moderate	5	2	146	2	150	153	0.59	4.82%	111	261	8	161	0.62	5.07%	Location is just upstream of Hayward device, and treats some of Hayward
Thornally Dr	Moderate	6	149	41	3	193	54	0.17	1.71%	117	311	61	116	0.37	3.65%	Maybe locate in the Bay Fair BART parking lot
Hampton/Western	Moderate	7	96	51	12	159	98	0.38	3.08%	101	259	1	99	0.38	3.12%	Treats some Hayward areas. Not sure about exact drainage, may treat more.
SUBTOTAL MODERATE PRIORITY	**MODERATE**		**453**	**286**	**49**	**788**	**480**		**15.2%**	**373**	**1161**	**70**	**551**		**17.4%**	
SUBTOTAL MOD + HIGH PRIORITY			**872**	**656**	**407**	**1935**	**2283**		**72.0%**	**668**	**2603**	**99**	**2382**		**75.1%**	
Ronda Street #2	Low	8	1	7	12	20	54	2.32	1.70%	3	23	0	54	2.32	1.70%	Treats small area
Grant Ave #2	Low	9	239	29		267	29	0.09	0.90%	68	335	60	89	0.26	2.80%	Low average trash rate
Plaza Ave	Low	10	0	25	6	31	51	1.62	1.59%	0	31	0	51	1.62	1.59%	Treats small area
Oriole Dr	Low	11	0	19	0	19	19	1.01	0.60%	0	19	0	19	1.01	0.60%	Treats small area
San Carlos Ave	Low	12	30	2	7	40	32	0.43	1.00%	34	74	0	32	0.43	1.00%	Treats small area
Mattox/Birch	Low	13	63	10	0	73	11	0.10	0.36%	35	108	0	11	0.10	0.36%	Treats mostly Freeway
Castro Valley/Lake Chabot	Low	14	0	22	1	23	25	0.86	0.77%	6	29	0	25	0.86	0.77%	Treats small area
15754 E 14th St	Low	15	507	71	17	595	139	0.14	4.37%	368	963	0	139	0.14	4.37%	Mostly treats San Leandro; very large catchment
SUBTOTAL LOW PRIORITY	**LOW**		**840**	**184**	**44**	**1068**	**358**		**11.3%**	**514**	**1582**	**60**	**418**		**13.2%**	
TOTAL			**1712**	**840**	**450**	**3002**	**2641**		**83.3%**	**1182**	**4185**	**159**	**2800**		**88.3%**	
Bockman #2	Alternative	N/A	169	4	12	185	51	0.21	1.61%	55	241	0	51	0.21	1.61%	Not necessary - Large green areas
Bockman #3	Alternative	N/A	614	58	44	716	234	0.29	7.38%	100	816	0	234	0.29	7.38%	Not necessary - Large green areas
Bockman #4	Alternative	N/A	688	58	44	761	234	0.27	7.38%	100	891	0	234	0.27	7.39%	Not necessary - Large green areas
East 14th/Ashland #1A	Alternative	N/A	40	44	52	135	251	1.42	7.90%	42	177	1	251	1.42	7.92%	Not necessary if East 14th/Ashland #1 is installed
East 14th/Ashland #1B	Alternative	N/A	330	78	77	485	387	0.72	12.21%	52	537	0	387	0.72	12.21%	Not necessary if East 14th/Ashland #1 is installed
East 14th/Ashland #2	Alternative	N/A	398	122	136	656	665	0.89	20.98%	94	750	1	666	0.89	21.00%	Backup location for East 14th/Ashland #1
East 14th/Thrush #1A	Alternative	N/A		15	2	17	23	1.33	0.72%	0	17	0	23	1.33	0.72%	Not necessary if East 14th/Thrush #1 is installed

Potential Large Full Capture Device	Priority	Recommended Priority Order	Low (acres)	Moderate (acres)	High (acres)	Total (acres)	Weighted Acres	Average Trash Rate	Percent Jurisdiction Wide Reduction	Non-Jurisdictional and Existing Full Capture Areas (acres)	Total Catchment Area (acres)	Extra Credit from Non-jurisdictional Schools (wa)	Total Weighted Acres including schools	Average Trash Rate with Schools	Percent Jurisdiction Wide Reduction with Schools	Notes
East 14th/Thrush #1B	Alternative	N/A		14	49	63	210	3.09	6.61%	5	68	20	230	3.38	7.25%	Not necessary if East 14th/Thrush #1 is installed
Grant Ave #1	Alternative	N/A	79	18		98	18	0.12	0.57%	48	146	48	66	0.45	2.09%	Not necessary if Grant AVe #2 is installed
Ronda Street #1	Alternative	N/A	1	6	12	18	52	2.41	1.65%	3	22	0	52	2.41	1.65%	Not necessary if Ronda Street #2 is installed
Skywest/Clubhouse #2	Alternative	N/A	2	146	2	150	153	0.54	4.82%	135	285	8	161	0.56	5.08%	Location is in Hayward at current device location (ineffective)