



Public Works Agency  
Alameda County

Daniel Woldesenbet, Ph.D., P.E., Director

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September 16, 2013

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

SUBJECT: Annual Report for Fiscal Year 2012-2013 for the Alameda County Flood Control and Water Conservation District

Dear Mr. Wolfe:

Enclosed herewith is the subject for the Fiscal Year 2012-2013 (months of July 2012 through June 2013). 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 Alameda County Flood Control and Water Conservation District'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 2012-2013 Annual Report**

**Permittee Name: ACFC&WCD**

**ATTACHMENT B**

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Attachment:  
C.7. PIP Attachments

Section 1 – Permittee Information

Background Information			
<b>Permittee Name:</b>	Alameda County Flood Control and Water Conservation District		
<b>Population:</b>	NA		
<b>NPDES Permit No.:</b>	CAS612008		
<b>Order Number:</b>	R2-2009-0074R		
<b>Reporting Time Period (month/year):</b>	July 2012 through June 2013		
<b>Name of the Responsible Authority:</b>	Daniel Woldesenbet	<b>Title:</b>	Director of Public Works
<b>Mailing Address:</b>	399 Elmhurst Street		
<b>City:</b>	Hayward	<b>Zip Code:</b>	94544
		<b>County:</b>	Alameda
<b>Telephone Number:</b>	510-670-5455	<b>Fax Number:</b>	510-670-5541
<b>E-mail Address:</b>	<a href="mailto:danilew@acpwa.org">danilew@acpwa.org</a>		
<b>Name of the Designated Stormwater Management Program Contact (if different from above):</b>	Sharon Gosselin	<b>Title:</b>	Stormwater Program Manager Associate ECS
<b>Department:</b>	Engineering/ Clean Water Unit		
<b>Mailing Address:</b>	399 Elmhurst Street		
<b>City:</b>	Hayward	<b>Zip Code:</b>	94544
		<b>County:</b>	Alameda
<b>Telephone Number:</b>	510-670-6547	<b>Fax Number:</b>	510-670-5262
<b>E-mail Address:</b>	<a href="mailto:sharon@acpwa.org">sharon@acpwa.org</a>		

**Section 2 - Provision C.2 Reporting Municipal Operations**

**Program Highlights and Evaluation**

Highlight/summarize activities for reporting year:

Summary: See Section C.2 Municipal Operations of the Countywide Program's FY 12/13 Annual Report for a summary of Program activities. District staff continue to participate in the CWP M&O subcommittee and attended the CWP 10/30/2012 Trash Capture Workshop. For cooperative efforts, please see Section C.2 Municipal Operations of the Countywide Program's FY 12/13 Annual Report for a summary of Program activities.

**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.

<b>NA</b>	Control of debris and waste materials during road and parking lot installation, repaving or repair maintenance activities from polluting stormwater
<b>NA</b>	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.
<b>NA</b>	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.

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

Comments:

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

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

x	Control of discharges from bridge and structural maintenance activities directly over water or into storm drains
x	Control of discharges from graffiti removal activities
x	Proper disposal for wastes generated from bridge and structure maintenance and graffiti removal activities
NA	Implementation of the BASMAA Mobile Surface Cleaner Program BMPs for graffiti removal

Comments:

**C.2.d. ► Stormwater Pump Stations**

Does your municipality own stormwater pump stations:  **Yes**  **No**

If your answer is **No** then skip to **C.2.e.**

(For FY 10-11 Annual Report only) Complete the following table for dry weather DO monitoring and inspection data for pump stations<sup>1</sup> (add more rows for additional pump stations):

Pump Station Name and Location	First inspection Dry Weather DO Data		Second inspection Dry Weather DO Data	
	Date	mg/L	Date	mg/L
Roberts Landing – 15670 Anchorage, San Leandro	7/15/13	3.0		
Belvedere – 2480 Belvedere, San Leandro	7/15/13	6.0		
D-1 - 2048 Farrallon, San Leandro	7/15/13	5.0		
F – 2603 Fairway Dr. San Leandro	7/15/13	8.0		
H – 13203 Monarch Bay Dr. San Leandro	7/15/13	5.0		
Alvarado – 31269 Veasy St. Hayward	7/12/13	7.0		
Ameron – 1990 Industrial Parkway West, Hayward	7/12/13	6.0		
Besco – 29950 Hesperian Blvd. Hayward	7/12/13	7.0		
Eden Landing – 3599 Arden Rd. Hayward	7/15/13	7.0		
Stratford – 1898 Pacheco Wy. Hayward	7/12/13	5.0		

<sup>1</sup> Pump stations that pump stormwater into stormwater collection systems or infiltrate into a dry creek immediately downstream are exempt from DO monitoring.

Ruus – 29560 Ruus Rd. Hayward	7/12/13	7.0		
Industrial – 1200 Industrial Parkway West, Hayward	7/12/13	8.0		
Sulphur Creek – 19105 Barrington Ct. Hayward	7/15/13	8.0		
J-2 – 4588 Delores Dr. Union City	7/12/13	8.0		
J-3 – 32000 Union City Blvd. Union City	7/12/13	7.0		
Westview – 32110 Alvarado-Niles Rd. Union City	7/15/13	5.0		
Eden Shores – 2690 Eden Park Pl. Union City	7/15/13	7.0		
McKillop – no address – Ground water not a stormwater sta. - Oakland	7/15/13	7.0		
Ettie - Street – 3455 Ettie Street - Oakland	7/15/13	6.0		

*(For FY 10-11 Annual Report only)* Summarize corrective actions as needed for DO monitoring at or below 3 mg/L. Attach inspection records of additional DO monitoring for corrective actions:

Summary:

Attachments:

<b>Pump Station Name and Location</b>	<b>Date</b> (2x/year required)	<b>Presence of Trash</b> (Cubic Yards)	<b>Presence of Odor</b> (Yes or No)	<b>Presence of Color</b> (Yes or No)	<b>Presence of Turbidity</b> (Yes or No)	<b>Presence of Floating Hydrocarbons</b> (Yes or No)
Roberts Landing -15670 Anchorage, San Leandro						
Belvedere -2480 Belvedere, San Leandro						
D-1 – 2048 Farrallon, San Leandro						
F – 2603 Fairway Dr. San Leandro						
H – 13203 Monarch Bay Drive, San Leandro						

Alvarado -31269 Veasy St. Hayward						
Ameron – 1990 Industrial Parkway West, Hayward						
Besco – 29950 Hesperian Blvd. Hayward						
Eden Landing – 3599 Arden Rd. Hayward						
Stratford – 1898 Pacheco Wy. Hayward						
Ruus - 29560 Ruus Rd. Hayward						
Industrial – 1200 Industrial Parkway West, Hayward						
Sulphur Creek – 19105 Barrington Ct. Hayward						
J-2 – 4588 Delores Dr. Union City						
J-3- 32000 Union City Blvd. Union City						
Westview – 32110 Alvarado-Niles Rd. Union City						
Eden Shores- 2690 Eden Park Pl. Union City						
Ettie Street- 3455 Ettie St. Oakland						
Lake Merritt – 7 <sup>th</sup> Street, Oakland						
Roberts Landing -15670 Anchorage, San Leandro						
Belvedere -2480 Belvedere, San Leandro						
D-1 – 2048 Farrallon, San Leandro						
F – 2603 Fairway Dr. San Leandro						
H – 13203 Monarch Bay Drive, San Leandro						
Alvarado -31269 Veasy St. Hayward						
Ameron – 1990 Industrial Parkway West, Hayward						
Besco – 29950 Hesperian Blvd. Hayward						
Eden Landing – 3599 Arden Rd. Hayward						
Stratford – 1898 Pacheco Wy. Hayward						
Ruus - 29560 Ruus Rd. Hayward						
Industrial – 1200 Industrial Parkway West, Hayward						
Sulphur Creek – 19105 Barrington Ct. Hayward						

J-2 – 4588 Delores Dr. Union City						
J-3- 32000 Union City Blvd. Union City						
Westview – 32110 Alvardao-Niles Rd. Union City						
Eden Shores- 2690 Eden Park Pl. Union City						
Ettie Street -3455 Ettie St. Oakland						
Lake Merritt – 7 <sup>th</sup> St. Oakland						

C.2.e. ► Rural Public Works Construction and Maintenance			
Does your municipality own/maintain rural <sup>2</sup> roads:		<input type="checkbox"/>	<b>Yes</b>
		<input checked="" type="checkbox"/>	<b>No</b>
If your answer is <b>No</b> then skip to <b>C.2.f.</b>			
Place a <b>Y</b> in the boxes next to activities where applicable BMPs were implemented. If not applicable, type <b>NA</b> in the box and provide an explanation in the comments section below. Place an <b>N</b> 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.			
<input type="checkbox"/>	Control of road-related erosion and sediment transport from road design, construction, maintenance, and repairs in rural areas		
<input type="checkbox"/>	Identification and prioritization of rural road maintenance based on soil erosion potential, slope steepness, and stream habitat resources		
<input type="checkbox"/>	No impact to creek functions including migratory fish passage during construction of roads and culverts		
<input type="checkbox"/>	Inspection of rural roads for structural integrity and prevention of impact on water quality		
<input type="checkbox"/>	Maintenance of rural roads adjacent to streams and riparian habitat to reduce erosion, replace damaging shotgun culverts and excessive erosion		
<input type="checkbox"/>	Re-grading of unpaved rural roads to slope outward where consistent with road engineering safety standards, and installation of water bars as appropriate		
<input type="checkbox"/>	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:			

<sup>2</sup> 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.

<b>C.2.f. ► Corporation Yard BMP Implementation</b>			
Place an <b>X</b> in the boxes below that apply to your corporations yard(s):			
<input type="checkbox"/>	We do not have a corporation yard		
<input type="checkbox"/>	Our corporation yard is a filed NOI facility and regulated by the California State Industrial Stormwater NPDES General Permit		
<input checked="" type="checkbox"/>	We have a <b>Stormwater Pollution Prevention Plan (SWPPP)</b> for the Corporation Yard(s)		
Place an <b>X</b> in the boxes below next to implemented SWPPP BMPs to indicate that these BMPs were implemented in applicable instances. If not applicable, type <b>NA</b> 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:			
<input checked="" type="checkbox"/>	Control of pollutant discharges to storm drains such as wash waters from cleaning vehicles and equipment		
<input checked="" type="checkbox"/>	Routine inspection prior to the rainy seasons of corporation yard(s) to ensure non-stormwater discharges have not entered the storm drain system		
<input checked="" type="checkbox"/>	Containment of all vehicle and equipment wash areas through plumbing to sanitary or another collection method		
<input checked="" type="checkbox"/>	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		
<input checked="" type="checkbox"/>	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
Public Works	July 18, 2012	No Violations found	NA

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

#### C.3.b.v.(2)(a) ► Green Streets Status Report

(All projects to be completed by December 1, 2014)

On an annual basis (if applicable), report on the status of any pilot green street projects within your jurisdiction. For each completed project, report the capital costs, operation and maintenance costs, legal and procedural arrangements in place to address operation and maintenance and its associated costs, and the sustainable landscape measures incorporated in the project including, if relevant, the score from the Bay-Friendly Landscape Scorecard.

Summary:

The District does not have nor is considering constructing any green streets projects. However, the C.3 New Development and Redevelopment section of the Countywide program's FY 12-13 Annual Report includes a description of activities conducted at the countywide or regional level.

#### C.3.b.v.(2)(c) ► Summary of Green Street Projects Completed by January 1, 2013

(For FY 12-13 Annual Report only) Provide a summary of all green street projects completed by January 1, 2013.

Summary:

The District does not have any green streets projects.

#### C.3.b.v.(1) ► Regulated Projects Reporting

Fill in attached table **C.3.b.v.(1)** or attach your own table including the same information.

Summary:

No C3 Regulated Projects were approved within the District's jurisdiction during the reporting year.

<b>C.3.e.v. ► Alternative or In-Lieu Compliance with Provision C.3.c.</b>			
<i>(For FY 11-12 Annual Report and each Annual Report thereafter)</i> Is your agency choosing to require 100% LID treatment onsite for all Regulated Projects and not allow alternative compliance under Provision C.3.e.?	X	<b>Yes</b>	<b>No</b>
Comments (optional): Onsite treatment is the preferred method. However, there have not been any projects requiring C3 compliance within the District's jurisdiction.			

<b>C.3.e.vi ► Special Projects Reporting</b>			
1. 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)?		<b>Yes</b>	<b>No</b>
		X	
2. Has your agency granted final discretionary approval of a project identified as a Special Project in the March 15, 2013 report? If yes, include the project in both the C.3.b.v.(1) Table, and the C.3.e.vi. Table.		<b>Yes</b>	<b>No</b>
		X	
If you answered "Yes" to either question, 1) Complete Table C.3.e.vi. below. 2) Attach narrative discussion of 100% LID Feasibility or Infeasibility for each project			

<b>C.3.h.iv. ► Installed Stormwater Treatment Systems Operation and Maintenance Verification Inspection Program Reporting</b>
<b>(1)</b> Fill in attached table <b>C.3.h.iv.(1)</b> or attach your own table including the same information.
<b>(2)</b> On an annual basis, 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: No C3 Regulated Projects were approved within the District's jurisdiction during the reporting year.

<b>(3)</b> On an annual basis, 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: To date, there have not been any regulated projects within the District's jurisdiction. Therefore, no O&M inspections were conducted during the reporting year.						
<b>(4)</b> During the reporting year, did your agency:						
• Inspect all newly installed stormwater treatment systems and HM controls within 45 days of installation?	<input type="checkbox"/>	<b>Yes</b>	<input type="checkbox"/>	<b>No</b>	<input checked="" type="checkbox"/>	<b>Not applicable. No new facilities were installed.</b>
• Inspect at least 20 percent of the total number of installed stormwater treatment systems or HM controls? <sup>3</sup>	<input type="checkbox"/>	<b>Yes</b>	<input type="checkbox"/>	<b>No</b>	<input checked="" type="checkbox"/>	<b>Not applicable. No treatment measures</b>
• Inspect at least 20 percent of the total number of installed vault-based systems?	<input type="checkbox"/>	<b>Yes</b>	<input type="checkbox"/>	<b>No</b>	<input checked="" type="checkbox"/>	<b>Not applicable. No vault systems.</b>
If you answered "No" to any of the questions above, please explain: To date, there have not been any regulated projects within the District's jurisdiction. Therefore, no O&M inspections were conducted during the reporting year.						

**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 Co-permittees. We are using the BASMAA site design fact sheets for C.3.i implementation. We have modified District policies/procedures and forms/checklists to require all applicable projects approved after December 1, 2012 to implement at least one of the site design measures listed in

<sup>3</sup> If there is only 1 treatment measure in the jurisdiction, the agency must inspect it every year.

Provision C.3.i.

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

Project Name Project No.	Project Location <sup>10</sup> , Street Address	Name of Developer	Project Phase No. <sup>11</sup>	Project Type & Description <sup>12</sup>	Project Watershed <sup>13</sup>	Total Site Area (Acres)	Total Area of Land Disturbed (Acres)	Total New Impervious Surface Area (ft <sup>2</sup> ) <sup>14</sup>	Total Replaced Impervious Surface Area (ft <sup>2</sup> ) <sup>15</sup>	Total Pre- Project Impervious Surface Area <sup>16</sup> (ft <sup>2</sup> )	Total Post- Project Impervious Surface Area <sup>17</sup> (ft <sup>2</sup> )
<b>Private Projects</b>											
There were no Regulated Projects within the District's jurisdiction.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Public Projects</b>											
There were no Regulated Projects within the District's jurisdiction.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Comments:											

<sup>10</sup> Include cross streets

<sup>11</sup> 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".

<sup>12</sup> 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.

<sup>13</sup> State the watershed(s) in which the Regulated Project is located. Downstream watershed(s) may be included, but this is optional.

<sup>14</sup> All impervious surfaces added to any area of the site that was previously existing pervious surface.

<sup>15</sup> All impervious surfaces added to any area of the site that was previously existing impervious surface.

<sup>16</sup> For redevelopment projects, state the pre-project impervious surface area.

<sup>17</sup> For redevelopment projects, state the post-project impervious surface area.

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

Project Name Project No.	Application Deemed Complete Date <sup>18</sup>	Application Final Approval Date <sup>19</sup>	Source Control Measures <sup>20</sup>	Site Design Measures <sup>21</sup>	Treatment Systems Approved <sup>22</sup>	Type of Operation & Maintenance Responsibility Mechanism <sup>23</sup>	Hydraulic Sizing Criteria <sup>24</sup>	Alternative Compliance Measures <sup>25/26</sup>	Alternative Certification <sup>27</sup>	HM Controls <sup>28/29</sup>
<b>Private Projects</b>										
There were no Regulated Projects within the District's jurisdiction.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Comments:										

<sup>18</sup> For private projects, state project application deemed complete date. If the project did not go through discretionary review, report the building permit issuance date.

<sup>19</sup> 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.

<sup>20</sup> 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.

<sup>21</sup> 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.

<sup>22</sup> 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.).

<sup>23</sup> 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.

<sup>24</sup> 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).

<sup>25</sup> 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.

<sup>26</sup> 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.

<sup>27</sup> Note whether a third party was used to certify the project design complies with Provision C.3.d.

<sup>28</sup> If HM control is not required, state why not.

<sup>29</sup> 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), bioretention unit(s), regional detention basin, or in-stream control).

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

Project Name Project No.	Approval Date <sup>30</sup>	Date Construction Scheduled to Begin	Source Control Measures <sup>31</sup>	Site Design Measures <sup>32</sup>	Treatment Systems Approved <sup>33</sup>	Operation & Maintenance Responsibility Mechanism <sup>34</sup>	Hydraulic Sizing Criteria <sup>35</sup>	Alternative Compliance Measures <sup>36/37</sup>	Alternative Certification <sup>38</sup>	HM Controls <sup>39/40</sup>
<b>Public Projects</b>										
There were no Regulated Projects within the District's jurisdiction.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Comments:										

<sup>30</sup> For public projects, enter the plans and specifications approval date.

<sup>31</sup> 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.

<sup>32</sup> 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.

<sup>33</sup> 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.).

<sup>34</sup> 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.

<sup>35</sup> 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).

<sup>36</sup> 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.

<sup>37</sup> 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.

<sup>38</sup> Note whether a third party was used to certify the project design complies with Provision C.3.d.

<sup>39</sup> If HM control is not required, state why not.

<sup>40</sup> 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), bioretention unit(s), regional detention basin, or in-stream control).

**C.3.h.iv. ► Table of Installed Stormwater Treatment Systems Operation and Maintenance Verification Inspection Program Reporting**

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

Name of Facility/Site Inspected	Address of Facility/Site Inspected	Newly Installed? (YES/NO) <sup>41</sup>	Party Responsible <sup>42</sup> For Maintenance	Date of Inspection	Type of Inspection <sup>43</sup>	Type of Treatment/HM Control(s) Inspected <sup>44</sup>	Inspection Findings or Results <sup>45</sup>	Enforcement Action Taken <sup>46</sup>	Comments/Follow-up
There were no Regulated Projects within the District's jurisdiction.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

<sup>41</sup> Indicate "YES" if the facility was installed within the reporting period, or "NO" if installed during a previous fiscal year.

<sup>42</sup> State the responsible operator for installed stormwater treatment systems and HM controls.

<sup>43</sup> State the type of inspection (e.g., 45-day, routine or scheduled, follow-up, etc.).

<sup>44</sup> State the type(s) of treatment systems inspected (e.g., bioretention facility, flow-through planter, infiltration basin, etc...) and the type(s) of HM controls inspected, and indicate whether the treatment system is an onsite, joint, or offsite system.

<sup>45</sup> State the inspection findings or results (e.g., proper installation, improper installation, proper O&M, immediate maintenance needed, etc.).

<sup>46</sup> State the enforcement action(s) taken, if any.

**C.3.e.vi.Special Projects Reporting Table**

Reporting Period – January 1 – June 30, 2013

Project Name & No.	Permittee	Address	Application Submittal Date <sup>47</sup>	Status <sup>48</sup>	Description <sup>49</sup>	Site Total Acreage	Density DU/Acre	Density FAR	Special Project Category <sup>50</sup>	LID Treatment Reduction Credit Available <sup>51</sup>	List of LID Stormwater Treatment Systems <sup>52</sup>	List of Non-LID Stormwater Treatment Systems <sup>53</sup>
There were no Special Projects within the District'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

<sup>47</sup> Date that a planning application for the Special Project was submitted.

<sup>48</sup> 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.

<sup>49</sup> Type of project (commercial, mixed-use, residential), number of floors, number of units, type of parking, and other relevant information.

<sup>50</sup> For each applicable Special Project Category, list the specific criteria applied to determine applicability. For each non-applicable Special Project Category, indicate n/a.

<sup>51</sup> 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.

<sup>52</sup> 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.

<sup>53</sup> 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.

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

**Program Highlights**

Provide background information, highlights, trends, etc.  
See Section C.4 Industrial and Commercial Site Control of the Countywide Program's FY 12/13 Annual Report for a summary of Program activities.  
**SECTION C.4. NA for ACFC&WCD**

**C.4.b.i. ► Business Inspection Plan**

Do you have a Business Inspection Plan?  Yes  No  
If No, explain:  
**SECTION C.7. NA for ACFC&WCD**

**C.4.b.iii.(1) ► 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.  
**SECTION C.4. NA for ACFC&WCD**

**C.4.b.iii.(2) ► Facilities Scheduled for Inspection**

List below or attach your list of facilities scheduled for inspection during the current fiscal year.  
**SECTION C.4. NA for ACFC&WCD**

**C.4.c.iii.(1) ► Facility Inspections**

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

<input type="checkbox"/>	Permittee reports multiple discrete violations on a site as one violation.
<input type="checkbox"/>	Permittee reports the total number of discrete violations on each site.

	Number	Percent
Number of businesses inspected		
Total number of inspections conducted		
Number of violations (excluding verbal warnings)		
Sites inspected in violation		
Violations resolved within 10 working days or otherwise deemed resolved in a longer but still timely manner		
Comments: <b>SECTION C.4. NA for ACFC&amp;WCD</b>		

**C.4.c.iii.(2) ► 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)	
Potential discharge and other	
<b>SECTION C.4. NA for ACFC&amp;WCD</b>	

**C.4.c.iii.(2) ► Frequency and Type of Enforcement Conducted**

Fill out the following table or attach a summary of the following information. **SECTION C.4. NA for ACFC&WCD**

	Enforcement Action (as listed in ERP) <sup>48</sup>	Number of Enforcement Actions Taken	% of Enforcement Actions Taken <sup>49</sup>
Level 1			
Level 2			
Level 3			
Level 4			
<b>Total</b>			

**C.4.c.iii.(3) ► Types of Violations Noted by Business Category**

Fill out the following table or attach a summary of the following information. **SECTION C.4. NA for ACFC&WCD**

Business Category <sup>50</sup>	Number of Actual Discharge Violations	Number of Potential/Other Discharge Violations

**C.4.c.iii.(4) ► 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:

**SECTION C.4. NA for ACFC&WCD**

<sup>48</sup> Agencies to list specific enforcement actions as defined in their ERPs.

<sup>49</sup> Percentage calculated as number of each type of enforcement action divided by the total number of enforcement actions.

<sup>50</sup> List your Program's standard business categories.

<b>C.4.d.iii ► Staff Training Summary</b>				
<b>Training Name</b>	<b>Training Dates</b>	<b>Topics Covered</b>	<b>No. of Inspectors in Attendance</b>	<b>Percent of Inspectors in Attendance</b>
Stormwater Business Inspectors Workshop: Recognizing and Responding to Illicit Discharges	November 15, 2012	Recognizing Illicit Discharges PCB-Containing Equipment Identification MRP Requirements for Responding to Illicit Discharges Coordinating with the District Attorney's Office State Industrial Permit	[If no one from your jurisdiction attended, delete this row.]	
<b>SECTION C.4. NA for ACFC&amp;WCD</b>				

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

**Program Highlights**

Provide background information, highlights, trends, etc.

District staff participates in the CWP's I7IDC subcommittee. See Section C.5 Illicit Discharge Detection and Elimination of the Countywide Program's FY 12/13 Annual Report for a summary of Program activities.

**C.5.c.iii ► Complaint and Spill Response Phone Number and Spill Contact List**

List below or attach your complaint and spill response phone number and spill contact list.

Contact	Description	Phone Number
Public Works Agency	Maintenance and Operations Main Number	510-670-5500

**C.5.d.iii ► Evaluation of Mobile Business Program**

Describe implementation of minimum standards and BMPs for mobile businesses and your enforcement strategy. This may include participation in the BASMAA Mobile Surface Cleaners regional program or local activities.

Description:

See Section C.5 Illicit Discharge Detection and Elimination of the Countywide Program's FY 12/13 Annual Report for a summary of Program activities.

NA for ACFC&WCD

**C.5.e.iii ► Evaluation of Collection System Screening Program**

Provide a summary or attach a summary of your collection screening program, a summary of problems found during collection system screening and any changes to the screening program this FY.

Description:

**C.5.f.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.f.iii.(1))	0	

Discharges reaching storm drains and/or receiving waters (C.5.f.iii.(2))	0	
Discharges resolved in a timely manner (C.5.f.iii.(3))	0	
<p>Comments:          Complaints/Spill/Discharge incidents are tracked by Maintenance and Operations Department using Work Order software and "Mainstar" database. Service requests are given to Construction Inspection Division for inspection and follow-up and Construction Division staff are tracked using ACCESS database. Summary report is generated by sampling Mainstar database using activity code unique to spill and illicit discharges.</p>		

**C.5.f.iii.(4) ► Summary of major types of discharges and complaints**

Provide a narrative or attach a table and/or graph.

No discharge beyond those reported in the County unincorporated area where reported to the Flood Control District.

Section 6 – Provision C.6 Construction Site Controls

<b>C.6.e.iii.1.a, b, c ▶ Site/Inspection Totals</b>		
<b>Number of High Priority Sites (sites disturbing &lt; 1 acre of soil requiring storm water runoff quality inspection) (C.6.e.iii.1.a)</b>	<b>Number of sites disturbing ≥ 1 acre of soil (C.6.e.iii.1.b)</b>	<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)</b>
0	2	9
Comments:		

<b>C.6.e.iii.1.d ▶ Construction Activities Storm Water Violations</b>		
<b>BMP Category</b>	<b>Number of Violations<sup>51</sup> excluding Verbal Warnings</b>	<b>% of Total Violations<sup>52</sup></b>
Erosion Control	2	25
Run-on and Run-off Control	3	37.5
Sediment Control	3	37.5
Active Treatment Systems	0	0
Good Site Management	0	0
Non Stormwater Management	0	0
<b>Total<sup>53</sup></b>	<b>8</b>	<b>100%</b>

<sup>51</sup> 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.

<sup>52</sup> Percentage calculated as number of violations in each category divided by total number of violations in all six categories.

<sup>53</sup> 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.1.e ► Construction Related Storm Water Enforcement Actions**

	<b>Enforcement Action</b> (as listed in ERP) <sup>54</sup>	<b>Number Enforcement Actions Issued</b>	<b>% Enforcement Actions Issued</b> <sup>55</sup>
Level 1 <sup>56</sup>	Verbal Warning	0	0
Level 2	Written Warning	3	100
Level 3	Notice of Violation	0	0
Level 4	Stop Work	0	0
<b>Total</b>		<b>3</b>	<b>100%</b>

**C.6.e.iii.1.f, g ► Illicit Discharges**

	<b>Number</b>
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

<sup>54</sup> Agencies should list the specific enforcement actions as defined in their ERPs.

<sup>55</sup> Percentage calculated as number of each type of enforcement action divided by the total number of enforcement actions.

<sup>56</sup> For example, Enforcement Level 1 may be Verbal Warning.

<b>C.6.e.iii.1.h, i ► Violation Correction Times</b>		
	<b>Number</b>	<b>Percent</b>
<b>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)</b>	2	25% <sup>57</sup>
<b>Violations (excluding verbal warnings) not fully corrected within 30 days after violations are discovered (C.6.e.iii.1.i)</b>	6	75% <sup>58</sup>
<b>Total number of violations (excluding verbal warnings) for the reporting year<sup>59</sup></b>	8	100%
<p><b>Comments:</b></p> <p>During this reporting period, there were six violations not corrected within 30 days. All six violations were associated with the Levee Remedial Work Along Sulphur Creek Project (Sulphur Creek). The violations are described below:</p> <p>The violations were from three violations that were not corrected after two inspections (initial and follow-up). The violations were for sediment control- wattle, erosion control- jute netting and run-on/run-off- silt fence.</p> <p>The District rarely has projects that require wet season inspection that extends beyond October. This is because work within waterways is prohibited after October 15<sup>th</sup>. Work that extends into October is usually to complete construction and stabilize/landscape the site. The Sulphur Creek Project was an anomaly. The project was not completed during the 2012 dry season because an unidentified high pressure gas main was discovered during excavation which caused significant construction delays requiring the site to be winterized until the 2013 dry season. District procedure for this project was to winterize the site and suspend the contractor's contract until the 2013 dry season. In the mean time, the Stormwater Inspectors continued to inspect without knowledge of the contract suspension. The site was winterized but multiple storms, high winds and tidal influence led to the BMP failures. Stormwater Inspectors continued to send inspection findings and enforcement actions to the contractor. However, no response was received by the contractor to the notice and follow-up inspection. The miscommunication between District departments was the reason for the delayed correction time. Once the appropriate District department was notified of the site findings and the corrections were made immediately.</p> <p>Following this miscommunication, the District changed inspection procedures for all projects and now requires that site supervisors/project managers are present during C6 inspections. This approach will assure an immediate response to problems should they exist and ensure against any future miscommunication.</p>		

<sup>57</sup> 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.

<sup>58</sup> 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.

<sup>59</sup> 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.e.iii.(2) ► 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 9 inspections were conducted at 2 different sites in the District's jurisdiction during this reporting period. The tracking data showed that sediment, erosion control and run-on/run-off control measures were the BMP problem areas. The majority of the violations were associated with maintenance of silt fences or straw wattles that sometimes serve the dual purpose of sediment and run-off/run-on controls. The observations made were inconsistent with prior inspection years because the District rarely has projects that require wet season inspection due to work within waterways being prohibited after October 15<sup>th</sup>.

**C.6.e.iii.(2) ► 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:  
 The construction inspection program was evaluated and included revisions to the storm water construction inspection forms and revisions to the inspection scheduling practices. These modifications have helped to stream-line and increase efficiency. All storm water inspection staff (2 people) attended several training sessions as well as the Countywide C6 training. Specific training sessions attended are listed below. The District also sent a representative from another inspection unit to the C6 training to educate staff about construction concerns they may encounter in the field. Improvements to District interdepartmental communication were also noted as a sector requiring improvement. District procedures were modified to require site supervisors /project managers are present during C6 inspections. This approach will assure an immediate response to problems should they exist and reduce any miscommunication.

**C.6.f ► Staff Training Summary**

Training Name	Training Dates	Topics Covered	No. of Inspectors in Attendance	Percent of Inspectors in Attendance
Construction Stormwater C.6 Training	June 11, 2013	Review of Provision C.6 Requirements, How the State Construction General Permit Relates to the MRP, Proper Use of Construction BMPs, Review of Inspection Tools and Enforcement Options	2	100%
California State University, Sacramento Stormwater Best Management – New Development & Redevelopment	January 2013	Stormwater quality planning for New Development and Redevelopment; Site and Facility Design for Water Quality Protection; Source Control BMPs,	1	50%

		Treatment Control BMPs and BMP Implementation and Evaluation		
California State University, Sacramento Stormwater Best Management – Industrial and Commercial	November 2012	Stormwater Pollution Prevention Planning for Industrial and Commercial Facilities; Source Control BMPs, Treatment Control BMPs and Monitoring Reporting and Program Evaluation	1	50%
California State University, Sacramento Stormwater Best Management – Municipal Practices	October 2012	Municipal Phase I and II permits; Stormwater Pollution Prevention Planning for Municipal Operations; Source Control BMPs, Treatment Control BMPs and BMP Implementation and Evaluation	1	50%

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

**C.7.a ► Storm Drain Inlet Marking (existing storm drains)**

(For FY 12-13 Annual Report only) Report prior years' estimated annual percentages of municipality maintained storm drain inlet markings inspected and maintained as legible with a no dumping message or equivalent. At least 80% of municipality-maintained storm drain inlet markings shall be inspected and maintained at least once per 5-year permit term.

Summary:

**Guidance: Based on the total number of municipality maintained storm drain inlets stenciled with a marking such as “No dumping, drains to Bay”, provide the percentage that was inspected and maintained as legible during the following fiscal years:**

**Estimated annual percentage of stenciled municipality storm drain inlets that were inspected and maintained as legible:**

Although the majority of municipally maintained stormdrain inlets have been marked with a stenciled message of “No dumping, drains to Bay” for many years, they were replaced with a more durable, thermo plastic placard during this permit period (please see image) for a more lasting alternative. This replacement process is broken down below into how many of the total placards were installed each year to replace the stencils.

**Approximate percentage of total placards installed each year to replace stencils:**

**2009-10: 24%**

**2010-11: 24%**

**2011-12: 24%**

**2012-13: 24%**

**Total municipally maintained stormdrain inlets with placards installed from 2009-2013 = 96%**



To complete this program, areas containing municipally maintained roads were broken into sectors on a map. Additional maps were then created by our Survey Department for each individual sector showing the GPS locations of every storm drain inlet, and a number was assigned to each inlet. Each year, Alameda County Maintenance and Operations staff used these sector maps to staff install “No dumping, drains to Bay” placards on the inlets, until all the sectors were completed. For tracking purposes, each placard has a corresponding number to the number marked on the inlet. The installation process was completed in 2012, with 4690 inlets having placards installed out of a total of 4903 inlets on municipally maintained roads. At that time, Alameda County transitioned to the inspection and maintenance phase of this program. In this phase, each inlet is inspected on a yearly basis when they are cleaned out as part of routine maintenance, and the proper staff is notified when a placard needs to be repaired or replaced. This program will continue to be a part of the routine maintenance of the inlets.

Permittee Name: Alameda County Flood Control and Water Conservation District

**C.7.a ► Storm Drain Inlet Marking (newly-constructed, privately-maintained streets)**

(For FY 12-13 Annual Report only) Report prior years' annual number of projects accepted after inlet markings were verified. For newly-approved, privately-maintained streets, permittees shall require inlet marking by the project developer upon construction and maintenance of markings through the development maintenance entity. Markings shall be verified prior to acceptance of the project.

Summary:

**Guidance: Provide, on an annual basis, the number of projects with privately-maintained streets constructed and accepted by your agency, for which inlets were marked prior to acceptance of the project.**

**Annual number of newly-constructed, privately-maintained streets for which inlets were marked:**

2009-10:   0   projects

2010-11:   0   projects

2011-12:   0   projects

2012-13:   0   projects

**Explain your agency's process for verifying the marking of storm drain inlets for projects with privately maintained streets. If applicable, explain how your agency is modifying its procedures to verify the marking of storm drain inlets prior to the acceptance of projects with privately-maintained streets.**

**C.7.b.ii.1 ► Advertising Campaign**

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

Summary:

**See Section C.7 Public Information and Outreach of the Countywide Program's FY 12/13 Annual Report for a summary of Program activities.**

**The following separate report developed by BASMAA summarizes the activities of the Regional Youth Litter Campaign**

- **BASMAA Be the Street Campaign Report**

**The ACFC&WCD provides a staff member to serve as Project Manager for the Regional BASMAA Campaign.**

Permittee Name: Alameda County Flood Control and Water Conservation District

**C.7.b.iii.1 ► Pre-Campaign Survey**

(For the Annual Report following the pre-campaign survey) Summarize survey information such as sample size, type of survey (telephone survey, interviews etc.). Attach a survey report that includes the following information. If survey was done regionally, refer to a regional submittal that contains the following information:

**Information on the pre-campaign survey for the BASMAA Regional Youth Litter Campaign was provided in the FY 11-12 Annual Report. A copy of the pre-campaign survey for the countywide Program's outreach efforts is included in the Program's FY 12/13 Annual Report.**

Place an **X** in the appropriate box below:

	Survey report attached
<input checked="" type="checkbox"/>	Reference to regional submittal: Alameda Countywide Clean Water Program FY 12-13 Annual Report

**C.7.c ► Media Relations**

Summarize the media relations effort. Include the following details for each media pitch in the space below, AND/OR refer to a regional report that includes these details:

- Topic and content of pitch
- Medium (TV, radio, print, online)
- Date of publication/broadcast

Summary:

**The following separate report developed by BASMAA summarizes media relations efforts conducted during FY 12-13:**

- **BASMAA Media Relations Final Report FY 12-13**

**This report and any other media relations efforts conducted countywide is included within the C.7 Public Information and Outreach section of the Countywide Program's FY 12-13 Annual Report.**

**C.7.d ► Stormwater Point of Contact**

Summary of any changes made during FY 12-13:

See Section C.7 Public Information and Outreach of the Countywide Program's FY 12/13 Annual Report for a summary of Program activities.

**There were no changes from what was reported last fiscal year to the Alameda County Clean Water Program website this year.**

**Efforts were made towards updating the Clean Water Program page of the ACFC&WCD website. This effort will continue into the 2013-14 fiscal year.**

Permittee Name: Alameda County Flood Control and Water Conservation District

C.7.e ► Public Outreach 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, farmers market etc.), type of audience (school children, gardeners, homeowners etc.) and outreach messages (e.g., Enviroscene 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: <ul style="list-style-type: none"> <li>• Estimated overall attendance at the event.</li> <li>• Number of people that visited the booth, comparison with previous years</li> <li>• Number of brochures and giveaways distributed</li> <li>• Results of any spot surveys conducted</li> </ul>
<p>Stormwater Exhibit at the Alameda County Fair: July 1 through July 8, 2012 and June 19 through June 30, 2013. Setting up the exhibit and producing the outreach materials are Countywide Program efforts. Staffing the exhibit is an effort conducted by individual Permittees.</p> <p>The ACFC&amp;WCD played a major role in: exhibit concept development; coordinating and providing staffing of exhibit during the Fair; booth construction and breakdown; and acted as coordinator between Countywide and Fair Staff.</p>	<p>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.</p>	<p>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 Countywide Program's FY 12/13 Annual Report.</p>

**FY 2012-2013 Annual Report**

**C.7 – Public Information and Outreach**

**Permittee Name: Alameda County Flood Control and Water Conservation District**

<p>Clean Water Program Exhibit at the Alameda County Fair – The ACFC&amp;WCD Program Staffed the Fair Booth 7/8/12, 6/23/13, 6/29/13, and 6/30/13.</p> <p>The ACFC&amp;WCD played a leading role in: exhibit concept development; coordinating and providing staffing of exhibit during the Fair; booth construction and breakdown; and acted as coordinator between Countywide and Fair Staff.</p>	<p>County Fair, open to the general public. Outreach message focused on using less toxic methods to manage pests around the yard, and the negative consequences of using pesticides. This year an extra emphasis was put on how pesticides not only pollute our waterways, but can also negatively affect native bee populations, and CA agriculture.</p>	<p>This year the Fair had 391,426 attendees, a 27% decrease from 2012 (due to extreme heat and BART strike). The ACFC&amp;WCD played a major role in the concept development, and the overall coordination and maintenance of the booth at the fair. Very good opportunity to speak to homeowners about how they can use less toxic methods to control pests in their yard and garden. A craft activity was added each Fridays for "Kids' Day", to increase the amount of children attending the booth, and to provide opportunities to speak to children and their families about our booth message. Handout materials included drought tolerant native seeds for the garden to attract bees, non-toxic pest control recipes label for water bottles, and mood pencils. The non-toxic recipe label was a great conversation piece to start the discussion on pesticides.</p>
<p>Alameda County Fall Home and Garden Show, 10/5, 10/6 &amp; 10/7/12– Alameda County Fairgrounds, Pleasanton</p> <p>The ACFC&amp;WCD played the leading role in: exhibit concept development; coordinating and providing staffing of exhibit during the Fair; booth construction and breakdown; and acted as coordinator between County and Show Staff.</p>	<p>Event is open to the general public, focusing on homeowners and gardeners. Our booth message focused on reducing pesticides in the yard and chemicals around the house.</p>	<p>Approx. 5,069 Alameda County Residents attended event. Distribute the Rain brochures, Keeping it all in Tune, new Clean Water Program reusable bags with an information sheet inserted regarding the upcoming plastic bag ban in Alameda County, and new stormwater pollution prevention brochures were featured at the booth. The booth message was focused on making reusables a part of your daily routine to reduce litter that ends up in the Bay. Some interactive games were played with families, including a game simulating the Bay filled with fish and some litter, with the goal being to pull out a fish and not a piece of litter. We also played a "True or Rubbish" game, which focused on trash true and false questions. Native seed packets, fish erasers, mood pencils and activity guides were given away to residents who interacted with us at the booth.</p>

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**C.7 – Public Information and Outreach**

**Permittee Name: Alameda County Flood Control and Water Conservation District**

<p>Alameda County Spring Home and Garden Show, 2/16, 2/17 &amp; 2/18/12 – Alameda County Fairgrounds, Pleasanton</p> <p>The ACFC&amp;WCD played the leading role in: exhibit concept development; coordinating and providing staffing of exhibit during the Fair; booth construction and breakdown; and acted as coordinator between County and Fair Staff.</p>	<p>Event is open to the general public, focusing on homeowners and gardeners. Our booth message focused on reducing pesticides in the yard and chemicals around the house by using less toxic alternatives.</p>	<p>Approximately 12,807 Alameda County Residents attended the event, which is a 8.5% increase from the 2011 show. Materials available to the public included: non-toxic pest control recipes label for water bottles, Keeping it all in Tune, native seed packets, mood pencils, fish erasers, and new stormwater pollution prevention brochures. An interactive Bee-lieve it or Not game was also played with children attending the event, with questions focusing on native bee knowledge, and making the connection between pesticide use and the negative effect on native bees and CA crops. Watershed diorama demonstrations were also conducted at the booth. The ACF&amp;WCD organizes and staffs the booth at this event.</p>
<p>Oakland Clean Creeks Program. The ACF&amp;WCD is a major funding source for this program, and provides on-going support through which many public outreach activities are conducted.</p>	<p>Please see Attachment A, C.7.5 for a full description of the program.</p>	<p>Please see Attachment A, C.7.5 for a full description of the program.</p>
<p>The Solano Avenue Stroll , 9/9/12 – Berkeley</p>	<p>Street Fair open to the general public.</p>	<p>Approximately 270,000 residents attended this event. The ACFC&amp;WCD had a booth at the street fair, and 100: Kid's Guide to Backyard Bugs, activity guides, and 10 Most Wanted Bugs in Your Garden were handed out to visitors to the booth.</p>
<p>Please see Attachment A, C.7.4 for Friends of San Leandro Creek Public Outreach Events Summary. The ACF&amp;WCD funds and provides on-going support to this program through which many public outreach activities are conducted.</p>	<p>Please see Attachment A, C.7.4 for Friends of San Leandro Creek Outreach Events Summary.</p>	<p>Please see Attachment A, C.7.4 for Friends of San Leandro Creek Outreach Events Summary.</p>
<p>Please see Attachment A, C.7.3 for Friends of Sausal Creek Public Outreach Events Summary. The ACF&amp;WCD funds and provides on-going support to this program through which many public outreach activities are conducted.</p>	<p>Please see Attachment A, C.7.3 for Friends of Sausal Creek Public Outreach Events Summary.</p>	<p>Please see Attachment A, C.7.3 for Friends of Sausal Creek Public Outreach Events Summary.</p>

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**C.7 – Public Information and Outreach**

**Permittee Name: Alameda County Flood Control and Water Conservation District**

<p>City of Alameda Plastic Bag Exchange – 12/1/12</p> <p>The ACFC&amp;WCD sponsored this event by providing all (350) of the Clean Water Program reusable bags that were given out to the public.</p>	<p>Public event held at the Hometown Holiday Celebration by the City of Alameda and the Alameda Parks and Recreation Department. Open to the general public.</p>	<p>Event participants received a free reusable bag (one bag/person) in exchange for bringing in their single-use plastic bags. Additionally, participants received a postcard reminding them of the upcoming Alameda County bag ban. To promote the use of reusable bags, participants were asked to sign a pledge promising to use the bag they received. Additionally, participants could take the pledge a step further, by promising to make “reusable items” as part of their daily routines. Eco-facts were placed around the skating rink to raise public awareness about the impacts of plastic bags and other human generated wastes that end up in our waterways. The booth also featured a display on “how long littered items last” to convey to booth visitors the amount of years it takes for common litter items to biodegrade. ARPD staff engaged children with two environmental games “What’s in our Water?” and the “Toss &amp; Learn” game. “What’s in our water” is a simple game where players “go fishing” and draw wooden tiles from a bin. Players will get either an animal or a litter icon. If they get an animal, they get a prize. If they draw a litter item, they also get a prize, but staff used the opportunity to explain that litter often ends up in the Bay through storm drains. The “Toss &amp; Learn” is an interactive game that educates children about what cart to use to dispose of daily waste items.</p>
<p>Tule Ponds at Tyson Lagoon, Fremont, Open House Events – 10/27/12 &amp; 4/7/12.</p> <p>The ACFC&amp;WCD owns the facility and also provides additional funding for education.</p>	<p>Events are open to the general public. The themes this year were “Indian Summer” (October), and “Birds, Feathers, and Fun” (April).</p> <p>Please see Attachment A, C.7.2 for Tule Ponds Public Outreach Events Summary</p>	<p>Please see Attachment A, C.7.2 for Tule Ponds Public Outreach Events Summary</p>

Permittee Name: Alameda County Flood Control and Water Conservation District

<p>Environmental Education Workshops at Tule Ponds at Tyson Lagoon, 9/22/12 and 3/16/13 – Fremont</p> <p>ACF&amp;WCD owns the Tule Ponds at Tyson Lagoon, and funds the programs and events that are held at the facility.</p>	<p>Open to teachers and community members involved in environmental service. Both of the workshops focused on the ecological and restoration benefits of the Tule Ponds at Tyson Lagoon. Please see Attachment A, C.7.2 for Tule Ponds Public Outreach Events Summary</p>	<p>43 people attended the workshops, and the feedback from attendees was very positive.</p>
<p>The Bringing Back the Natives Garden Tour was held throughout Alameda and Contra Costa counties on Sunday, May 5, 2013. (The 43 gardens and nurseries showcased on the Tour were located in fifteen cities and unincorporated areas in Alameda and Contra Costa counties: Berkeley, Concord, El Cerrito, El Sobrante, Fremont, Hayward, Livermore, Martinez, Moraga, Oakland, Orinda, Pleasanton, Richmond, San Lorenzo, and Walnut Creek</p>	<p>This free tour was attended by gardeners, homeowners, landscape designers, and students.</p> <p>The tour enlists local residents to demonstrate by example that seasoned and novice gardeners can garden with good results without the use of synthetic chemicals, and with minimal supplemental water, while providing food, shelter, and nesting areas for wildlife. Garden hosts show that it is possible to implement sustainable garden practices and still have beautiful places for people to relax in and enjoy. The goals of the Bringing Back the Natives Garden Tour are to motivate attendees to eliminate pesticide use, reduce water use, generate less solid waste, and provide habitat for wildlife in their own gardens.</p>	<ul style="list-style-type: none"> <li>• 43 gardens and nurseries were showcased on the Tour</li> <li>• more than 40 talks and demonstrations were given</li> <li>• 200 volunteers made the tour possible</li> <li>• 5,773 registrants</li> <li>• 12,831 garden visits were made</li> <li>• more than \$10,000 worth of natives sold through the spring, 2013 Native Plant Sale Extravaganza, and \$11,000 worth of natives sold through the fall 2012 Native Plant Sale</li> </ul>

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**C.7 – Public Information and Outreach**

**Permittee Name: Alameda County Flood Control and Water Conservation District**

<p>Alameda Creek Watershed Council events:          -Annual Conference for Watershed Stakeholders (10/25/13) at Dublin Library with walking tour of creek at the site;          -Workshop on Water Resources Assessments in conjunction with Bay Area Watershed Network (BAWN) held in Oakland (5/20/13)          -Planning workgroup meetings in Livermore, (8/29/12, 3/20/13).</p>	<p>Information is presented to watershed stakeholders, including Council members, agency staff, members of the public and organizations, college students, and teachers on water quality and wildlife habitat protection, creek restoration, stewardship and related topics/issues in the watershed. The Annual Conference highlighted current research and creek restoration activities in the watershed, sediment and historical ecology. ACWC events facilitate communication among stakeholders in regard to their watershed programs. Tables had exhibits on watershed mapping and a new adopt-a-creek program in the watershed.</p>	<p>70 participants attended the Water Quality Assessments workshop, 55 attended the ACWC Annual Conference and 6-8 attended the planning workgroup meetings. Handouts on pertinent topics were distributed at all events, and information was provided by stakeholders for input to Council documents that list watershed projects and stewardship activities.</p>
<p>Earth Day Event at Moreau High School, Hayward - 4/25/13</p>	<p>Staffed table with display and talked with students for 1.5 hour long lunchtime Fair on topics of "Creek Care", trash impacts to wildlife, and signed up students for the upcoming Hands-On Conservation 4/27 Earth Day event in Castro Valley. Publicized other local stewardship opportunities with the RCD's Hands-On Conservation program.</p>	<p>Met and talked with approximately 24 high schools students. Signups taken for events and more than 20 handouts passed out publicizing 4/27 nearby Earth Day event. Good way to give students an opportunity to follow up their own event with a hands-on stewardship project in the community. Total of 100 or so students attend, primarily freshmen visit our table due to their environmental community service hours requirement.</p>

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<p>Community Service/ Volunteer Faire at Logan High School, Union City - 3/28/13</p>	<p>Staffed table with "Creek Care" display for 1.5 hours during lunchtime fair and discussed with interested students how to protect creek water quality and wildlife habitat. Explained and passed out flyers for two nearby Earth Day passed out flyers on materials signed up students to introduce creek care volunteer opportunities at nearby Civic Center Park in Union City</p>	<p>Met and talked with approximately 35 high schools students. Most of the school's students that are on campus at the lunch hour attended the fair. 25 flyers on participating in nearby Hands-On Conservation stewardship activities for Earth Day given out. Perhaps 100-150 students visit the approximately 15 tables at the event. Ecology and Sustainability Club members visit our table, since they consistently participate in our Hands-On Conservation events.</p>
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**C.7.f. ► 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: See Section C.7 (Public Outreach and Involvement) of the Countywide Program's FY 12/13 Annual Report for a summary of the *Bringing Back the Natives*, and the *Bay Friendly Garden* tours that are sponsored by the Program.

**Local Watershed Collaborative Efforts:**

The ACFC&WCD continues to provide major funding and support to The Friends of Sausal Creek and Friends of San Leandro Creek (please see sections below for activities conducted by these groups with the help of ACFC&WCD funding)

The ACFC&WCD also funds and administers the Alameda Creek Watershed Council (ACWC), which is a group of stakeholders who are interested in protecting and enhancing water-related beneficial uses and resources within the Alameda Creek watershed. In addition to the events described in the Public Outreach section, the ACWC started working on a plan for a new website, that will serve as an online forum for stakeholders in the watershed.

The ACFC&WCD also led a workgroup with the City of Oakland and Friends of Sausal Creek to develop a work plan to update the Google Earth Watershed Map of Western Alameda County that was funded by the ACFC&WCD in 2010. This project will be funded 100% by the ACFC&WCD. Work on this project has begun during the 2012/13 fiscal year, and will continue into the 2013/14 fiscal year. It will include updating past data and adding additional data that focuses on new outreach elements to communicate more in-depth information about each watershed featured in the program, and highlighting stream restoration projects throughout Western Alameda County.

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<b>C.7.g. ► Citizen Involvement Events</b>		
List the types of events conducted (e.g., creek clean up, storm drain inlet marking, native gardening etc.). Use the following table for reporting and evaluating citizen involvement events.		
Event Details	Description	Evaluation of effectiveness
Provide event name, date, and location. Indicate if event is local, countywide or regional	Describe activity (e.g., creek clean-up, storm drain marking etc.)	Provide general staff feedback on the event. Provide other evaluation details such as: <ul style="list-style-type: none"> <li>• Number of participants. Any change in participation from previous years.</li> <li>• Distance of creek or water body cleaned</li> <li>• Quantity of trash/recyclables collected (weight or volume).</li> <li>• Number of inlets marked.</li> <li>• Data trends</li> </ul>
Community Stewardship Program (CSG)  In addition to contributing grant funding, the ACFC&WCD also coordinates the CSG Program for the Countywide Group.	The Countywide Program sponsors the CSG Program. The CSG Program provides approximately \$20,000 annually in \$1,000 to \$5,000 increments to individuals and community groups to support stormwater improvement/outreach projects throughout the County.	See the Countywide Program's FY 12/13 Annual Report for a summary.
Please see Attachment A, C.7.4 for Friends of San Leandro Creek Citizen Involvement Events Summary. The ACF&WCD funds and provides on-going support to this program through which many volunteer activities are conducted.	Please see Attachment A, C.7.4 for Friends of San Leandro Creek Citizen Involvement Events Summary.	Please see Attachment A, C.7.4 for Friends of San Leandro Creek Citizen Involvement Events Summary.
Please see Attachment A, C.7.3 for Friends of Sausal Creek Citizen Involvement Events Summary. The ACF&WCD funds and provides on-going support to this program through which many public outreach activities are conducted.	Please see Attachment A, C.7.3 for Friends of Sausal Creek Citizen Involvement Events Summary.	Please see Attachment A, C.7.3 for Friends of Sausal Creek Citizen Involvement Events Summary.

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**C.7 – Public Information and Outreach**

**Permittee Name: Alameda County Flood Control and Water Conservation District**

<p>Oakland Clean Creeks Program. Please see Attachment A, C.7.5 for the Full Program Summary. The ACF&amp;WCD is a major funding source for this program, and provides on-going support through which many volunteer activities are conducted.</p>	<p>Please see Attachment A, C.7.5 for a full description of the program.</p>	<p>Please see Attachment A, C.7.5 for a full description of the program.</p>
<p>Tule Ponds at Tyson Lagoon Community Service Days and Eagle Scout Projects - Many On-Going Projects from 7/1/12 – 6/30/13 (Every Saturday)</p> <p>The ACFC&amp;WCD owns the facility and also provides additional funding for education.</p>	<p>Hosted the following volunteer programs and events during the 2012/13 fiscal year:</p> <ul style="list-style-type: none"> <li>- Community Service Days - every Saturday from 9:30am-12:30pm</li> <li>- Cal State East Bay Freshman Day of Service (10 week project)</li> <li>- 5 Regional Eagle Scout Projects</li> <li>- 35 Irvington High School Environmental Change Projects</li> <li>- Make a Difference Day</li> </ul>	<p>A total of 1435 students participated in the various volunteer projects at Tyson Lagoon for a total of 6060 hours over the year.</p> <p>Please see Attachment A, C.7.2 for the Tule Ponds Citizen Involvement Events Summary</p>
<p>Union City Civic Center Park, Union City - "Creek Care" Stewardship Activities with the Hands-On-Conservation Program:</p> <p>World Water Monitoring Day at creek trail - 9/22/12</p> <p>"Creek Care" planting workday and trash cleanup - 11/10/12</p> <p>Earth Day "Creek Care" and trash cleanup event - 4/21/13</p>	<p>Native riparian vegetation planting, invasive plant removal, trash cleanups along flood control channel at adopted spot with students from the Logan High School (Union City) Ecology class, Sustainability Club and Interact Club and other student and community volunteers as part of the Hands-On Conservation program. Discussed "Creek Care" practices with volunteers in order to engage them in helping protect water quality. High School ecology teachers participated at several events and co-led water quality testing training event. Community members also participated at events.</p>	<p>1200' linear feet of creek banks along park trails cleaned (3 times =3600'). Workdays averaged 15-20 people, primarily high school students and local residents, several teachers and group leaders. Two large (12 cu ft) trash bags filled for each event. Trash sorted and recycled. 6 shrubs planted along the creek. Previous plantings (12 plant/ trees) mulched and irrigated. Park trail cleaned up all through the park on 3 occasions. Continued good turnout at events because the site is very close to the high school and students earn community service hours, and science teachers offer extra credit.</p>
<p>Logan High School, Union City, Bay-Friendly Garden installation on school campus:</p> <p>1/21/13 MLK Day National Day of Service</p> <p>2/18/13 Washington's Birthday holiday</p>	<p>Planted a 250 sq ft garden; soil prep, mulching, layout and planting plan review and update, plant 30 native and drought tolerant plants in two sessions, irrigate, created plant signage. Project led by Logan High School biology teacher and campus Sustainability Club.</p>	<p>15-20 students and 2 teachers at each of the two events held on school holidays. 250 sq ft garden developed according to student planting plans, planted 30 native and drought tolerant plants, 20 plant signs created and installed.</p>

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**C.7 – Public Information and Outreach**

**Permittee Name: Alameda County Flood Control and Water Conservation District**

Hands-On Conservation Workday at Dig Deep Farm, San Leandro - 2/23/13	Native grass planting to control erosion, and farm work assistance. Also conducted watershed lessons at non-profit farm with San Lorenzo High school students. Watershed lessons presented by Earth Team organization. Bus transport provided by Earth Team. Farm tour and talks on land management for students.	30 students, high school teacher and staff from the EarthTeam organization. 100'x 5' row of farm soil weeded and 100 plugs of native grass planted. Worked with disadvantaged community members who work for Dig Deep, and farm manager.
Earth Day Cleanup at Alameda Creek Cleanup, Niles - 4/20/13	Creek cleanup held in conjunction with Alameda Creek Alliance at their adopted spot along Alameda Creek.	¼ mile of creekbank was cleaned up by 16 community volunteers. 5 large trash bags filled (bag size 12 cu ft), with bulky materials in addition.

**C.7.h. ► 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.

<b>Program Details</b>	<b>Focus &amp; Short Description</b>	<b>Number of Students/Teachers reached</b>	<b>Evaluation of Effectiveness</b>
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 Countywide Program's FY 12/13 Annual Report for a summary of the Program's School-Age Outreach Program.	See the Section C.7 of the Countywide Program's FY 12/13 Annual Report.	See the Section C.7 of the Countywide Program's FY 12/13 Annual Report.	See the Section C.7 of the Countywide Program's FY 12/13 Annual Report.
Hands-On Conservation Program. Grades 6-College Age Students.  The ACF&WCD is a major funding source for this program.	The Hands-On Conservation Program provides opportunities for outdoor stewardship activities to increase students' knowledge of natural resources and the protection of watersheds. Please see <i>Attachment C.7.1</i> for a full program summary.	Please see Attachment A, C.7.1 for a full program summary.	Please see Attachment A, C.7.1 for a full program summary.

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**C.7 – Public Information and Outreach**

**Permittee Name: Alameda County Flood Control and Water Conservation District**

<p>Tule Ponds at Tyson Lagoon Education Programs, Grades 1-6.</p> <p>In addition to owning and funding the Tule Ponds facility, the ACF&amp;WCD provides additional funding for 100 free Tule Pond Center education programs to schools throughout Alameda County.</p>	<p>Schools visit the Center for a hands-on education program focusing on the following topics: Stormwater and Wetland Chemistry, Exploring Wetlands, Plant and Animal Environments, Plant and Animal Life Cycles, Tule Pond Changes Through Time, Earth Quakes and Ecology (and how they have affected the Tule Ponds). The curriculums provide students with background information on each topic, and include science lab work and nature walks for each program.</p>	<p>2850 children and 625 adults that attended the free programs funded by the ACF&amp;WCD. 150 college students with 5 teachers also visited the center for field trips, as well as an additional 85 students for other education programs. Please see Attachment A, C.7.2 for a full program summary.</p>	<p>Teacher feedback was all positive: 100% felt this was a worthwhile field trip; 100% said they would come again; 100% felt instructors were knowledgeable and got the children excited and engaged.</p>
<p>Please see Attachment A, C.7.3 for Friends of Sausal Creek School-Age Education Summary.</p>	<p>Please see Attachment A, C.7.3 for Friends of Sausal Creek School-Age Education Summary</p>	<p>Please see Attachment A, C.7.3 for Friends of Sausal Creek School-Age Education Summary</p>	<p>Please see Attachment A, C.7.3 for Friends of Sausal Creek School-Age Education Summary</p>
<p>Please see Attachment A, C.7.4 for Friends of San Leandro Creek School-Age Education Summary.</p>	<p>Please see Attachment A, C.7.4 for Friends of San Leandro Creek School-Age Education Summary.</p>	<p>Please see Attachment A, C.7.4 for Friends of San Leandro Creek School-Age Education Summary.</p>	<p>Please see Attachment A, C.7.4 for Friends of San Leandro Creek School-Age Education Summary.</p>
<p>Oakland Clean Creeks Program. Please see Attachment A, C.7.5 for the School-Age Education Summary.</p>	<p>Oakland Clean Creeks Program. Please see Attachment A, C.7.5 for the School-Age Education Summary.</p>	<p>Oakland Clean Creeks Program. Please see Attachment A, C.7.5 for the School-Age Education Summary.</p>	<p>Oakland Clean Creeks Program. Please see Attachment A, C.7.5 for the School-Age Education Summary.</p>

**C.7.i. ► Outreach to Municipal Officials**

(For FY 12-13 Annual Report only) Summarize outreach conducted to increase the overall awareness of stormwater and/or watershed messages among municipal officials.

Summary:

Regular updates on both the Unincorporated Area and Flood Control District Clean Water Programs were provided at Alameda County Board of Supervisor meetings and County management meetings throughout the fiscal year

**Section 8 - Provision C.8 Water Quality Monitoring**

**C.8 ► Water Quality Monitoring**

State below if information is reported in a separate regional report. Municipalities can also describe below any Water Quality Monitoring activities in which they participate directly, e.g. participation in RMP workgroups, fieldwork within their jurisdictions, etc.

Summary

During FY 12-13, we contributed through the countywide Program to the BASMAA Regional Monitoring Coalition (RMC). In addition, we contributed financially to the Regional Monitoring Program for Water Quality in the San Francisco Estuary (RMP) and were represented at RMP committees and work groups. Monitoring efforts and results are documented in a separate report submitted March 15 of each year, as required in Provision C.8. For additional information on monitoring activities conducted by the Program, BASMAA RMC and the RMP, see the C.8 Water Quality Monitoring section of the Program's FY 12-13 Annual Report.

**Section 9 – Provision C.9 Pesticides Toxicity Controls**

**C.9.b ► Implement IPM Policy or Ordinance**

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<sup>60</sup>**

Pesticide Category and Specific Pesticide Used	Amount <sup>61</sup>				
	FY 09-10	FY 10-11	FY 11-12	FY 12-13	FY 13-14
<b>Organophosphates</b>					
Product or Pesticide Type A	0	0	0	0	
Product or Pesticide Type B	0	0	0	0	
<b>Pyrethroids</b>					
Product or Pesticide Type X	0	0	0	0	
Product or Pesticide Type Y	0	0	0	0	
<b>Carbaryl</b>	0	0	0	0	
<b>Fipronil</b>	0	0	0	0	

**C.9.c ► Train Municipal Employees**

Enter the number of employees that applied or used pesticides (including herbicides) within the scope of their duties this reporting year.	
Enter the number of these employees who received training on your IPM policy and IPM standard operating procedures within the last 3 years.	6
Enter the percentage of municipal employees who apply pesticides who have received training in the IPM policy and IPM standard operating procedures within the last three years.	100%

<sup>60</sup> Includes all municipal structural and landscape pesticide usage by employees and contractors.

<sup>61</sup> Weight or volume of the product or preferably its active ingredient, using same units for the product each year. 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: allethrin, bifenthrin, beta-cyfluthrin, bioallethrin, cyfluthrin, cypermethrin, cyphenothrin, deltamethrin, esfenvalerate, etofenprox, fenpropathrin, gamma-cyhalothrin, imiprothrin, lambda-cyhalothrin, metofluthrin, permethrin, phenothrin, prallethrin, resmethrin, sumithrin (d-phenothrin), tau-fluvalinate, tefluthrin, tetramethrin, tralomethrin, cis-permethrin, and zeta-cypermethrin.

**C.9.d ▶ Require Contractors to Implement IPM**

Did your municipality contract with any pesticide service provider in the reporting year?				<input type="checkbox"/>	<b>Yes</b>	<input type="checkbox"/>	<b>N</b>	<input type="checkbox"/>	<b>No</b>
If yes, attach one of the following:									
<input type="checkbox"/>	Contract specifications that require adherence to your IPM policy and standard operating procedures, OR								
<input type="checkbox"/>	Copy(ies) of the contractors' IPM certification(s) or equivalent, OR								
<input type="checkbox"/>	Equivalent documentation.								
If <b>Not attached</b> , explain: NA									

**C.9.e ▶ Track and Participate in Relevant Regulatory Processes**

Summarize participation efforts, information submitted, and how regulatory actions were affected <b>OR</b> reference a regional report that summarizes regional participation efforts, information submitted, and how regulatory actions were affected.									
Summary: During FY 12-13, we participated in regulatory processes related to pesticides through contributions to the countywide Program, BASMAA and CASQA. For additional information, see the Regional Pollutants of Concern Report submitted by BASMAA on behalf of all MRP Permittees.									

**C.9.f ▶ Interface with County Agricultural Commissioners**

Did your municipal staff observe any improper pesticide usage or evidence of improper usage (e.g., pesticides in storm drain systems, along street curbs, or in receiving waters) during this fiscal year?				<input type="checkbox"/>	<b>Yes</b>	<input checked="" type="checkbox"/>	<b>x</b>	<input type="checkbox"/>	<b>No</b>
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.g. ► Evaluate Implementation of Source Control Actions  
Relating to pesticides**

*(For FY 12-13 Annual Report only)* Submit a report that evaluates; 1) the effectiveness of control measures implemented, and 2) attainment of pesticide concentration and toxicity targets for water and sediment from monitoring data (Provision C.8.). If needed, the report should include the following:

- Improvements to existing control measures and/or additional control measures required.
- A plan to implement improved and/or new control measures.

Summary:

An Effectiveness Evaluation is included in Section C.9 Pesticides Toxicity Control of the Countywide Program's FY 12-13 Annual Report

**C.9.h.ii ► 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 Program's FY 12-13 Annual Report for information on point of purchase public outreach conducted countywide and regionally.

**C.9.h.iv ► Pest Control Contracting Outreach**

*(For FY 12-13 Annual Report only)* Document effectiveness of outreach to residents who use or contract for structural or landscape pest control **OR** reference a regional that summarizes these actions.

Summary:

See the C.9 Pesticides Toxicity Control section of the Program's FY 12-13 Annual Report for a report that evaluates outreach to residents.

**C.9.h.vi ► 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); **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 12-13 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.

**Response to Water Board Staff Comments on Section 9, Provision C.9, of FY 11-12 Annual Report**

Use this area to respond to any Water Board staff comments on Section 9 of your FY 11-12 Annual Report, and refer to any required submittals that are attached.

Section 10 - Provision C.10 Trash Load Reduction

**C.10.a.iii ► Minimum Full Trash Capture (Summary of Actions)**

Provide the following:

- 1) Descriptions of actions/tasks initiated, conducted or completed in implementing Minimum Full Trash Capture Devices (due July 1, 2014), including numbers of devices, device types and total land area treated to-date by full capture devices;
- 2) Descriptions of planned actions/tasks and time schedules for completion;
- 3) A map that includes locations of all full capture devices installed (private and public) to-date and associated treatment areas, trash generation rates/areas, creek/shoreline trash hot spots, and trash management areas defined to-date.
- 4) A summary of maintenance activities implemented for each device or groups of devices, including descriptions of typical maintenance frequencies and issues associated with maintaining these devices.

**Descriptions of Actions/Tasks (Conducted or Planned):**

Full capture NA for ACFC&WCD

The ACFC&WCD operates/maintains partial trash capture devices at 18 of its 22 pump stations.

**Descriptions of Maintenance Activities:**

**C.10.a.iii ► Minimum Full Trash Capture (List of Devices)**

Provide a list of trash full capture devices installed to-date or planned for installation by July 1, 2014 and the land area treated by each device or group of devices.

The ACFC&WCD operates/maintains partial trash capture devices at 18 of its 22 pump stations.

Applicable Trash Management Area (Preliminary Map ID)	Device Type	Planned or Installed	Maintenance Frequency	Total Number Installed	Total Area Treated (acres)
<b>Totals</b>					

**C.10.b.iii ► Trash Hot Spot Assessment**

Provide the volume of material removed from each Trash Hot Spot cleanup, and the dominant types of trash (e.g., glass, plastics, paper) removed and their sources to the extent possible. Additionally, include a map that identifies the location(s) of trash hot spots.

Trash Hot Spot	Cleanup Date	FY 2012-13 Volume of Trash Removed ( cubic yards)	FY 2011-12 Volume of Trash Removed (cubic yards)	FY 2010-11 Volume of Trash Removed (cubic yards)	Dominant Type(s) of Trash	Trash Sources (where possible)
ala_sem_1 Rainbow Rec. Center 5800 International Blvd. Oakland 94621	07/17/12 12/19/12 01/11/13 02/05/13 04/09/13 04/16/13	6 cy 3 cy 2 cy 8 cy 4 cy 6 cy	7 cy	22 cy	Typical household garbage, paper, plastic bags and bottles, styrofoam and household furniture	Illegal dumping from landlords and evicted tenants
ala_per_1 5401 Coliseum Way. North side Oakland 94601	8/24/12 9/18/12 10/9/12 01/31/13 02/01/13 02/26/13 03/21/13	6 cy 8 cy 6 cy 2 cy 2 cy 4 cy 4 cy	8 cy	24 cy	Paper, glass, plastic bags, styrofoam, concrete pieces, lumber and construction debris	Illegal dumping and neighboring business.
ala_sem_2 5401 Coliseum Way. South side, Oakland 94601	05/08/13 05/09/13 07/19/13	8 cy 8 cy 6 cy	14 cy	14 cy	Paper, plastic bags and styrofoam	Illegal dumping and neighboring business.
ala_san_2 u/s and d/s of Washington Ave. San Leandro	09/12/12 11/02/12 11/09/12 11/14/12 11/15/12	8 cy 3 cy 16 cy 10 cy 8 cy	81 cy	1 cy	Paper, plastic bags, styrofoam, shopping carts and homeless encampment debris.	Littering from pedestrians, motorists, trespassers & illegal dumping
ala_san_1 u/s and d/s of Hegenberger,	09/12/12 11/14/12	4 cy 10 cy	80 cy	16 cy	Paper, plastic bags and bottles, styrofoam, glass bottles,	Littering from pedestrians, motorists,

Rd Oakland					aluminum cans / lumber	trespassers & illegal dumping.
ala_san_2 u/s and d/s of 98th Ave. Oakland.	09/11/12 11/15/12 11/16/12 01/17/13 01/23/13 01/25/13 01/30/13 02/21/13 02/22/13	6 cy 24 cy 10 cy 20 cy 5 cy 40 cy 24 cy 6 cy 4 cy	99 cy	18 cy	Paper, plastic bags and bottles, styrofoam, glass bottles, aluminum cans and lumber.	Littering from pedestrians, motorists, trespassers & illegal dumping.
ACF WAR 2 300' upstream of 20 tide gate structure, Veasy St., Union City	9/23/12 6/9/13	5 cy 5 cy	10cy	9 cy	Woody debris, household garbage, furniture, plastic, paper, toys, balls, cans, bottles, Styrofoam, fires.	Illegal dumping from upstream reaches abutting schools and apartments.
ACFWAR 1 downstream Folsom Ave., Hayward	11/5/12 3/18/13 7/9/13	4 cy 4cy 3 cy	15 cy	11 cy	Tires, plastic, paper, household garbage, shopping carts, cans, bottles.	Illegal dumping from upstream reaches abutting schools and apartments.
ACF 5 C 1100' upstream Logan Dr., Fremont	6/24/13	4 cy	6 cy	2 cy	Paper, plastic, food wrappers, cans, bottles, Styrofoam.	Debris migrates over/under the fence abutting a school.
ACF 5 D 1300' upstream of Line B, Mowry Ave., Fremont	9-17-12 3-10-13	8 cy 8 cy	10 cy	10 cy	Cans, bottles, Styrofoam, woody debris, household garbage, fires.	Illegal dumping from upstream reaches abutting residential, apartments and schools.

<b>C.10.c ► Long-Term Trash Load Reduction Plan</b>	
Provide descriptions of the progress made to-date on the development of Long-term Trash Load Reduction Plans due to the Water Board by February 1, 2014.	
<b>NA for ACFC&amp;WCD</b>	
<b>Long-Term Plan Task</b>	<b>Summary of Progress</b>
1. Identifying and mapping trash generating areas	
2. Identifying trash sources (as necessary or feasible) to assist in selecting trash management actions	
3. Prioritizing trash generating areas and associated types of trash problems	
4. Identifying and selecting trash management actions for specific management areas	
5. Defining the type of assessment(s) that will be used to demonstrate progress towards goals	

**C.10.d Summary of Trash Reduction Actions**

For each trash reduction action (i.e., control measures and best management practices) implemented by your municipality during the reporting period include a full description of the action. Describe actions initiated prior to and continued after the MRP effective date (December 2009), actions initiated after the MRP effective date, and actions planned for future implementation. If a planned action, also include the planned date of implementation. Add rows for actions not listed below as needed. Also identify the dominant source of trash and dominant types of trash removed for each action. To the extent possible, identify the applicable management areas identified on the map created under reporting section C.10.a.iii

**NA for ACFC&WCD**

Action	Description	Trash Management Area(s) (Preliminary Map ID)	Dominant Sources	Dominant Types
<b>Trash Management Area Specific Actions</b>				
Full-Capture Treatment Devices	Continued Pre-MRP Actions:			
	New/Enhanced Post-MRP Actions Initiated/Planned:			
Street Sweeping	Continued Pre-MRP Actions:			
	New/Enhanced Post-MRP Actions Initiated/Planned:			
On-land Trash Cleanups	Continued Pre-MRP Actions:			
	New/Enhanced Post-MRP Actions Initiated/Planned:			
Partial-Capture Treatment Devices	Continued Pre-MRP Actions: The ACFC&WCD operates/maintains partial trash capture devices at 18 of its 22 pump stations.	Throughout the District	Municipal stormdrain systems	All
	New/Enhanced Post-MRP Actions Initiated/Planned: Continued action and install of trash capture devices at new pump stations			
Enhanced Storm Drain Inlet Maintenance	Continued Pre-MRP Actions:			
	New/Enhanced Post-MRP Actions Initiated/Planned:			

**C.10.d Summary of Trash Reduction Actions**

For each trash reduction action (i.e., control measures and best management practices) implemented by your municipality during the reporting period include a full description of the action. Describe actions initiated prior to and continued after the MRP effective date (December 2009), actions initiated after the MRP effective date, and actions planned for future implementation. If a planned action, also include the planned date of implementation. Add rows for actions not listed below as needed. Also identify the dominant source of trash and dominant types of trash removed for each action. To the extent possible, identify the applicable management areas identified on the map created under reporting section C.10.a.iii

**NA for ACFC&WCD**

Action	Description	Trash Management Area(s) (Preliminary Map ID)	Dominant Sources	Dominant Types
Activities to Reduce Trash from Uncovered Loads	Continued Pre-MRP Actions:			
	New/Enhanced Post-MRP Actions Initiated/Planned:			
Anti-littering and Illegal Dumping Enforcement Activities	Continued Pre-MRP Actions:			
	New/Enhanced Post-MRP Actions Initiated/Planned:			
Improved Trash Bins/Container Management	Continued Pre-MRP Actions:			
	New/Enhanced Post-MRP Actions Initiated/Planned:			
Creek, Channel, Shoreline Cleanups	Continued Pre-MRP Actions:			
	New/Enhanced Post-MRP Actions Initiated/Planned:			
<b>Area/Jurisdictional-wide Actions</b>				
Single-Use Carryout Bag Policies	Continued Pre-MRP Actions:	Jurisdiction-wide		
	New/Enhanced Post-MRP Actions Initiated/Planned: See the C.10 Trash Load Reduction section of the Countywide Program's FY 12/13 Annual Report for a summary of the Countywide single-use bag ban.			
Polystyrene Foam Food Service Ware Policies	Continued Pre-MRP Actions:	Jurisdiction-wide		

**C.10.d ► Summary of Trash Reduction Actions**

For each trash reduction action (i.e., control measures and best management practices) implemented by your municipality during the reporting period include a full description of the action. Describe actions initiated prior to and continued after the MRP effective date (December 2009), actions initiated after the MRP effective date, and actions planned for future implementation. If a planned action, also include the planned date of implementation. Add rows for actions not listed below as needed. Also identify the dominant source of trash and dominant types of trash removed for each action. To the extent possible, identify the applicable management areas identified on the map created under reporting section C.10.a.iii

**NA for ACFC&WCD**

Action	Description	Trash Management Area(s) (Preliminary Map ID)	Dominant Sources	Dominant Types
	New/Enhanced Post-MRP Actions Initiated/Planned:			
Public Education and Outreach Programs	Continued Pre-MRP Actions: See the C.10 Trash Load Reduction section of the Countywide Program's FY 12/13 Annual Report for a summary of related outreach activities. New/Enhanced Post-MRP Actions Initiated/Planned: See the C.10 Trash Load Reduction section of the Countywide Program's FY 12/13 Annual Report for a summary of related outreach activities.	Jurisdiction-wide		

**Section 11 - Provision C.11 Mercury Controls**

**C.11.a.i ► Mercury Recycling Efforts**

List below or attach lists of efforts to promote, facilitate, and/or participate in collection and recycling of mercury containing devices and equipment at the consumer level (e.g., thermometers, thermostats, switches, bulbs).

See the Countywide Program's FY 12/13 Annual Report for a description of related activities.

**C.11.a.ii ► Mercury Collection**

Provide an estimate of the mass of mercury collected through these efforts, or provide a reference to a report containing this estimate.

Please refer to the FY 12-13 Countywide Program Annual Report for an estimate of the mass of mercury collected through collection and recycling efforts in the Countywide Program area

Mercury Containing Device/Equipment	Total Amount of Devices Collected	Estimated Mass of Mercury Collected
Fluorescent Lamps <sup>62</sup> (linear feet)		
CFLs <sup>63</sup> (each)		
Thermostats <sup>64</sup> (each)		
Thermostats (lbs)		
Thermometers (each)		
Switches (lbs)		
<b>Total Mass of Mercury Collected During FY 2011-2012:</b>		

<sup>62</sup> Only linear fluorescent lamps should be included

<sup>63</sup> Only compact fluorescent lamps should be included

<sup>64</sup> Thermostats can be reported by quantity or by pounds. Whichever unit is used, please avoid double-counting.

- C.11.b ▶ Monitor Methylmercury**
- C.11.c ▶ Pilot Projects to Investigate and Abate Mercury Sources in Drainages**
- C.11.d ▶ Pilot Projects to Evaluate and Enhance Municipal Sediment Removal and Management Practices**
- C.11.e ▶ Conduct Pilot Projects to Evaluate On-Site Stormwater Treatment via Retrofit**
- C.11.f ▶ Diversion of Dry Weather and First Flush Flows to POTWs**
- C.11.g ▶ Monitor Stormwater Mercury Pollutant Loads and Loads Reduced**
- C.11.h ▶ Fate and Transport Study of Mercury In Urban Runoff**
- C.11.i ▶ Development of a Risk Reduction Program Implemented Throughout the Region**
- C.11.j ▶ Develop Allocation Sharing Scheme with Caltrans**

State below if information is reported in a separate regional report. Municipalities that participate directly in regional activities to can provide descriptions below.

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 12-13 Annual Report and/or the BASMAA Regional POC Report.

**Section 12 - Provision C.12 PCBs Controls**

**C.12.a.ii,iii ▶ Ongoing Training**

*(For FY 10-11 Annual Report and Each Annual Report Thereafter)* List below or attach description of ongoing training development and inspections for PCB identification, including documentation and referral to appropriate regulatory agencies (e.g. county health departments, Department of Toxic Substances Control, California Department of Public Health, and the Water Board) as necessary.

Description:

See the FY 12-13 Program Annual Report for a description of training provided countywide.

**C.12.b ▶ Conduct Pilot Projects to Evaluate Managing PCB-Containing Materials and Wastes during Building Demolition and Renovation Activities**

**C.12.c ▶ Pilot Projects to Investigate and Abate On-land Locations with Elevated PCB Concentrations**

**C.12.d ▶ Conduct Pilot Projects to Evaluate and Enhance Municipal Sediment Removal and Management Practices**

**C.12.e ▶ Conduct Pilot Projects to Evaluate On-Site Stormwater Treatment via Retrofit**

**C.12.f ▶ Diversion of Dry Weather and First Flush Flows to POTWs**

**C.12.g ▶ Monitor Stormwater PCB Pollutant Loads and Loads Reduced**

**C.12.h ▶ Fate and Transport Study of PCBs In Urban Runoff**

**C.12.i ▶ Development of a Risk Reduction Program Implemented Throughout the Region**

State below if information is reported in a separate regional report. Municipalities that participate directly in regional activities to can provide descriptions below.

Summary

A summary of countywide Program and regional accomplishments for these sub-provisions are included within the C.12 PCB Controls section of Program's FY 12-13 Annual Report and/or the BASMAA Regional POC Report.

**Section 13 - Provision C.13 Copper Controls**

**C.13.a.iii.(2) ▶ Training, Permitting and Enforcement Activities**

*(FY 11-12 Annual Report and each Annual Report thereafter)* Provide summaries of activities implemented to manage waste generated from cleaning and treating of copper architectural features, including copper roofs, during construction and post-construction including. :

- Development of BMPs on how to manage the water during and post construction
- Requiring the use of appropriate BMPs when issuing building permits
- Educating installers and operators on appropriate BMPs
- Enforcement actions taken again noncompliance

NA

**C.13.a.iii.(3) ▶ Evaluation of Effectiveness**

*(FY 12-13 Annual Report)* Evaluate the effectiveness of measures the agency has undertaken to prevent discharge of wastewater to storm drains during the installation, cleaning, treating, and washing of the surface of copper architectural features. The discussion of the effectiveness of these measures should include BMP implementation and may propose additional measures to address this source of pollutants.

NA

**C.13.c ▶ Vehicle Brake Pads**

Reported in a separate regional report.

A summary of the countywide Program's participation with the Brake Pad Partnership (BPP) is included within the C.13 Copper Controls section of Program's FY 12-13 Annual Report and/or the BASMAA Regional POC Report.

**C.13.c.iii ▶ Water Quality Issues Associated with Automobile Brake Pads**

*(FY 12-13 Annual Report Only)* – Assess status of copper water quality issues associated with automobile brake pads and recommend brake-pad related actions for inclusion in subsequent permits if needed.

An assessment of copper water quality issues associated with automobile brake pads and recommend brake-pad related actions for inclusion in subsequent permits is included within the C.13 Copper Controls section of Program's FY 12-13 Annual Report and/or the BASMAA Regional POC Report.

**C.13.d.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  
NA

**C.13.e ► Studies to Reduce Copper Pollutant Impact Uncertainties**

Report on progress of studies being conducted countywide or regionally to reduce copper pollutant impact uncertainties. State below if information is reported in a separate regional report.

Summary  
A summary of the countywide Program and/or regional efforts to develop regional studies to reduce copper pollutant impact uncertainties is included within the C.13 Copper Controls section of Program's FY 12-13 Annual Report and/or BASMAA Regional POC Report.

**Section 14 - Provision C.14 PBDE, Legacy Pesticides and Selenium Controls**

**C.14.a ► Control Programs for PBDEs, Legacy Pesticides and Selenium Controls**

Report on progress of studies being conducted countywide or regionally to characterize the distribution and pathways of PBDEs, legacy pesticides, and selenium. State below if information is reported in a separate regional report.

**Summary**

A summary of the countywide Program and regional efforts related to the Control Program for PBDEs, Legacy Pesticides and Selenium is included within the C.14 PBDE, Legacy Pesticides and Selenium section of Program's FY 12-13 Annual Report and/or BASMAA Regional POC Report.

**C.14.a.v. ► Control Programs for PBDEs, Legacy Pesticides and Selenium Controls – Load Computation**

*(For FY 12-13 Annual Report only)* Submit a report with information required to compute loading estimates of PBDEs, legacy pesticides and selenium from urban runoff to the Bay.

**Summary**

Information required to compute loading estimates of PBDEs, legacy pesticides and selenium from urban runoff to the Bay is included within the C.14 PBDE, Legacy Pesticides and Selenium section of Program's FY 12-13 Annual Report and/or BASMAA Regional POC Report.

**C.14.a.vi. ► Control Programs for PBDEs, Legacy Pesticides and Selenium Controls – Control Measures**

*(For FY 12-13 Annual Report only)* Submit a report identifying control measures and/or management practices to reduce impacts from discharges of PBDEs, legacy pesticides or selenium in urban runoff.

**Summary**

A report identifying control measures and/or management practices to reduce impacts from discharges of PBDEs, legacy pesticides or selenium in urban runoff is included within the C.14 PBDE, Legacy Pesticides and Selenium section of Program's FY 12-13 Annual Report and/or BASMAA Regional POC Report.

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

**C.15.b.iii.(1), C.15.b.iii.(2) ► Planned and Unplanned Discharges of Potable Water**

Is your agency a water purveyor?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
If <b>No</b> , skip to C.15.b.vi.(2):				
If <b>Yes</b> , Complete the attached reporting tables or attach your own table with the same information. Provide any clarifying comments below.				
Comments:				

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

<p>Provide implementation summaries of the required BMPs to promote measures that minimize runoff and pollutant loading from excess irrigation. Generally the categories are:</p> <ul style="list-style-type: none"> <li>• Promote conservation programs</li> <li>• Promote outreach for less toxic pest control and landscape management</li> <li>• Promote use of drought tolerant and native vegetation</li> <li>• Promote outreach messages to encourage appropriate watering/irrigation practices</li> <li>• Implement Illicit Discharge Enforcement Response Plan for ongoing, large volume landscape irrigation runoff.</li> </ul>
<p>Summary:          A summary of the Countywide Program's effort to promote the use of less-toxic pest management and the use of drought tolerant and native vegetation is included within the C.7 Public Information and Outreach section of the Countywide Program's FY 12-13 Annual Report.</p>

<b>C.15.b.iii.(1) ► Planned Discharges of the Potable Water System</b>										
Site/ Location	Discharge Type	Receiving Waterbody(ies)	Date of Discharge	Duration of Discharge (military time)	Estimated Volume (gallons)	Estimated Flow Rate (gallons/day)	Chlorine Residual (mg/L)	pH (standard units)	Discharge Turbidity <sup>65</sup> (NTU)	Implemented BMPs & Corrective Actions
None										

<sup>65</sup> Monitor the receiving water for turbidity if necessary and feasible. Include data in this column if available.

**C.15.b.iii.(2) ► Unplanned Discharges of the Potable Water System<sup>66</sup>**

Site/ Location	Discharge Type	Receiving Waterbody(ies)	Date of Discharge	Discharge Duration (military time)	Estimated Volume (gallons)	Estimated Flow Rate (gallons/day)	Chlorine Residual (mg/L) <sup>67</sup>	pH (standard units) <sup>52</sup>	Discharge Turbidity (Visual) <sup>52</sup>	Implemented BMPs & Corrective Actions	Time of discharge discovery	Regulatory Agency Notification Time <sup>68</sup>	Inspector arrival time	Responding crew arrival time
None														

<sup>66</sup> This table contains all of the unplanned discharges that occurred in this FY.

<sup>67</sup> Monitoring data is only required for 10% of the unplanned discharges. If you monitored more than 10% of your unplanned discharges, report all of the data collected.

<sup>68</sup> . Notification to Water Board staff is required for unplanned discharges where the chlorine residual is >0.05 mg/L and total volume is ≥ 50,000 gallons. Notification to State Office of Emergency Services is required after becoming aware of aquatic impacts as a result of unplanned discharge or when the discharge might endanger or compromise public health and safety.

## **Alameda County Flood Control and Water Conservation District – Section C.7 PIP Attachments**

C.7.1 Alameda County Resource Conservation District  
FY12/13 Final Report

C.7.2 Tule Ponds at Tyson Lagoon FY 12/13 Annual Activities  
Report

C.7.3 Friends of Sausal Creek Annual Activities Report  
FY12/13

C.7.4 Friends of San Leandro Annual Activities Report  
FY12/13

C.7.5 Oakland Clean Creeks FY12/13 Summary

C.7.6.a Native Garden Tour FY12/13 Summary

C.7.6.b Native Garden Tour FY 12/13 Statistics Summary

Date: 8/8/13

To: Sharon Gosselin, ACFC&WCD; Cynthia Butler, ACRC

From: Amy Evans, Alameda County RCD

RE: Final Report FY 2012/13- ACRC contract C- 5013

The Alameda County RCD contract with the Alameda County Flood Control and Water Conservation District for FY2012/13 includes a number of tasks; some of these with activities have been organized into the following three sections: public outreach events, citizen involvement events and school age children outreach. Following these sections is a list of contract tasks with additional information that was not classified into these categories.

Please note that the activities listed in the report below are in the same order as on the Consultant Annual Report Form

## **Public Outreach Events**

### ***Watershed Science Expo at Palomares School (Task 2)***

The Watershed Science Expo was held at Palomares School, Castro Valley, on Friday 5/17/13, from 8:30-2:30 PM. Local schools in the San Lorenzo Creek watershed attended, along with many parent volunteers. The Expo exhibitors came from all over the county, although fewer were available this year than in past years due to staffing shortages.

The watershed education-focused day featured watershed/hands-on science -focused activity stations for 3<sup>rd</sup> grade students. Palomares students, trained as "Creek Tour Guides" during an afterschool program, give continual tours of the creek during the day to all participants. A presentation featuring live, local wildlife was given by trained naturalists for groups of students during the day.

3<sup>rd</sup> grade students came from 14 classes from 3 schools from Castro Valley and San Lorenzo. Over 445 students, 2 principals, 14 teachers and 90 parent helpers attended. 35 parent/community and PTA volunteers helped out with myriad tasks. This year 14 natural resource and science education agencies and organizations had activity stations at the Expo; there were a total of 17 stations.

This year, RCD staff hosted two activity stations. The first, conducted alongside the creek was a "creek critters" station at which students could practice identifying aquatic insects that are typically found in Palomares Creek and learn about watersheds and water quality protection by interacting with a watershed diorama. The second station was situated in the school garden, and focused on alternative methods of pest control in order to reduce impact on creek life and native pollinators. Students learned about how insects are impacted by pesticides, specifically native bees and honey bees. A "bee search" was done in the school garden by the students.

The number of classes that could attend the Expo was reduced this year due to difficulty with scheduling and funding shortages at the schools. Some classes were able to attend later in May and June as visiting schools which are described below under School-Age

Children outreach.

Extensive donations of materials came from the local sanitary district, stores, small businesses, adult school, and nearby schools. The Palomares Parent Club provided many adult volunteers who organized and presented a lunch for the exhibitors.

Evaluation: all teacher responses (8 received) were positive; teachers appreciated the opportunity to learn about their watershed in hands-on activities conducted at a natural creek setting.

For the 3<sup>rd</sup> year, students participated in a trash cleanup at each station during the course of the Expo. This effort is described below under Citizen Involvement.

***Earth Day Event , Moreau High School, Hayward (Task 1)***

ACRCD Hands-On Conservation was represented at the event, and staffed a table on 4/25/13 with "Creek Care" photo display materials and met informally with students for 1.5 hours during the event to invite students to the upcoming Earth Day creek cleanup volunteer workday at Castro Valley Creek. Met and talked with approximately 24 high schools students, 3 other organization tablers, and 2 staff members. The school student body attended the event during lunch periods. Twenty handouts on the 4/27/13 Castro Valley Earth Day event were given out to students, with many freshmen being enthusiastic about coming to the event as they have extensive environment-focused community service requirements for that year of school.

(Flood Control District)

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

ACRCD staffed a table at the Faire on 3/28/13 with a photo display of local Hands-On Conservation projects and talked informally with students for 1.5 hours during the Fair on the topics of "Creek Care" and Earth Day volunteer opportunities at the nearby Union City Civic Center Park in Union City as part of the Hands-On Conservation Program. Approximately 35 high schools students, 6 other tabling organizations and 6 staff members. Most of the school's students that are on campus at the lunch hour attended the fair; estimated student attendance at the fair is 100-150 students visiting 15 tables. Twenty-five handouts on protecting and participating in creek cleanup activities, including the 4/21/13 workday, were taken by students, teachers and other exhibitors and visitors. A great way to publicize the close-by stewardship opportunities available to students and to inform teachers of the program.

(Flood Control District)

***Alameda Creek Watershed Council events and activities (Task 6)***

RCD staff planned and conducted two Alameda Creek Watershed Council events during 2012/13 for watershed stakeholders, including Council members, members of the public and watershed organizations, college students, teachers and students.

RCD staff facilitated the Annual Alameda Creek Watershed Council Conference, held

October 25<sup>th</sup> 2012 at the Dublin Library, which highlighted current research and restoration activities in the watershed, and encouraged networking and communication between the 55 stakeholders who attended. A tour of the new Alamo Canal bike lane was held during the lunch hour, hosted by Friends of the Arroyos and the City of Dublin.

A full day workshop on water quality assessments was conducted in conjunction with the Bay Area Watershed Network in Oakland on 5/20/13, with 70 participants. A matrix of what assessment methods are being used by which organizations or agencies was generated as a product of the workshop, with assistance from RCD staff.

Council planning workgroup meetings were held on 8/29/12 and 3/20/13. The group discussed a new website, potential meeting speakers, and a potential name change and update to the focus of the Council. A new website was sketched out in May and will be developed and implemented in the next fiscal year. RCD staff facilitated Council meetings and the planning workgroup sessions. Work done under Task 6 was used at match for the RCD's an EPA grant that funds water quality improvement BMPs at properties in several sub watersheds in the Alameda Creek Watershed.

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

This project is a subcontract in the ACRCO County Outreach contract. The tour was held on 5/5/13.

**Citizen Involvement Events**

***Community Stewardship Grants Program (Task 9)***

This ACCWP program, which distributes grant funds to various groups for watershed protection projects, is administered through the RCD. Five projects were funded through the \$20,000 in grant funds in the FY12/13 grant cycle; details are in the ACCWP report. 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 and answering grantee questions. All of the projects from the 2011/12 cycle were completed as well, and final funds were paid out in October 2012. In March 2013 work began on the 2013/14 grant cycle.

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

*Creek Cleanups/Planting Native Vegetation*

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. Activities during FY2012/13 included these events:

***Union City Civic Center Park, Union City***

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 1/8 mile to Alameda Creek. The site is very close to Logan High School, which is the primary source of volunteers for the Hands-On Conservation workdays.

Workdays included Earth Day (4/21/13) and World Water Monitoring Day (9/22/12). A "Creek Care" workday in which the creek side plantings were maintained was held on 11/10/12. Workdays included trash removal from creek banks, planting and maintaining irrigation for native plants in a creek side trail area, invasive plant removal and educational walks along the creek as trash is picked up. Water quality monitoring was done in September and results reported to the World Water Monitoring Day website. Students from the Logan High School (Union City) Ecology class, Sustainability Club and Interact Club and other student and community volunteers participated. Ecology teachers participated at events and co-led water quality testing training event; a higher number of students turned out for this event because they received extra credit from teachers and community service hours as well.

Workdays averaged 15-20 people, primarily high school students and local residents, several teachers and group leaders. Trash cleaned up during the workdays included approximately 2 large (12 cu ft) trash bags filled for each event. Trash was sorted and recycled. Approximately 1200' linear feet of creek banks cleaned (3 times =3600'). The park trail that winds along the creek and around a pond was cleaned up throughout the park during the 3 events.

Coordination was maintained with Union City Parks staff to maintain tools in the shed at the site and to provide wildflower seed for planting at the site. Previous plantings were maintained with weeding, mulching and irrigation replacement, and several new shrubs were planted. 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.

***Logan High School Bay Friendly Garden installation, Union City***

A 250 square foot Bay Friendly garden was planned and installed by Logan students, Sustainability Club members, and their biology teacher, with assistance provided by the Hands-On Conservation program. Two planting events were held, on 1/21/13, MLK National Day of Service, and on 2/18/13 Washington's birthday holiday. 15-20 students participated at each event; the site was prepared for planting, plants and trails laid out and 30 plants installed with irrigation. Students had prepared planting plans and selected plants that would require little water but which had wildlife benefits. An area of lawn on campus was replaced by the garden. Plant signage was fabricated and installed at the workdays. The student Garden Club will help maintain it.

***Hands-On Conservation workday at Dig Deep Farm, San Leandro***

30 Students from the environmental club and their teacher/advisor from San Lorenzo High School planted native grasses on Saturday 2/23/13 to control erosion and help infiltrate rain water at the farm edge, and assisted with care of crops at the non-profit farm in the San

Leandro hills. Watershed lessons were led by the Earth Team organization, and bus transport was also provided by that organization for the event. The farm site is in the upper watershed (headwaters) of Estudillo Canal, which is also the watershed that the high school is in, and that connection was made with the students. Staff from Dig Deep led a farm tour and talked about land management for farming with the students. The Hands-On Conservation program initiated and facilitated the event, and provided the native grass plants and provided tools and equipment for the project, as well as providing informal education to the students on land stewardship and related careers. A 100'x 10' row of crops was weeded by the students and 100 plugs of native grass planted. Students worked side by side with disadvantaged community members who work for Dig Deep, and the farm manager and assistants. All parties involved in the project were very enthusiastic about the day's activities and want to repeat it at their downtown farm near San Lorenzo next year. The high school students had wanted a local project in their watershed with which they could have a long term involvement, and this project instigated that connection.

(Unincorporated area)

#### ***Sunol Agpark Hedgerows, Sunol***

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 in the hedgerows, wildflowers in the grass filter strip, removed invasive plants and weeds in the grass filter strip and native plant hedgerow. The hedgerows provide habitat for pollinators and beneficial insects. The grass filter strip prevents sediment from the farm fields from entering the creek corridor.

A Sunol community workday was held with 10 volunteers at the hedgerow on 3/2/13 during which native flowering plants and grasses were planted. A much larger group of 80 volunteers from Clif Bar came on 6/13/13 to mulch and weed the 800' hedgerow, monitor beneficial insects, create and install plant signage, and organize educational materials.

An AgPark hedgerow tour and talk was given by RCD staff Amy Evans to approximately 20 people as part of a 4/3/13 workshop on hedgerows that was given by SAGE.

RCD staff assisted with a hedgerow planning, design and installation project with approximately 50 Kennedy High School (Fremont) and Castlemont High School (Oakland) students and 10 teachers/chaperones for a new 200' segment of the hedgerow. SAGE (Sustainable Agriculture Education) led the project, with educational focus being the role of hedgerows in supporting beneficial insects and pollinators which are needed for the farm's organic program. RCD staff assisted with two creek tours and two planting sessions at the Agpark (12/6/13, 12/11/13, 1/18/13, 2/2/13).

(Unincorporated and Flood Control District)

#### ***Bay Trees Park, Native Plant Trail, Castro Valley, Hands-On Conservation***

Work continued at the native plant trail in Bay Trees Park. It is an adopted spot from ACFC&WCD that is adjacent to the intersection of Crow and Cull Creeks. Planting workdays with a range of 6-12 volunteers each were held on 9/29/12, 10/27/12, 12/8/12, 12/15/12, 2/16/13 and 3/23/13. On 12/15/13 a group of 40 students and teachers from the

environmental clubs at San Lorenzo High School planted a large number of plants, working in conjunction with the Earth Team organization, which provided the bus for the students and environmental lessons and activities, including creek water testing, creek cleanup and ivy removal from native trees.

The workdays had a "Creek Care" theme and stewardship activities reflected the actions that residents can take to protect creeks and enhance wildlife habitat along them. At the workdays student and community volunteers installed and repaired bender board to define pathways in a native plant trail, planted native plants, removed weeds, cleaned up trash along the creek banks in the park, and removed ivy from creek side trees. Approximately 50' of bender board was installed and 300' repaired, 35 plants installed with irrigation, mulch and plant caging. Overall, approximately 4 large bags (12 cu ft each) were filled with trash from creek side areas and the park trail. Continued to receive direct positive feedback from park users about the project. Hope to attract more students from Castro Valley High School next year, as they are launching a community service hours requirement.

***Castro Valley Creek, Castro Valley- Coastal Cleanup Day and Earth Day Cleanup with Hands-On Conservation***

Two cleanup events were held at Castro Valley Creek along the creek trail that extends from the Castro Valley Library to Castro Valley Blvd. These events were conducted in cooperation with the ACFC&WCD which provided access to the creek and pickup of the large volume of trash collected. For the 9/15/12 Coastal Cleanup Day the creek trail was cleaned up, invasive plants removed and native riparian plants along creek side trail were maintained. Coastal Cleanup Day required a written trash tally by volunteers and reporting of trash collected. Approximately 1000 linear feet of creek bank and trail was cleaned up by 29 student and community volunteers for Coastal Cleanup Day; 83 lbs of trash bagged up (16 trash bags); bulky items in addition, reported to CCDay officials. Being able to publicize the event on the official Coastal Cleanup website helped bring in volunteers for this effort, as it is widely publicized by many media sources.

The 4/27/13 Earth Day event was primarily a project of other involved agencies, especially Nate Miley's office and CVSan and the local group, Friends of San Lorenzo Creek; a pre-cleanup presentation was given by Friends group on the creek restoration that had taken place. Scott Seery from AC Environmental health provided excellent small group leadership for the creek cleanup due to his familiarity with the site. The Hands-On conservation program provided tools and equipment and leadership of small groups of volunteers. Similar activities were done at both events, except that Earth Day included spreading mulch on plantings along the trail, with a total of 30 volunteers working at this spot. They cleaned up a similarly large volume of trash: 14 large trash bags and similar volume of bulky items (12 cu ft each bag); other garbage along 1000' of creek and trail. The Earth Day cleanup at this spot is the Friends of San Lorenzo Creek's primary annual service project, and they expressed appreciation for the help from the Hands-On Conservation program.

These are excellent stewardship projects because of the relatively large turnout of local

volunteers, and because of the real need for cleanup of this highly visible and widely used creek trail and restoration spot.

***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 4/27/13. 43 Parent volunteers and community members worked at the school to clean up the campus, to clear debris and provide erosion control along the trail, remove invasive plants and poison oak in preparation for the Expo. Approx. 400-500 linear feet of creek area/ trail was improved.

***Earth Day- Alameda Creek, Niles with Hands-On Conservation (Task 1)***

The Saturday 4/20/13 creek cleanup was initiated by the Hands-On Conservation program and publicized and conducted in collaboration with the Alameda Creek Alliance at their newly adopted spot along Alameda Creek in Niles. ¼ mile of creek bank was cleaned up by 16 community volunteers. 5 large trash bags were filled (bag size 12 cu ft), with bulky materials collected in addition. ACA staff Ralph Boniello talked with the group about Alameda Creek and its fisheries that they have been working hard to restore with the cooperation of local agencies. The EBRPD Niles Staging Area is an excellent spot for staging a cleanup, as it has the necessary facilities and good access to both the Alameda Creek flood control channel and the natural creek upstream. Bo

*(Flood Control District)*

***School wide Trash Cleanup at Palomares School Watershed Science Expo (Task 2)***

A school wide Campus Trash Cleanup was held during the Palomares Watershed Science Expo on 5/17/13 (Expo described above under Public Outreach Event). The trash pickup activity was done by groups of students, exhibitors, teachers and volunteers at each of 17 stations during the day. Each activity station was given a trash bag and asked to have each group of students pick up trash from the area surrounding the station on the campus. Trash was collected at the end of the day from each station and recycled by a team of 6 Jr. Naturalists- primarily Palomares Elementary students. 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.

***School-Age Children Outreach***

***Palomares School Watershed Education- Castro Valley (Task 2)***

*(Unincorporated and Flood Control District )*

***Visiting Schools at Palomares School***

Because two of the schools that typically attend the May Watershed Expo, Colonial Acres and Del Rey in San Lorenzo could not come that day (May 17<sup>th</sup>) they instead came two classes at a time on four days in May and June (5/29, 5/31, 6/3 and 6/4/13). Each class had hands-on creek lessons at the outdoor classroom at the school, and creek tours led by

the Palomares Tour Guides, and other student-led activities. A total of 228 students, 8 teachers, and 72 chaperones attended over the course of the four days.

***Bi-Weekly watershed and creek science lessons during the school day at Palomares School***

Creek and watershed lessons were conducted between October and May in the 2012/13 school year for Palomares students in K-5<sup>th</sup> grades. 94 watershed-based lessons were taught to classes of 24-32 students at the school campus by the credentialed teacher and watershed educator Sherry Johnson. 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; these are tied to math and science exercises and part of the schools science program. Lessons for Palomares students primarily take place on campus at outdoor classroom at the creek. Curriculum is tied to state standards for each grade level and is science based.

Hands-on erosion control and invasive plant removal continued to be done at the Palomares campus by students during the school year, and a bioswale project continued to be fine tuned. A native plant garden and native grass area were established by the students this year. These stewardship activities are done by students with their teacher as part of creek protection lessons.

Palomares principal and teachers consider creek lessons to be a part of their regular science instruction, since creek lessons meet state standards. Therefore they allow time for the lessons during the school day. Science testing reflects what students learn.

***Palomares School after-school programs***

A Junior Naturalists after school program for 80 1<sup>st</sup>-5<sup>th</sup> grades and a Creek Tour Guides for 30 3<sup>rd</sup>-5<sup>th</sup> graders was held between April and June 2013. The number of students in the Junior Naturalists jumped from 60 to 80 this year. It is 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. Two Palomares teachers lead the two afterschool programs, and 3-5 parent volunteers assist them. Students in these programs lead creek tours for other students from other schools and their teachers and chaperones at the annual Watershed Expo; in leading the tours students demonstrate the material they have learned.

The Jr. naturalist and Tour Guides programs were highlighted in a presentation to the Castro Valley School Board and at the Palomares Elementary Open House event in May.

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## **Additional information and background on contract tasks 1-10 for Final Report:**

### **Task 1 Youth Stewardship - Hands-On Conservation And Youth Outreach Events**

*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 for information on HOC activities. RCD staff carried out stewardship workdays with students and community volunteers at the adopted spots and also engaged in site planning and maintenance activities in addition to the community workdays. Staff also maintains the HOC website where volunteers can register for workdays. 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. Adopt-A-Spot agreements were renewed for two sites, Bay Trees Park and the flood control channel in the Union City Civic Center Park. Two RCD interns helped at some of the workdays which had larger numbers of volunteers. Signups for workdays are made through the [handsonconservation.org](http://handsonconservation.org) website.

Two outreach events at local high schools included tabling and interacting with high school students at environmental/community service fairs in order to educate students in creek and watershed protection and to sign up students for creek habitat restoration workdays and creek cleanups as part of the RCD's Hands on Conservation Program, and to encourage other watershed protection actions. The two schools visited this year were Moreau high School in Hayward and Logan High School in Fremont.

### **Task 2 Palomares Watershed Education**

*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 was developed for the program which meets state standards and is directed and taught by Sherry Johnson, a credentialed teacher and ACRCDD staff member. After school programs include Junior Naturalists and Palomares Creek Tour Guides. This program has been ongoing since 2001.*

The many facets of the program are described above.

### **Task 3 Bringing Back the Natives 2013 Garden Tour- Kathy Kramer Consulting**

This project is a subcontract through ACRCDD. The annual native plant garden tour for the public was held on 5/5/13. 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.

### **Task 6 Alameda Creek Watershed Coordination Tasks**

*Tasks include coordination, education, outreach, and facilitation in order to improve Alameda Creek Watershed conditions.*

Meetings are described above under public outreach events. RCD staff Amy Evans and Crystal Simons coordinated meetings, and facilitated the Council planning workgroup. Amy assisted the Adopt a Creek Spot effort in the east Alameda Creek watershed area which began as part of the Council's stewardship projects in early 2012. The ACWC webpage: [www.acrcd.org/WatershedCouncil.aspx](http://www.acrcd.org/WatershedCouncil.aspx)

### **Task 7 Alameda County Watershed Forum (ACRCD subcontract)**

*The task was discontinued in FY12/13, and funds were redirected.*

### **Task 9 Community Stewardship Grants Program (CSGP)**

*Alameda County RCD administers the Alameda Countywide Clean Water Program's Community Stewardship Grant program. Five grants were awarded in FY12/13 which offered a total of \$20,000 in grant funding to watershed groups and others for water quality and conservation improvement activities. The FY11/12 program was successfully completed, and work began in March 2013 on the FY 13/14 program.*

### **Task 10 Storm water Information and Outreach Assistance**

*Cynthia Butler, RCD staff, works in conjunction with Sharon Gosselin as the Alameda County Clean Water Program Outreach and Public Information Coordinator.*

*Cynthia's activities are reported separately to Sharon, but include coordination activities with the PIP subcommittee, coordination of outreach events and materials, local media and communications activities and event planning, and coordination of a regional program for BASMA. 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**

Cynthia began work in May 2013 developing plans for Task 12 which includes the development of an interactive watershed map based on Google Earth, with a subcontract to the consultant, Fugro. Cynthia is overseeing other RCD staff that are developing the creek information for the map.

Submitted by:

Amy Evans, Resource Conservationist

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## **Tule Ponds at Tyson Lagoon Summary**

July 2012 – June 2013

submitted by Math Science Nucleus

### **School-Age Education Programs**

#### **Field Trips for K-6:**

Throughout this time period 100 field trips of schools throughout Alameda County were conducted for a total of 2850 children with 625 adults attending. The classes ranged from Kindergarten to sixth grade. Classes included 2 classes from the California School of Blind and Deaf, these presentations are customized to students.

A survey conducted with the 100 teacher gave a 100% excellent rating of overall content and tour that Math Science Nucleus staff provided. Many pointed out the ability to touch and feel nature in a closed and safe environment. All felt the classes fulfilled their science requirements in each of their particular grade. All said they would return again.

The goal of each lesson is listed on our website  
(<http://msnucleus.org/classes/fieldtyson.htm>)

We started a better electronic system to automatically provide teachers with a reminder, so we had very little trouble this year with cancellations.

#### **Special Presentations for College:**

We provided instruction to 5 college classes with a total of 150 students and 5 teachers. (Ohlone College and California State University, East Bay)

#### **Student Presentations during Summer**

We provided 3 different classes for students without charge. This included a DNA of Native Plants, Forestry, and Building Tule House. These classes are for general knowledge of the ponds and emphasize restoration. In July-August 2012 we conducted several projects for local students on DNA of native plants where student extracted DNA and compared to strawberries. We had 4 classes for a total of 80 upper elementary to junior high students attending. About 20 parents also attended.

#### **Scientific Intern Program**

We gave a presentation in October to high school students to learn about scientific and community service at Tule Ponds. We selected 5 students to be our scientific interns this year. They put in about 60 hours each for a total of 300 hours.

This year we concentrated on collecting chemical data including phosphates, sulfates, and nitrate data and comparing them to microorganisms. We had 6 stations in the lake

and students collected water and then collected data. Joe Chen was our lead student, who collected and analyzing the data. The report is given to Alameda County Flood Control and Water Conservation District.

### **Teacher Workshops**

We gave 2 teacher workshops with 18 teachers attending in the fall, and 25 attending in the spring. All of the workshops centered on basic ecological principles at Tule Ponds at Tyson Lagoon. All of our evaluations were excellent. Many of the teachers had brought their classes. We did get about 1/3 of the participants were informal educators in the community.

### **Public Outreach Events**

We had our two annual Open Houses. One open house was in the fall and the other one in the spring. We had over 550 people attend the events. Most people were from the East Bay and were family events.

#### **OPEN HOUSES AT TULE POND AT TYSON LAGOON**

Two open houses were held at Tule Ponds for the general public to walk on the many trails that we have created over the last few years. The fall program evolved around "Indian Summer" which allowed families to walk around the area and look for seeds and trees that the Ohlone Indians would collect during the fall to prepare for winter. About 225 people attended, which included earning prizes for the elementary age students.

The second open house was in April and revolved around Birds and all the many types and species that are around Tule Ponds. More information is below:

#### **April 13, 2013 Birds, Feathers, and Fun**



Springtime is when birds at Tule Ponds start to make nests and produce eggs for the next generation. Tule Ponds has about 100 different species of birds that live or visit during the year. Tule Ponds is alive with birds during the spring. Students had to describe 5 different birds and earned prizes for each type of bird they identified.

Approximately 300 people came to see Tule Ponds at Tyson Lagoon. Not only did families learn about the birds, but they also learned about the habitat provided by this unique wetlands. The classroom had displays on butterflies and moths that were in various stages. There were puzzles for the little ones and headbands, so children could become a different type of bird. Parents were pleased by the array of activities and appreciated this type of format. Some families even had a picnic in nature. Most families stayed an average of 2 hours to enjoy a pleasant day at Tule Ponds.



## **Citizen Involvement Events (Community Service/Service Learning)**

We conducted **community service** every Sat from 9:30-12:30 and approximate 1000 students provide 3 hours of community service. Many of these projects are maintenance including chipping of trails; weed abatement, planting, clearing wetland areas, painting, and much more.

We had a special **Make a Difference Day** for Tai Chi Chinese Service Club with 80 participants in March, 2013.

California State University East Bay again worked with Math Science Nucleus to work with their "**Freshman Day of Service.**" We provided 10 weeks of group service to 20 students each time. They were required to work 4 hours for a total of 800 hours. Each week we had another project that they accomplished as a group.

We also had 5 **Eagle projects** complete with a total of 100 helpers with a total of 500 hours. (Specific projects included with completion date).

**Irvington High School Environmental** change Projects had about 35 projects for a total of 140 students with approximately 560 hours into their projects. Staff spends at least 150 hours working with students. Typical projects included in this report.

### **PROJECTS FOR IRVINGTON "CHANGE"**

This is the 13<sup>th</sup> year that Tule Ponds was involved with Irvington High School and their Environmental Change Program. Students work in groups of 4 and volunteer a minimum of 40 hours to work on projects that are either collecting data or service learning. This year we had 35 projects for a total of 140 students with approximately 560 hours into their projects. Staff spends at least 150 hours working with students. Projects this year included, but were not limited to the following:

#### **Animals**

1. How can you control feral cat population? Service: build a feral cat home.
2. Raccoon and opossum population. How can you prevent raccoons and opossum from nesting in storm drains Service: build a home similar or get large pipe and hide with wood

<http://www.petfinder.com/how-to-help-pets/building-feral-cat-shelters.html>

#### **Trash**

1. How can you use the small creek to capture trash coming in from storm drains. Service: clear areas where cattails are to allow them to trap trash
2. How can you prevent trash from BART from coming under the fence? Service: picking up trash or designing a way to prevent trash from coming under the fences

### Bees

1. How can you create artificial areas for bees to live? Service: Designing bee area
2. How can you increase bee population? Service: planting native plants to attract bees

### Birds

1. Is Tule Ponds providing enough habitat for nests? Service: planting trees, shrubs, or plants with seeds
2. Making habitat for Clapper Rail at Tule Ponds ( removal of cattails)

### Butterflies

1. Which butterflies like what host plants? Service: pick one butterfly and determine its cycle and then plant the appropriate host plant.
2. Expanding butterfly meadow, presently have unknown caterpillars (would be nice to identify)

### Soil

1. What type of soil is produced by different native trees (determine pH). Service: Composting soil and put in flower bins
2. Comparing non native worms and native worms making compost Service: making worm bins

### Hydrology

1. Comparing constructed and natural wetlands Service: clearing sections of creek for better flow

### Plants

1. Why are native trees important? Service: take care of certain trees at Tule; planting trees in other locations (Stivers)
2. removal of non-native blackberries to increase frog population (yellow legged frog)
3. removal of non-native English Ivy and replace with native flowers
4. re-vegetating native poppies on hillside
5. Planting natives trees and care (along our BART) corridor... we need to fertilize and prune trees for growth
6. Growing and transplanting Tule in Pond C

### Pollution

1. How can the Tule Ponds at Tyson Lagoon educate the community on nonpoint pollution?

### Amphibian Habitat

1. Working along the creekbed to increase the yellow legged frog habitat. (this is hand digging creek bed)

### Reptile Habitat

1. Turtle (western pond) creating floating docks
2. Lizards (how can you create more habitats)

**Eagle Projects at Tule Ponds (2012-2013)**

<b>Joe Chen</b>	Troop 111	<b>Stairs and Landscaping Opposite Station 1 and 2</b> (complete, August, 2012)
<b>Joshua Wong</b>	Troop 468	<b>Building a Trail at Station 6</b> (complete, September, 2012)
<b>Raghav Rajvanshy</b>	Troop 125	<b>Stairs up Hayward Fault Scarp</b> (complete, October, 2012)
<b>Sean Hannah</b>	Troop 136	<b>Construction Picnic Tables, Clearing Area, and Planting Native Trees</b> (complete November, 2012)
<b>Vinay Pathania</b>	Troop 199	<b>Building a Bird Blind for Young Children</b> (complete December, 2012)

**Stairs and Landscaping Opposite Station 1 and 2**  
*by Joe Chen*  
*Troop 111, Fremont*



For my Eagle Project, I made a trail across from Pond C. This trail will be connecting the two roads that are at different elevations. As children come to Tule Ponds, they will be able use this trail to explore Pond C, especially during the rainy season when the road at lower elevation is flooded. This trail is roughly 150 feet long with an erosion barrier, made of wood logs. To finish off the project, I have covered the trail with woodchips.



*bottom part of trail*



*top part of trail*

A sincere thank you is necessary for everyone who assisted me on my project, let it be people who helped me with the write-up or physical project. I could not have written the project proposal without **Mr. Fong, Mr. Crocker, Mr. Rasheed, and Mr. Nygren**. I would also like to thank my parents Nick and Wendy Chen for their constant support (physically and financially) and supervision. I am extremely blessed with all my friends, fellow scouts, and adults who showed up to help me with the physical project: **Charles Guan, Justin Juan, Josh Lin, Lawrence Wang, Nicholas Lin, Janice Lin, Stefan Wooding, Jason Lau, Mr. Lau, Brandon Lu, Ning Jeng, Neal Nguyen, and Sridhar Nyshadham**. I could not have been able to finish it without them. Finally, I would like to thank **Dr. Blueford** for not giving up on me, especially for procrastinating sixteen months on this project. It was definitely a lifetime experience that I will never forget.

## Building a Trail at Station 6

*by Joshua Wong  
Troop 468, Fremont*



For my Eagle Project, I cleared most of the blackberry bushes in station 6 and made a trail that is outlined by wood stumps. This trail will allow the children to be able to stand close to the water, to play with the inhabitants near there. This trail will also allow the inhabitants to cross from the water to the seasonal wetlands. I spent 3 days completing this project, from clearing blackberry bushes to making a trail and cleaning up.



*area before day 1*



*area after day 1*

I would like to give thanks to those who came to my project and helped me. I really could not have done it without them. I would also like to thank the parents for volunteering to help out. I especially thank you for fitting my Eagle Project into your busy schedules and to actually come down to help out. Finally, I would like to thank Dr. Blueford for guiding me and giving me advice on my project. Without her supervision I would have made countless mistakes. I will always remember this as the biggest learning experience in my life.



*before day 2*



*after day 2*

**Stairs up  
Hayward  
Fault Scarp**  
*by*  
**Raghav  
Rajvanshy**  
*Troop 125, Fremont*



For my eagle project, I led a group of volunteers to significantly improve the accessibility of an area of Tule Ponds in Fremont, California. This area is a nice place for young children to visit but was not very accessible. Often, the kids tripped on the uneven, steep stairs that led up to the Hayward Fault Scarp. We removed the stairs that had some safety concerns, and replaced them with more even, less steep and more accessible stairs. We also cleared an overgrown trail that leads up to these stairs by removing non-native plants and trimming the overgrown branches. We then redefined the trail, landscaped it for weed abatement, and created a new access path to the improved stairs.



*taking out old steps*



*digging out stairs*

I really want to thank all the volunteers that came and helped out for taking out time from their busy schedules. Their names are **Sheng-Hao Huang, Omair Ajaz, Shrey Vasavada, Nihar Parikh, Ankit Bhatia, Karl Britto, Shivam Vakil, Harold Shi, Patrick Rivera, Mr. Craig Cooper, Mr. Shekhar Rajvanshy, Mrs. Roopali Rajvanshy and Mr. Nishit Vasvada.** Without them this project wouldn't have been possible.



# Building a Bird Blind for Young Children

*by*  
***Vinay Pathania***  
*Troop 199, Fremont*



The objective of my Eagle project was to construct an observation booth for the Tule Ponds organization. With this observation booth the general public has the liberty of watching and observing the birds and nature around them while in a blended in area. This project was started and completed at the Tule Ponds at Tyson Lagoon, 1999 Walnut Avenue, Fremont, CA It was vital for me to take on the initiative to interface with Dr. Joyce Blueford, head of Tule Ponds, to find individual sponsors for materials, to create a detailed plan for the project and to organize and supervise a work crew to build the observation booth. This project couldn't be done without the help of volunteers. I had advertised the project and promoted the benefits of volunteering for the project to both Troop 199 and friends in High School looking for service hours.



*terracing*

*putting in the frame*

With the help of the volunteers that I had my project was completed in 5 weeks. These volunteers helped with clearing the area, digging the post holes, cutting lumber, setting the base of the structure, applying the floorboards, and installing all the pieces to make the final product. We also installed a retaining wall behind the structure so that when the rainy season comes around, the booth won't have any mud or debris in and behind the structure.



*preparing the sides*



*bird blind*

## **Annual Program Summary Report for Watershed Awareness Program July 1, 2012 – June 30, 2013**

### **PUBLIC OUTREACH - EVENTS AND PUBLICATIONS**

**Friends of Sausal Creek Member Meetings** were held in September, November, January, March, and May at the Dimond Library. For July, we continued our new tradition of a Meet & Greet Potluck, this year at the Fern Ravine restoration area in Joaquin Miller Park. In January we held the second annual State of the Creek meeting, bringing together site leaders from throughout the watershed and featuring a presentation on our new water quality monitoring program. Topics for the other indoor bimonthly meetings covered native landscaping, bird song, native bees, and plant evolution. The trend of increased attendance at our meetings continued—we averaged 50 attendees per meeting this past fiscal year.

Enthusiastic volunteers continued to represent FOSC by **tabling at community events**. FOSC tabled at the annual Dimond Picnic, Dimond Oaktobfest, and Montclair Village Association Holiday Stroll; the Friends of Joaquin Miller Park and Piedmont Pines Neighborhood Association annual meetings; a Dimond Improvement Association meeting; Piedmont High School's Community Service Fair; and EarthEXPO in downtown Oakland. FOSC also had informational tables at our annual Dimond Park events that draw the largest numbers of volunteers: Creek-to-Bay Day (180 volunteers), Winter Solstice Planting Day (54 volunteers), and Earth Day (150 volunteers). Our 7<sup>th</sup> annual Native Plant Sale and Open House included a FOSC informational table as well as speakers on native bees, using native plants in home gardens, raptors of the watershed (with live birds present for the whole day), and propagating native plants, as well as live music and a large display of spiders. We also talked about FOSC at the East Bay Hills Hike and Oakland Urban Paths walk through the watershed, and presented at a Native Nursery Network meeting.

On May 31, 2013, the **Oakland Museum of California** opened the renovated Gallery of California Natural Sciences. The gallery includes an exhibit with a map of the Sausal Creek Watershed and ten videos on volunteerism at FOSC's restoration sites and nursery. The vignettes can be viewed at <http://www.sausalcreek.org/photos/videos.html>. Our board and staff led an interactive activity and distributed FOSC literature at a gallery preview event in November 2012. We also participated in the grand opening ceremony on May 31, 2013.

We had two month-long displays at the **Dimond Library**: September 2012 on native plants and May 2013 on aquatic insects.

We are finalizing signage for the native plants in **planters** on LaSalle Avenue in Montclair Village to create an educational native plant walk.

Other forms of public outreach included FOSC's **bi-monthly newsletter**, **listserv**, and **website**, [www.sausalcreek.org](http://www.sausalcreek.org). Circulation for our bimonthly email newsletter grew from 1,680 to 1,968 recipients over the course of the year. See attached for the newsletter from the final quarter of the fiscal year. Listserv membership increased from 388 to 439 members. We submit information on

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member meetings and volunteer events to print and digital publications and neighborhood listservs.

FOSC distributed approximately 7,000 copies of the *Trails and Tributaries of the Sausal Creek Watershed* **map brochure** which includes information on keeping creeks healthy. Brochures were distributed via the tabling outreach events described above and were made available at watershed trail map boxes, local libraries, and recreation centers.

FOSC continued to implement the *Fern Ravine Restoration Plan* through community, corporate, and student restoration workdays and through leadership of the Friends of Joaquin Miller Park (FOJMP) Redwood Committee. FOSC coordinated closely with Oakland's Parkland Resources Supervisor to have Merritt College's Green Building class install the second phase of the **split rail fencing** in October 2012. Because of the fencing, we were able to begin revegetation of the redwood understory through planting days with Civicorps Learning Academy students.

FOSC's Restoration Committee continued their **hydrology hikes** to assess storm drains and other erosion sites detailed in the *Sausal Creek Watershed Enhancement Plan* so that funding can be sought for priority projects.

We assisted the Oakland Fire Department with the update of the **Goat Grazing Plan** so that grazing could be best timed with removal of invasive plants prior to seeding and so that native plants could be protected from grazing.

FOSC continues to maintain relationships with **community partners** including the Boy Scouts of America, buildOn, Chabot Space and Science Center, Civicorps, College of Alameda, EarthTeam, East Bay Academy for Young Scientists, Girl Scouts of the USA, KIDS for the BAY, Holy Names University, Holy Names University's Upward Bound program, Laney College, Lawrence Hall of Science TEAMS, Merritt College, Oakland High School's Green Academy, Oakland's Aim High program, Oakland Technical High School Key Club, Piedmont High School Key Club, Skyline High School's Excel, Eco, and Key Clubs, Student Conservation Association, and UC Berkeley. Partnerships with other local community groups include Diablo Firesafe Council, Dimond Business and Professional Association, Dimond Improvement Association, Friends of Joaquin Miller Park, Friends of Montclair Railroad Trail, Friends of Wood Park, Glenview Neighborhood Association, Jingtletown Arts & Business Community, Montclair Village Association, Oakmore Homes Association, Peralta Creek neighbors, Piedmont Pines Neighborhood Association, and Shepherd Canyon Homeowners Association.

## CITIZEN INVOLVEMENT EVENTS

FOSC community volunteer events are held year-round at restoration sites throughout the watershed. Some of the workdays are led by FOSC staff and interns, others are led by neighborhood volunteers. Volunteer-led worksites receive support from FOSC staff in multiple ways: assistance with workday outreach and volunteer recruitment; tools; consultation on site restoration plans; and contribution of native plants grown at our native plant nursery.

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Community and special group volunteer events included:

- Three (3) workdays at Barry Place
- Twelve (12) workdays at Beaconsfield Canyon
- Eighteen (18) workdays at Bridgeview Trailhead
- Twelve (12) workdays in Dimond Park and Dimond Canyon
- Twelve (12) workdays at Fern Ravine in Joaquin Miller Park
- Two (2) workdays at Fruitvale Bridge Park
- Two (2) workdays at Joaquin Miller Court
- Forty-eight (48) workdays at Joaquin Miller Native Plant Nursery
- Two (2) workdays at the pallid manzanita site along Big Trees Trail
- Fourteen (14) workdays in Marj Saunders Park
- Three (3) workdays at the Monterey Blvd. redwoods site
- Nine (9) workdays at Shepherd Canyon
- One (1) workday at Woodbine Corner
- Thirty-four (34) workdays at William D. Wood Park
- Eight (8) seed hikes and two (2) botany walks
- Two (2) in the creek clean-up walks
- Two (2) watershed walks for college students, one (1) tour for a visiting Danish group, and two (2) talks to Girl Scout troops
- One (1) tool maintenance workshop
- Three (3) crew leader training events (topics included managing volunteers; creating a restoration plan; techniques for removing ivy, blackberry, and invasive annuals; and installing erosion control materials)
- Twelve (12) aquatic insect monitoring events by the bioassessment team plus three (3) special aquatic insect monitoring events for student or adult groups
- Four (4) quarterly bird monitoring events
- Ten (10) water quality monitoring days

This past year FOSC board members initiated bimonthly in the **creek clean up walks**.

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We restarted FOSC's **water quality monitoring program** in 2012. The team monitors one day a week for five consecutive weeks during the wet and the dry seasons.

**Board of Directors:** We were pleased to recruit one new member to our board of directors for 2013, Steven Ritchie, Assistant General Manager for Water of the San Francisco Public Utilities Commission.

## SCHOOL-AGE CHILDREN OUTREACH

Our activities with school-age children include leading environmental education field trips for school classes and restoration workdays for student community service groups. Youth activities include a discussion of the Sausal Creek Watershed, stormwater pollution prevention, stream restoration strategies, and native and nonnative plant identification. The programs also include a hands-on restoration component such as removal of invasive, nonnative plants; installation of erosion blanket and wattles; vegetation monitoring; and planting of native plants propagated at our nursery. We hosted 25 field trips groups this past school year. In addition, student service organizations volunteered for Saturday workdays year-round.

During summer of 2012, we partnered with City of Oakland Office of Parks and Recreation to again work with their *Touch the Earth* and *Shake, Rattle & Roll* day camp programs in the Joaquin Miller Park redwood area. Twenty groups of campers learned about the Sausal Creek Watershed, discussed stormwater pollution prevention, and participated in restoration activities including removal of invasive, nonnative plants. This partnership is continuing during the summer of 2013.

Our summer high school intern program grew to nine students in 2012. Interns worked 70 hours with our staff on a variety of restoration projects in Dimond Canyon and at our native plant nursery. Two interns from summer 2011 were hired to help lead the summer 2012 program. The summer 2013 summer intern program has ten students participating.

## FUNDING

Additional funding in 2012-13 came from the Alameda County Fish and Game Commission, Alameda Countywide Clean Water Program, Bill Graham Memorial Foundation, California ReLeaf (fiscal sponsor for Friends of Wood Park), The Clorox Company Foundation, East Bay Municipal Utility District, JiJi Foundation, Save the Redwoods League, The Strong Foundation, and individual contributions. FOSC continues to work to identify other potential funding sources for our programs.

FOSC's Sausal Creek Erosion Control Restoration Project was awarded funding by the Department of Water Resources (DWR) for the **Prop. 84 Urban Streams Restoration Program** 2008 Cycle. FOSC is coordinating with the City of Oakland and DWR to enter into a project agreement.

FY 2011-2012 Annual Report  
Permittee Name: Alameda County Flood Control and Water Conservation District  
Attachment A, C.7.3

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## SUMMARY

Total volunteers visits: 3,937  
Total service hours: 10,867  
Total students participating in field trips or summer service learning projects: 1,256  
Native plants propagated and planted: 2,930



C/O RHSD  
835 E 14<sup>th</sup> St.  
San Leandro, CA 94577

#### Board of Directors

Michael Gregory, President  
Dave Owen, Vice President  
Jan Woycheshin, Secretary  
Paul Woycheshin, Treasurer  
Claudia Taurean, Membership Coordinator  
Maureen Forney

## Fiscal Year Activities Report for Watershed Awareness Program July 1, 2012- June 30, 2013

### Public Outreach – Events and Publications

#### Member Meetings

- Tuesday, September 18 - Membership Meeting at the SL Library 7:00 PM. EBMUD representatives Michelle Blackwell, Community Affairs Representative; Sean Todaro, Project Engineer for the Chabot Seismic Upgrade; and Elizabeth Bialek, Manager of Engineering Services presented information about the upcoming retrofit on Lake Chabot Dam. Approximately 15 people were in attendance.
- Tuesday, February 12 - Speaker, Ann Riley Ph.D, Watershed and River Restoration Advisor for the San Francisco Bay Regional Water Quality Board, presented to 36 people about creek dynamics.

#### Board Meetings

- Tuesday, September 11 - Discussed Environmental Forum & set date for Watershed Festival in spring
- Tuesday, October 30 - Discussed upcoming events.
- Tuesday, February 5 - Planned upcoming Presentation.
- Tuesday, April 16 - Made final plans for upcoming Earth Day/Watershed Festival.
- Tuesday June 11 - Voted Maureen Forney as new Board Member.

#### Other Outreach

*Friends of San Leandro Creek is a 501(c)(3) not for profit organization, taxpayer ID 68-0370579.  
Your contributions may be fully tax deductible. Please consult your tax advisor.  
[www.fslc.org](http://www.fslc.org)*

- Gave presentation at the “All Employee Barbeque” to City of San Leandro Public Works employee, Steve Souza for assisting with Eagle Scout project on the creek. September 20, 2012
- Published Article in “San Leandro Patch” about “Connect the Dots” Event. November 20, 2013
- Meeting with SLUSD Assistant Superintendant, Song Chin-Bendib, City of San Leandro Vice Mayor Michael Gregory and City Manager Chris Zapata at SLUSD offices to discuss City’s purchase of Property (Cary Dr.) from SLUSD for possible Environmental Lab on San Leandro Creek. November 26, 2012.
- Met with SLUSD Superintendent, Cindy Cathey, San Leandro Vice Mayor Michael Gregory, and County of Alameda Public Works Agency’s Hank Ackerman and Kwablah Attiogbe to continue talks regarding “Cary Drive Property” that the city would like to purchase from school district for mini creek lab. January 23, 2013
- Wrote and sent article to San Leandro Patch about upcoming meeting (Ann Riley speaking for Member Meeting). February 5, 2013
- Newsletter, The Splash , Spring/Summer 2012 was produced and sent out by email to 100 members and hard copies sent to the public library. March 7, 2013
- Wrote “Letters to Editor” and sent to San Leandro Times, Castro Valley Forum, Oakland Tribune, Daily Review and San Leandro Patch informing public about the opportunity to ask EBMUD to return sustainable flow to San Leandro Creek. June, 2013
- Attended EBMUD’s public meeting discussing the Chabot Dam Retrofit.
- Placed Petition on web site, “Change. Org” asking EBMUD to return natural water flow to San Leandro Creek. June 18, 2013

## Citizen Involvement Events

### Creek Clean ups

- July 14, 2012 9:30- 12:30 15 participants
- September 22, 2012 9:30- 12:30 21 participants.
- January 26, 2013 9:30- 12:30 Approximately 20 people present.
- March 16, 2013 9:30- 12:30 17 people present.
- May 11, 2013 Creek Clean Up and Non-Native Plant Removal 9:30- 12:30 16 attended.

### Other Clean ups

- August 3, 2012 11:00 AM – 1:30 PM Worked with Eagle Scout Prospective cleaning up site of project on San Leandro Creek. 17 volunteers attended.

### Water Quality Monitoring

- October 20, 2012 8:30 AM -1 PM Chabot Park in San Leandro

## Events

- *Environmental Forum - San Leandro Senior Center*  
Three panelists: Professor Robin Freeman (Environmental Management and Technology Program, Merritt College), Laurette Rogers, PRBO Conservation Science STRAW Program Director, Jeff Miller, Program Director Alameda Creek Alliance. Approximately 35 people in attendance. FSLC provided lunch for FSLC Board and the Panelists. November 11, 2012 9:30 AM -2:00 PM.
- *“Connect the Dots”* Community conversations about the current and future state of San Leandro Creek. – South Conference Room City Hall Special Guests included; Mayor of Oakland Jean Quan, City of San Leandro Vice Mayor Michael Gregory, San Leandro City Manager Chris Zapata, City of Oakland Urban Planner and Geographer David Ralston, Merritt College Professor Robin Freeman. Approximately 75 people in attendance. November 18, 2013
- *Watershed/Earth Day Festival.* Clean up at 98<sup>th</sup> Ave. in Oakland 25 people attended. Cobb Bench Maintenance at Madison Middle School in Oakland, 14 participants. Creek Clean up at Root Park in San Leandro, 30 in attendance. BBQ and Festival at Cary Drive in San Leandro. Guest speakers; Mayor Stephen Cassidy, Assemblyman Rob Banta, Professor Robin Freeman, East Bay Region Park Director, Whitney Dotson, BART Director Robert Raburn, San Leandro Vice Mayor, Michael Gregory. Festival included, Recycling Station, Tables from Merritt College Student Volunteers, Sulphur Creek Nature Center, Hayward Shoreline Interpretive Center. Free BBQ for festival participants (workers were given tickets for the BBQ) and neighbors (funded by Hewlett Packard and Estudillo Estates Community Association). Approximately 150 attendees. Bike Ride along San Leandro Creek to 105<sup>th</sup> Ave. in Oakland and BART back to San Leandro. Approximately 25 bikers present. April 20, 2013

## Other Citizen Involvement

### Meetings

- Met with Winston McKee from City of San Leandro Public Works Dept. at Chabot Park in San Leandro to schedule a cleanup of brush on the creek.
- Met with San Leandro City Manager, Chris Zapata at his “Brown Bag Lunch” at the SL Library. He spoke about the creek and what we, as a community, can do to help.
- Met with San Leandro Recreation and Human Services Department Manager, Ely Hwong. Invited me to do creek program on a regular basis at the City’s Kiddie College Program.
- Interviewed Ben Barr about updating FSLC website.
- Met with Ben Barr to discuss new FSLC Web Site. Hired Barr to begin work.

- Met with Professor Robin Freeman and Wendy Wheeler from Hewlett-Packard about upcoming Earth Day/Watershed Festival.
- Met with Supervisor Wilma Chan's 3<sup>rd</sup> District Director, Steve Jones. Discussed Watershed Festival/Earth Day event.
- Met with San Leandro Creek Alliance Group: Vice Mayor, Michael Gregory, Professor Robin Freeman, East Bay Regional Park District Fisheries Biologist, Pete Alexander, East Bay Regional Park District Director Ward 4, Doug Siden, BART Director District 4 Robert Raburn, Senior Environmental Scientist Stantec Consulting Mike Vukman, Bay Trail Planner, Lee Huo, Alameda County Flood Control Project Manager Hank Ackerman, Executive Director "Waterfront Action" Sandra Threlfall, Central Office Director for Supervisor Wilma Chan Steven Jones about upcoming events and work on the San Leandro Creek.
- Met with City of San Leandro Department Heads; Cynthia Battenberg, Ken Joseph, Carolyn Knudtson, Thomas Liao and Senior Counsel for Meyers Nave Law Firm Kit Faubion about official response from the City of San Leandro to EBMUD regarding their Notice of Preparation for EIR Report, Lake Chabot Dam Retrofit

### **Presentations Given**

- Presentation to Estudillo Estates Homeowners Association. November 13, 2012 7:00 - 9:00 PM. Approximately 15 people in attendance.
- Information Table about FSLC at San Leandro Historical Society at Casa Peralta. Approximately 150 participants. September 22, 2012
- Power Point Presentation given to San Leandro club, "PEOs" about FSLC. Approximately 35 attended. September 27, 2012
- Presented to San Leandro Kiwanis with Power Point Presentation. 31 people present. February 19, 2013
- Table at San Leandro Farmer's Market giving information about upcoming Earth Day event and FSLC. Dressed in trout outfit. Received 2 new members. 100s attended. March 17, 2013
- Power Point Presentation given to Estudillo Estates Homeowners Association. April 9, 2013 7:00 - 9:00 PM. Approximately 45 people in attendance.
- Attended and gave Power Point Presentation to San Leandro City Council and general public about FSLC. June 10, 2013

### **Classes/Presentations Attended**

- Attended dinner and presentation given by Alameda Creek Alliance in Niles, Ca. September 28, 2012
- Attended Alameda County Watershed Council Annual Conference in Dublin, Ca. October, 25, 2012
- Attended BAWN (Bay Area Watershed Network) workshop in Oakland. February 21, 2013
- Attended BAWN Meeting in Oakland. May 30, 2013

- **Attended EBMUD's public meeting discussing the Chabot Dam Retrofit. June 20, 2013**

### **Other**

- **Met at FSLC member, Gail Schino's home to view native garden and to discuss future native plant nursery for FSLC. December 4, 2012**
- **Visited Sausal Creek's Native Nursery in Oakland. Met Sausal Creek Nursery Staff, attended Tour to see how a successful native nursery is run. December 13, 2012**
- **New "Friends" Website up and running. January 22, 2013**
- **Met with Dena Justice to finalize report to be sent to Washington DC with City Lobbyist. City and FSLC seek funds for Urban Creek Walk from San Leandro Blvd. to Root Park in San Leandro. January 10, 2013**
- **Sent EBMUD official comments from FSLC regarding the Notice of Preparation for EIR. May 14, 2013**
- **San Leandro Creek Walk from Arrowhead Marsh in Oakland to 105<sup>th</sup> Ave. in Oakland with Michael Gregory, Professor Robin Freeman, and several FSLC members. January 13, 2013**
- **Updated the city's Summer Brochure" for Recreation Dept. to be mailed to every household in San Leandro. March 19, 2013**
- **San Leandro Creek Walk from 105<sup>th</sup> Ave. in Oakland to Root Park in San Leandro with Mike Vukman and FSLC member. March 12, 2013**
- **Meet and Greet with Chabot Day Camp Counselors. Presented lesson and acquainted staff with FSLC curriculum. June 15, 2013**

## **School-Age Children Outreach**

### **Field Trips:**

- **Stars School (for emotionally troubled teens) to Chabot Park in San Leandro. 7 people were present. August 9, 2012**
- **Castro Valley Adult School at creek at Chabot Park in San Leandro. 11 people present. February 28, 2013**
- **San Leandro Brownie Troop and Boy Cub Scout Troop on creek at Chabot Park in San Leandro. 35 people present. March 9, 2013**
- **Gabriela Capucetti's 3<sup>rd</sup> grade class from Madison School in San Leandro. Chabot Park in San Leandro. 41 people present. March 26, 2013**
- **Jenny Kubicki's 3<sup>rd</sup> grade class from Madison School in San Leandro. Chabot Park in San Leandro. 43 people present. . March 28, 2013**

### **Chabot Day Camp**

*Friends of San Leandro Creek is a 501(c)(3) not for profit organization, taxpayer ID 68-0370579.*

*Your contributions may be fully tax deductible. Please consult your tax advisor.*

*[www.fslc.org](http://www.fslc.org)*

- “Big Trees” and “Little Trees” (age 7-10). 75 children participated. July 17, 2012
- “Driftwood” (age 11-14). 60 children participated. July 19, 2012
- “Big Trees” and “Little Trees” (age 7-10). 75 children participated. July 31, 2012
- “Tiny Trees”, 34 children aged 5-6 were present. June 17, 2013
- “Tiny Trees”, 40 children aged 5-6 attended. June 27, 2013

### Other camps

- Sulphur Creek Summer Day Camp. 21 children, aged 7-11 were in attendance. Received \$60.00 payment. June 27, 2013

## Other Project Updates

### Grants

- Received \$500.00 grant from Fremont Bank for Environmental Forum Costs. October 11, 2012
- Received \$ 200.00 donation from Estudillo Estates Community Association for Earth Day Festival. March 16, 2013
- Wrote/sent letter to Wilma Chan asking for funds for Earth Day Event. March 21, 2013. Did not receive grant.
- Received \$200.00 donation from Hewlett Packard for to use at Earth Day Festival March 11, 2013
- Braddock Foundation Grant was received on June 4, 2013. The amount paid by this grant was \$5,000 to be “used for general operating support and to enhance and expand the education programs about San Leandro Creek”.

### Summary

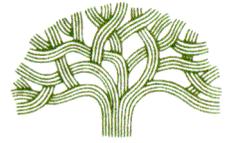
Total Volunteers: 175

Total Volunteer Service Hours: 25

Total students participating in field trips/day camp: 442



## CITY OF OAKLAND



250 Frank H. Ogawa Plaza, Suite 5301

OAKLAND, CALIFORNIA 94612-2034

Public Works Agency  
Environmental Services Division

FAX (510) 238-7286  
TDD (510) 238-3254

August 23, 2013

### **Clean Creeks Agreement – Annual Program Summary – FY 2012/2013**

#### **Creek Cleanup Volunteerism and Outreach Program Updates**

##### Program Area 1: Adopt a Creek

The Adopt a Creek Program has grown from 21 to 27 active sites. We continue to distribute the Adopt a Creek orientation and resource packet to help new and existing groups build and manage stewardship activities at their sites. As many of our Adopt a Creek groups become more established, we now provide more technical assistance for several community based creek restoration projects, including plant selection and site planning. We had four active plant restoration projects at adopted sites. We also worked to create stronger partnerships between our Adopt a Creek groups and volunteer resources in the greater community. Through program promotion on several volunteer recruitment websites and more established partnerships with community service organizations at local colleges and universities, we have seen more of our AAC groups tackling larger scale projects with this additional assistance. We now provide expanded tool lending services to our volunteers at two pickup locations within the City.

##### Program Area 2: Community Creek Efforts

Throughout the year our program sponsored a range of creek cleanup and beautification events. There were 478 watershed cleanup events last year. We continue to build our outreach strategy by incorporating more electronic forms of communication to reach out to the community about watershed stewardship events. We now have an established presence on Facebook and regularly use Constant Contact, email marketing software, to communicate with Oakland residents. Our relationships with numerous community organizations remain strong. We have attended numerous community events to distribute information about our volunteer program and other general watershed education outreach materials.

##### Program Area 3: Citywide Creek Cleanup Events

FY 2012-2013 Annual Report

Permittee Name: Alameda County Flood Control and Water Conservation District

Attachment C.7.5

The City hosts two citywide cleanup events per year, Creek to Bay Day and Earth Day. Creek to Bay Day brought together 1,310 volunteers to clean up 27 creek locations throughout Oakland. Volunteers picked up over 9,000 pounds of trash from Oakland's creeks, estuary and Lake Merritt and removed nearly 340 cubic yards of non-native greenwaste to allow native plants to flourish. On Earth Day, over 3,000 volunteers participated in this citywide beautification effort. Twenty-three of the active volunteer sites were creek sites. Over 689 volunteers assisted in cleanup and beautification activities at creek sites and Lake Merritt.

#### Program Area 4: Creeks Website

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Our creeks websites, [www.oaklandcreektobay.org](http://www.oaklandcreektobay.org) and [www.oaklandcreeks.org](http://www.oaklandcreeks.org) continued to see improvements in Fiscal Year 2012-2013. We continue to maintain several pages to highlight our Adopt a Creek program as well as other ways people can be involved in community cleanup events. The websites provide interested individuals with information regarding the City's creek to bay protection efforts and general information as to the importance of watershed protection and the impacts of pollution on our waterways. We have also incorporated Google map technology to provide an accessible way for prospective volunteers to find opportunities.

#### Program Area 5: Periodic Press Release

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Press releases are issued for large citywide watershed clean up events in an attempt to spread the word to the greater community about efforts being undertaken by our program as well as opportunities to get involved. We sent two press releases prior to each citywide event (two weeks prior and three days prior).

**For further information, please contact:**

**Mark Gomez  
City of Oakland Public Works Agency  
Environmental Services Division  
250 Frank Ogawa Plaza, Suite 5301  
Oakland, CA 94612**

## **Bringing Back the Natives Garden Tour**

1718 Hillcrest Road  
San Pablo CA 94806  
(510) 236-9558

<mailto:Kathy@KathyKramerConsulting.net>

<http://www.BringingBackTheNatives.net>

### **Final Report**

#### **Why a Native Plant Garden Tour?**

The spring 2013 Bringing Back the Natives Garden Tour was held in order to showcase pesticide-free, water-conserving gardens that reduce solid waste, provide habitat for wildlife, and contain 60% or more native plants.

The tour enlists local residents to demonstrate by example that seasoned and novice gardeners can garden with good results without the use of synthetic chemicals, and with minimal supplemental water, while providing food, shelter, and nesting areas for wildlife. The gardens on this tour show that it is possible to implement sustainable garden practices and still have beautiful places for people to relax in and enjoy. The goals of the Bringing Back the Natives Garden Tour are to motivate attendees to eliminate pesticide use, reduce water use, generate less solid waste, and provide habitat for wildlife in their own gardens.

Why California natives? Once established in the garden setting, California native plants need little or no summer water, as they survive naturally with only fall-to-spring rainfall. In addition to being water-conserving, California natives are hardy, and they do not require the use of pesticides and fertilizers, as many non-natives do. Native plants need less pruning than many non-natives, such as lawn, ivy, or cotoneaster, thus generating less green waste. Natives also provide the best habitat for birds, butterflies, beneficial insects, and other forms of wildlife.

A four-year study of water use, green waste generation, maintenance hours, and maintenance labor costs between a traditional garden and a California native plant garden was conducted by the City of Santa Monica. (See <http://www.smgov.net/Departments/OSE/Categories/Landscape/Garden-Garden.aspx>). The results of this study showed that the native garden used one tenth of the water that the traditional garden did; generated 40% of the green waste; took 20% of the time to maintain; and cost 75% less to maintain than the traditional garden.

Bringing Back the Natives Garden Tour gardens contain minimal or no lawn. This is of particular value since the majority of the chemicals purchased by homeowners support lawn care, and the majority of water used in home gardens is applied to lawns. According to the U.S. Fish and Wildlife Service's Division of Environmental Contaminants publication, "Homeowner's Guide to Protecting Frogs – Lawn and Garden Care," homeowners use up to ten times more chemical pesticides per acre on their lawns than farmers use on crops. In addition, half of the water used by the average household is applied to the landscape – with most of that water being applied to keep turf green. Only 4 of the gardens included on the tour had any lawn at all, and these were reduced in size to 10% of the gardened area.

### **Award**

This year Tour organizer Kathy Kramer received the Jefferson Award for the Bringing Back the Natives Garden Tour. Right before the Tour, this piece was shown on CBS three times, and the Tour and award were promoted on KQED twice:

<http://sanfrancisco.cbslocal.com/2013/05/01/jefferson-award-winner-teaches-others-the-values-of-native-plants/>

### **2013 Bringing Back the Natives Garden Tour events: Spring Tour and Native Plant Sale Extravaganza; Fall Native Plant Sale Extravaganza; and Select Tours**

In 2013 the Bringing Back the Natives Garden Tour expanded its offerings to include not only the spring Tour and Native Plant Sale Extravaganza, but also a Fall Extravaganza, and a series of Select Tours. These are described below.

### **Ninth Annual Bringing Back the Natives Garden Tour and Native Plant Sale Extravaganza**

The Ninth Annual Bringing Back the Natives Garden Tour, which took place on Sunday, May 5, 2013, showcased forty three gardens and nurseries located in fifteen cities and unincorporated areas in Alameda and Contra Costa counties (Berkeley, Concord, El Cerrito, El Sobrante, Fremont, Hayward, Livermore, Martinez, Moraga, Oakland, Orinda, Pleasanton, Richmond, San Lorenzo, and Walnut Creek).

A variety of gardens were featured on the tour. The gardens ranged from Al Kyte's forty year old wildlife habitat to a number of gardens that had been recently installed, and from very large lots to small front gardens in the flats. Tour gardens contained everything from local native plants to the horticulturally available suite of natives from throughout California. A quarter of the gardens were designed and installed by owners, and the rest were designed and installed

by professionals. Almost all of the gardens were landscaped with between 70% to 100% native plants. Twenty-five percent of the gardens on this year's tour were offered by former registrants who had attended a previous Bringing Back the Natives Garden Tour and become inspired to transform their own garden.

### **Spring Native Plant Sale Extravaganza**

In addition to the May 5, 2013 tour day, on which forty three gardens and nurseries were open for viewing, the spring Native Plant Sale Extravaganza took place throughout the week-end of May 4 and 5, 2013.

During the spring Native Plant Sale Extravaganza a number of native plant nurseries – some not normally open to the public, and others normally open only for limited hours – were open from 10:00–5:00. Bringing Back the Natives Garden Tour registrants took advantage of this opportunity to shop for unique or hard-to-find native plants that are not normally available in most nurseries. This year nine nurseries took part in the Extravaganza, and more than \$10,000 worth of natives were sold over the course of the week-end.

### **Number of registrants, volunteers, and garden visits**

The tour received overwhelming interest from the public; this year there were 5,773 registrants. The bulk of the registrants (5,580) registered for the tour in advance, and on-line. On the day of the tour an additional 193 people visited the same day walk-in registration sites, which were set up in Berkeley, Concord, El Cerrito, Hayward, Livermore, Martinez, Moraga, and Oakland.

This year 12,831 garden visits were made on the day of the tour. See the end of this report for a list of the number of visitors counted at each garden.

Nearly 200 volunteers either worked at gardens for a half-day shift on the day of the tour, or helped with tour preparation and clean-up, contributing more than 800 hours of time to the tour. The 43 hosts put in countless hours preparing for the tour, and more than 300 hours on the day of the event.

### **Garden Talks**

More than 40 garden talks and demonstrations were given throughout the day on a plethora of subjects. Talk topics included how to: retain stormwater on-site; remove a lawn; select, plant, and care for natives in general, and select natives for specific areas; design a simple, low-maintenance native plant garden; how to attract bees; choose appropriate natives; design and install a native plant garden; create a low-maintenance native plant garden; garden on hillsides; purchase native plants; control weeds without using herbicides; water efficiently; maintain a native plant garden; design and install a native garden yourself; garden for

wildlife in general, and native bees and butterflies in particular; and how to control erosion, among other topics.

### **The website**

The website contains numerous photographs of all of the gardens that have ever been on the tour (information on prior tours remains accessible on the website for reference), extensive garden descriptions, plant lists for each garden, and some garden-specific bird, butterfly, mammal, reptile, and amphibian lists, as well as resource information on how to garden with California natives. The resource information includes contact information for landscaper designers with gardens on the tour, a list of Easy-to-Grow East Bay Natives, lists of nurseries that carry native plants, lists of reference books, "How I got started gardening with native plants" essays by a number of the host gardeners, and more.

In order to attract hosts and volunteers, and to thank them for their time, two Garden Soirees – free, private tours of native plant gardens – were held in 2013. Garden Soirees offer host gardeners and volunteers the opportunity to see tour gardens that they would otherwise miss. They also create a feeling of camaraderie between hosts and volunteers, and provide a venue for people who are both knowledgeable and passionate about gardening with natives to meet and exchange information.

### **Misc. details**

Eighteen of the gardens were at least partially wheelchair accessible. Eighteen of the gardens were also certified by the National Wildlife Federation as Backyard Wildlife Habitat Gardens.

### **Fall Native Plant Sale Extravaganza**

In the fall of 2012 a Native Plant Sale Extravaganza was held. Nearly \$11,000 worth of native plants were sold at eight locations. These included three private gardens (in Moraga, Orinda, and San Pablo), San Lorenzo High School in San Lorenzo, the U.C. Botanic Garden in Berkeley, East Bay Wilds in Oakland, and Markham Arboretum in Concord.

### **Select Tours**

In the fall of 2012 and the spring of 2013 a series of Select Tours (small, private tours with themes) were coordinated. These included a tour of a garden with an extensive graywater / rainwater catchment system; three "Meet the Designer" tours (with noted designers Michael Thilgen, Kelly Marshall, and Liz Simpson); three hands-on sheet-mulching workshops; one hands-on Netafim installation workshop; a tour of a large organic garden that stored 10,000 gallons of rainwater on-site, had chickens, and had extensive native and edible garden areas; and a

Meet-the-Do-It-Yourselfers tour of three gardens designed and installed by homeowners.

### **Tour Partnerships**

The Bringing Back the Natives Garden Tour created partnerships with a variety of organizations that share common values – that chemical-free and water conserving gardening preserves water quality and quantity, and creates wildlife habitat. The list of major sponsors and supporters of this year’s tour includes a flood control district, two county stormwater programs, three water districts, four cities, an unincorporated area, and a private foundation. The list of tour sponsors is provided below.

#### **Sponsors of the 2013 tour**

**\$15,000**

Alameda County Flood Control and Water Conservation District

**\$10,000**

Contra Costa Clean Water Program

**\$5,000**

Jiji Foundation

**\$4,000**

Contra Costa Water District

**\$2,500**

County Clean Water Program (Alameda)  
Contra Costa Watershed Program

**\$2,000**

Bay Area Water Supply and Conservation Agency  
City of Richmond

**\$1,600**

California Native Plant Society (East Bay Chapter)

**\$1,500**

City of El Cerrito

**\$1,000**

City of Antioch

City of Pittsburg  
Zone 7 Water Agency

**\$500**  
Alameda County Water Agency  
City of Walnut Creek

### **Host Gardeners**

The gardens selected to take part in the tour are chemical-free and water-conserving landscapes that provide habitat for wildlife. Hosts were chosen because of their willingness to be on site on the day of the tour to explain first-hand the techniques they use in their gardens, and their enthusiasm for, and commitment to, educating others about how to garden in environmentally sensitive ways.

Host gardener recruitment began in the spring of 2012 for the 2013 tour. Potential candidates completed an application, and applicants who met the criteria received a site visit. Host criteria were as follows:

- Gardener must reside in Alameda or Contra Costa County.
- Gardener must use organic and/or natural techniques for pest control rather than synthetic pesticides.
- Garden must demonstrate water conservation techniques. Examples include mulches, groundcover plants, drip or soaker hose irrigation, and the use of plants that do not require excessive watering during the dry part of the growing season.
- Gardener must be a good ambassador for chemical-free, water-conserving gardening: enjoy educating the public; and have the knowledge base to employ natural gardening techniques and share this information with the public.
- Garden must provide food, shelter and nesting areas for wildlife.
- Garden must contain 60% or more California native plants.
- No invasive plants are found in the garden.

Host's gardening experience ranged from native plant novices to professional landscape designers. All of the host gardeners were good ambassadors for natural gardening techniques.

**Host Comments from the 2013 evaluations:**

- The greeters that you lined up for us were a great help. The garden guests were pleasant, asked good questions, and many of them thanked me for opening our garden to them. I recognized several of the guests from two years ago, when we first placed our garden on the tour; one of them told me that our garden had inspired her and that she removed her lawn and now has a native garden of her own. It was a great day overall!
- Thank you so much for all the years of wonderful tours. I've been so impressed with how it has really made a difference educating people about native plants and sustainable garden design. I no longer have people ask me 'why natives'. Instead they know why, are excited, and have more specific questions as to how to create a drought tolerant earth-friendly garden. I love that the tour is free - anyone can attend and donate at the level that works for them. I love how inclusive and open the tour is for everyone.
- Many people learn from and are inspired by the tour.
- As usual, excellent up-front organization and communication from Kathy Kramer to hosts. Good catalog, and good media coverage. Awesome job, as always.
- The Tour was well advertised, and the visitors were very appreciative and friendly. It was very well organized, making it easy to be a host.
- I've had my garden on one different type of garden tour before. What I found very interesting and unique about this tour was how interested the visitors were in learning how to create this type of garden. I had questions about the process of removing the grass, design, irrigation, plants, and more. This tour was much more than just coming to look at the pretty flowers.
- This year I added photos of some of the more spectacular blooming plants (which were not in bloom at this point). I printed out the pictures on regular printer paper, put them in plastic sleeves and hung them from the relevant plant with fishing line. People seemed to really enjoy seeing them. The volunteers were all outstanding and enthusiastic. Thanks so much for all you do, Kathy! And congratulations on your recent award! I think this tour has done so much to increase awareness of use of native plants in the garden. I also noticed greater diversity among the visitors.

- What a lovely day! People streaming into my garden and telling me how much they liked it, who wouldn't love that!? Thank you so much putting on this event. It is exciting to see people becoming interested in something so good for our environment and community.
- The guests' obvious enjoyment of and appreciation for my garden was very gratifying.
- Lots of very interested and friendly folks visited our garden. I thought the level of expertise shown in the questions about my garden was a higher than in previous years. If so, it's a sign that more people are becoming more informed about native plant gardening.
- The website and tour guide are beautifully done and very valuable. The Tour is popular, and well-attended. Many people learn from and are inspired by the tour.

**Volunteer Comments from the 2013 evaluations:**

- This Tour is really bringing about important change! My compliments for and admiration of Kathy for smoothly coordinating such a major event each year. The concept of gardening without pesticides, and for nature, is reaching so many different people in so many different ways and at different levels...to the benefit of us all.
- Keep doing what you're doing. The Bringing Back the Natives Garden Tour is an amazing contribution to bettering our environment; I love that instead of just wringing our hands, it shows ordinary people a beautiful way to act on behalf of all of us.
- The Bringing Back the Natives Garden Tour makes a difference for our planet!
- The volunteer experience was marvelous. The organization was like no other garden tour in the Bay Area. I knew exactly what to anticipate and prepare for; this contributed to a wonderful lasting impression on all garden spectators.
- Wonderful program, excellent ideas, lots of really inspirational people -- I volunteered at Glen Schneider's, and found him to be delightful and informative.

- The Garden Guide was an invaluable informational and well-crafted tool; it helped me to find the information needed efficiently, and the design was beautiful. I enjoyed being a volunteer. Thank you.
- Over 300 happy people came to the garden where I volunteered! A lot of people are interested in bringing back the natives and seeing how others are doing it.
- I think you do a FANTASTIC job!!!! It's astounding how well you put such an elaborate set of gardens and impressive booklet together.
- I am always impressed by the thoroughness of the printed tour guide and the website, as well as the enthusiasm and helpfulness of everyone involved.
- The tour is awesome just the way it is. The fact that it is free is so wonderful. So many people can become educated about native plants.
- The ease of the maps, the descriptions, the photos on the website; all were well-done. Everything was SUPER well-organized.

### **Tour Survey and Evaluation**

Two surveys were offered to the tour's pre-registered participants. The first was available as part of the registration process. Below are some statistics taken from this survey.

The 2013 tour attendees were highly motivated to learn new gardening techniques. When asked what they would like to learn from the tour the majority of respondents (83%) wanted to learn how to select native plants; 58% wanted to learn how to conserve water; 56% wanted to learn how to garden for wildlife; 33% percent wanted to learn how to reduce pesticide use; 33% wanted to learn how to remove their lawns; and 23% wished to learn about composting.

What do you want to learn from the tour?	<b>2012 Responses</b>	<b>2013 Responses</b>
How to select native plants	72%	83%
How to reduce water use	51%	58%

How to garden for wildlife	51%	56%
How to reduce or eliminate pesticide use	30%	33%
How to replace a lawn with a garden	30%	33%
How to compost	19%	23%

### **Evaluations**

There was a return of 475 registrant evaluations. 98% of those filling out the evaluations rated the tour “Excellent” or “Very Good.”

This year 70% of the registrants were repeat visitors, and 30% were attending the tour for the first time.

### **Motivation and Behavior Change**

The registrant evaluations were split up into two groups – those who had attended the tour before, and those who had not. The data for Repeat Registrants and First-Time Registrants was tabulated separately. Both of these categories are discussed below.

### **Repeat Registrants**

72% of registrants who had attended a previous Bringing Back the Natives Garden Tour, and who filled out the evaluation form, said they had changed their gardening practices because of their participation in the Bringing Back the Natives Garden Tour.

The first column below shows the percentages of the repeat registrants who changed their gardening behaviors after attending the Bringing Back the Natives Garden Tour. The second column shows the percentage of repeat registrants who plan to change their gardening behaviors.

Evaluations of repeat registrants from the 2013 tour showed that after attending a prior Bringing Back the Natives Garden Tour: 19% of respondents had incorporated natives into their gardens (thereby reducing herbicide use and conserving water); 13% were encouraging wildlife with plant choices; 14% had grouped plants by water needs and incorporated drought-resistant plants into their gardens; 10% had increased the density of plantings to out-compete weeds (reducing herbicide use and conserving water); 10% were tolerating some insect damage; 8% had begun mulching; 10% had amended their soil; 8% had reduced

the size of their lawn; 6% had reduced or eliminated pesticide use; 10% had installed efficient irrigation; 3% were grasscycling; 3% were composting; and 4% had reduced the amount of hardscape in their gardens.

Repeat visitors were highly motivated to make changes in their gardens. When asked what they planned to do: 38% planned to increase the density of plantings to out-compete weeds; 29% to group plants of similar water needs; 25% to install efficient irrigation; 20% to encourage wildlife; 21% to reduce the size of their lawn; 18% to incorporate native plants into their gardens; 18% to mulch; 11% to minimize hardscapes; 12% to compost; 16% to amend their soil with compost; 13% to tolerate some insect damage to plants; 8% to grasscycle; and 6% to reduce or eliminate pesticide use.

**How do you manage your garden? (This information was taken from evaluations filled out by repeat registrants.)**

ITEM	Began after participation in a previous BBTN Tour	Plan to do this
1. Reduce/eliminate insecticide/herbicide use.	6%	6%
2. Increase the density of plantings to out-compete weeds.	10%	38%
3. Encourage birds, butterflies, etc. with plant choices, food, shelter, and water.	13%	20%
4. Tolerate some insect damage to plants.	10%	13%
5. Incorporate native plants into our garden.	19%	18%
6. Group plants of similar water needs.	14%	29%
7. Incorporate drought-resistant plants into our garden.	13%	18%
8. Install efficient irrigation (such as drip, timers, soaker hoses).	10%	25%
9. Grasscycle (leave grass clippings		

on the lawn).	3%	8%
10. Reduce the size of our lawn.	8%	21%
11. Mulch with leaves, grass, wood chips, etc.	8%	18%
12. Amend soil with compost.	10%	16%
13. Minimize hardscapes (patios, decks).	4%	11%
14. Compost yard waste and kitchen scraps at home.	3%	12%

**First-time registrants**

The tour was highly motivating to the first time registrants who completed the evaluation. 58% planned to incorporate native plants into their gardens; 58% of first-time registrants responded that they planned to increase the density of plants, thus helping to out-compete weeds and reduce water use; 50% of first time registrants planned to group plants by water needs; 43% planned to encourage wildlife; 42% planned to incorporate drought-resistant plants into their gardens; 32% planned to reduce the size of their lawns; 35% to install efficient irrigation; 31% planned to mulch; and 32% to amend their soils; 16% to compost kitchen scraps and yard waste; 19% planned to tolerate some insect damage; 15% planned to reduce or eliminate pesticide use; and 14% planned to reduce the amount of hardscape in their gardens.

**How do you manage your garden? (These are responses from first-time registrants.)**

ITEM	Plan to
1. Reduce/eliminate insecticide/herbicide use.	15
2. Increase the density of plantings to out-compete weeds.	58
3. Encourage birds, butterflies, etc. with plant choices, food, shelter, and water.	43
4. Tolerate some insect damage to plants.	19
5. Incorporate native plants into our garden.	47
6. Group plants of similar water needs.	50

7. Incorporate drought-resistant plants into our garden.	42
8. Install efficient irrigation (such as drip, timers, soaker hoses).	35
9. Grasscycle (leave grass clippings on the lawn).	15
10. Reduce the size of our lawn.	32
11. Mulch with leaves, grass, wood chips, etc.	31
12. Amend soil with compost.	32
13. Minimize hardscapes (patios, decks).	14
14. Compost yard waste and kitchen scraps at home.	16

**Number of visitors at each garden, and total number of garden visits made**

	# AM visitors	# PM visitors	Total Visitors
<b>BAYSIDE CITIES</b>			
<b>Berkeley</b>			
California Native Bee Garden			373
Mary Ford and Rob Lewis	190	219	409
Mardi and Jeff Mertens	175	158	333
Christine Meuris	175	204	379
Margaret Norman and Geoff Holton	197	275	472
Glen Schneider	189	198	387
<b>El Cerrito</b>			
Donna Bodine	138	96	234
Irene Kiebert and Michael Fischer	118	98	216
Nancy Warfield and David Gray	169	187	356
<b>El Sobrante</b>			
Nita Stull	68	32	100
<b>Fremont</b>			

Kathleen McCabe-Martin	43	37	80
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**Hayward**

Natalie Forrest and Douglas Sprague	81	89	170
Brenda Senturia	69	83	152
Christine Wiseman	54	108	162

**Oakland**

Kate and Harry Dobbins	93	173	266
Sue Duckles and Cherie Donahue	138	168	306
Joan Lohman and Jenn Biehn	291	215	506
Tai Moses and Michael Kerner	182	270	461

**Richmond/Point**

**Richmond**

Tom and Shirley Butt	129	159	288
Jocelyn and Peter Rohan	83	78	161

**San**

**Lorenzo**

San Lorenzo High School			100
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**INLAND CITIES**

**Concord**

Debby and John Butterworth	208	181	389
Roy and Rosadelia Detwiler	199	161	360

**Lafayette**

Claire and William Gilbert	306	423	729
Mary Jennings and Michael Jennings	303	305	608

**Livermore**

Hannah and George Farquar	111	101	212
Darcy Horne	125	51	176
Bryan and Donna Weber	99	93	192

**Martinez**

Web and Sue Beadle			257
Chris and Marianne Dundon	122	102	224
Nancy Salsig	118	94	212
<b>Moraga</b>			
Bill and Linda Dick	163	242	405
Al Kyte	205	197	402
<b>Orinda</b>			
Barbara Leitner	124	166	290
Susan and Willy Mautner	164	182	346
Elizabeth O'Shea and Richard Howard			370
Bob and Stephanie Sorenson	279	304	583
<b>Pleasanton</b>			
Beth Clark	80	77	157
<b>Walnut Creek</b>			
Meg McShannic and David Wallace	248	227	475
Nancy Wenninger	244	289	533
<b>TOTAL</b>	5680	6042	<u>12,831</u>

\* The number of morning and afternoon visits does not equal the number of total visits, as some gardens reported only total visits; not the breakdown.

*When planning for a year, plant corn. When planning for a decade, plant trees.*

*When planning for life, train and educate people.  
 (Chinese proverb)*

**Below are comments from garden tour attendees, either taken from registrant evaluation forms, or received via e-mail.**

- The tour was really superb, as usual.
- I love the El Cerrito yard on Everett; last year this yard inspired me to sheet

mulch my lawn, and now I am offering my own garden for the 2014 Tour!!

- The Bringing Back the Natives Garden Tour was excellent in every way.
- This is the most organized garden event of the year anywhere, hands down! The book is invaluable! I refer to each years book throughout the year when reflecting on the gardens I visited and each time I look back at the description or my notes in the margins, I remember something that's new to me.
- I have a tiny front lawn (400 square feet) and the grass is not doing well, no matter what I do to it. Attending the garden show really got me thinking about replacing the grass with a tiny native garden rather than resodding. Thank you.
- The guide book is very well thought out and extremely useful.
- Volunteers were knowledgeable and friendly, the signage was helpful and the directions were clear. This was my first garden tour, so I don't have anything to compare it to. Nice job!
- The tour is wonderful. What an asset to this area to have something so worthwhile and yet be free.
- I was really impressed with how nicely this event is organized, and really appreciated that the plants all had identifying markers.
- Thanks for this wonderful event. We particularly liked having a chance to meet the landscape designer at one of the gardens!
- The Tour was well-organized and well-run. Thank you for the gift you have given us all!
- I look forward to this event every year - lots of new ideas, and plants to try.
- I think you do a wonderful job and I appreciate the enthusiasm you are generating for more sustainable landscaping.
- The Tour is super-organized, interesting, educational, and a must-do spring event for anyone who has a garden, wants one, or appreciates them, and the gardeners who create them.
- The booklet was very well done - it had all of the information I needed. Signing up was easy and efficient. Volunteers were friendly, helpful. A great job!
- Excellent job. I am always impressed with the organizational skills of the people putting this tour together, and the very detailed Tour booklet. The volunteers at the sites are always very pleasant and very knowledgeable about the plants. A+! Thank you for a great day.
- This tour is such a good service toward educating people on the variety and practical uses of native plants. Thank you so much for Bringing Back the Natives!
- Thank you very much for organizing this outstanding event.
- I always look forward to attending this yearly tour to see if I can incorporate any ideas into my garden.

- I LOVE the tour! Really, it is so amazing. The gardens are very inspirational, the owners who volunteer their time and gardens and allow so many people to traipse through them and ask questions - are kind, generous and gracious with their time and property, and the volunteers and landscapers present are very helpful and kind. My friend had never been on the Bringing Back the Natives Tour and was very inspired by what she saw. She took lots of photos of plants and their botanical names, to be able to review and consider for her garden. Thanks so much for another GREAT tour!
- Another excellent Tour. Thank you and all the volunteers for all your hard work.
- The booklet was a goldmine of information.
- Thank you very much! It's obvious that so much passion and hard work went into the whole enterprise. Kudos to the organizers and volunteers, both the gardener/hosts and the "docents". The Tour was really well organized, including the easy-to-follow online description of the gardens as well as the tour booklet.
- I look forward to this tour all year! Everyone is very friendly and knowledgeable and willing to share expertise and encouragement.
- Great job! I look forward to this again next year.
- Great hosts and volunteers, very knowledgeable and friendly.
- The book was very helpful. I really enjoyed the places I visited and will be back again next year.
- Everyone was helpful, friendly and there were lots of volunteers at each location. It was really nice to have folks throughout the garden to answer questions.
- Sue Duckles' talk was very helpful. She told it like it was but was very encouraging. She gave wonderful suggestions on how to get started (and how to not get overwhelmed) by breaking down the work that needs to be done. I have a lot of ivy to remove but I feel like I can get it done!
- Loved it. Keep up the good work.
- This tour opened up a whole new world of possibilities for my garden.
- The garden volunteers and owners were all so gracious.
- Well done! Enthusiastic volunteers at every house!
- The tour was so inspiring! Thank you to the hosts and volunteers.
- Another amazing tour!
- What a tremendous amount of work. It was phenomenal.
- Please continue all the hard work that it takes to do this event. It is so enjoyable and such a good opportunity to learn more about California natives. Thank you for all you do.
- Very organized and friendly people. Enjoyed the tour immensely.
- THANKS for all of the work to put this on. I always learn so much on the tour

and find things, even if in tiny steps, to apply to our garden.

- Thank you for your efforts in pulling this together!
- Excellent; you provide a great service to the Bay Area.
- I like that you can talk with the owners of the gardens who are happy to share their knowledge.
- The owners and volunteers were extremely helpful, approachable and knowledgeable.
- I thought it was wonderful! I learned soooo much; all the gardens I visited had such knowledgeable people, who were so willing to answer questions. What you are doing by making this information available will help us move in a more conscious direction.
- I appreciate the various homeowners opening up their gardens to the public. It is a wonderful and educational tour.
- The garden owners are very generous and gracious in opening up their gardens to outsiders. The Bringing Back the Natives Tour is a wonderful way both introduce and reinforce native planting practices to the community. The volunteers involved in the Tour -- from the garden owners to those helping to collect tickets -- are helpful, knowledgeable, and definitely passionate about a more sustainable approach to gardening.
- A great thing being done and bit by bit converting people to better practices. As water becomes more scarce, expect more folks looking at this.
- Appreciated the labeling of plants. The brochure is beautiful. All the gardens I visited were beautiful and had very friendly, helpful hosts and hostesses. First rate tour.
- We deeply appreciate the effort that goes into making the tour happen, as well as the gardeners who graciously allow us to tramp through their gardens and all the helpful volunteers. It's a wonderful event - thank you!
- What a beautiful offering Kathy Kramer, the volunteers, and the hosts make to the community. Inspiring, beautiful, and helpful! Thank you to all!
- Really love it! Helps me get ideas, see mature plants, and learn about plants I haven't seen before. A really enjoyable day!
- The tour is very well organized and a wonderful opportunity to learn, enjoy and admire. I appreciate that native plants are receiving the attention they deserve. Thank you so much.
- I look forward to the tour every year, and recommend it to people I meet during my docent duties at the U.C. Botanical Garden. The tour compliments the U.C. garden because it shows practical applications of native plants.
- Kudos on an extremely-well organized event and a very informative website!
- Wonderfully organized tour. Well staffed. Great variety of gardens and habitats.
- Thanks for continuing to produce this garden tour. It is a wonderful &

educational event!

- I really enjoyed the tour. Loved being able to buy plants that I knew I wanted to incorporate.
- Well organized tour! Nice t-shirts on the volunteers! It was a pleasure to attend again.
- Volunteers very friendly, hosts very eager to answer questions. Well thought out and great planning.
- This is such a wonderful opportunity to become inspired by fellow native plant enthusiasts. I look forward to this tour every year!
- Fabulous job once again. I want to compliment the booklet organization & detail. In planning my day I spend a great deal of time checking the maps & gardens at a glance as well as the details in the write ups. Thanks again for all your hard work that I so enjoy and appreciate. I even enjoy reading the details later after the tour day is over.

## **Bringing Back the Natives Garden Tour Sunday May 5, 2013**

### **Summary**

- 43 gardens and nurseries were showcased on the Tour
- 40 + talks and demonstrations were given
- 200 volunteers made the tour possible
- there were 5,773 registrants
- \$20,000 worth of natives sold through the fall 2012 and spring 2013 Native Plant Sale Extravaganza
- 12,831 garden visits were made

<b>What do you want to learn from the tour?</b>	<b>2012</b>	<b>2013</b>
How to select native plants	72%	83
How to reduce water use	51%	58
How to garden for wildlife	51%	56
How to reduce or eliminate pesticide use	30%	33
How to replace a lawn with a garden	30%	33
How to compost	19%	23

### **Information taken from evaluations**

98% rated the tour "Excellent" or "Very Good."

### **Behavior Change**

72% of repeat registrants said they had changed their gardening practices because of their participation in the Bringing Back the Natives Garden Tour.

19% of respondents had incorporated natives into their gardens (thereby reducing herbicide use and conserving water)

14% had grouped plants by water needs and incorporated drought-resistant plants into their gardens

13% were encouraging wildlife with plant choices

10% had increased the density of plantings to out-compete weeds (reducing herbicide use and conserving water)

10% were tolerating some insect damage

10% had amended their soil

10% had installed efficient irrigation

8% had begun mulching

8% had reduced the size of their lawn

6% had reduced pesticide use

4% had reduced the amount of hardscape in their gardens.

3% were composting

3% were grasscycling

**Repeat visitors were highly motivated to make changes in their gardens.**

**When asked what they planned to do:**

38% planned to increase the density of plantings to out-compete weeds

29% to group plants of similar water needs

25% to install efficient irrigation

20% to encourage wildlife

21% to reduce the size of their lawn

18% to mulch

18% to incorporate native plants into their gardens

16% to amend their soil with compost

13% to tolerate some insect damage to plants

12% to compost

11% to minimize hardscapes

8% to grasscycle

6% to reduce or eliminate pesticide use

**First-time registrants**

The tour was highly motivating to first time registrants.

58% responded that they planned to increase the density of plants, thus helping to outcompete weeds and reduce water use

50% planned to group plants by water needs

47% planned to incorporate native plants into their gardens

43% planned to encourage wildlife

42% planned to incorporate drought-resistant plants into their gardens

35% to install efficient irrigation

32% to reduce the size of their lawns

32% amend their soils

31% planned to mulch

19% planned to tolerate some plant damage

16% to compost

14% planned to reduce the amount of hardscape in their gardens

15% planned to reduce or eliminate pesticide use