



September 30, 2016

VALLEJO SANITATION &  
FLOOD CONTROL DISTRICT

Bruce H. Wolfe, Executive Officer  
California Regional Water Quality Control Board  
San Francisco Bay Region  
1515 Clay Street, Suite 1400  
Oakland, CA 94612

*Protecting public health  
and the San Francisco Bay  
since 1952.*

450 Ryder Street  
Vallejo, California 94590  
phone 707-644-8949

BOARD OF TRUSTEES  
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DISTRICT MANAGER  
Melissa A. Morton

Dear Mr. Wolfe:

Attached is the FY 2015-2016 Annual Report for Vallejo Sanitation and Flood Control District as required by provision C.17 of the NPDES permit NO. CAS612008, as adopted on November 19, 2015 via order NO.R2-2015-0049.

I certify under penalty of law that this document and all attachments are prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted based on my inquiry of the person or persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of 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.

VALLEJO SANITATION AND FLOOD CONTROL DISTRICT

A handwritten signature in cursive script, appearing to read "Melissa Morton".

Melissa Morton  
District Manager

**FY 2015-2016 Annual Report**

**Permittee Name:** \_\_\_\_\_

**ATTACHMENT B**

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Permittee Name: Vallejo Sanitation & Flood Control District

Section 1 – Permittee Information

Background Information					
Permittee Name:	Vallejo Sanitation and Flood Control District				
Population:	118,470				
NPDES Permit No.:	CAS612008				
Order Number:	R2-2015-0049				
Reporting Time Period (month/year):	July 2015 through June 2016				
Name of the Responsible Authority:	Melissa Morton	Title:	District Manager		
Mailing Address:	450 Ryder Street				
City:	Vallejo	Zip Code:	94590	County:	Solano
Telephone Number:	707 644 8949	Fax Number:	707 644 8975		
E-mail Address:	<a href="mailto:mmorton@vsfcd.com">mmorton@vsfcd.com</a>				
Name of the Designated Stormwater Management Program Contact (if different from above):	Jennifer Harrington	Title:	Environmental Specialist		
Department:	Environmental Services				
Mailing Address:	450 Ryder Street				
City:	Vallejo	Zip Code:	94590	County:	Solano
Telephone Number:	707 644 8949	Fax Number:	707 644 8975		
E-mail Address:	<a href="mailto:jharrington@vsfcd.com">jharrington@vsfcd.com</a>				

Section 2 - Provision C.2 Reporting Municipal Operations

**Program Highlights and Evaluation**

Highlight/summarize activities for reporting year:

Summary:

Continued participation in BASMAA and CASQA, we have a dedicated staff member who is on the BASMAA board of directors and we are a member of CASQA. Seven large trash capture devices are in continued operation at three locations. They are working properly and are being maintained. A group effort between the District, City of Vallejo, Fairfield Suisun Storm Program and BASMAA to install two PCB pilot study sites for C.12 compliance was successfully completed. The first site consists of a Contech storm filter adjacent to a PGE substation. The other site consists of a grassy swale next to a railway.

On January 25, 2016, San Francisco Bay Regional Water Quality Control Board (Water Board) staff conducted a compliance inspection of the City of Vallejo's (City's) and the Vallejo Sanitation and Flood Control District's (District's) Municipal Stormwater Program. Based on the findings of that inspection, the City and District received a Notice of Violation and were given until May 2, 2016 to respond and address how they would rectify the 19 required actions and 5 recommended actions in the Notice of Violation. Immediately upon receiving the Notice of Violation the City and District completed and/or began implementation to address the 19 required actions and 5 recommended actions. On May 2, 2016, the City and District responded to the Notice of Violation with a Required Action Work Plan that contained details and timelines for completion or compliance for each individual action. As a part of the work plan, the City and District have reviewed the permit and determined which agency is responsible for each task and are working toward forming a stormwater group/program to more effectively implement the permit.

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

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

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

Comments: Primary responsibility for this section lies with the City of Vallejo. The District follows applicable BMPs on its own projects and has legal authority to take enforcement action against illicit discharges.

**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.

Y	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
Y	Implementation of the BASMAA Mobile Surface Cleaner Program BMPs

Comments: Primary responsibility for this section lies with the City of Vallejo. The District follows applicable BMPs on its own projects and has legal authority to take enforcement action against illicit discharges.

**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.

NA	Control of discharges from bridge and structural maintenance activities directly over water or into storm drains
NA	Control of discharges from graffiti removal activities
NA	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
NA	Employee training on proper capture and disposal methods for wastes generated from bridge and structural maintenance and graffiti removal activities.
NA	Contract specifications requiring proper capture and disposal methods for wastes generated from bridge and structural maintenance and graffiti removal activities.

Comments: See the City of Vallejo Annual report for C.2.c implementation.

C.2.e. ► Rural Public Works Construction and Maintenance					
Does your municipality own/maintain rural <sup>1</sup> roads:		<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
If your answer is <b>No</b> then skip to C.2.f.					
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>1</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.

Permittee Name: Vallejo Sanitation & Flood Control District

C.2.f. ► Corporation Yard BMP Implementation			
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: All of the storm drains at this facility are plumbed back into the treatment plant. The facility has no stormwater runoff. However, as required by the MRP VSFCD does have a SWPPP on file. In addition our facility has an operational staff that does an overall facility inspection of the plant twice per shift year round. During these rounds the general condition of the plant is inspected, equipment is checked for leaks, etc. Any problems found are relayed back to the shift supervisor and addressed immediately or as appropriate.			
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
VSFCD	Daily	Typically minor housekeeping issues	Addressed immediately

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

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

(For FY 15-16 Annual Report only) Provide a brief summary of the methods of implementation of Provisions C.3.a.i.(1)-(8).  
 Summary: See City of Vallejo Annual Report for activities related to C.3.

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

Fill in attached table C.3.b.iv.(2) or attach your own table including the same information.  
 See City of Vallejo Annual Report for activities related to C.3.

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

(For FY 2015-16 Annual Report only). Submit design specifications for pervious pavement systems that have been developed and adopted on a regional or countywide basis. If design specifications have been adopted and are contained in a Countywide stormwater handbook, include a reference to the handbook.  
 Summary:  
 See City of Vallejo Annual Report for activities related to C.3.

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

Is your agency choosing to require 100% LID treatment onsite for all Regulated Projects and not allow alternative compliance under Provision C.3.e.?	NA	Yes	NA	No
Comments (optional): See City of Vallejo Annual Report for activities related to C.3.				

**C.3.e.v ▶ Special Projects Reporting**

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

If you answered “Yes” to either question,  
 1) Complete Table C.3.e.v.  
 2) Attach narrative discussion of 100% LID Feasibility or Infeasibility for each project.  
 See City of Vallejo Annual Report for activities related to C.3.

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

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

See City of Vallejo Annual Report for activities related to C.3.

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

See City of Vallejo Annual Report for activities related to C.3.

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

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

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

Summary:  
See City of Vallejo Annual Report for activities related to C.3.

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:  
See City of Vallejo Annual Report for activities related to C.3.

**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:  
See City of Vallejo Annual Report for activities related to C.3.

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

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

Summary:  
See City of Vallejo Annual Report for activities related to C.3.

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

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

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

Background Information:

Describe how this provision is being implemented by your agency, including the process used by your agency to identify projects with potential for green infrastructure, if applicable.

See City of Vallejo Annual Report for activities related to C.3.

Summary of Planning or Implementation Status of Identified Projects:

See City of Vallejo Annual Report for activities related to C.3.

**C.3.j.iii.(2) ► Participate in Processes to Promote Green Infrastructure**

On an annual basis, report on the goals and outcomes during the reporting year of work undertaken to participate in processes to promote green infrastructure.

See City of Vallejo Annual Report for activities related to C.3.

**C.3.j.iv.(2) ► Tracking and Reporting Progress**

On an annual basis, report progress on development and implementation of methods to track and report implementation of green infrastructure measures and provide reasonable assurance that wasteload allocations for TMDLs are being met.

See City of Vallejo Annual Report for activities related to C.3.

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

Project Name Project No.	Project Location <sup>8</sup> , Street Address	Name of Developer	Project Phase No. <sup>9</sup>	Project Type & Description <sup>10</sup>	Project Watershed <sup>11</sup>	Total Site Area (Acres)	Total Area of Land Disturbed (Acres)	Total New Impervious Surface Area (ft <sup>2</sup> ) <sup>12</sup>	Total Replaced Impervious Surface Area (ft <sup>2</sup> ) <sup>13</sup>	Total Pre- Project Impervious Surface Area <sup>14</sup> (ft <sup>2</sup> )	Total Post- Project Impervious Surface Area <sup>15</sup> (ft <sup>2</sup> )
<b>Private Projects</b>											
NA											
<b>Public Projects</b>											
NA											
Comments: See City of Vallejo Annual Report for activities related to C.3.											

<sup>8</sup>Include cross streets

<sup>9</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>10</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>11</sup>State the watershed(s) in which the Regulated Project is located. Downstream watershed(s) may be included, but this is optional.

<sup>12</sup>All impervious surfaces added to any area of the site that was previously existing pervious surface.

<sup>13</sup>All impervious surfaces added to any area of the site that was previously existing impervious surface.

<sup>14</sup>For redevelopment projects, state the pre-project impervious surface area.

<sup>15</sup>For redevelopment projects, state the post-project impervious surface area.

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

Project Name Project No.	Application Deemed Complete Date <sup>16</sup>	Application Final Approval Date <sup>17</sup>	Source Control Measures <sup>18</sup>	Site Design Measures <sup>19</sup>	Treatment Systems Approved <sup>20</sup>	Type of Operation & Maintenance Responsibility Mechanism <sup>21</sup>	Hydraulic Sizing Criteria <sup>22</sup>	Alternative Compliance Measures <sup>23/24</sup>	Alternative Certification <sup>25</sup>	HM Controls <sup>26/27</sup>
<b>Private Projects</b>										
NA										

<sup>16</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>17</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>18</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>19</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>20</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>21</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>22</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>23</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>24</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>25</sup>Note whether a third party was used to certify the project design complies with Provision C.3.d.

<sup>26</sup>If HM control is not required, state why not.

<sup>27</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.iv.(2) ► Regulated Projects Reporting Table (part 2) –  
 Projects Approved During the Fiscal Year Reporting Period  
 (public projects)**

Project Name Project No.	Approval Date <sup>28</sup>	Date Construction Scheduled to Begin	Source Control Measures <sup>29</sup>	Site Design Measures <sup>30</sup>	Treatment Systems Approved <sup>31</sup>	Operation & Maintenance Responsibility Mechanism <sup>32</sup>	Hydraulic Sizing Criteria <sup>33</sup>	Alternative Compliance Measures <sup>34/35</sup>	Alternative Certification <sup>36</sup>	HM Controls <sup>37/38</sup>
<b>Public Projects</b>										
NA										
Comments: See City of Vallejo Annual Report for activities related to C.3.										

<sup>28</sup>For public projects, enter the plans and specifications approval date.  
<sup>29</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>30</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>31</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>32</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>33</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>34</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>35</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>36</sup>Note whether a third party was used to certify the project design complies with Provision C.3.d.  
<sup>37</sup>If HM control is not required, state why not.  
<sup>38</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.v.(2). ► Table of Newly Installed<sup>39</sup> Stormwater Treatment Systems and Hydromodification Management (HM) Controls (Optional)**

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

Name of Facility	Address of Facility	Party Responsible <sup>40</sup> For Maintenance	Type of Treatment/HM Control(s)
NA			

<sup>39</sup> "Newly Installed" includes those facilities for which the final installation inspection was performed during this reporting year.

<sup>40</sup> State the responsible operator for installed stormwater treatment systems and HM controls.

C.3.e.v.Special Projects Reporting Table												
Reporting Period – July 1 2015 - June 30, 2016												
Project Name & No.	Permittee	Address	Application Submittal Date <sup>41</sup>	Status <sup>42</sup>	Description <sup>43</sup>	Site Total Acreage	Gross Density DU/Acre	Density FAR	Special Project Category <sup>44</sup>	LID Treatment Reduction Credit Available <sup>45</sup>	List of LID Stormwater Treatment Systems <sup>46</sup>	List of Non-LID Stormwater Treatment Systems <sup>47</sup>
									Category A: Category B: Category C: Location: Density: Parking:	Category A: Category B: Category C: Location: Density: Parking:	Indicate each type of LID treatment system and % of total runoff treated.	Indicate each type of non-LID treatment system and % of total runoff treated. Indicate whether minimum design criteria met or certification received
NA												

<sup>41</sup>Date that a planning application for the Special Project was submitted.

<sup>42</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>43</sup>Type of project (commercial, mixed-use, residential), number of floors, number of units, type of parking, and other relevant information.

<sup>44</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>45</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>46</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>47</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.

**Special Projects Narrative**

See City of Vallejo Annual Report for activities related to C.3.

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

Project Name and Location <sup>42</sup>	Project Description	Status <sup>43</sup>	GI Included? <sup>44</sup>	Description of GI Measures Considered and/or Proposed or Why GI is Impracticable to Implement <sup>45</sup>
NA				

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

Project Name and Location <sup>46</sup>	Project Description	Planning or Implementation Status	Green Infrastructure Measures Included
NA			

<sup>42</sup> List each public project that is going through your agency’s process for identifying projects with green infrastructure potential.

<sup>43</sup> Indicate status of project, such as: beginning design, under design (or X% design), projected completion date, completed final design date, etc.

<sup>44</sup> Enter “Yes” if project will include GI measures, “No” if GI measures are impracticable to implement, or “TBD” if this has not yet been determined.

<sup>45</sup> Provide a summary of how each public infrastructure project with green infrastructure potential will include green infrastructure measures to the maximum extent practicable during the permit term. If review of the project indicates that implementation of green infrastructure measures is not practicable, provide the reasons why green infrastructure measures are impracticable to implement.

<sup>46</sup> List each planned (and expected to be funded) public and private green infrastructure project that is not also a Regulated Project as defined in Provision C.3.b.ii. Note that funding for green infrastructure components may be anticipated but is not guaranteed to be available or sufficient.

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

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

Summary:  
 The District continued to implement its industrial and commercial site controls alongside its pretreatment program. Stormwater focused inspections are conducted as well as pretreatment inspections that include stormwater elements. For example the District has a FOG program that inspects local restaurants annually. District personnel conducting these inspections also check the dumpster areas to ensure trash and waste oil & grease is not leaving the containment area. The District updates its facilities list on a continuous basis with input from a variety of sources and also gets annual updates via City of Vallejo Business Licenses.

**C.4.b.iii ► Potential Facilities List**

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

See attachment.

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

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

<input checked="" 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	333	
Total number of inspections conducted	348	
Number of violations (excluding verbal warnings)	4	
Sites inspected in violation	3	0.9
Violations resolved within 10 working days or otherwise deemed resolved in a longer but still timely manner	4	100

Comments:  
 A real estate development company was sent an advisory letter to remove trash from an undeveloped commercial property. One mobile food vending truck was issued an NOV for an illicit discharge to the storm drain system. A food processing facility was issued an NOV, an Administrative Complaint and an Administrative Order for two separate illicit discharges to the storm drain system. All were resolved in a timely manner.

--

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

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

Type/Category of Violations Observed	Number of Violations
Actual discharge (e.g. active non-stormwater discharge or clear evidence of a recent discharge)	4
Potential discharge and other	0
Comments: The District counts discharge streams as one discharge per source of discharge per inspection per site.	

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

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

	Enforcement Action (as listed in ERP) <sup>47</sup>	Number of Enforcement Actions Taken	% of Enforcement Actions Taken <sup>48</sup>
Level 1	Advisory letter/notice to clean	1	20
Level 2	Notice of Violation	2	40
Level 3	Administrative Complaint	1	20
Level 4	Administrative Order	1	20
<b>Total</b>		5	100

<sup>47</sup>Agencies to list specific enforcement actions as defined in their ERPs.

<sup>48</sup>Percentage calculated as number of each type of enforcement action divided by the total number of enforcement actions.

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

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

Business Category <sup>49</sup>	Number of Actual Discharge Violations	Number of Potential/Other Discharge Violations
Food service establishment	3	0
Commercial	1	0

**C.4.d.iii.(1)(d) ▶ Non-Filers**

List below or attach a list of the facilities required to have coverage under the Industrial General Permit but have not filed for coverage:  
 There were no industries identified as non-filers during scheduled inspections during this fiscal year.

**C.4.e.iii ▶ Staff Training Summary**

Training Name	Training Dates	Topics Covered	No. of Industrial/Commercial Site Inspectors in Attendance	Percent of Industrial/Commercial Site Inspectors in Attendance	No. of IDDE Inspectors in Attendance	Percent of IDDE Inspectors in Attendance
Env. Training Symposium & Conference	10/29,30/15	Current status of Industrial Stormwater Permit, The 7 Deadly Sins of Stormwater Mgmt, Contaminants of Emerging Concern, Regulatory updates	1	33	1	33
Construction Site Control Training	3/10/16	Effective BMP types, installation & maintenance.	3	100	3	100
Incident Response Documentation	5/5/16	Required action #6 from 3-22-16 NOV states: "The District shall train its staff to thoroughly and accurately complete the Illegal or Illicit Incident Response Report Form for each incident".	3	100	3	100

<sup>49</sup>List your Program's standard business categories.

Permittee Name: Vallejo Sanitation & Flood Control District

Pollution Control meetings	Weekly	Illicit discharge detection, elimination and follow up. Urban runoff pollution prevention and inspection procedures.	3	100	3	100
Comments: 2 inspectors and one lead supervisor comprise 100% of the field inspection staff and perform both Industrial/Commercial and IDDE inspections.						

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

<b>Program Highlights and Evaluation</b>	
<b>Highlight/summarize activities for reporting year:</b>	
Provide background information, highlights, trends, etc.	
Summary: 70 reports of potential illicit discharges were received during this report period; only one remains unresolved. The District continues to implement our collection system screening and cleaning program. During the report period 3,233 storm drain catch basins were inspected and 104 were cleaned. The District works collaboratively with Solano County Resource Management, the City of Vallejo Code Enforcement and various other agencies when additional assistance is needed to address an illicit discharge.	
<b>C.5.c.iii ► Complaint and Spill Response Phone Number</b>	
List below or attach your complaint and spill response phone number	
707 644 8949	
Provide your complaint and spill response web address, if used	
None	
Is a screen shot of your website showing the central contact point attached?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If No, explain:	
Provide a discussion of how the central contact point (complaint and spill response phone number and, if used, web address) is being publicized to your staff and the public.	

The spill reporting number is the main phone number of the District. This number is answered 24/7. All employees are familiar with this number. We provide magnets with the number on it for field operations staff to give to residents when they are out on a service call. The number, with directions on what it's for, is posted at the top of every newsletter we send. This goes out every other month with our bill.

Within the newsletter itself, depending on the article, we promote the number as a way to reach us for all issues except billing. On our website, there are several places that direct site visitors how to report a spill. Any time we place a newspaper ad, online banner, all of our brochures, etc. all have our phone number and website listed.

We also provide a non-emergency extension to our stormwater program coordinator, who is available during regular business hours. This number is noted on our phone tree (accessed through the main number) and our website, under "Report a Storm Drain Violation."

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

Spill and Discharge Complaint Tracking (fill out the following table or include an attachment of the following information)		
	Number	Percentage
Discharges reported (C.5.d.iii.(1))	70	
Discharges reaching storm drains and/or receiving waters (C.5.d.iii.(2))	12	17.1
Discharges resolved in a timely manner (C.5.d.iii.(3))	69	98.6
Comments:		
During the report period the District received 70 reports of illicit discharges. Out of the 70 reports twelve were found to enter the storm system. Each complaint is usually investigated the day it is received and all but one were resolved in a timely manner. Typically the complaint is of a potential discharge that is easily remediated or no evidence of a discharge is found. If no evidence of a discharge is found the reporting party is contacted to verify location. Some actual discharges do not reach the storm drain system due the minor volumes involved and/or the quick response time of District staff.		

**C.5.f.iii ► MS4 Map Availability**

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

The MS4 map is available to the public, by appointment, at the District's offices during regular business hours. This is publicized on the District's website as follows:

"Storm Drain Maps: If you are interested in seeing the District's storm drain maps, they are available for public viewing by appointment during regular business hours. Call (707) 644-8949 ext. 202."

<https://www.vsfcd.com/SitePages/stormwater.aspx>

Section 6 – Provision C.6 Construction Site Controls

<b>C.6.e.iii.(1) ► Hillside Development Criteria</b>			
What criteria is your agency using to determine hillside development areas?	NA	Local criteria such as maps of hillside development areas or other written criteria	NA
The permit definition of projects on sites with ≥ 15% slope			
Attach a copy of hillside development area maps or provide your written criteria below, if applicable.			
Description: See City of Vallejo Annual Report for activities related to C.6			

<b>C.6.e.iii.2.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)</b> (C.6.e.iii.1.a)	<b>Number of sites disturbing ≥ 1 acre of soil</b> (C.6.e.iii.1.b)	<b>Total number of storm water runoff quality inspections conducted (include only High Priority Site and sites disturbing 1 acre or more)</b> (C.6.e.iii.1.c)
# NA	# NA	# NA
Comments: See City of Vallejo Annual Report for activities related to C.6.		

C.6.e.iii.2.d ► Construction Activities Storm Water Violations		
BMP Category	Number of Violations <sup>50</sup> excluding Verbal Warnings	% of Total Violations <sup>51</sup>
Erosion Control	NA	NA
Run-on and Run-off Control		
Sediment Control		
Active Treatment Systems		
Good Site Management		
Non Stormwater Management		
<b>Total<sup>52</sup></b>		<b>100%</b>

<sup>50</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>51</sup>Percentage calculated as number of violations in each category divided by total number of violations in all six categories.

<sup>52</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.2.e ► Construction Related Storm Water Enforcement Actions**

	Enforcement Action (as listed in ERP) <sup>53</sup>	Number Enforcement Actions Issued	% Enforcement Actions Issued <sup>54</sup>
Level 1 <sup>55</sup>	See City of Vallejo Annual Report for activities related to C.6.	NA	NA
Level 2			
Level 3			
Level 4			
<b>Total</b>			<b>100%</b>

**C.6.e.iii.2.f, g ► Illicit Discharges**

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

<sup>53</sup>Agencies should list the specific enforcement actions as defined in their ERPs.

<sup>54</sup>Percentage calculated as number of each type of enforcement action divided by the total number of enforcement actions.

<sup>55</sup>For example, Enforcement Level 1 may be Verbal Warning.

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

	Number	Percent
Violations (excluding verbal warnings) fully corrected within 10 business days after violations are discovered or otherwise considered corrected in a timely period (C.6.e.iii.1.h)	NA	% <sup>56</sup>
Violations (excluding verbal warnings) not fully corrected within 30 days after violations are discovered (C.6.e.iii.1.i)	NA	% <sup>57</sup>
Total number of violations (excluding verbal warnings) for the reporting year <sup>58</sup>		100%
<b>Comments:</b> See City of Vallejo Annual Report for activities related to C.6.		

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

Describe your evaluation of the tracking data and data summaries and provide information on the evaluation results (e.g., data trends, typical BMP performance issues, comparisons to previous years, etc.).
Description: See City of Vallejo Annual Report for activities related to C.6.

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

Describe what appear to be your program’s strengths and weaknesses, and identify needed improvements, including education and outreach.
Description: See City of Vallejo Annual Report for activities related to C.6.

**C.6.f ► Staff Training Summary**

Training Name	Training Dates	Topics Covered	No. of Inspectors in Attendance	
NA	NA	NA	NA	

<sup>56</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>57</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>58</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.

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

**C.7.b.i.1 ► Outreach Campaign**

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

The following separate report, developed by BASMAA, summarizes our regional efforts:

- Regional Supplement for Training and Outreach FY 2015-16

Further details on VSFCDD's Outreach Program can be found herein as well as in our:

- Vallejo Sanitation & Flood Control District Pollution Prevention Report FY 2015-16

Every other month, VSFCDD customers receive a newsletter with their bill that covers a variety of stormwater and wastewater related issues. Newsletters are posted on our public website. Additionally, the website hosts ongoing pages related to the stormwater program, how to prevent or report a spill, less toxic gardening, how to participate in watershed activities, etc.

**C.7.c. Stormwater Pollution Prevention Education**

Provide details of website or phone number used as the point of contact for information on stormwater issues. Report on how the point of contact is publicized and maintained. Certify that your agency maintains a website (or refers to a regional website) to provide information on stormwater issues, watershed characteristics, and stormwater pollution prevention alternatives.

Local stormwater phone number(s)	(707) 644-8949
Local/Regional stormwater website(s)	www.VSFCDD.com

Outreach:

The stormwater phone number is provided on VSFCDD brochures that refer to issues including Concrete and Mortar, Food Trucks, Pet Waste, Restaurants, Swimming Pool/Spa Discharges, and You Can Make A Difference, as well as on door hangers that we use in specific neighborhoods where there is a suspected illicit discharge, such as from a leaking vehicle. The number is posted on our website. The website's home page has a "Report A Storm Drain Violation" button, a "Report An Overflow" button, and a Stormwater Program page, all of which direct site visitors to call our number. For overflows, we direct them to call our general number which is answered 24/7. For storm drain violations and stormwater program questions, we refer them to Doug Scott at ext. 260.

<b>C.7.d ► Public Outreach and Citizen Involvement Events</b>		
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		
<b>Event Details</b>	<b>Description</b> (messages, audience)	<b>Evaluation of Effectiveness</b>
7.18.16 <b>Lake Cleanup</b> Blue Rock Springs Park	Trash removed from lake and surrounding park.	14 attendees; approx. 5 large bags of trash removed
8.7.15 <b>Cub Scout Camp</b> Hanns Park	The District PIO taught dens of elementary school age Cub Scouts about Blue Rock Springs Creek. Each of the groups learned about the history and flow of the creek, Native American and immigrant uses of tules and cattails, the importance of native vs. non-native plants, and participated in a non-native plant removal project at a habitat restoration site.	Approx. 45 Cub Scouts, plus 9 adults. The boys loved learning about the creek and asked excellent questions.
8.8.15 <b>Community Partner Expo</b> Cal Maritime Academy	The District PIO staffed a Watershed Alliance table at this event to educate Cal Maritime cadets about how to volunteer	~30 cadets signed up for the VWA email list
8.29.15 <b>Vallejo Watershed Alliance Annual Planning Meeting</b> Dan Foley Park Cultural Center	Each year, the VWA meets in August to brainstorm and prioritize monthly activities for the coming year, and hear a guest speaker presentation. This year's speakers represented the U.S. Forest Service.	14 attendees learned about the history and role of the USFS, and discussed ways we might partner in the future.
9.19.15 <b>Coastal Cleanup Day</b> various sites throughout Vallejo		796 participants on 20 sites removed approx. 12,450 lbs. of trash along 29 miles of waterways
10.7.15 <b>Health &amp; Safety Fair</b> VSFCD	Employees learn about less-toxic alternatives to pesticide use, proper disposal of cooking oil and used motor oil, the Vallejo Watershed Alliance, and more.	More than 60 employees participated; they stopped by the table for information.
10.17.15 <b>Acorn Collection</b> Hanns Park	Volunteers collected acorns for future habitat enhancement projects. The Solano Resource Conservation District will propagate the oaks.	9 participants

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11.21.15 <b>Native Grass Meadow Improvements</b> Hanns Park	Participants restored the bark path in the native grass meadow.	14 participants
1.16.16 <b>Native Grass Plug Planting</b> Hanns Park	Native grass plugs planted in several Hanns Park restoration areas; bird boxes cleaned and contents recorded.	28 participants
2.20-21.16 <b>San Francisco Bay Flyway Festival</b> Mare Island	District staff and VWA volunteers staffed an information table at the Flyway Festival	6 volunteers; 30 signups for email list
3.19.16 <b>Shoreline Improvements</b> Lake Chabot	Trash cleanup and tule removal along shoreline in advance of the Inner City Youth Fishing Derby	14 volunteers, including Touro University students and local fishermen, attended the workday
4.16.16 <b>Earth Day Festival</b> Downtown Vallejo	The District staffs two tables: one focused on less-toxic gardening/native plants and the other is a Vallejo Watershed Alliance outreach table	2 District staff took care of the VSFCD table. 2 VWA volunteers covered their table. Approx. 12 signups for VWA email list.
4.23.16 <b>Earth Day Creek Cleanup</b> Hanns Park	Cleanup along Blue Rock Springs Creek in partnership with Solano County, Solano RCD, Recology Vallejo, and others	8 volunteers removed approximately 1 cubic yard of trash.
5.21.06 <b>Rindler Creek Cleanup</b> Fairgrounds Drive	In partnership with MIT Academy, students and general public remove trash along this section of Rindler Creek.	40 volunteers removed 120 lbs. of trash (around 5 cubic yards plus 9 tires). MIT students use Coastal Cleanup Day data cards to record the trash.
6.18.16 <b>Habitat Restoration Workday</b> Hanns Park	Plant deer grass to create a protective buffer on the edge of the native grass meadow and invasive removal.	14 volunteers

**C.7.e. ► Watershed Stewardship Collaborative Efforts**

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

Summary:

The District continued its role as the lead agency in the Vallejo Watershed Alliance, a community-based group formed to enhance local waterways throughout the Vallejo watershed, providing support and resources for citizen and group involvement. Establishing and supporting this group helps the District fulfill its mission and adhere to regulations. It provides a forum for dealing with urban water problems. The Alliance is made up of public agencies, nonprofits, and interested residents. In this report period, the VWA has:

Permittee Name: Vallejo Sanitation & Flood Control District

- Partnered with key local agencies and groups including the Greater Vallejo Recreation District, Solano Resource Conservation District (RCD), City of Vallejo, and more;
- Hosted outreach activities: tables at Earth Day, Visions of the Wild, and the SF Bay Flyway Festival, distributed meeting minutes to field representatives for elected officials, and invited participation from many groups;
- Held monthly planning meetings open to the public;
- Expanded habitat enhancement efforts at Blue Rock Springs Creek;
- Hosted cleanups and/or restoration efforts at Rindler Creek, Blue Rock Springs Creek and Lake Chabot, participated in and promoted Coastal Cleanup Day;
- Hosted an annual planning workshop to brainstorm and prioritize workday focus for the upcoming year; a special presentation by Steve Dunsky from the U.S. Forest Service discussed USFS efforts in the West and potential partnerships with the Alliance;
- Maintained the path in the Alliance’s native grass meadow that will protect the native plants and reduce erosion;
- Worked with third graders in the Watershed Explorers program;
- Worked with District and RCD staff to support high school creek biomonitoring assessments.

Looking ahead, the Alliance will continue to engage the public in enhancing Vallejo’s waterways with the help of other local groups and the Solano RCD. Photographs and further details about the Vallejo Watershed Alliance can be found in the District’s Pollution Prevention Annual Report FY 2015-16.

**C.7.f. ► School-Age Children Outreach**

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

Program Details	Focus & Short Description	Number of Students/Teachers reached	Evaluation of Effectiveness
Provide the following information: Name Grade or level	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.
Watershed Explorers Grade 3	VSFCD supported the Solano RCD’s Watershed Explorer Program, which emphasizes science, hands-on and place-based learning to build understanding of local creeks and watersheds.	507 students 104 adults	In the pre-assessment, 31% of respondents were able to answer all questions with correct/partially correct answers. By the post-assessment, 76% of the respondents were able to answer all questions with correct/partially correct answers.
Wastewater Treatment Plant &	Wastewater treatment plant tour, plus watershed/stormwater pollution	766 students	Students are quizzed at the end of the tour;

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C.7 – Public Information and Outreach

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Stormwater Tours Grades 4-5	class and optional tour of recycling center.	40 adults	most of the children score 90% or higher.
Wastewater Treatment Plant & Stormwater Presentations Grades 4-5	In-class presentations on how wastewater is treated, how stormwater becomes polluted, and how students and their families can make a positive impact on water quality.	40 students 2 teachers	Students are quizzed at the end of the presentation; most of the children score 90% or higher.
Creek Biomonitoring High school	District-funded program for high school biology students to form a bioassessment and learning program at Blue Rock Springs Creek, Chabot Creek, and Rindler Creek.	228 students 5 teachers	In the pre-assessment, 31% of respondents were able to answer all questions with correct/partially correct answers. By the post-assessment, 72% of the respondents were able to answer all questions with correct/partially correct answers.

Section 9 – Provision C.9 Pesticides Toxicity Controls

<b>C.9.a. ► Implement IPM Policy or Ordinance</b>							
Is your municipality implementing its IPM Policy/Ordinance and Standard Operating Procedures?				<input checked="" type="checkbox"/> X	Yes	<input type="checkbox"/>	No
If no, explain:							
Report implementation of IPM BMPs by showing trends in quantities and types of pesticides used, and suggest reasons for increases in use of pesticides that threaten water quality, specifically organophosphates, pyrethroids, carbaryl, and fipronil. A separate report can be attached as evidence of your implementation.							
<b>Trends in Quantities and Types of Pesticides Used<sup>59</sup></b>							
Pesticide Category and Specific Pesticide Used	Amount <sup>60</sup>						
	FY 15-16	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	
Organophosphates	0						
Pyrethroids	0						
Carbamates	0						
Fipronil	0						
Indoxacarb	Reporting						

<sup>59</sup>Includes all municipal structural and landscape pesticide usage by employees and contractors.

<sup>60</sup>Weight or volume of the product or preferably its active ingredient, using same units for the product each year. Please specify units used. The active ingredients in any pesticide are listed on the label. The list of active ingredients that need to be reported in the pyrethroids class includes: metofluthrin, bifenthrin, cyfluthrin, beta-cyfluthrin, cypermethrin, deltamethrin, esfenvalerate, lambdacyhalothrin, and permethrin.

	not required in FY 15-16					
Diuron	Reporting not required in FY 15-16					
Diamides	Reporting not required in FY 15-16					
<p><b>IPM Tactics and Strategies used:</b></p> <p><b>Set Action Thresholds.</b> Before taking any pest control actions, IPM users first set an action threshold—a point at which pest populations or environmental conditions indicate that pest control action must be taken. This threshold is often the level at which pests will become a health hazard or an economic threat.</p> <p><b>Monitor and Identify Pests.</b> Not all pests require control. Many pests are not harmful, and some are even beneficial. IPM programs work to monitor for and accurately identify pests so appropriate suppression decisions can be made in conjunction with action thresholds.</p>						

**C.9.b ► Train Municipal Employees**

Enter the number of employees that applied or used pesticides (including herbicides) within the scope of their duties this reporting year.	11
Enter the number of these employees who received training on your IPM policy and IPM standard operating procedures within this reporting year.	0
Enter the percentage of municipal employees who apply pesticides who have received training in the IPM policy and IPM standard operating procedures within this reporting year.	0
<p>Type of Training:                  All employees that apply or use pesticides/herbicides will receive training during FY 16-17.</p>	

C.9.c ▶ Require Contractors to Implement IPM			
Did your municipality contract with any pesticide service provider in the reporting year?	X	Yes	No
<p>If yes, briefly describe how contractor compliance with IPM Policy/Ordinance and SOPs was monitored</p> <p>The District's PCO is a certified member of Eco Wise. Our contract with them requires that they employ IPM strategies for all work performed. Prior to the application of pesticides, (with the exception of containerized baits) the contractor performs a site assessment and must notify a District manager or supervisor prior to treatment. The following language is found in the "Scope of Work" section of the contract:</p> <p>It is the Policy of Vallejo Sanitation and Flood Control District (District) to ensure that Integrated Pest Management (IPM) practices are employed during pest control activities to minimize human exposure to pesticides, avoid secondary poisoning to non-target animals and prevent pesticide related pollution of local waterways and the San Francisco Bay. IPM is an effective and environmentally sensitive approach to pest management that relies on a combination of common sense practices to eliminate or substantially reduce the use of chemical pesticides.</p> <p>Contractors performing pest control services for the District shall comply with the following IPM standards:</p> <ol style="list-style-type: none"> <li>1. The following products shall not be used for insect control:               <ol style="list-style-type: none"> <li>a) Organophosphate products (e.g., diazinon or chlopyrifos)</li> <li>b) Carbamate products (e.g. carbaryl)</li> <li>c) Pyrethroid products, containerized pyrethroid products or pyrethroid products whose application method prevents pyrethroid release to the environment may be used</li> </ol> </li> <li>2. Contractors shall use containerized baits for ant control, unless conditions require a different form of bait to be employed.</li> <li>3. Spray pesticides are discouraged except insecticidal soaps and plant based products (pyrethrins, mint oil, rosemary oil, etc.). When a spray pesticide is required, it shall be applied precisely in the smallest amount to achieve control.</li> <li>4. Pesticides should only be applied as follows:               <p>Directed treatments to a void or other inaccessible area or to other areas humans would not normally contact; spot treatment of outdoor areas where IPM practices have failed; crack and crevice treatment; or as a self-contained bait station.</p> </li> <li>5. Trapping and exclusion shall be the primary rodent control methods. To prevent bait resistance and secondary poisoning, rodent baits shall only be used when trapping and exclusion are unsuccessful.</li> <li>6. No pesticides of any kind shall be applied outdoors on impervious surfaces when a 40% chance or greater chance of rain is forecast within three days, unless the pesticides are containerized baits that will not contribute to runoff pollution.</li> </ol>			

Permittee Name: Vallejo Sanitation & Flood Control District

7. Contractors must notify the manager or supervisor(s) overseeing the employees in working areas that are to be treated with any pest control product other than containerized baits.
8. Contractors shall submit all MSDS's for products that will be used prior to the commencement of work.

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

Did your municipality communicate with the County Agricultural Commissioner to: (a) get input and assistance on urban pest management practices and use of pesticides or (b) inform them of water quality issues related to pesticides,	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
---	--------------------------	-----	-------------------------------------	----

**If yes, summarize the communication. If no, explain.**  
 The majority of pesticide and herbicide application at District facilities is performed by contract using IPM methods. If the District becomes aware of a possible violation of pesticide regulations we notify the County Agricultural Commissioner. Within the District's service area, the agency performing the most work near waterways that may require use of pesticides or herbicides is the Greater Vallejo Recreation District (GVRD). GVRD communicates regularly with the County Agricultural Office regarding questions and sends staff to County sponsored trainings on proper use of pesticides and herbicides.

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

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

Permittee Name: Vallejo Sanitation & Flood Control District

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

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

Summary:

The Our Water, Our World (OWOW) campaign is a region-wide partnership of wastewater and stormwater agencies, coordinated through the Bay Area Stormwater Management Agencies Association (BASMAA) with additional funding from BAPPG, to reduce the impact of pesticides on waterways. The District has been an active participant in the campaign for many years, and a District employee serves as the ongoing OWOW project champion to BAPPG. She is Vice-Chair of the BASMAA Public Information, Participation & Outreach Committee and served on the work group that redesigned the new OWOW logo and updated all of the fact sheets. The District-sponsored Integrated Pest Management (IPM) Advocate visits the store at least once a month to refresh shelf talkers, replenish fact sheet racks, educate store employees on the program and provide invasive pest updates, and schedule trainings and tabling events. She interacts with customers in the aisle with questions they have about pest problems and guides them to less-toxic solutions whenever possible. Our IPM Advocate led a store training in May for 10 new employees and conducted tabling events in February and June. Staff were also provided information about mosquito abatement services provided by the County. A highlight was in June when County Supervisor Erin Hannigan stopped by the outreach table and was informed of the program and the District's involvement. It is interesting to note that Vallejo's Home Depot increased the OWOW-labeled products in their main aisle by 20%. Scott's Miracle Gro has a less-toxic product line called Nature's Care; that line had over 30% sales increase over last year in Northern California Home Depot stores.

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

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

Summary:

Pest Control Contracting outreach is part of the Our Water Our World Program (see above and BASMAA Training and Outreach report).

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

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

Summary:

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

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

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

Summary:

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

Section 10 - Provision C.10 Trash Load Reduction

<b>C.10.a.i ► Trash Load Reduction Summary</b>	
For Population-based Permittees, provide an estimate of the overall trash reduction percentage achieved to-date within the jurisdictional area of your municipality that generates problematic trash levels (i.e., Very High, High or Moderate trash generation). Base the estimate on the information presented in C.10.b i-iv and C.10.e.i-ii. Provide a discussion of the trash estimate below, including whether the applicable trash reduction performance guideline or deadline was attained. If not attained, include a discussion of next steps (e.g., development of a detailed plan or report of non-compliance).	
<b>Trash Load Reductions</b>	
Percent Trash Reduction in All Trash Management Areas (TMAs) due to <b>Trash Full Capture Systems</b> (as reported C.10.b.i)	34
Percent Trash Reduction in all TMAs due to <b>Control Measures Other than Trash Full Capture Systems</b> (as reported in C.10.b.ii)	0
Percent Trash Reduction due to <b>Jurisdictional-wide Source Control Actions</b> (as reported in C.10.b.iv)	10
<b>SubTotal for Above Actions</b>	<b>44</b>
<b>Trash Offsets (Optional)</b>	
Offset Associated with Additional Creek and Shoreline Cleanups (as reported in C.10.e.i)	0
Offset Associated with Direct Trash Discharges (as reported in C.10.e.ii)	0
<b>Total Estimated % Trash Load Reduction in FY 15-16</b>	<b>44</b>

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

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

**Discussion of Trash Load Reduction Estimate:**

The District has maintained 7 Kristar Nettech Trash Full Capture Devices in TMAs 1 & 6 providing a jurisdiction-wide trash reduction of 34%.

As indicated above the total estimated percent trash load reduction in FY 15-16 was 44. Although the District did not meet the performance guideline of 60 percent trash load reduction by 2016, we are confident that the compliance deadline of 70 percent trash load reduction by 2017 will be fully satisfied as this year’s calculations did not include estimates for several key load reduction components including, percent trash reduction in all TMAs due to control measures other than trash full capture systems, and offsets associated with additional creek and shoreline cleanups. While the District and the City of Vallejo have and continue to conduct trash removal to address these components, an estimate was not reported because there was not sufficient documentation to provide a defensible number. A detailed plan of the actions that will be taken to provide accurate information to support compliance with the permit deadline of 70 percent trash load reduction by July 1, 2017 is presented in Appendix A.

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

Provide the following:

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

Type of System	# of Systems	Areas Treated (Acres)
<b>Installed Prior to FY 15-16</b>		
Kristar Nettech full capture device	7	1670

Installed in FY 15-16		
None	0	0
Total for all Systems Installed To-date		1670
Treatment Acreage Required by Permit (Population-based Permittees)		168
Total # of Systems Required by Permit (Non-population-based Permittees)		

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

Provide the following:

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

TMA	Jurisdiction-wide Reduction (%)	Total # of Full Capture Systems	% of Systems Exhibiting Plugged/Blinded Screens or >50% full	Summary of Maintenance Issues and Corrective Actions
1	26	7	0	
2	0			
3	0			
4	0			
5	0			
6	8			
7	0			
8	0			
9	0			

Permittee Name: Vallejo Sanitation & Flood Control District

10	0			
<b>Total</b>	<b>34</b>			
<ul style="list-style-type: none"> <li> <b>Certification Statement:</b> VSFCD certifies that a full capture system maintenance and operation program is currently being implemented to maintain all applicable systems in a manner that meets the full capture system requirements included in the Permit.                 </li> </ul>				

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

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

TMA	Summary of Trash Control Actions Other than Full Capture Systems
1	None
2	None
3	None
4	None
5	None
6	None
7	None
8	None
9	None
10	None



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

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

Source Control Action	Summary Description & Dominant Trash Sources and Types Targeted	Evaluation/Enforcement Method(s)	Summary of Evaluation/Enforcement Results To-date	% Reduction	Total Reduction Credit (%)
Public Education and Outreach Programs Targeted at Trash Reduction and Implemented post-MRP Adoption	The District installed no littering signs and a dog waste disposal bag dispenser at a local waterfront area. The District has also installed trash bins and educational signage at a pedestrian path near White Slough on the North end of Vallejo. Unfortunately the educational signage has been subject to frequent graffiti and has been subsequently removed.	District is monitoring the amount of trash reduced in these areas.	Observations show a reduction in trash loads.	5	10

C.10.b.iv ► Trash Reduction – Source Controls					
Provide a description of each jurisdictional-wide trash source control action implemented to-date. For each control action, identify the trash reduction evaluation method(s) used to demonstrate on-going reductions, summarize the results of the evaluation(s), and provide the associated reduction of trash within your jurisdictional area. Also include the total % reduction credit for all source controls up to the maximum 10% allowed by MRP 2.0.					
COV on-land actions	<p>The City of Vallejo (Public Works Maintenance Division, Police Department, and Code Enforcement Division), Caltrans, Vallejo City Unified School District, Vallejo Sanitation and Flood Control District, Greater Vallejo Recreational District, California Maritime Academy, Six Flags Discovery Kingdom and the Vallejo Chamber of Commerce have partnered with members of the community to clean up, maintain, and landscape all highly visible entrances and major thoroughfares throughout the City of Vallejo. This interagency partnership collaborated on each phased activity to pick up trash, cut down overgrown vegetation, trim trees, remove graffiti, and perform other enhancement tasks to make the target entrances and thoroughfares attractive to citizens, businesses, and visitors. Caltrans and the Vallejo Public Works Maintenance Division primarily address significant blight on public rights-of-way and provide a thorough clean-up of these areas. Meanwhile, the City's Code Enforcement Division plays an important role by conducting educational and enforcement activity for weeds, graffiti, litter, junk, encampments, and other blight on the private properties that abut each phased entrance and thoroughfare area in order to reduce the litter and blight from reoccurring.</p>			5	

**C.10.c ► Trash Hot Spot Cleanups**

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

Trash Hot Spot	New Site in FY 15-16 (Y/N)	FY 15-16 Cleanup Date(s)	Volume of Trash Removed (cubic yards)				
			FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15	FY 2015-16
Central Rindler Creek	N	2/22/16	.29	.30	.50	4.50	1.00
South Rindler Creek	N	3/15/16	.39	.90	.50	1.99	1.00
Austin Creek@pump station	N	None	.20	1.00	.02	1.50	0
Blue Rock Springs Creek	N	None	.10	.29	2.50	.50	0
Coral Street Ditch	N	12/23/15, 12/30/15	.39	1.50	.20	.50	2.10
6 <sup>th</sup> Street Ditch (Lemon St)	N	7/28/15, 12/28/15	1.10	.30	.26	.29	.70
Austin Creek, 3287 Sonoma Blvd	Y	2/22/16	0	0	0	0	1.50

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

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

Description of Significant Revision	Associated TMA
None	NA

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

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

Offset Program	Summary Description of Actions and Assessment Results	Volume of Trash (CY) Removed/Controlled in FY 15-16	Offset (Jurisdiction-wide Reduction %)
Additional Creek and Shoreline Cleanups (Max 10% Offset)	None		
Direct Trash Discharge Controls (Max 15% Offset)	None		

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

TMA	2009 Baseline Trash Generation (Acres)					Trash Generation (Acres) in FY 15-16 After Accounting for Full Capture Systems					Jurisdiction-wide Reduction via Full Capture Systems (%)	Trash Generation (Acres) in FY 15-16 After Accounting for Full Capture Systems and Other Control Measures				
	L	M	H	VH	Total	L	M	H	VH	Total		L	M	H	VH	Total
1	1435.6	347.2	436.2	6.7	2225.7	1046.1	251.5	318.3	4.5	1620.4	26	1046.1	251.5	318.3	4.5	1620.4
2	66.2	109.3	75.0	188.3	438.8	66.2	109.3	75.0	188.3	438.8	0	66.2	109.3	75.0	188.3	438.8
3	626.9	1361.4	516.6	185.7	2690.6	626.9	1361.4	516.6	185.7	2690.6	0	626.9	1361.4	516.6	185.7	2690.6
4	652.3	555.5	257.6	23.8	1489.2	652.3	555.5	257.6	23.8	1489.2	0	652.3	555.5	257.6	23.8	1489.2
5	142.9	581.5	371.7	20.1	1116.2	142.9	581.5	371.7	20.1	1116.2	0	142.9	581.5	371.7	20.1	1116.2
6	74.4	338.9	45.7	37.2	496.2	7	33.7	4	3.4	48.1	8	7	33.7	4	3.4	48.1
7	114.7	144.0	215.4	5.4	479.5	114.7	144.0	215.4	5.4	479.5	0	114.7	144.0	215.4	5.4	479.5
8	81.9	819.7	2.7	8.1	912.4	81.9	819.7	2.7	8.1	912.4	0	81.9	819.7	2.7	8.1	912.4
9	1.7	54.6	15.2	0	71.5	1.7	54.6	15.2	0	71.5	0	1.7	54.6	15.2	0	71.5
10	7781.7	7.8	7.8	0	7797.3	7781.7	7.8	7.8	0	7797.3	0	7781.7	7.8	7.8	0	7797.3
Totals	10978.3	4319.9	1943.9	475.3	17717.4	10521	3919	1784.3	439.3	16664	34	10521	3919	1784.3	439.3	16664

Section 11 - Provision C.11 Mercury Controls

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

Summary:

A summary of regional accomplishments for these sub-provisions are included within BASMAA regional reports. Also, see attached Mercury and PCB Control Measures Watersheds & Management Areas Report.

Section 12 - Provision C.12 PCBs Controls

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

Summary:

A summary of regional accomplishments for these sub-provisions are included within BASMAA regional reports. Also, see attached Mercury and PCB Control Measures Watersheds & Management Areas Report.

Section 13 - Provision C.13 Copper Controls

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

<p><i>(For FY 15-16 Annual Report only)</i> Do you have adequate legal authority to prohibit the discharge of wastewater to storm drains generated from the installation, cleaning, treating, and washing of copper architectural features, including copper roofs?</p>	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
<p><i>(For FY 15-16 Annual Report only)</i> Provide a summary of how copper architectural features are addressed through the issuance of building permits.</p>				
<p>Summary:                  The City of Vallejo currently requires copper control BMPs to be identified in conjunction with the building permit review and approval process.</p>				
<p><i>(FY 15-16 Annual Report and each Annual Report thereafter)</i> Provide summaries of permitting and enforcement activities to manage waste generated from cleaning and treating of copper architectural features, including copper roofs, during construction and post-construction.</p>				
<p>Summary:                  The City building inspectors enforce BMP implementation during inspections of construction sites while the District enforces copper related requirements in conjunction with its Industrial Pretreatment Program. No enforcement actions related to copper controls were taken by the District during the report period. Both agencies possess adequate legal authority to enforce requirements.</p>				

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

<p><i>(For FY 15-16 Annual Report only)</i> Do you have adequate legal authority to prohibit the discharge to storm drains of water containing copper-based chemicals from pools, spas, and fountains?</p>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
<p><i>(For FY 15-16 Annual Report only)</i> Provide a summary of how copper-containing discharges from pools, spas, and fountains are addressed to accomplish the prohibition of the discharge.</p>		
<p>Summary: When an applicant apply for pool or spa building permit with the City, the City's Building Division will distribute the District's pool and spa brochure, which details BMPs for pool and spa discharges. If the District becomes aware of illicit pool/spa discharges the ERP will be followed; requirements may include discharge to the sanitary sewer system through a temporary discharge permit or diversion of discharge for use in landscaping or irrigation if conditions allow.</p>		
<p><i>(FY 15-16 Annual Report and each Annual Report thereafter)</i> Provide summaries of any enforcement activities related to copper-containing discharges from pools, spas, and fountains.</p>		
<p>Summary: No enforcement activities related to copper-containing discharges from pools, spas and fountains were taken during the report period.</p>		

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

<p>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.</p>
<p>Summary: As stated in section C.4.d.iii.(1)(a), the District conducted a total of 348 inspections at 333 businesses during the report period largely in conjunction with the District's Pretreatment Program. Business categories included vehicle maintenance facilities, food service facilities, Stormwater General Industrial Permittees and five Significant Industrial Users. Only one of these businesses, a boat yard with on-land maintenance, is considered a potential copper source. Inspectors are trained using BASMAA POC training materials to identify and eliminate potential sources of copper. Prohibited activities include commercial vehicle washing and boiler blowdown discharges to the storm drain system. No copper-related stormwater violations were found during the report period.</p>

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

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

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

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

Summary: The District promoted outreach for less toxic pest control and landscape management at the following events during the report period: Health & Safety Fair, VSFCDD 10/7/15; SF Bay Flyway Festival, 2/20-21/16; Earth Day Festival, 4/16/16. More detailed information on these events can be found in Section C.7 of this report. The District provides a growing space at the wastewater treatment plant for the California Native Plant Society which promotes use of native, drought-tolerant plants at various local events. See the City of Vallejo Annual Report for other implementation efforts.



## Vallejo Sanitation & Flood Control District

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+ Report a flood or sewer backup

+ I am a customer and I want to:

+ I want to submit a bid or proposal

+ I am building or remodeling

+ I have a business

+ I am seeking a job

+ Request a payoff demand

+ Report a storm drain violation

### I want to report a problem

#### Sewer Overflow

Call us first, at (707) 644-8949. If you have a sewer backup or overflow, let us inspect it before you call a plumber. If the problem is in the District's part of the line, we will take care of it. If you require a plumbing repair because the problem is in your sewer lateral, we may be able to offset the cost, if you apply for and are approved in advance through our [Upper Lateral Program](#).

#### Storm Drain Violation

Only rain should flow down the storm drain. If you see someone putting something else in a storm drain, please call us immediately at (707) 644-8949. To reach our stormwater program coordinator during regular business hours, call (707) 644-8949 ext. 260. For more information on our stormwater program and issues relating to stormwater pollution, click [here](#).

#### Billing Problems

Billings problems include lost or missing bill, property ownership has changed, or you have received notice of a lien, and more. Get help [here](#).

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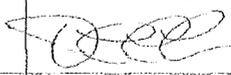
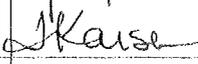
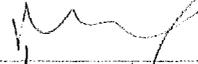
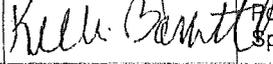
## VSFCD TRAINING SIGN-IN SHEET/SUMMARY (ENVIRONMENTAL SERVICES)

**Subject:** Incident Response Documentation

**Meeting Date:** May 5, 2016

**Facilitator:** Doug Scott

**Place/Room:** PCD office

Name	Signature	Title	Phone	Cell	E-Mail
Dan Tafolla		Environmental Services Director			
Jennifer Harrington		Environmental Specialist			
Jennifer Kaiser		Public Information Officer			
Nicole Van Aken		Laboratory Supervisor			
Kellie Barnett		Pollution Control Specialist			
Craig Moore		Pollution Control Specialist			

- Required Action #6, 3-22-16, NOV from RWQCB states: "The District shall train its staff to thoroughly and accurately complete the Illegal or Illicit Incident Response Report Form for each incident."
- District staff typically responds to IR reports within 24 hours of becoming aware of the event. If circumstances warrant, e.g. significant, imminent threat to the environment, an immediate response is expected if staff is available.
- Safety concerns take priority over stopping an illicit discharge.
- If inspector suspects that discharge may be a hazardous waste that poses a threat to public health and safety, Vallejo Fire Department should be called. (See IR Flow chart for contact information)
- Inspector should inspect District storm facilities downstream to determine extent of discharge.
- If specialized equipment (vac truck, pipe plug, TV cameras, etc.) is needed to contain or monitor discharge, call Field Operations.
- If liquid discharge can safely be removed with absorbent and a 5 gallon bucket, PCD staff will do so.
- If street sweeper is needed, call COV Public Works (See IR Flow chart)
- Ensure that the entire IR Form is accurately and completely filled out.
- Ensure that at a minimum the date, time and compliance status are recorded during each site visit, along with any other pertinent observations.
- Record enforcement actions taken, e.g. verbal education/warning, NOV, Compliance Schedule, Administrative Complaint, Administrative Order.
- After abatement of discharge, carry out all needed follow up action as individual circumstances warrant.
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## POTENTIAL FACILITIES LIST

Business Name	NO#	Street(Phys Location)
37 Auto Repair	1645	Lewis Brown Drive
1 For All Smog	320	Nebraska Street
7 Flags Car Wash	2020	Springs Road
7 Flags Car Wash	135	Valle Vista Avenue
7-UP Bottling Company	425	Chestnut Street
A-1 Collision	970	Broadway
A1 Smog	2707	Sonoma Blvd.
Admiral Callaghan Shell Station	708	Admiral Callaghan Lane
Advanced Smog	3215	Sonoma Blvd.
Alfeta Motors	1329	Virginia Street
All American Car Wash & Auto Detail	1	Admiral Callaghan Lane
AM/PM	333	Curtola Parkway
Auto Restoration	1384	Lemon Street
Autoelektrik Repair & Body Shop	1378	Lemon Street
Autofix	4345	Sonoma Blvd.
Automatic Transmission Plus	1511	Sonoma Blvd.
Autosport	600	Broadway
Autozone	730	Admiral Callaghan Lane
Avery Greene Motors	800	Admiral Callaghan Lane
Avis Rent-A-Car	3752	Sonoma Blvd.
AZN Motorsport	600	Lincoln Road East
B & G Tires	301	Couch Street
Balbin Auto Sales	1515	Sonoma Blvd.
Balbin Auto Sales and Smog Shop	1201	Tennessee Street
Bay Automotive Collision Repairs	515	Tennessee Street
Bayshore Materials, Inc.	512	Solano Avenue
Benicia & Starr Smog Shop	400	Benicia Road
Bert Motor Works	1601	Springs Road
Bert Williams and Sons	3032	Sonoma Blvd.
Big O Tire Stores	3200	Sonoma Blvd.
Bill Pendergast's Auto Center	850	Broadway
Blue Rock Springs Golf Course	660	Columbus Parkway
Bob's Mobil Repair	1081	Sonoma Blvd.
Bob's Tow Service	289	5th Street
Bob's Towing Service	1112	Beach Street
Broadway Auto Body & Frame Shop	610	Broadway
Brooks Automotive	2601	Springs Road
Budget Car Rental	1861	Solano Avenue
Cal State Olympic	2707	Sonoma Blvd.

California Highway Patrol	1551	Benicia Road
California Maritime Academy	200	Maritime Academy Drive
California National Guard	200	Bennett Avenue
California's Body Shop	187	Mahogany Drive
CALTRANS, Vallejo Maint Station	1700	Lewis Brown Drive
Car N Bike Moto	1903	Broadway
Cemmco	1630	Lewis Brown Drive
Central Auto Repair	2224	Sonoma Blvd.
Chico's Auto Repair	322	Lemon Street
Chuy's Auto Body Shop	407	Lemon Street
Cook's Radiator Service	1984	Broadway
Copart Insurance Pool	282	Fifth Street
Customized Services	2206	Springs Road
D & A Minor Repair	112	Couch Street
D & F Auto Body	426	Mississippi Street
Dong's Muffler Shop	1513	Sonoma Blvd.
E Auto Body	189	Couch Street
Eagle Tire & Auto Mechanic	700	Broadway
Enterprise Rent-A-Car	1601	Lewis Brown Drive
Express Tire Service	300	Benicia Road
Fairgrounds Chevron	10	Sage Street
Fairgrounds Union 76 Service Station	223	Fairgrounds Drive
Finishing Technology	1281	Waterfront Avenue
FM Machines	1018	Alabama Street
Foreign Car Center	3021	Sonoma Blvd.
Fred & Son's Automobile Repair	1975	Broadway
G & M Foreign Car Repair	1921	Sonoma Blvd.
G.V.R.D.	395	Amador Street
Gene's Auto Repair	37	Tennessee Street
George Beavis Machine Shop	405	Sutter Street
Gibb's Tow Service	1832	Broadway
Glen Cove Marina	2000	Glen Cove Road
Golden Piston Auto Center	208	Commercial Street
Grand Prix Motors	1416	Sonoma Blvd.
Harry's H.D. Cycle Repair	420	Marin Street
Henry's Transmission & Auto Repair	2040	Broadway
Hertz Car Rental	3271	Sonoma Blvd.
Hiddenbrooke Golf Club	1095	Hiddenbrooke Parkway
Ideal Body Shop	503	Maine Street
Impact Automotive	1717	Broadway
J & J Auto Body Shop	533	Carolina Street

J & J Motors	1920	Broadway
J & N Auto Body	1933	Broadway
J N Autobahn Car Repair	1719	Broadway
Jiffy Lube	4300	Sonoma Blvd.
Joe's Automotive	36	California Street
Joe's Motors	1500	Solano Avenue
Kay's Auto Sales	540	Tennessee Street
Klimisch's. Inc.	285	Couch Street
Lam's Auto Repair	300	Tennessee Street
Lao-Mien Automotive LLC	33	Tennessee Street
Legacy Motors	1212	Springs Road
Leon Auto Repair	2030	Sacramento Street
M Collision	850	Redwood Street
M F Maher - Corp Yard	490	Ryder Street
Mach 1 Motor Sports	510	Couch Street
Manila Auto Sales	29	California Street
Manuel's Auto Body & Paint	11	Cypress Avenue
Marine World Shell & Car Wash	1604	Lewis Brown Drive
Mathews & Sons	37	Sheridan Street
Melsons Auto Service	2040	Ohio Street
Mendoza Motors	1260	Georgia Street
Milt's Service Garage	515	Tuolumne Street
Momentum Chrysler/Dodge/Jeep/Ram	1001	Admiral Callaghan Lane
Momentum Kia/Suzuki	4345	Sonoma Blvd.
Monarch Auto Detail	2030	Sonoma Blvd.
Morri's Union 76	1300	Sonoma Blvd.
Napa Auto Parts	2999	Sonoma Blvd.
National Auto & Truck Dismantlers	38	California Street
Nawabi's Tire & Auto Service	1412	Sonoma Blvd.
Nino Motors	3268	Sonoma Blvd.
OCM Auto Repair	3291	Sonoma Blvd.
Oil Changers	794	Admiral Callaghan Lane
Olympic Auto Repair & Muffler	225	Broadway
O'Reilly Auto Parts	3580	Sonoma Blvd.
O'Reilly Auto Parts	1844	Springs Road
Pacific Bell	730	Carolina Street
Pacific Gas & Electric	303	Carlson Street
Pene's	1719	Broadway
Pep Boys	128	Plaza Drive
Performance Motors	433	Maine Street
Platinum Quality Motors	145	Valle Vista Avenue

Powersports of Vallejo	111	Tennessee Street
Preventative Maint. Service	1701	Springs Road
Pro Auto Care	1799	Solano Avenue
R & R Automobile	610	Tennessee Street
R & R Maher Const Inc. Corp. Yard	1324	Lemon Street
R & R Tire & Brake	1	Alameda Street
Regal Collision Repair	529	Tuolumne Street
Rose Import Motors	1605	Solano Avenue
Rose Imports	3273	Sonoma Blvd.
Save More Tires	948	Georgia Street
Select Auto Repair	850	Redwood Street Suite F
Solano Auto Painters	327	Maine Street
Solano Collision	3267	Sonoma Blvd.
Solano Community College (Vehicle)	545	Columbus Parkway
Solano County Fairgrounds	900	Fairgrounds Drive
Sonoma Collision	3330	Sonoma Blvd.
Sonoma Auto Electric	1518	Sonoma Blvd.
Speedee Lube	1675	Tuolumne Street
Stage Coach Auto Wholesale	710	Tuolumne Street
Star Tech European	320	Couch Street
Superior Automotive	1903	Broadway
Team Chevy\Buick\Hyundai	301	Auto Mall Pkwy
Tommy's Auto Repair	1605	Solano Avenue
Tony's Furniture Refinishing	345	Tennessee Street
Toscalito Tire & Automotive	3301	Sonoma Blvd.
Total Image	1329	Virginia Street
Toyota Vallejo	201	Auto Mall Pkwy
Transmission Discount Center	825	Redwood Street
Triton Truck Repair	757	Bldg. 757 MI
Tucker Tire Sales	1507	Sonoma Blvd.
Tuolumne Auto Repair	625	Tuolumne Street
U-Haul	2050	Solano Avenue
Uncle Born Auto Repair	3430	Sonoma Blvd.
Unlimited Collision Repair	3430	Sonoma Blvd.
US Army Reserves 63rd RSC	120	Mini Drive
US Coast Guard	1	Harbor Way
V & G Body Shop	210	Commercial Street
Vallejo Broadway Auto Repair	850	Broadway
Vallejo Car Care Center	320	Mississippi Street
Vallejo City Taxi	289	Fifth Street
Vallejo Ferry Service, Berth 4, MI	555	Santa Clara Street

Vallejo German Car Clinic	614	Tuolumne Street
Vallejo Municipal Marina	42	Harbor Way
Vallejo Nissan	3287	Sonoma Blvd.
Vallejo Salvage Company	437	Pennsylvania Street
Vallejo Unified School District	211	Valle Vista Avenue
Vallejo, City of, Maintenance yard	111	Amador Street
Vallejo, City of, Maintenance yard, MI	535	Bldg. 535, MI
Valrey Auto Repair	440	Arkansas Street
VIP Bus Leasing	140	Yolano Drive
West Coast Auto Repair	1696	Broadway
Wiler's Towing Inc.	1340	Lemon Street
Zees Quality Motors	1101	Tennessee Street
3 J's Oriental Market	5201	Sonoma Blvd.
3 Sistas	324	Mini Drive
777 Bingo	777	Sereno Drive
Alex's Fine Catering Company	300	Virginia Street
Andrea Foods	1109	Maple Street
Annie's Panda Garden	320	Fairgrounds Drive
Ano Lao Thai Cuisine	907	Tennessee Street
Applebee's	1041	Admiral Callaghan Lane
Arby's Restaurant (closed)	3201	Sonoma Blvd.
B & W Café	2632	Sonoma Blvd.
Baskin Robbins	1658	Tennessee Street
Baskin Robbins	5182	Sonoma Blvd.
Big Italian Pizza	3335	Sonoma Blvd.
Black Angus	124	Plaza Drive
Black Bear Diner	980	Admiral Callaghan Lane
Bud's Burger	3849	Sonoma Blvd.
Burger King	1	Mariposa Street
Burger King	3606	Sonoma Blvd.
Buttercup Grill & Bar	3288	Sonoma Blvd.
Café Rock	655	Columbus Parkway
California Maritime Academy	200	Maritime Academy Drive
Carl's Jr. Restaurant	3897	Sonoma Blvd.
Carl's Jr. Restaurant	10	Sage Street
Century Theatres	109	Plaza Drive
Cha-Am Thai Restaurant	153	Plaza Drive
Characters Saloon	315	Tennessee Street
Chely's Restaurant	1030	Tennessee Street
Chevy's Fresh Mex	157	Plaza Drive
Chicken Express	1075	Redwood Street

Chick-fil-A	1191	Admiral Callaghan Lane
China Barn	320	Tuolumne Street
China Café	414	Georgia Street
China House	818	Tennessee Street
China Wok	512	Sacramento Street
Chris Club	656	Benicia Road
Christian Help Center	2166	Sacramento Street
Church's Fried Chicken	1920	Solano Avenue
City Lights Cafe & Catering	1515	Tennessee Street
Coconut Grove	905	Lincoln Road, East
Combo Express	42	Springstowne Center
Costco Wholesale and Gas Station	198	Plaza Drive
Courtyard Marriott	1000	Fairgrounds Drive
Dairy Queen Freeze	2120	Springs Road
Danny's Kitchen	38	Admiral Callaghan Lane
Denny's Restaurant	250	Fairgrounds Drive
Denny's Restaurant	4355	Sonoma Blvd.
Dillon Bread Company	451	Ryder Street
DJ	3495	Sonoma Blvd.
Domino's Pizza	2820	Sonoma Blvd.
Domino's Pizza	1833	Springs Road
Dough Boy Donuts	1601	Lewis Brown Drive
Earl's BBQ	658	Benicia Road
El Emperador Restaurant	541	Benicia Road
El Nopal	406	Virginia Street
Empire Buffet	3585	Sonoma Blvd.
Farragut Inn	1750	Club Drive
Filipino Community Center	611	Amador Street
Filipino Community Center (old)	820	Sonoma Blvd.
Florence Douglas Senior Center	333	Amador Street
Food 4 Less	5184	Sonoma Blvd.
Food Basket	1694	Broadway
Fresh & Natural Café	975	Sereno Drive
Front Room	295	Mare Island Way
Ghiringelli Specialty Foods	101	Benicia Road
Giant New York Pizza	2564	Springs Road
Golden City Buffet	5201	Sonoma Blvd.
Goldilocks Bake Shop	3885	Sonoma Blvd.
Gonzalez' Mexican Restaurant	2164	Springs Road
Good Day Café	314	Georgia Street
Gracie's Family Bar B Que	1801	Sonoma Blvd.

Grocery Outlet	66	Admiral Callaghan Lane
Guanajuato Market	18	Laurel Street
Guanajuato Grill, Deli, Bakery	1652	Fairgrounds Drive
Habit Burger	118	Plaza Drive
Hacienda De Valle	1400	Tennessee Street
Hiddenbrooke Club House	1095	Hiddenbrooke Parkway
Hop Hings	3748	Sonoma Blvd.
House of Soul	1526	Solano Avenue
Hummingbird Bakery & Desserts	2037	Springs Road
Ihaw Ihaw	40	Springstowne Center
India Garden Restaurant & Banquet	910	Lincoln Road, East
International House of Pancakes	114	Plaza Drive
Island Pacific Supermarket	24	Springstowne Center
JJ's Fish & Chicken	515	Fairgrounds Drive
J & M Mississippi Barbeque	2909	Sonoma Blvd.
J'S Garden Restaurant	134	Robles Way
Jack In The Box	400	Broadway
Jack In The Box	1610	Lewis Brown Drive
Jack In The Box	35	Admiral Callaghan Lane
Jalos Restaurant	5201	Sonoma Blvd.
Java Jax	1700	Sonoma Blvd.
Joana Restaurant	320	Mini Drive
Jollibee	3495	Sonoma Blvd.
Joy of Eating	1828	Springs Road
Kaigan Sushi	2138	Springs Road
Keepin' It Island	3730	Sonoma Blvd.
Kentucky Fried Chicken	1300	Georgia Street
Kentucky Fried Chicken	2150	Redwood Street
King Alberts BBQ	26	Tennessee Street
King's Meat & Fish	1624	Fairgrounds Drive
Kwongnan Restaurant	405	York Street
L & L Hawaiian Barbecue	165	Plaza Drive
La Costa Del Sol Taqueria	480	Redwood Street
Las Palmitas #2	301	Nebraska Street
Lee's Garden Restaurant	3335	Sonoma Blvd.
Los Arquitos	630	Broadway
Liled's Candy Kitchen	1318	Tennessee Street
Little Caesar's Pizza	2813	Redwood Parkway
Little Maya Bakery	985	Broadway
Long John Silver's	1015	Redwood Street
Los Amigos Taqueria	5184	Sonoma Blvd.

Los Gallitos Taqueria	480	Redwood Street
Los Primos Restaurant	249	Benicia Road
Louisiana Fish & Chips	601	Tennessee Street
Lucky Garden	860	Tuolumne Street
Lucky Supermarket	1740	Tuolumne Street
Luigi's Pizzeria (closed)	310	Mini Drive
Maggie's Hamburgers	700	Benicia Road
Mama Ruth's Place (closed)	1601	Lewis Brown Drive
Manila Sunrise	2110	Springs Road
Mare Island - Golf Course	1800	Club Drive
Mare Island Taproom	289	Mare Island Way
Margaritas Mexican Restaurant	901	Redwood Street
Mariscos Autlan	1900	Broadway
Market Town Deli	1653	Tennessee Street
Matsuri Sushi	480	Redwood Street
Max's of Manila	3555	Sonoma Blvd.
McDonald's Restaurant	3289	Sonoma Blvd.
McDonald's Restaurant	2565	Springs Road
McDonald's Restaurant	902	Admiral Callaghan Lane
McDonald's Restaurant	170	Lincoln Road, East
McDonald's Restaurant	5200	Sonoma Blvd.
McDonald's Restaurant	416	Lincoln Road, East
Merrill Gardens	2261	Tuolumne Street
Mi Jacalito	105	Couch Street
Mi Pueblo Food Center	2107	Solano Avenue
Mi Ranchito Market & Taqueria	2710	Sonoma Blvd.
Michael Warring	8300	Bennington Drive
Michael's Southern Delights (closed)	1601	Lewis Brown Drive
Midori Japanese Cuisine	3440	Sonoma Blvd.
Momo's American Cuisine	402	Georgia Street
Montana Eddie's	301	Georgia Street
Moose Lodge	337	Nebraska Street
Mountain Mike's Pizza	972	Admiral Callaghan Lane
My Café	415	Santa Clara Street
My Homestyle Café	523	Marin Street
Napoli Pizzeria	124	Tennessee Street
Nations Giant Burger	2525	Sonoma Blvd.
Nezumi Sushi	524	Tuolumne Street
Nujo's Italian Restaurant & Pizza	1201	Georgia Street
Olive Garden	1176	Plaza Drive
Oriental Store of Vallejo	1800	Springs Road

Original Red Onion, The	1321	Springs Road
Original Scotty's Restaurant	1645	Tennessee Street
Pacifica Pizza	1332	Lincoln Road, East
Paleteria Y Pasteleria	504	Broadway
Panda Express	972	Admiral Callaghan Lane
Panguena Pam (closed)	1601	Lewis Brown Drive
Pasta Pomodoro	163	Plaza Drive
Peking Express	1774	Tuolumne Street
Pho 1 Noodle House	3624	Sonoma Blvd.
Pho Hoa Phat II	3495	Sonoma Blvd.
Pho Lee Hoa Phat 3	102	Springstowne Center
Phil House	24A	Springstowne Center
Pink Dawn Chinese Restaurant (closed)	1601	Lewis Brown Drive
Pizza Guys	2255	Tennessee Street
Pizza Hut	2305	Springs Road
Pizza Hut	905	Broadway
Popeye's Chicken	1601	Lewis Brown Drive
Princess Garden	960	Admiral Callaghan Lane
Pupuseria Y Taqueria Mercy	333	Tennessee Street
Quiero Mas!	1400	Tennessee Street
Rafael's Bar & Grill	301	Nebraska Street
Rafael's Catering	616	Nebraska Street
Raley's Food Store	4300	Sonoma Blvd.
Red Lobster	1180	Admiral Callaghan Lane
Red Ribbon Bakeshop	3595	Sonoma Blvd.
Rickshaw Express	4300	Sonoma Blvd.
Round Table Pizza	2633	Springs Road
Round Table Pizza	4300	Sonoma Blvd.
Royal Jelly Donuts	762	Admiral Callaghan Lane
Royal Jelly Doughnut	2180	Springs Road
Royal Jelly Doughnuts	1794	Tuolumne Street
Rubio's Baja Grill	173	Plaza Drive
Safeway Stores	774	Admiral Callaghan Lane
Safeway Stores	709	Lincoln Road, West
Safeway Stores	122	Robles Way
Saint Basil's School	1230	Nebraska Street
Sardine Can	0	Harbor Way
Seafood City	3495	Sonoma Blvd.
Selecta Market & Restaurant	58	Springstowne Center
Sonoma Meat Market	2723	Sonoma Blvd.
Speedy Foods	5184	Sonoma Blvd.

Springs Road Health Care	1527	Springs Road
Stara Indian Cuisine	742	Admiral Callaghan Lane
Stefano's	2272	Sacramento Street
Subway Sandwiches	968	Admiral Callaghan Lane
Subway Sandwiches	1601	Lewis Brown Drive
Subway Sandwiches	199	Lincoln Road West
Subway Sandwiches	170	Robles Way
Subway Sandwiches	2045	Springs Road
Subway Sandwiches	1780	Tuolumne Street
Sunset Pizza	623	Tennessee Street
Sunshine Bakery	3570	Sonoma Blvd.
Sutter Solano Medical Ctr	300	Hospital Drive
Sweet House Café	1339	Springs Road
Szechuan Chinese Cuisine	2079	Solano Avenue
Taco Bell	3600	Sonoma Blvd.
Taco Bell	2033	Solano Avenue
Taco Bell	974	Admiral Callaghan Lane
Taco's Jalisco	3420	Sonoma Blvd.
Tapioca Express	3720	Sonoma Blvd.
Taqueria Los Amigos	5184	Sonoma Blvd.
The Deli at Georgia St. Plaza	301	Georgia Street
The Dungeness Crab (closed)	1530	Sonoma Blvd.
The Galley Café (closed)	2012	Glen Cove Road
The Grind	402	Tuolumne Street
The Lighthouse	2000	Glen Cove Marina Road
Togo's Eatery	3455	Sonoma Blvd.
Tortilleria Pinto	1717	Sonoma Blvd.
Trans Seafood	651	Broadway
Uncle Sam's American Chinese Food	785	Sereno Drive
Valerio's Tropical Bakeshop	3495	Sonoma Blvd.
Vallejo Great Donuts	630	Tennessee Street
Vallejo Jelly Doughnut	2300	Sonoma Blvd.
Vallejo Yacht Club	485	Mare Island Way
Vargas Market	5201	Sonoma Blvd.
Vashnu Express Café	4380	Sonoma Blvd.
Vero's	2907	Sonoma Blvd.
Vik's Wheel House	295	Mare Island Way
Walmart Neighborhood Market	701	Sereno Drive
Wendy's	1001	Redwood Street
Wing Stop	972	Admiral Callaghan Lane
Yo Sushi	100	Robles Way

Zio Fredo's	23	Harbor Way
Vallejo Garbage Service	2021	Broadway
Syar Industries, Lake Herman Quarry		Lake Herman Road
Vallejo Building Materials,	909	Sonoma Blvd.
Alco Iron & Metal	321	Azuar Drive
Vallejo Boat Works	1	Harbor Way
Tomra Recycling	1973	Broadway St.
Valcore Recycling Center	38	Sheridan St.
Cordeiro Vault Company	495	Ryder St.
Cordeiro Vault Company	281	Fifth St.
Vallejo Transit Authority	1850	Broadway
Kiewit	96	Solano Avenue
Norcal Building Materials	945	Maine St.
Jeffco	1260	Railroad Avenue
Michael's Transportation	140	Yolano Dr.
Yellow Cab Company	95	Alameda St.

#### SCHEDULED INSPECTIONS JULY 2016 – JUNE 2017

California's Body Shop	187	Mahogany Drive
CALTRANS, Vallejo Maint Station	1700	Lewis Brown Drive
Car N Bike Moto	1903	Broadway
Cemmco	1630	Lewis Brown Drive
Central Auto Repair	2224	Sonoma Blvd.
Chico's Auto Repair	322	Lemon Street
Chuy's Auto Body Shop	407	Lemon Street
Cook's Radiator Service	1984	Broadway
Copart Insurance Pool	282	Fifth Street
Customized Services	2206	Springs Road
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Fairgrounds Chevron	10	Sage Street
Fairgrounds Union 76 Service Station	223	Fairgrounds Drive
Finishing Technology	1281	Waterfront Avenue
FM Machines	1018	Alabama Street

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Fred & Son's Automobile Repair	1975	Broadway
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Kay's Auto Sales	540	Tennessee Street
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Mach 1 Motor Sports	510	Couch Street
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Melsons Auto Service	2040	Ohio Street
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Momentum Kia/Suzuki	4345	Sonoma Blvd.

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Pep Boys	128	Plaza Drive
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Platinum Quality Motors	145	Valle Vista Avenue
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R & R Tire & Brake	1	Alameda Street
Regal Collision Repair	529	Tuolumne Street
3 J's Oriental Market	5201	Sonoma Blvd.
3 Sistas	324	Mini Drive
777 Bingo	777	Sereno Drive
Alex's Fine Catering Company	300	Virginia Street
Andrea Foods	1109	Maple Street
Annie's Panda Garden	320	Fairgrounds Drive
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Arby's Restaurant (closed)	3201	Sonoma Blvd.
B & W Café	2632	Sonoma Blvd.
Baskin Robbins	1658	Tennessee Street
Baskin Robbins	5182	Sonoma Blvd.
Big Italian Pizza	3335	Sonoma Blvd.
Black Angus	124	Plaza Drive
Black Bear Diner	980	Admiral Callaghan Lane
Bud's Burger	3849	Sonoma Blvd.
Burger King	1	Mariposa Street

Burger King	3606	Sonoma Blvd.
Buttercup Grill & Bar	3288	Sonoma Blvd.
Café Rock	655	Columbus Parkway
California Maritime Academy	200	Maritime Academy Drive
Carl's Jr. Restaurant	3897	Sonoma Blvd.
Carl's Jr. Restaurant	10	Sage Street
Century Theatres	109	Plaza Drive
Cha-Am Thai Restaurant	153	Plaza Drive
Characters Saloon	315	Tennessee Street
Chely's Restaurant	1030	Tennessee Street
Chevy's Fresh Mex	157	Plaza Drive
Chicken Express	1075	Redwood Street
Chick-fil-A	1191	Admiral Callaghan Lane
China Barn	320	Tuolumne Street
China Café	414	Georgia Street
China House	818	Tennessee Street
China Wok	512	Sacramento Street
Chris Club	656	Benicia Road
Christian Help Center	2166	Sacramento Street
Church's Fried Chicken	1920	Solano Avenue
City Lights Cafe & Catering	1515	Tennessee Street
Coconut Grove	905	Lincoln Road, East
Combo Express	42	Springstowne Center
Costco Wholesale and Gas Station	198	Plaza Drive
Courtyard Marriott	1000	Fairgrounds Drive
Dairy Queen Freeze	2120	Springs Road
Danny's Kitchen	38	Admiral Callaghan Lane
Denny's Restaurant	250	Fairgrounds Drive
Denny's Restaurant	4355	Sonoma Blvd.
Dillon Bread Company	451	Ryder Street
DJ	3495	Sonoma Blvd.
Domino's Pizza	2820	Sonoma Blvd.
Domino's Pizza	1833	Springs Road
Dough Boy Donuts	1601	Lewis Brown Drive
Earl's BBQ	658	Benicia Road
El Emperador Restaurant	541	Benicia Road
El Nopal	406	Virginia Street
Empire Buffet	3585	Sonoma Blvd.
Farragut Inn	1750	Club Drive
Filipino Community Center	611	Amador Street
Filipino Community Center (old)	820	Sonoma Blvd.

Florence Douglas Senior Center	333	Amador Street
Food 4 Less	5184	Sonoma Blvd.
Food Basket	1694	Broadway
Fresh & Natural Café	975	Sereno Drive
Front Room	295	Mare Island Way
Ghiringelli Specialty Foods	101	Benicia Road
Giant New York Pizza	2564	Springs Road
Golden City Buffet	5201	Sonoma Blvd.
Goldilocks Bake Shop	3885	Sonoma Blvd.
Gonzalez' Mexican Restaurant	2164	Springs Road
Good Day Café	314	Georgia Street
Gracie's Family Bar B Que	1801	Sonoma Blvd.
Grocery Outlet	66	Admiral Callaghan Lane
Guanajuatito Market	18	Laurel Street
Guanajuato Grill, Deli, Bakery	1652	Fairgrounds Drive
Habit Burger	118	Plaza Drive
Hacienda De Valle	1400	Tennessee Street
Hiddenbrooke Club House	1095	Hiddenbrooke Parkway
Hop Hings	3748	Sonoma Blvd.
House of Soul	1526	Solano Avenue
Hummingbird Bakery & Desserts	2037	Springs Road
Ihaw Ihaw	40	Springstowne Center
India Garden Restaurant & Banquet	910	Lincoln Road, East
International House of Pancakes	114	Plaza Drive
Island Pacific Supermarket	24	Springstowne Center
JJ's Fish & Chicken	515	Fairgrounds Drive
J & M Mississippi Barbeque	2909	Sonoma Blvd.
J'S Garden Restaurant	134	Robles Way
Jack In The Box	400	Broadway
Jack In The Box	1610	Lewis Brown Drive
Jack In The Box	35	Admiral Callaghan Lane
Jalos Restaurant	5201	Sonoma Blvd.
Java Jax	1700	Sonoma Blvd.
Joana Restaurant	320	Mini Drive
Jollibee	3495	Sonoma Blvd.
Joy of Eating	1828	Springs Road
Kaigan Sushi	2138	Springs Road
Keepin' It Island	3730	Sonoma Blvd.
Kentucky Fried Chicken	1300	Georgia Street
Kentucky Fried Chicken	2150	Redwood Street
King Alberts BBQ	26	Tennessee Street

King's Meat & Fish	1624	Fairgrounds Drive
Kwongnan Restaurant	405	York Street
L & L Hawaiian Barbecue	165	Plaza Drive
La Costa Del Sol Taqueria	480	Redwood Street
Las Palmitas #2	301	Nebraska Street
Lee's Garden Restaurant	3335	Sonoma Blvd.
Los Arquitos	630	Broadway
Liled's Candy Kitchen	1318	Tennessee Street
Little Caesar's Pizza	2813	Redwood Parkway
Little Maya Bakery	985	Broadway
Long John Silver's	1015	Redwood Street
Los Amigos Taqueria	5184	Sonoma Blvd.
Los Gallitos Taqueria	480	Redwood Street
Los Primos Restaurant	249	Benicia Road
Louisiana Fish & Chips	601	Tennessee Street
Lucky Garden	860	Tuolumne Street
Lucky Supermarket	1740	Tuolumne Street
Luigi's Pizzeria (closed)	310	Mini Drive
Maggie's Hamburgers	700	Benicia Road
Mama Ruth's Place (closed)	1601	Lewis Brown Drive
Manila Sunrise	2110	Springs Road
Mare Island - Golf Course	1800	Club Drive
Mare Island Taproom	289	Mare Island Way
Margaritas Mexican Restaurant	901	Redwood Street
Mariscos Autlan	1900	Broadway
Market Town Deli	1653	Tennessee Street
Matsuri Sushi	480	Redwood Street
Max's of Manila	3555	Sonoma Blvd.
McDonald's Restaurant	3289	Sonoma Blvd.
McDonald's Restaurant	2565	Springs Road
McDonald's Restaurant	902	Admiral Callaghan Lane
McDonald's Restaurant	170	Lincoln Road, East
McDonald's Restaurant	5200	Sonoma Blvd.
McDonald's Restaurant	416	Lincoln Road, East
Merrill Gardens	2261	Tuolumne Street
Mi Jacalito	105	Couch Street
Mi Pueblo Food Center	2107	Solano Avenue
Mi Ranchito Market & Taqueria	2710	Sonoma Blvd.
Michael Warring	8300	Bennington Drive
Michael's Southern Delights (closed)	1601	Lewis Brown Drive
Midori Japanese Cuisine	3440	Sonoma Blvd.

Momo's American Cuisine	402	Georgia Street
Montana Eddie's	301	Georgia Street
Moose Lodge	337	Nebraska Street
Mountain Mike's Pizza	972	Admiral Callaghan Lane
My Café	415	Santa Clara Street
My Homestyle Café	523	Marin Street
Napoli Pizzeria	124	Tennessee Street
Nations Giant Burger	2525	Sonoma Blvd.
Nezumi Sushi	524	Tuolumne Street
Nujo's Italian Restaurant & Pizza	1201	Georgia Street
Olive Garden	1176	Plaza Drive
Oriental Store of Vallejo	1800	Springs Road
Original Red Onion, The	1321	Springs Road
Original Scotty's Restaurant	1645	Tennessee Street
Pacifica Pizza	1332	Lincoln Road, East
Paeteria Y Pasteleria	504	Broadway
Panda Express	972	Admiral Callaghan Lane
Panguena Pam (closed)	1601	Lewis Brown Drive
Pasta Pomodoro	163	Plaza Drive
Peking Express	1774	Tuolumne Street
Pho 1 Noodle House	3624	Sonoma Blvd.
Pho Hoa Phat II	3495	Sonoma Blvd.
Pho Lee Hoa Phat 3	102	Springstowne Center
Phil House	24A	Springstowne Center
Pink Dawn Chinese Restaurant (closed)	1601	Lewis Brown Drive
Pizza Guys	2255	Tennessee Street
Pizza Hut	2305	Springs Road
Pizza Hut	905	Broadway
Popeye's Chicken	1601	Lewis Brown Drive
Princess Garden	960	Admiral Callaghan Lane
Pupuseria Y Taqueria Mercy	333	Tennessee Street
Quiero Mas!	1400	Tennessee Street
Rafael's Bar & Grill	301	Nebraska Street
Rafael's Catering	616	Nebraska Street
Raley's Food Store	4300	Sonoma Blvd.
Red Lobster	1180	Admiral Callaghan Lane
Red Ribbon Bakeshop	3595	Sonoma Blvd.
Rickshaw Express	4300	Sonoma Blvd.
Round Table Pizza	2633	Springs Road
Round Table Pizza	4300	Sonoma Blvd.
Royal Jelly Donuts	762	Admiral Callaghan Lane

Royal Jelly Doughnut	2180	Springs Road
Royal Jelly Doughnuts	1794	Tuolumne Street
Rubio's Baja Grill	173	Plaza Drive
Safeway Stores	774	Admiral Callaghan Lane
Safeway Stores	709	Lincoln Road, West
Safeway Stores	122	Robles Way
Saint Basil's School	1230	Nebraska Street
Sardine Can	0	Harbor Way
Seafood City	3495	Sonoma Blvd.
Selecta Market & Restaurant	58	Springstowne Center
Sonoma Meat Market	2723	Sonoma Blvd.
Speedy Foods	5184	Sonoma Blvd.
Springs Road Health Care	1527	Springs Road
Stara Indian Cuisine	742	Admiral Callaghan Lane
Stefano's	2272	Sacramento Street
Subway Sandwiches	968	Admiral Callaghan Lane
Subway Sandwiches	1601	Lewis Brown Drive
Subway Sandwiches	199	Lincoln Road West
Subway Sandwiches	170	Robles Way
Subway Sandwiches	2045	Springs Road
Subway Sandwiches	1780	Tuolumne Street
Sunset Pizza	623	Tennessee Street
Sunshine Bakery	3570	Sonoma Blvd.
Sutter Solano Medical Ctr	300	Hospital Drive
Sweet House Café	1339	Springs Road
Szechuan Chinese Cuisine	2079	Solano Avenue
Taco Bell	3600	Sonoma Blvd.
Taco Bell	2033	Solano Avenue
Taco Bell	974	Admiral Callaghan Lane
Taco's Jalisco	3420	Sonoma Blvd.
Tapioca Express	3720	Sonoma Blvd.
Taqueria Los Amigos	5184	Sonoma Blvd.
The Deli at Georgia St. Plaza	301	Georgia Street
The Dungeness Crab (closed)	1530	Sonoma Blvd.
The Galley Café (closed)	2012	Glen Cove Road
The Grind	402	Tuolumne Street
The Lighthouse	2000	Glen Cove Marina Road
Togo's Eatery	3455	Sonoma Blvd.
Tortilleria Pinto	1717	Sonoma Blvd.
Trans Seafood	651	Broadway
Uncle Sam's American Chinese Food	785	Sereno Drive

Valerio's Tropical Bakeshop	3495	Sonoma Blvd.
Vallejo Great Donuts	630	Tennessee Street
Vallejo Jelly Doughnut	2300	Sonoma Blvd.
Vallejo Yacht Club	485	Mare Island Way
Vargas Market	5201	Sonoma Blvd.
Vashnu Express Café	4380	Sonoma Blvd.
Vero's	2907	Sonoma Blvd.
Vik's Wheel House	295	Mare Island Way
Walmart Neighborhood Market	701	Sereno Drive
Wendy's	1001	Redwood Street
Wing Stop	972	Admiral Callaghan Lane
Yo Sushi	100	Robles Way
Zio Fredo's	23	Harbor Way
Vallejo Garbage Service	2021	Broadway
Syar Industries, Lake Herman Quarry		Lake Herman Road
Vallejo Building Materials,	909	Sonoma Blvd.
Alco Iron & Metal	321	Azuar Drive
Vallejo Boat Works	1	Harbor Way
Tomra Recycling	1973	Broadway St.
Valcore Recycling Center	38	Sheridan St.
Cordeiro Vault Company	495	Ryder St.
Cordeiro Vault Company	281	Fifth St.
Vallejo Transit Authority	1850	Broadway
Kiewit	96	Solano Avenue
Norcal Building Materials	945	Maine St.
Jeffco	1260	Railroad Avenue
Michael's Transportation	140	Yolano Dr.
Yellow Cab Company	95	Alameda St.

Vallejo Sanitation and Flood Control District  
and the City of Vallejo

## MERCURY AND PCB CONTROL MEASURES



### WATERSHEDS & MANAGEMENT AREAS REPORT

Load Reductions consistent with  
Provision C.11.a.iii.(1) and C.12.a.iii.(1)  
*September 30, 2016*



**The Vallejo Permittees acknowledge the Contra Costa Clean Water Program for sharing the content and format of this report.**

## **1 INTRODUCTION**

### **1.1 Purpose**

This *Mercury and PCBs Watershed/Management Areas (W/MAs) and Control Measures* report was prepared by the Vallejo Sanitation and Flood Control District and City of Vallejo (Vallejo Permittees) per the Municipal Regional Permit (MRP) for urban stormwater issued by the San Francisco Bay Regional Water Quality Control Board (Water Board), Order No. R2-2015-0049. This report fulfills the requirements of MRP Provisions C.11.a.iii.(2) and C.12.a.iii.(2) for reporting a list of the watershed/management areas where mercury and PCBs control measures are currently being implemented and those in which new control measures will be or have the potential to be implemented during the term of this permit, along with the specific control measures and an implementation schedule. Although many of the control measures may be selected primarily for the purpose of achieving PCBs load reductions during this MRP permit term, substantial mercury load reductions may result as a tangential benefit and will be accounted for in tracking mercury load reductions.

The following MRP reporting requirements are addressed within this report:

- The list of W/MAs where control measures are currently being implemented or will be implemented during the term of the Permit;
- The number, type, and locations and/or frequency (if applicable) of control measures;
- A cumulative listing of all potentially PCBs-contaminated sites Permittees have referred to the Water Board to date, with a brief summary description of each site and where to obtain further information;
- The description, scope, and start date of PCBs control measures;
- For each structural control and non-structural best management practice (BMP), interim implementation progress milestones (e.g., construction milestones for structural controls or other relevant implementation milestones for structural controls and non-structural BMPs) and a schedule for milestone achievement; and
- Clear statements of the roles and responsibilities of each participating Permittee for implementation of identified control measures.

This report is organized into the following sections:

1. Introduction and Background
2. Control Measures Overview
3. Watersheds/Management Areas, Control Measures, and Schedule for each Permittee.

## **1.2 Background**

### **1.2.1 Mercury and PCBs Total Maximum Daily Loads**

Fish tissue monitoring in San Francisco Bay (Bay) has revealed bioaccumulation of PCBs, mercury, and other pollutants. The levels found are thought to pose a health risk to people consuming fish caught in the Bay. As a result of these findings, California has issued an interim advisory on the consumption of fish from the Bay. The advisory led to the Bay being designated as an impaired water body on the Clean Water Act "Section 303(d) list" due to PCBs, mercury, and other pollutants. In response, the Water Board has developed Total Maximum Daily Load (TMDL) water quality restoration programs targeting PCBs and mercury in the Bay. The general goals of the TMDLs are to identify sources of PCBs and mercury to the Bay and implement actions to control the sources and restore water quality.

Municipal separate storm sewer systems (MS4s) are one of the PCBs and mercury source/pathways identified in the TMDL plans. Local public agencies (i.e., Permittees) subject to requirements via National Pollutant Discharge Elimination System (NPDES) permits are required to implement control measures in an attempt to reduce PCBs and mercury from entering stormwater runoff and the Bay. These control measures, also referred to as BMPs, are the tools that Permittees can use to assist in restoring water quality in the Bay.

### **1.2.2 Municipal Regional Permit**

NPDES permit requirements associated with Phase I municipal stormwater programs and Permittees in the Bay area are included in the MRP, which was issued to 76 cities, counties and flood control districts in 2009 and revised in 2015. Consistent with the TMDL plans, Provisions C.11.a. and C.12.a. of the MRP require the implementation of source and treatment control measures and pollution prevention strategies to reduce mercury and PCBs in urban stormwater runoff to achieve specified load reductions throughout the permit area. Specifically, the MRP requires the Permittees to:

1. Identify the watersheds or portions of watersheds (management areas) in which PCBs control measures are currently being implemented and those in which new control measures will be implemented during the term of this permit;
2. Identify the control measures that are currently being implemented and those that will be implemented in each watershed/management area;
3. Submit a schedule of control measure implementation; and
4. Implement sufficient control measures to achieve the mercury and PCBs load reductions stated in the permit.

### **1.3 Approach**

#### **1.3.1 Control Measures**

The urban stormwater runoff wasteload allocation for PCBs represents a 90 percent reduction from the estimated existing load. The TMDL implementation plans set roughly 20-year timelines for achieving the reductions but also incorporate an adaptive implementation planning approach. The adaptive approach consists of the development of a plan that includes early implementation actions based on existing knowledge that have a reasonable probability of success and an overview of options for future actions. For PCBs and mercury in the Bay, the immediate or early implementation actions are not expected to completely eliminate the Bay impairment. Therefore, future actions must be evaluated based on continued monitoring and response to the early implementation actions, as well as based on well-designed studies used for model refinement.

The MRP Fact Sheet notes that the initial focus of provisions C.11/12 is on measures designed to reduce PCBs, while also evaluating opportunities for mercury reduction. Implementation actions may fall into four categories depending on the available knowledge and confidence in a control measure's effectiveness (listed in decreasing order of confidence):

- Full-scale implementation throughout the region.
- Focused implementation in areas where benefits are most likely to occur.
- Pilot-testing in a few specific locations.
- Other: This may refer to experimental control measures, research and development, desktop analysis, laboratory studies, and/or literature review.

During the previous MRP term, Permittee effort was largely focused on gathering necessary information about control measure effectiveness through pilot projects and

some focused implementation of the most effective control measures. In this term of the MRP, the emphasis has shifted towards focused and some full-scale implementation of the most effective control measures. Progress will be measured through accounting for specific load reductions as described in the report: *Interim Accounting Methodology for TMDL Loads Reduced* (BASMAA, 2016).

MRP Permittees, stormwater programs, Bay Area Stormwater Management Agencies Association (BASMAA), Water Board, and other interested parties (e.g., the Regional Monitoring Program) began gathering data and developing an understanding of the sources and pathways for mercury and PCBs in the Bay in the late 1990's. The same parties developed a framework to address these pollutants throughout the following decade.

The Regional Stormwater Monitoring and Urban BMP Evaluation: A Stakeholder-Driven Partnership to Reduce Contaminant Loadings project funded by a State of California Proposition 13 grant and conducted by the San Francisco Estuary Institute (SFEI) defined conceptual models of sources and pathways of mercury and PCBs in Bay Area urban watersheds (McKee et al., 2006). The SFEI Proposition 13 project compiled PCBs and mercury chemical analysis results from about 600 sediment samples collected at over 360 locations throughout the Bay Area from roadways and stormwater drainage infrastructure (e.g., storm drain inlets, pump house wet wells, piping beneath manholes, and open channels) (Yee and McKee, 2010). These data supported the general hypothesis that concentrations of PCBs and mercury are elevated in specific parts of the urban landscape and showed that:

- Pollutant concentrations are highly patchy, even at moderate to small spatial (sub-kilometer) and temporal (approximately annual) scales. This patchiness reflects the episodic nature of many release and transport events and processes.
- Concentrations at sites within three kilometers of one another showed similarities in concentration, which may be due to similarities in land use, activities, or transport of shared pollutant sources.
- Individual sites and areas most contaminated with PCBs are often not those with high mercury, which is a logical finding given the different use histories and original pollutant sources.

Another outcome of the SFEI Proposition 13 project was a desktop evaluation of control measures for PCBs and mercury load reductions (Mangarella et al., 2010).

Building upon the efforts of the SFEI Proposition 13 project, BASMAA conducted an EPA grant-funded project called Clean Watersheds for a Clean Bay (CW4CB). The CW4CB

project, which began in May 2010 and will be complete in May 2017, is a collaboration among the MRP Permittees designed to evaluate the effectiveness of stormwater controls for PCBs and mercury. The CW4CB Project implemented a number of pilot projects for various control measures called for by the Bay PCBs and mercury TMDLs and the first-term MRP. The CW4CB work products included:

- Selecting five high priority sub-watersheds that discharge urban runoff with PCBs and other pollutants to the Bay;
- Identifying PCBs and mercury source areas within the project sub-watersheds and referring these sites to regulatory agencies for cleanup and abatement;
- Developing methods to enhance removal of sediment with PCBs and other pollutants during municipal sediment management activities;
- Retrofitting 8 to 10 urban sites with stormwater treatment facilities;
- Facilitating development and implementation of a regional risk communication and exposure reduction program that focuses on educating the public about the health risks of consuming certain species of Bay fish that contain high levels of PCBs and mercury; and
- Creating public education outreach materials, project web portal, a guidance manual, and technical workshops.

The Permittees are using the information gathered and lessons learned through the CW4CB project and the earlier projects as the basis to identify the W/MAs and control measures listed in this report.

With the adoption of the current MRP, the Vallejo Permittees are now in the process of evaluating GIS capabilities to support additional compliance activities related to: 1) the C.3.j Green Infrastructure Planning and Implementation provisions; 2) the C.11 Mercury Controls and C.12 PCBs Controls provisions; and possibly, 3) the C.8 Water Quality Monitoring provisions. This expansion of the Vallejo Permittees GIS capabilities will be critical to ongoing work to identify watersheds and management areas where multiple-benefit control measure implementation opportunities will be identified and prioritized for implementation during this permit term and over the coming decades. Additionally, this GIS database will likely be used to track and map existing and future C.3 projects, allow ease of ongoing review of opportunities for incorporating GI into existing and planned Capital Improvement Projects (CIPs), and assist in the development of GI plans.

The Vallejo Permittees stormwater GIS platform features a central spatial database running on Oracle with discipline specific desktop applications using Munsys and AutoCAD

as well as multiple user access using QGIS on the desktop. In addition, the Open Spatial GIS suite is used to provide browser based maps, analysis, plotting and reporting capabilities for city staff. The web based maps run in a browser on the desktop, as well as providing access on tablets and phones in the field. The Vallejo Permittees anticipate that an expanded stormwater GIS platform will be an important tool for maintaining relevant stormwater data; reviewing, analyzing and displaying data geography; accounting for and assessing compliance with load reduction performance goals; and reporting. The data used for this platform originates from many sources over the last decade and will be reviewed and updated as needed to reflect current land uses and implementation of C.3 projects as new and redevelopment occurs.

### 1.3.2 Watershed /Management Area Delineation

The Program has created a list of W/MAs and control measures (i.e., a control measure plan that describes what, where, and when control measures will be implemented) for PCBs and mercury, provided in the sections below. The ultimate goal for the listed control measures is to achieve the Solano Permittees PCBs load reductions listed in MRP Tables 12.1 and Table 12.2 during this MRP term:

- 13.8 g/yr PCBs by 6/30/18,
- 87.4 g/yr PCBs by 6/30/2020, and
- 3.7 g/yr PCBs using green infrastructure by 6/30/2020.

A W/MA is an area where load reduction credit will be sought for PCBs or mercury control measures. The W/MAs cover all Old Industrial and Old Urban areas, but may include some New Urban areas where appropriate. W/MAs were delineated using the maps showing the 2015 PCBs source property screening results (i.e. high, moderate, and low/no likelihood), known PCBs source properties (from the CW4CB Task 3 referrals, DTSC EnviroStor, and the State Water Board Geotracker), and land uses (i.e., Old Industrial, Old Urban, New Urban, and Open Space) from the Mercury and PCBs Control Measures Implementation Status Report (VSFCD & COV, April 1, 2016). These factors were used to create approximate delineations based on the geography within each Permittee's jurisdiction.

The W/MAs and identified control measures may also evolve over time as the Permittees learn more about these areas through implementation of the control measures. The Permittees will be developing Green Infrastructure Plans per MRP Provision C.3.j and the delineations of W/MAs in this report may also be revised as part of that planning process. Additionally, the Permittees may use results from the CW4CB project (which will be

available at the end of 2016) to adjust preliminary control measure selections in the coming year.

### 1.3.3 Roles and Responsibilities for Implementation of Control Measures

Table 1-1 below summarizes, for each control measure, the roles and responsibilities of the Permittees, Vallejo Permittees, and BASMAA. In a general sense, screening/sampling will primarily be conducted by the Vallejo Permittees, establishment of regional frameworks will be conducted by BASMAA, and adoption and implementation of control measures will be conducted by the Permittees.

**Table 1-1: Control Measure Roles and Responsibilities**

Control Measure Category	Roles and Responsibility		
	City of Vallejo	VSFCD	BASMAA
Source Property Identification and Abatement	<ul style="list-style-type: none"> <li>Work with Program to design monitoring program.</li> <li>Implement enhanced O&amp;M for referred properties.</li> </ul>	<ul style="list-style-type: none"> <li>Design and conduct pollutants of concern (POCs) monitoring.</li> <li>Prepare referral forms, including identification of enhanced O&amp;M.</li> <li>Compile and submit referrals to WATER BOARD in Region 2 and the CVRWQCB in Region 5.</li> <li>Coordinate with BASMAA on ongoing control measure adaptive management.</li> </ul>	<ul style="list-style-type: none"> <li>Discuss ongoing control measure implementation and adaptive management at Monitoring / Pollutants of Concern (MPC) Committee.</li> </ul>
Green Infrastructure / Treatment Control Measures	<ul style="list-style-type: none"> <li>Prepare a GI Plan.</li> <li>Implement GI projects.</li> <li>Gather and compile data on C.3 projects.</li> </ul>	<ul style="list-style-type: none"> <li>No role in GI.</li> </ul>	<ul style="list-style-type: none"> <li>Coordinate GI planning at Development Committee.</li> <li>Discuss control measure implementation and adaptive management at MPC Committee.</li> </ul>
Managing PCBs in Building Materials	<ul style="list-style-type: none"> <li>Participate in BASMAA Regional Project.</li> <li>Adopt Framework.</li> </ul>	<ul style="list-style-type: none"> <li>Assist BASMAA Regional Project.</li> </ul>	<ul style="list-style-type: none"> <li>Develop Framework through Regional Project.</li> </ul>
Managing PCBs in Infrastructure	<ul style="list-style-type: none"> <li>Participate in BASMAA Regional Project.</li> </ul>	<ul style="list-style-type: none"> <li>Participate and assist BASMAA Regional Project.</li> <li>Conduct monitoring.</li> </ul>	<ul style="list-style-type: none"> <li>Develop monitoring plan and report monitoring results via Regional Project.</li> </ul>
Enhanced O&M	<ul style="list-style-type: none"> <li>Implement enhanced O&amp;M where identified.</li> </ul>	<ul style="list-style-type: none"> <li>Coordinate with BASMAA on ongoing control measure adaptive management.</li> <li>Implement enhanced O&amp;M where identified.</li> </ul>	<ul style="list-style-type: none"> <li>Discuss ongoing control measure implementation and adaptive management at MPC Committee.</li> </ul>
Mercury Load Avoidance and Reduction	<ul style="list-style-type: none"> <li>No active role.</li> </ul>	<ul style="list-style-type: none"> <li>Conduct collection events.</li> <li>Compile and track data.</li> </ul>	<ul style="list-style-type: none"> <li>Discuss ongoing control measure implementation and adaptive management at MPC Committee.</li> </ul>
Illegal Dumping Cleanup	<ul style="list-style-type: none"> <li>Identify illegal dumping sites.</li> <li>Conduct/coordinate cleanup.</li> </ul>	<ul style="list-style-type: none"> <li>Identify illegal dumping sites.</li> <li>Conduct/coordinate cleanup.</li> <li>Compile and track data.</li> </ul>	<ul style="list-style-type: none"> <li>Discuss ongoing control measure implementation and adaptive management at MPC Committee.</li> </ul>
Stockpiles, Spills, and Disposal of PCBs	<ul style="list-style-type: none"> <li>Identify facilities through routine inspections.</li> </ul>	<ul style="list-style-type: none"> <li>Identify facilities through routine inspections.</li> </ul>	<ul style="list-style-type: none"> <li>Discuss ongoing control measure implementation and adaptive management at MPC Committee.</li> </ul>

Control Measure Category	Roles and Responsibility		
	City of Vallejo	VSFCD	BASMAA
	<ul style="list-style-type: none"> <li>• Conduct/coordinate cleanup.</li> <li>• Track OES reports and follow-up on spills with PGE.</li> <li>• Coordinate w/ Permittees, BASMAA partners, WATER BOARD, and PGE as needed.</li> </ul>	<ul style="list-style-type: none"> <li>• Conduct/coordinate cleanup.</li> <li>• Track OES reports and follow-up on spills with PGE.</li> <li>•</li> <li>• Compile and track data.</li> <li>• Coordinate w/ Permittees, BASMAA partners, WATER BOARD, and PGE as needed.</li> </ul>	

In addition, the Permittees will be tracking control measure implementation and reporting load reductions using the Interim Accounting Tool developed by a BASMAA regional project. VSFCDD will compile and report the list of site referrals and overall load reductions. BASMAA will compile and report the MRP permit area-wide list of site referrals and overall load reductions.

Although each Permittee’s administrative structure is unique, Table 1-2 summarizes, in general, the roles and responsibilities of the various city, town, or county departments that may be related to implementation of selected control measures:

**Table 1-2: Permittee Department Roles and Responsibilities**

Agency	Typical Role / Responsibility
VSFCDD	<ul style="list-style-type: none"> <li>• Creeks, watersheds, and stormwater management</li> <li>• Engineering and construction services</li> <li>• Capital improvement projects</li> </ul>
City of Vallejo	<ul style="list-style-type: none"> <li>• Planning/zoning/General Plan development</li> <li>• Development project review &amp; approvals</li> <li>• Construction and building inspections</li> <li>• Public facility services and maintenance</li> </ul>

## **2 DESCRIPTION OF CONTROL MEASURES**

This section provides a general description of the types of control measures that are currently being implemented or will be implemented by the Permittees during this and future permit terms to control PCBs and mercury.

### **2.1 Source Property Identification and Abatement**

Source property identification and abatement involves investigations of properties located in historically industrial land use or other land use areas where PCBs were used, released, and/or disposed of and where sediment concentrations have been found at levels significantly above urban background levels. The source property identification and abatement control measure begins with performing investigations of these “High Likelihood” areas to identify PCBs sources to the municipal storm drain system. Once a source property is identified, the source of PCBs on the property may be abated or caused to be abated directly by the Permittee or the Permittee may choose to refer the source property to the Water Board for investigation and abatement by the Water Board or another appropriate regulatory agency with investigation and cleanup authority. Source properties may include sites that were previously remediated or are currently being remediated but have PCBs soils cleanup levels that are elevated above urban background levels or may be newly identified source properties.

The Permittees will validate the existence of significantly elevated PCBs concentrations through surface soil/sediment sampling in the right-of-way or stormwater sampling in the storm drain system where visual inspections and/or other information suggest that a specific property is a potential source of significantly elevated PCBs concentrations. Where data confirm significantly elevated PCBs concentrations (e.g., a sediment concentration equal to or greater than 1.0 mg/kg or a concentration greater than 0.5 mg/kg plus other lines of evidence) are present in soil/sediment from a potential source property or in stormwater samples, the Permittees will take actions to cause the property to be abated or will refer that property to the Water Board to facilitate the issuance of orders for further investigation and remediation of the subject property.

For each confirmed source property, the Permittee will implement or cause to be implemented, where appropriate, one or a combination of interim enhanced operation and maintenance (O&M) measures in the street or storm drain infrastructure adjacent to the source property during the source property abatement process to remove historically deposited sediment and/or to prevent further contaminated sediment from entering the storm drain. These enhanced O&M measures will be described in the source property referral that is sent to the Water Board. If the Permittee finds that enhanced O&M

measures are not justified based on the results of the soil/sediment investigation, the Permittee must discuss these findings with the Water Board prior to submitting the source property referral. The Water Board will review the source property referral and provide comments to the Permittee within 30 days (if needed).

The Vallejo Permittees, in collaboration with the MRP Permittees, are conducting ongoing targeted investigation and monitoring for known or suspected source properties. Source identification is one of five priority pollutants of concern (POC) management information needs required by MRP provision C.8.f. The allocation of sampling effort for POC monitoring will be described in the POC Monitoring Report, due October 15 of each year, as required by MRP provision C.8.h.iv.

The properties that have been referred to the Water Board as of September 2016 are listed in Table 2-1 below.

**Table 2-1: Contaminated Sites Referred to the Water Board**

SITE NAME	LOCATION	YEAR REFERRED
No Contaminated Sites have been referred to the Water Board		

## 2.2 Green Infrastructure / Treatment Control Measures

This control measure includes new development and redevelopment projects on private and public properties regulated by Provision C.3, as well as retrofit of existing infrastructure in public right-of-way (ROW) areas and on public properties not subject to Provision C.3.

Permittees will account for implemented C.3. projects and may implement green infrastructure (GI) projects over this permit term to achieve the PCBs load reductions shown in MRP Table 12.2 and mercury load reductions shown in MRP Table 11.1. Permittees may also choose to include potential GI projects that may be implemented over this permit term. As an example, these may include a project that has been planned or identified; however, funding sources for implementation have not been secured at the time of this report.

Permittees will be identifying existing C.3 projects as part of this control measure and, in compliance with the requirement of MRP Provision C.3.b.i.(2), will be tracking development projects that are subject to C.3. over this permit term.

In addition, the Permittees will be conducting an ongoing review of opportunities for incorporating GI into existing and planned capital improvement projects over this permit term (a.k.a., no missed opportunities) and developing a GI Plan for the inclusion of low impact development drainage design into storm drain infrastructure on public and private lands, including streets, roads, storm drains, parking lots, building roofs, and other storm drain infrastructure elements, in compliance with MRP Provision C.3.j.

## **2.3 Managing PCBs In Building Materials and Infrastructure**

### **2.3.1 PCBs in Building Materials**

During the first three years of the permit term, the Permittees will develop and implement (or cause to be developed and implemented) an effective protocol for managing materials with PCBs concentrations of 50 ppm or greater in applicable structures at the time such structures undergo demolition, so that PCBs do not enter the MS4. PCBs from these structures can enter storm drains during and/or after demolition through vehicle track-out, airborne releases, soil erosion, stormwater runoff, or improper waste disposal. Applicable structures include, at a minimum, commercial, public, institutional and industrial structures constructed or remodeled between the years 1950 and 1980 and with building materials with PCBs concentrations of 50 ppm or greater. Single-family residential and wood frame structures are exempt. A Permittee is exempt from this requirement if the only structures that existed pre-1980 within its jurisdiction were single-family residential and/or wood-frame structures. The PCBs management framework will be implemented by the start of the fourth year of the permit term (i.e., July 1, 2019).

Permittees are required to develop a protocol by June 30, 2019 that includes each of the following components, at a minimum:

1. The necessary authority to ensure that PCBs do not enter municipal storm drains from PCBs-containing materials in applicable structures at the time such structures undergo demolition;
2. A method for identifying applicable structures prior to their demolition; and
3. Method(s) for ensuring PCBs are not discharged to the municipal storm drain from demolition of applicable structures.

By July 1, 2019 and thereafter, Permittees are required to:

- Implement or cause to be implemented the PCBs management protocol for ensuring PCBs are not discharged to municipal storm drains from demolition of

applicable structures via vehicle track-out, airborne releases, soil erosion, or stormwater runoff.

- Develop an assessment methodology and data collection program to quantify in a technically sound manner PCBs loads reduced through implementation of the protocol for controlling PCBs during demolition of applicable structures. This should be reported on in the 2020 Annual Reports at the regional level on behalf of all Permittees.
- In their 2016, 2017, and 2018 Annual Reports, Permittees are required to summarize the steps they have taken to begin implementing this requirement. In their 2020 Annual Reports and thereafter, Permittees are required to provide documentation of each of the number of applicable structures that applied for a demolition permit during the reporting year and a running list of the applicable structures that applied for a demolition permit (since the date the PCBs control protocol was implemented) that had material(s) with PCBs at 50 ppm or greater, with the address, demolition date, and brief description of PCBs control method(s) used.

The Vallejo Permittees are actively participating in a BASMAA Regional Project to address PCBs in building materials. This Regional Project will develop an implementation framework, guidance materials, and tools for local agencies to ensure that PCBs-containing materials and wastes are properly managed during building demolition. This Regional Project will also include developing training materials and conducting trainings for municipal staff and outreach workshops for the industry on implementing the framework/protocols developed via the project. The tools and materials developed as part of the project will build upon materials and outputs developed in 2010-2011 by the San Francisco Estuary Partnership with State Water Board grant funding, called the “PCBs in Caulk Project”, as well as subsequent and parallel activities by BASMAA.

### 2.3.2 PCBs in Infrastructure

PCBs may also be found in storm drain or roadway infrastructure in public ROWs such as caulk and sealants used in storm drains and between concrete curbs and street pavement. Permittees will investigate whether PCBs are present in such materials and in what concentrations. These results will be reported no later than the 2018 Annual Report. The results of these investigations will inform further investigations of PCBs in infrastructure and the development of Permittees’ GI Plans.

The Vallejo Permittees will be participating in a BASMAA Regional Project to develop a Quality Assurance Project Plan (QAPP) and Sampling and Analysis Plan (SAP) to

characterize the levels of PCBs in caulks/sealants used in storm drains and roadway infrastructure to quantify the potential PCBs load reduction benefits that may result from public infrastructure improvements. The monitoring program and laboratory analysis per the QAPP and SAP may be conducted by the Vallejo Permittees in coordination with BASMAA or via a BASMAA Regional Project. A project report to be included in the 2018 Annual Report will either be prepared by the Program in coordination with BASMAA or via a BASMAA Regional Project.

## **2.4 Enhanced Operation and Maintenance**

Routine MS4 O&M activities include street sweeping, drain inlet cleaning, and pump station maintenance. In addition, culverts and channels are also routinely maintained (i.e., desilted). Enhancements to routine operations and new actions such as storm drain line and street flushing may enhance the Permittees' ability to reduce PCBs and mercury in stormwater. PCBs load reductions achieved through implementation of enhanced O&M control measures, aside from enhanced O&M control measures associated with source property referrals, may be counted as part of the overall load reductions during this permit term.

## **2.5 Diversion to POTW**

This control measure consists of diverting dry weather and/or first flush events from MS4s to publically owned treatment works (POTWs) as a method to reduce loads of PCBs and

The diversion of dry weather and first flush flows to POTWs in Solano County has been taken on by the Fairfield Suisun Sewer District. The project involves changing the operation of an existing pump station so as to divert stormwater from the station to the Fairfield Suisun Sewer District wastewater treatment plant. The pump station is located in the city of Fairfield just upstream from Suisun city. It serves a watershed area of approximately 6 acres all of which is zoned commercial, of which a significant portion is automotive repair. The pump station changes to be evaluated for this project include:

- Shutting off the stormwater pump station during dry weather
- Removing standing water in the pump station wet well throughout the dry season and before the first flush
- Monitoring concentrations of pollutants and pollutant indicators in the diverted water

The goal of this pilot project is to comply with provision C.11/12f of the MRP by better understanding the applicability, costs, and benefits associated with this and similar projects. The results from this in parallel studies by other agencies will inform planning for focused implementation of urban runoff measures during subsequent permit terms, in order to achieve maximum benefits and continue to make progress towards achieving load reductions called for in Mercury and PCB TMDLs.

## **Current Status**

Normal discharges from the State Street Pump Station were terminated in mid -June. The contents of the pump stations wet well removed by Vactor truck and then discharged to the Fairfield Suisun Sewer District treatment plant. As dry weather runoff accumulates in the pump station, the water will be removed and disposed of at the POTW. The pump station resumes its normal discharge operation settings in late September. This project is ongoing.

## **2.6 Source Controls and Other Control Measures**

### **2.6.1 Mercury Load Avoidance and Reduction**

Mercury load avoidance and reduction includes a number of source control measures listed in the California Mercury Reduction Act adopted by the State of California in 2001. These source controls include material bans, reductions of the amount of mercury allowable for use in products, and mercury device recycling. The following source controls bans are included:

- Sale of cars that have light switches containing mercury;
- Sale or distribution of mercury fever thermometers without a prescription;
- Sale of mercury thermostats; and,
- Manufacturing, sale, or distribution of mercury-added novelty items.

In addition, fluorescent lamps manufacturers continue to reduce the amount of mercury in lamps sold in the U.S. Manufacturers have significantly reduced the amount of mercury in fluorescent linear tube lamps.

Mercury Device Recycling Programs resulting in Mercury load reduction generally include three types of programs that promote and facilitate the collection and recycling of mercury-containing devices and products:

- Permittee-managed household hazardous waste (HHW) drop-off facilities and curbside or door-to-door pickup;
- Private business take-back and recycling programs (e.g., Home Depot); and,
- Private waste management services for small and large businesses.

The Vallejo Permittees coordinate with MRP Permittees and local household hazardous waste (HHW) collection facilities to implement mercury collection and recycling in accordance with MRP Provisions C.11.a.i and C.11.a.ii.

HHW in the Vallejo area is collected by Recology Vallejo located at 2021 Broadway Street, Vallejo, CA. Recology serves the communities of Vallejo and parts of unincorporated Solano County. The types of data collected at this facility is the standard Cal Recycle 303a form. However, these efforts are no longer required to be reported, but will be tracked for mercury loads reduced through implementation of mercury avoidance and reduction control measures.

### 2.6.2 Illegal Dumping Clean-Up

This source control measure entails clean-up of construction and demolition debris from illegal dumping areas. This control measure will apply to construction and demolition illegal dumping only during this permit term, but may be expanded to other types of illegally dumped trash if supported by monitoring data.

### 2.6.3 Stockpile, Spills, and Disposal of PCBs

This control measure includes the proper clean-up and disposal of stockpiles, spills, and/or improperly disposed quantities of PCBs. The measure would involve, for instance, a concentrated source of PCBs (e.g., a barrel) that is found and cleaned-up or properly disposed and the clean-up of transformer spills by PG&E (see Table 2-2 below for a list of PG&E transformer pole spills in Fairfield and Suisun City).

**Table 2-2: PG&E Transformer Pole Spills in Vallejo**

CITY	SPILL DATE	LOCATION	QUANTITY/ CONCENTRATION	DATE OF FINAL SPILL REPORT FROM PGE AND WATER BOARD
There have been no reported or discovered transformer pole spills to report.				

BASMAA representatives have been working with Water Board staff to ensure thorough documentation and clean-up completion of PG&E PCBs transformer spills. This activity

could have a significant effect on where PCBs in the public right-of-way are found, as many spills happen in residential areas. Residential areas are not typically high likelihood areas for PCBs sources, so no other control measures have been developed specifically for these areas. Water Board and BASMAA representatives will work on better defining agency roles and responsibilities in responding to spills, at least for their own agencies, and hope to get PG&E to cooperate to make a smoother and more transparent process as we try to reduce the loading of PCBs into the San Francisco Bay, Suisun and San Pablo Bays.

Water Board staff arranged a meeting on February 26, 2016 with the BASMAA MPC chair and Daniel Sanchez, Hazardous Materials and Water Quality Program Manager for PG&E. Mr. Sanchez had agreed to provide BASMAA and WATER BOARD with (1) an inventory of spills in the Bay Area, and (2) written SOPs for spill response. Mr. Sanchez stated that the Water Board, Certified Unified Program Agency (CUPA) & Office of Emergency Services (OES) are called if the spill exceeds 49 gallons or threatens a waterway, a storm drain, or human health, and that a CUPA gets a courtesy call for every spill. No information has come from Mr. Sanchez since the meeting.

All information on the spills and clean-ups are not currently available, as the process to get documentation of the completion of a clean-up is difficult. PG&E has many private contractors that are called out at odd hours in inclement weather to do the clean-up. Tracking one representative who can confirm PG&E's process or progress on spills has proven impossible so far. Many spills are less than 49 gallons and less than 50 ppm, but still have significant levels of PCBs concentrations (e.g., 5 gallons of transformer oil with a PCBs concentration of 44 ppm). Figure 2-1 below shows a spill that occurred in Concord on March 6, 2016. Note how the transformers landed in puddle, directly in the MS4 and stormwater. The road drainage is a series of dirt right-of-way and culverts under driveways.

## **Vallejo Community**

### **2.7 List of Watersheds / Management Areas**

The watersheds / management areas (W/MAs) within the Vallejo Community are shown on the Figure entitled: Vallejo WMAs and District Properties.

1. Urban Old Properties
2. Old Industrial
3. Electrical Properties

4. Railroad Properties
5. District Owned Properties

## **2.8 Scope and Schedule of PCBs Control Measures**

A summary of the control measures that are currently being implemented or will be implemented during the term of the permit in each of the W/MAs is provided in Table 2-3 and are discussed in the sections below.

### **2.8.1 Source Property Identification and Abatement**

#### *PCBs-Contaminated Properties Referred to the Regional Water Board*

No properties within the Vallejo Community have been referred to the Water Board, as a result of implementation of the Source Property Identification and Abatement control measure to date.

#### *Ongoing Investigations*

Ongoing investigations may result in a property referral in the future.

### **2.8.2 Green Infrastructure / Treatment Control Measures**

Any development, redevelopment, and infrastructure projects within each of the W/MA's will be subject to the development standards in effect at the time an application would be made, such as demolition standards and applicable provisions of section C.3.

### **2.8.3 Managing PCBs in Building Materials and Infrastructure**

#### *Managing PCBs in Building Materials*

The Vallejo Permittees are actively participating in a BASMAA Regional Project to address PCBs in building materials as described in section 2.3.1.

#### *Managing PCBs in Infrastructure*

The Vallejo Permittees will be participating in a BASMAA Regional Project to address PCBs in infrastructure as described in section 2.3.2.

### **2.8.4 Enhanced Operation and Maintenance Control Measures**

No enhanced operation and maintenance control measures are proposed.

## Source Controls and Other Control Measures

### *Mercury Load Avoidance and Reduction*

The Vallejo Permittees are actively implementing mercury recycling programs in all W/MA's in order to reduce mercury loading to the Bay.

### *Illegal Dumping Cleanup*

The Vallejo Permittees will identify and cleanup illegal dumping of construction and demolition debris where illegal dumping of construction and demolition debris occurs.

### *Stockpiles, Spills, and Disposal of PCBs*

Stockpiles and spills of PCBs will be addressed as they are identified through industrial facility inspection and spill notification programs.

**Table 2-3.**

**Vallejo Permittees Watershed/Management Areas & Summary of Control Measures**

Control Measure Category	Watershed/Management Area				Permittee Owned Parcels
	Old Industrial	Old Urban	PG&E	Rail	
Source Property Identification and Abatement					
Source Property Investigation	C, P		Po	Po	
Referral of Source Property	Po				
Direct Abatement of Source Property					
Categorical Source Property Referral			Po	Po	
Green Infrastructure / Treatment Control Measures					
Redevelopment Subject to C.3	C, Po	Po			
GI/Treatment Measures Not Subject to C.3					
Full Trash Capture Devices (HDS)					
Managing PCBs in Building Materials and Infrastructure					
Managing PCBs in Building Materials	Po	Po			
Managing PCBs in Infrastructure	Po	Po			
Enhanced O&M					
Street Sweeping	Po	Po			Po
Storm Drain Inlet Cleaning	Po	Po			Po
Pump Station Maintenance	Po	Po			Po
Desilting of Channels and Culverts	Po	Po			Po
Street Flushing	Po	Po			Po
Storm Drain Line Cleaning	Po	Po			Po
Diversion to POTW					
Diversion to POTW					
Source Controls and Other Control Measures					
Mercury Load Avoidance and Reduction	Po	Po			
Illegal Dumping Cleanup	Po	Po			
Stockpiles, Spills, and Disposal of PCBs	Po	Po			

Completed (C), Planned (P), Potential (Po)

# Vallejo WMAs and District Properties



- Old Industrial
- Electrical Properties
- Railroad
- Urban Old
- District Properties

## APPENDIX A

### **Percent Trash Reduction in all TMAs due to Control Measures Other than Trash Full Capture Systems**

Street Sweeping: The District will work with the City of Vallejo to confirm enhancements or new actions implemented after the MRP 1.0 effective date to identify portions of the TMA where enhanced street sweeping above 2009 levels was implemented.

On-land Cleanup: The District is currently unable to claim credit for this component during the report period due to the lack of adequate documentation to justify estimates. Staff is currently working to establish operational procedures that would allow the District and City of Vallejo to document and accurately calculate percent load removals.

Storm Drain Inlet Cleaning: The District did not claim credit for this component because there were no visual assessments performed to support this activity. Staff are developing a database and operational procedures to document storm drain inlet cleaning activities, including visual documentation of all activities.

Anti-littering and Illegal Dumping Enforcement Activities: District staff will work with the City of Vallejo to develop a system for documenting activities in this area to describe the number of citations or other corrective actions accomplished each year as well as develop a system for documenting and recording anti-littering and illegal dumping enforcement records.

Other Types of Actions: Although the District and City of Vallejo have addressed the removal of trash through other activities including public education and litter focused community programs, adequate and defensible data was not available for the report period. Staff will work with the City of Vallejo to develop a system for documenting and reporting these types of activities.

### **Offset Associated with Additional Creek and Shoreline Cleanups**

Additional Creek and Shoreline Cleanups: The District was unable to justifiably claim credit for this activity as information including the number and frequency of cleanups conducted, the locations and cleanup dates, and the volume of trash removed and before and after visual assessments were not documented. Work is underway to implement a system for documenting activities that would fall into this category.

Direct Trash Discharge Controls: City and District staff will investigate the feasibility of developing a Discharge Control Program to offset an additional part of provision C.10.a trash load percent reduction requirement by implementing a comprehensive plan for control of direct discharges of trash to receiving waters from non-storm drain system sources. A draft plan will be submitted to the Water Board Executive Officer for review and approval. The plan will include procedures for documenting the number and frequency of actions conducted, the locations and dates of actions taken, and the volume of trash removed/reduced as well as procedures conducting assessments in receiving waters to demonstrate the effectiveness of the program.

### **Other Activities to Reduce Trash Loads**

Long Term Capital Improvement Plan: The District is currently working to identify long-term capital projects to ensure adequate funding for trash full capture systems identified in the District's Long-term Trash Reduction Plan and Progress Assessment Strategy (VSFCD February 1, 2014).

Review of District's Long-term Reduction Plan and Progress Assessment Strategy: The District is proposing to conduct an independent review and update of the current Long-term Trash Reduction Plan and Progress Assessment Strategy to assess progress toward compliance with future compliance requirements and to adjust the plan as necessary.