CITY OF PITTSBURG
Engineering Department
65 Civic Avenue
Pittsburg, CA 94565
(925) 252-4930 Fax (925) 252-6928

September 15, 2012

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

Ms. Pamela Creedon, Executive Officer
California Regional Water Quality Control Board
Central Valley Region
11020 Sun Center Drive, #200
Rancho Cordova, CA 95670-6114

Dear Mr. Wolfe and Ms. Creedon:

Enclosed is the 2011 - 2012 Annual Report for the City of Pittsburg, which is required by and in accordance with Provision C.16 in National Pollutant Discharge Elimination System (NPDES) Permit Number CAS612008 issued by the San Francisco Bay Regional Water Quality Control Board and/or by Provision C.13 in NPDES Permit Number CA0083313 issued by the Central Valley Regional Water Quality Control Board.

I certify under penalty of law that this document and all attachments were 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 manage 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 possibly of fine and imprisonment for knowing violations.

Very truly yours,

Jolan Longway
Civil Engineer II

ATTACHMENT B

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Section 1 – Permittee Information

Background Information					
Permittee Name:	City of Pittsburg				
Population:	69,000				
NPDES Permit No.:	CAS612008 (San Francisco Bay RWQCB Permit) and/or CA00883313 (Central Valley RWQCB Permit)				
Order Number:	R2-2009-0074 (San Francisco Bay RWQCB) and/or R5-2010-0102 (Central Valley RWQCB)				
Reporting Time Period (month/year):	July / 2011 through June / 2012				
Name of the Responsible Authority:	Jolan Longway			**Title:**	Civil Engineer II
Mailing Address:	65 Civic Avenue				
City: Pittsburg		**Zip Code:**	94565	**County:**	Contra Costa
Telephone Number: (925) 252-4803			**Fax Number:** (925) 252-4814		
E-mail Address: **jlongway@ci.pittsburg.ca.us**					
Name of the Designated Stormwater Management Program Contact (if different from above):	Same as above			**Title:**	Same as above
Department: Engineering					
Mailing Address:	65 Civic Avenue				
City: Pittsburg		**Zip Code:**	94565	**County:**	Contra Costa
Telephone Number: (925) 252-4930			**Fax Number: (925) 252-4814**		
E-mail Address: **jlongway@ci.pittsburg.ca.us**					

Section 2 - Provision C.2 Reporting Municipal Operations

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

Summary:

The City Engineering and Public Works staff participated in the countywide program's Municipal Operations Committee.

Refer to the C.2 Municipal Operations section of the CCCWP's FY 11-12 Annual Report for a description of activities implemented at the countywide and/or regional level.

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

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

x	Control of debris and waste materials during road and parking lot installation, repaving or repair maintenance activities from polluting stormwater
x	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.
x	Sweeping and/or vacuuming and other dry methods to remove debris, concrete, or sediment residues from work sites upon completion of work.

Comments:

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

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

x	Control of 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
x	Implementation of the BASMAA Mobile Surface Cleaner Program BMPs

Comments:

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

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

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

Comments:
The City Public Works Department does not contract maintenance services for bridge and structural maintenance or graffitiremoval.

C.2.d. ►Stormwater Pump Stations

Does your municipality own stormwater pump stations: [x] **Yes** [ ] **No**

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

Complete the following table for dry weather DO monitoring and inspection data for pump stations[1] (add more rows for additional pump stations). If a pump station is exempt from DO monitoring, explain why it is exempt.

Pump Station Name and Location	First inspection Dry Weather DO Data		Second inspection Dry Weather DO Data	
	Date	mg/L	Date	mg/L
Montezuma Slough Pump Station (Lat 38.02848;Long -121.89184)	9/8/11	0.9 -4.3 see summary	5/16/12	0.3-7.3 See summary

[1] DO monitoring is exempted where all discharge from a pump station remains in a stormwater collection system or infiltrates into a dry creek immediately downstream.

Summarize corrective actions as needed for DO monitoring at or below 3 mg/L. Attach inspection records of additional DO monitoring for corrective actions:

Summary: Aeration from operation of the Pump Station increased the discharge side D.O. to above 3.0 on 9/8/11 and 5/16/12. Pump Station out of service 1/23/12 to 5/07/12. Storm water discharge was over channel weir.

Notes:
9/08/11 - Suction side D.O. = 0.6 mg/L; discharge side D.O. = 0.9 mg/L; discharge side with pump running = 4.3 mg/L. Testing by W. Pease.

5/16 /12 - Suction side D.O. = 5.4 mg/L; discharge side D.O. = 0.3 mg/L; discharge side with pump running = 7.3 mg/L. Testing by W. Pease.

Attachments:

Complete the following table for wet weather inspection data for pump stations (add more rows for additional pump stations):

Pump Station Name and Location	**Date** (2x/year required)	**Presence of Trash** (Cubic Yards)	**Presence of Odor** (Yes or No)	**Presence of Color** (Yes or No)	**Presence of Turbidity** (Yes or No)	**Presence of Floating Hydrocarbons** (Yes or No)
Montezuma Slough Pump Station	10/6/11	None	No	Yes *	Yes *	No
Montezuma Slough Pump Station	1/23/12	None	No	Yes *	Yes *	No

C.2.e. ►Rural Public Works Construction and Maintenance				
Does your municipality own/maintain rural[2] roads:		**Yes**	x	**No**
If your answer is **No** then skip to **C.2.f**.				
Place an **X** in the boxes next to implemented BMPs to indicate that these BMPs were implemented in applicable instances. 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:				
NA	Control of road-related erosion and sediment transport from road design, construction, maintenance, and repairs in rural areas			
NA	Identification and prioritization of rural road maintenance based on soil erosion potential, slope steepness, and stream habitat resources			
NA	No impact to creek functions including migratory fish passage during construction of roads and culverts			
NA	Inspection of rural roads for structural integrity and prevention of impact on water quality			
NA	Maintenance of rural roads adjacent to streams and riparian habitat to reduce erosion, replace damaging shotgun culverts and excessive erosion			
NA	Re-grading of unpaved rural roads to slope outward where consistent with road engineering safety standards, and installation of water bars as appropriate			
NA	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:				

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

C.2.f. ►Corporation Yard BMP Implementation

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

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

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

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

Comments:
City Public Works staff self inspect the Corporation Yard.

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**
NA	NA	NA	NA
NA	NA	NA	NA
NA	NA	NA	NA
NA	NA	NA	NA
NA	NA	NA	NA

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

C.3.b. ►Green Streets Status Report

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

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

Summary:

The C.3 New Development and Redevelopment section of the CCCWP's FY 11-12 Annual Report includes a description of activities conducted at the countywide and regional level.

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

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

C.3.iii(3)Low Impact Development Reporting

(For FY 11-12 Annual Report only) Report the method(s) of implementation of Provision C.3.c.i in the 2012 Annual Report. For specific tasks listed in Provision C.3.c.i. that are reported using the reporting tables required for Provision C.3.b.v, a reference to those tables is adequate.

The City of Pittsburg's stormwater ordinance requires every application for a development project to be accompanied by a stormwater control plan that meets the criteria in the most recent version of the CCCWP Program Stormwater C.3 Guidebook. The Guidebook has been updated to incorporate the requirements of Provision C.3.c.i. See the New Development and Redevelopment section of the CCCWP's FY 2011-2012 Annual Report for details.

Please see Table C.3.b.v. (1) for specific information on regulated projects approved during FY 11-12. Note that projects approved prior to December 1, 2011 were not required to fully implement the LID requirement in Provision C.3.c.i.

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

(For FY 11-12 Annual Report only) Did your agency make any ordinance/legal authority and procedural changes to implement Provision C.3.e.?	x	**Yes.**		**No**

If yes, attach a copy of the ordinance/legal authority changes or provide a link to the document(s). Discuss any procedural changes made.

The City of Pittsburg's stormwater ordinance requires every application for a development project to be accompanied by a stormwater control plan that meets the criteria in the most recent version of the CCCWP Stormwater C.3 Guidebook. The Guidebook has been updated to incorporate the requirements of Provision C.3.e. See the New Development and Redevelopment section of the CCCWP's FY 2011-2012 Annual Report for details.

(For FY 11-12 Annual Report and each Annual Report thereafter) Is your agency choosing to require 100% LID treatment onsite for all Regulated Projects and not allow alternative compliance under Provision C.3.e.?		**Yes**	x	**No**

Comments (optional): The City of Pittsburg encourages 100 % LID treatment onsite as a first option, but does not prohibit alternative compliance. The City currently has 2 development projects for which Vesting Tentative Maps have already been approved. In an effort to salvage the project, the developer is seeking to build smaller models of homes, which requires the discretionary action of design review approval. Therefore the projects cannot be grandfathered to waive the C.3 requirement. The option of providing alternative compliance by rehabilitating offsite existing facilities for treatment and flow control offsite is the only other feasible way the developer can comply with C.3 compliance.

C.3.e.vi ► Special Projects Reporting

1. Has your agency received, but not yet granted final discretionary approval of, a development permit application for a project that has been identified as a potential Special Project based on criteria listed in MRP Provision C.3.e.ii(2) for any of the three categories of Special Projects (Categories A, B or C)?		**Yes**	x	**No**
2. Has your agency granted final discretionary approval of a project identified as a Special Project in the March 15, 2012 report? If yes, include the project in both the C.3.b.v.(1) Table, and the C.3.e.vi. Table.		**Yes**	x	**No**

If you answered "Yes" to either question,

1) Complete Table C.3.e.vi . below.
2) Attach narrative discussion of 100% LID Feasibility or Infeasibility for each project.

NA

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

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

(2) On an annual basis, provide a discussion of the inspection findings for the year and any common problems encountered with various types of treatment systems and/or HM controls. This discussion should include a general comparison to the inspection findings from the previous year.

Summary:
City staff inspects these C.3 facilities for compliance with O&M verification. This fiscal year there were no notable problems encountered with any of the sites, except for pedestrian foot traffic which disturb the vegetation and ground cover.

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

Summary: The current inspection prioritization plan is still feasible given the volume of projects constructed. However, in the near future the City's GHAD district may become the responsible party for maintenance of these facilities, and therefore require revisions to O&M procedures. City Engineering Staff will continue to inspect for compliance.

(4) During the reporting year, did your agency:

• Inspect all newly installed stormwater treatment systems and HM controls within 45 days of installation?	x	**Yes**		**No**
• Inspect at least 20 percent of the total number of installed stormwater treatment systems or HM controls?	x	**Yes**		**No**
• Inspect at least 20 percent of the total number of installed vault-based systems?	x	**Yes**		**No**

If you answered "No" to any of the questions above, please explain:

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

Project Name Project No.	Project Location[9], Street Address	Name of Developer	Project Phase No.[10]	Project Type & Description[11]	Project Watershed[12]	Total Site Area (Acres)	Total Area of Land Disturbed (Acres)	Total New Impervious Surface Area (ft^2)[13]	Total Replaced Impervious Surface Area (ft^2)[14]	Total Pre-Project Impervious Surface Area[15] (ft^2)	Total Post-Project Impervious Surface Area[16] (ft^2)
Private Projects											
Riverside Continuation High School	1151 Stoneman Avenue, between Loveridge Road and Harbor Street.	Pittsburg Unified School District	One	Redevelopment Project: Portion of former junior high school campus to be redeveloped. Existing structures, and parking areas to be demolished for the construction of a new 30,000 sf building.	Kirker Creek	21.8	4.9	72,492	170,846	98,354	170,846
Martin Luther King Jr. Junior High School	950 El Pueblo Avenue, at California Court	Pittsburg Unified School District	NA	Redevelopment Project: The old elementary school campus buildings and paved areas are completely demolished and construction of a brand new Junior High School Campus is constructed in its place.	Kirker Creek	11.63	6.4	40,528	273,565	233,037	273,565
Irish Construction contractor yard and office	2141 Piedmont Way, north of Garcia Avenue	Irish Construction	NA	Redevelopment Project: Construction of a 7,700 sf office building and contractor yard on two previously	Kirker Creek	2.4	0.31	9,088	13,564	4,476	13,564

[9] Include cross streets
[10] 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".
[11] 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.
[12] State the watershed(s) in which the Regulated Project is located. Optional but recommended: Also state the downstream watershed(s).
[13] All impervious surfaces added to any area of the site that was previously existing pervious surface.
[14] All impervious surfaces added to any area of the site that was previously existing impervious surface.
[15] For redevelopment projects, state the pre-project impervious surface area.
[16] For redevelopment projects, state the post-project impervious surface area.

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

Project Name Project No.	Project Location[9], Street Address	Name of Developer	Project Phase No.[10]	Project Type & Description[11]	Project Watershed[12]	Total Site Area (Acres)	Total Area of Land Disturbed (Acres)	Total New Impervious Surface Area (ft^2)[13]	Total Replaced Impervious Surface Area (ft^2)[14]	Total Pre-Project Impervious Surface Area[15] (ft^2)	Total Post-Project Impervious Surface Area[16] (ft^2)
(Irish Construction cont.)				developed lots. The new contractor yard will include some pavement reconstruction of the parking areas and placement of concrete for storage of construction related materials and equipment.							
Public Projects											
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Comments:

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

Project Name Project No.	Application Deemed Complete Date[17]	Application Final Approval Date[17]	Source Control Measures[18]	Site Design Measures[19]	Treatment Systems Approved[20]	Operation & Maintenance Responsibility Mechanism[21]	Hydraulic Sizing Criteria[22]	Alternative Compliance Measures[23/24]	Alternative Certification[25]	HM Controls[26/27]
Private Projects										
Riverside Continuation High School	5/11/11	7/12/11	The project drainage from the new proposed buildings will be collected and routed to the proposed bioswale for treatment prior to discharge into Kirker Creek, instead of connecting directly into the conveyance system that drains into the creek.	The project will utilize a majority of the existing paved surfaces instead of creating more impervious surfaces for walkways and driveways.	One Bioretention Facility	Pittsburg Unified School District	1a	Not applicable	Not applicable	The Contra Costa Sizing Calculator was used to design the size of the bioretention facility.
Martin Luther King Jr. Junior High	9/6/11	11/11/11	The following measures will	The site's existing	8 flow through bioretention	The standard Operations and	3	Not applicable	Not applicable	The Contra Costa Sizing

[17] For private projects, state project application deemed complete date and final discretionary approval date. If the project did not go through discretionary review, report the building permit issuance date.
[18] 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.
[19] 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.
[20] 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.).
[21] 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.
[22] 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).
[23] 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.
[24] 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.
[25] Note whether a third party was used to certify the project design complies with Provision C.3.d.
[26] If HM control is not required, state why not.
[27] If HM control is required, state control method used (e.g., method to design and size device(s) or method(s) used to meet the HM Standard, and description of device(s) or method(s) used, such as detention basin(s), biodetention unit(s), regional detention basin, or in-stream control).

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

Project Name Project No.	Application Deemed Complete Date[17]	Application Final Approval Date[17]	Source Control Measures[18]	Site Design Measures[19]	Treatment Systems Approved[20]	Operation & Maintenance Responsibility Mechanism[21]	Hydraulic Sizing Criteria[22]	Alternative Compliance Measures[23/24]	Alternative Certification[25]	HM Controls[26/27]
School (Martin Luther King Jr. Junior High School cont.)			be implemented: 1) Inlets marked with no dumping 2) Landscape design incorporates efficient irrigation, drought tolerant vegetation, and pest resistant plants to minimize the need for fertilizers and pesticides 3) isolation of vehicle washing and waste disposal area so runoff is collected and diverted to the sanitary sewer system.	topography is used for design of bio-retention swales and flo-through planters. A small portion of driveway is constructed of pervious pavement, and the existing field area was preserved.	areas, one area of permeable pavement, and one self retaining area was approved.	Maintenance Agreement and Revocable encroachment permit between the City and the School District will be executed.				Calculator was used to design the size of the bioretention facilities.
Irish Construction contractor yard and office		1/3/12	Vehicle washing, waste disposal, and material storage areas are graded	This project minimizes the increase in impervious surfaces by re-using	Flow-through Planters	Standard Operations and Maintenance Agreement will be executed.	3	Not applicable	Not applicable	Calculator was used to design the size of the flow through planters.

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

Project Name Project No.	Application Deemed Complete Date[17]	Application Final Approval Date[17]	Source Control Measures[18]	Site Design Measures[19]	Treatment Systems Approved[20]	Operation & Maintenance Responsibility Mechanism[21]	Hydraulic Sizing Criteria[22]	Alternative Compliance Measures[23/24]	Alternative Certification[25]	HM Controls[26/27]
			to drain runoff to a sand oil separator, and discharged to sanitary sewer	existing imperious surface areas for parking and materials storage. Existing vegetation at the perimeter was preserved and in some areas expanded.						

Comments:

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

Project Name Project No.	Approval Date[28]	Date Construction Scheduled to Begin	Source Control Measures[29]	Site Design Measures[30]	Treatment Systems Approved[31]	Operation & Maintenance Responsibility Mechanism[32]	Hydraulic Sizing Criteria[33]	Alternative Compliance Measures[34/35]	Alternative Certification[36]	HM Controls[37/38]
Public Projects										
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Comments:

[28] For public projects, enter the plans and specifications approval date.
[29] 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.
[30] 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.
[31] 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.).
[32] 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.
[33] 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).
[34] 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.
[35] 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.
[36] Note whether a third party was used to certify the project design complies with Provision C.3.d.
[37] If HM control is not required, state why not.
[38] If HM control is required, state control method used (e.g., method to design and size device(s) or method(s) used to meet the HM Standard, and description of device(s) or method(s) used, such as detention basin(s), biodetention unit(s), regional detention basin, or in-stream control).

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

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

Name of Facility/Site Inspected	Address of Facility/Site Inspected	Newly Installed? (YES/NO)[39]	Party Responsible[40] For Maintenance	Date of Inspection	Type of Inspection[41]	Type of Treatment/HM Control(s) Inspected[42]	Inspection Findings or Results[43]	Enforcement Action Taken[44]	Comments/Follow-up
Fire Prevention Bureau	2329 Loveridge Road	no	Contra Costa Fire District	3/20/12	routine	Bioretention facilities	Proper O&M	none	none
Marina Commercial Building	47 Marina Boulevard	no	City of Pittsburg	3/15/12	routine	Flow through planters	Proper O&M	none	none
Civic Center Parking Lot	65 Civic Avenue	no	City of Pittsburg	3/15/12	routine	Bioretention planters	Proper O&M	none	Courthouse foot traffic had been impacting the vegetation. Guardrails have been installed and pedestrian crosswalk paths have been installed to re-direct foot traffic around the bioretention facility.
Old town Plaza	500 Railroad Avenue	no	City of Pittsburg	3/15/12	routine	Pervious pavement and bioretention planters	Proper O&M	none	none

[39] Indicate "YES" if the facility was installed within the reporting period, or "NO" if installed during a previous fiscal year.
[40] State the responsible operator for installed stormwater treatment systems and HM controls.
[41] State the type of inspection (e.g., 45-day, routine or scheduled, follow-up, etc.).
[42] State the type(s) of treatment systems inspected (e.g., bioretention facility, flow-through planter, infiltration basin, etc…) and the type(s) of HM controls inspected, and indicate whether the treatment system is an onsite, joint, or offsite system.
[43] State the inspection findings or results (e.g., proper installation, improper installation, proper O&M, immediate maintenance needed, etc.).
[44] State the enforcement action(s) taken, if any, as appropriate and consistent with your municipality's Enforcement Response Plan.

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

Reporting Period – December 1, 2011 – June 30, 2012

Project Name & No.	Permittee	Address	Application Submittal Date[45]	Status[46]	Description[47]	Site Total Acreage	Density DU/Acre	Density FAR	Special Project Category[48]	LID Treatment Reduction Credit Available[49]	List of LID Stormwater Treatment Systems[50]	List of Non-LID Stormwater Treatment Systems[51]
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

[45] Date that a planning application for the Special Project was submitted. If a planning application has not been submitted, include a projected application date.
[46] 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.
[47] Type of project (commercial, mixed-use, residential), number of floors, number of units, type of parking, and other relevant information.
[48] For each applicable Special Project Category, list the specific criteria applied to determine applicability. For each non-applicable Special Project Category, indicate n/a.
[49] 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.
[50]: 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.
[51] List all non-LID stormwater treatment systems proposed. For each type of non-LID treatment system, indicate: (1) the percentage of the total amount of runoff identified in Provision C.3.d. for the Special Project's drainage area, and (2) whether the treatment system either meets minimum design criteria published by a government agency or received certification issued by a government agency, and reference the applicable criteria or certification.

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

Program Highlights

Provide background information, highlights, trends, etc.

1) The City's database continues to be updated to reflect newly constructed businesses and businesses with a new use, and businesses that are no longer in existence. This database is cross referenced with the City's main Business License database, which is maintained by our Finance Department. The City of Pittsburg contracts with Delta Diablo Sanitation District to conduct commercial and industrial inspections on behalf of the City. A total of 60 businesses were inspected this fiscal year, to include 11 sites for initial inspection, 9 priority sites, 39 routine and 1 call out (response to an alleged discharge by Dow Chemical's sandblasting activities. Delta Diablo and Dow inspection staff investigated area, but there was no evidence of discharge. City to monitor site and take enforcement actions as appropriate.)

2) At the beginning of each fiscal year, City staff discuss with the Delta Diablo Sanitation District inspector, which businesses have recently been added, and which businesses the City prioritizes for inspection within the fiscal year. In addition, the City of Pittsburg has requested call out inspections for suspicious sites, and has received inspection reports detailing their findings.

3) Training for the Delta Diablo inspectors was provided by the Contra Costa Clean Water Program staff.

4) City staff participated on the Contra Costa Clean Water Program's Municipal Operations Committee during this reporting year.

Refer to the C.4. Industrial and Commercial Site Controls section of the CCCWP's FY 10-11 Annual Report for a description of activities of the countywide program and/or the BASMAA Municipal Operations Committee.

C.4.b.i. ► Business Inspection Plan

Do you have a Business Inspection Plan?	[x] Yes	[ ] No

If No, explain:

C.4.b.iii.(1) ► Potential Facilities List

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

NOTICE OF INTENT FILERS

ANTIOCH BUILDING MATERIALS
BNSF RAILWAY PITTSBURG
CALPINE DELTA ENERGY CORP
CALPINE CORP LOS MEDANOS ENERGY
CONTRA COSTA WASTE SERVICES RE
DOW CHEMICAL COMPANY
FERNANDES AUTO WRECKERS
GENON DELTA, LLC
GWF POWER SYSTEMS EAST 3RD ST.
GWF POWER SYSTEMS SITE -1
GWF POWER SYSTEMS SITE-2
GEF POWER SYSTEMS SITE-5
HASA CHEMICAL
K2 PIURE SOLUTIONS
KOCH CARBON LLC
MAINTENANCE TRANS YD
NU STAR LOGISTICS
PRAXAIR
SIGNODE WESTERN OPERATIONS
TESORO PITTSBURG TERMINAL
TRENCH PLATE RENTAL
USS-POSCO INDUSTRIES/USP

AUTO DISMANTLERS

ALL BAY VEHICLE DONATION
EAST COUNTY TOW

VEHICLE SERVICE FACILITIES (GENERAL) OIL CHANGE SHOPS, AUTO BODY SHOPS W/ OR W/O WASHPADS FLEET OPERATIONS RETAIL CAR WASHES

100% HARLEYS
ANTIOCH ALLOY, INC. DBA PACIFIC R
AUTO SMOG & REPAIR STATION
AUTOMOTIVE SPECIALISTS
ARCO AM/PM (CAR WASH)
BEN TOW
BIG O TIRES #11
CASTLE AUTO BODY AND PAINT
CERTIFIED MOBILE AUTO BODY
CHEVRON FOOD MART (CAR WASH) #2104
DAVID AND SONS AUTO REPAIR
DELTA MUFFLER
DELUXE AUTOMOTIVE
DREAM CREATIONS
DIABLO FORD
EL'S SMOG LLC.
EXPRESS SMOG TEST ONLY
FERNANDES TOWING
M. FERNANDES AUTO TOW & STORAGE
FONSECA AUTO REPAIR
FRANK DEROSA'S AUTO BODY
GOLDEN STATE TOWING
GOMEZ AUTO BODY
HARLEY DAVIDSON MOTORCYCLE SHOP
HERNANDEZ COLLISION AND TOWING, INC.
HONDA PRO AUTOMOTIVE
JOE'S SMOG TEST ONLY
JOHN STANLEY AUTO BODY
JORGE YANEZ, JR.
K&S TOWING
LOBAS AUTO REPAIR
MIKE ROSE'S AUTO BODY
OIL CHANGERS-IV #401
PRAMROS AUTO AND FORKLIFT
PROFESSIONAL AUTO DETAIL
QUALITY TUNE UP SHOP #31
RECO'S RENCHES
R&R AUTO BODY
SUPERIOR CAR WASH, INC.
TEPA AUTO BODY
TRED SHED
UNIVERSAL AUTO REPAIR
WALMART TIRE & LUBE EXPRESS
WINTER CHEVROLET
WINTER HONDA

FLORES FOREIGN AND DOMESTIC AUTO REPAIR

JESS ENTERPRISES

FOOD SERVICE FACILITIES FAST FOOD RESTAURANTS FULL SERVICE RESTAURANTS EMBEDDED FOOD SERVICES (cafeteria, deli, etc.) GROCERY STORES

7-ELEVEN STORE 2232
7-ELEVEN STORE 33374A
ABDUL'S MARKET
ALLSTAR TAMALES AND DELI
AL'S DONUTS
AM ICE CREAM
ANGELO'S PIZZA AND WINGS
BABY NUTRITIONAL CARE #10
BASKIN ROBBINS
BEST DONUTS & ICE CREAM
BIERRERIA EL PUENTE
BIG MOP MARKET
BURGER KING #2505
BURGER KING #6841
CARNITAS TIJUANAS
CARL'S JR.
CHEESE SETAK SHOP, INC
CHILIS
CHINATOWN CHINESE FOODS
CHIPOTLE
CHURCH'S CHICKEN
COTO'S MOTHER BABY FOOD CENTERS
COUNTRY WAFFLES
DAD'S BBQ
DELTA VIEW GOLF FOOD & BEVERAGE
DEPENDABLE FOODS
DOMINO'S PIZZA (HARBOR ST)
DOMINOS PIZZA (RAILROAD AVE)
DOCKSIDE MARKET
DON PEPE'S MEXICAN MARKET
DOS CUNADOS MARKET
E & G CHINESE CUISINE
EJ PHAIR BREWERY
EL CHICO
EL HUASTECO RESTAURANT
EL POLLO LOCO
EL SALVADORENO
ELKS LODGE
EZ STOP FOOD MARKET
FAMILY MARKET
FOODS CO. #764
TAQUERIA LAS PALMAS
FRESH DONUTS
GOLDEN STAR MARKET
ICE CREAM FUN PROMOTIONS
IHOP #1713
INDIAN TASTE & CATERING
IN-N-OUT BURGER #168
JACK IN THE BOX #510
JADE HOUSE
JACKSON'S CATERING
JAMBA JUICE
KENTUCKY FRIED CHICKEN #275
LA AURORA MARKET
LA HACIENDA
LA PINATA
LA RAZA MARKET
LA SUPERIOR PITTSBURG
LA VERANDA
LAS FUENTES TAQUERIA Y MARISCOS
LAS PANCHITAS
LITTLE CESAR'S PIZZA
LITTLE J'S
LOVERIDGE SHELL FOOD MARKET
LUMPY'S DINER
LUPITA'S MEXICAN RESTAURANT
LUTONG BAHAY
MCDONALD'S #17529 dbi WALMART
MCDONALD'S #8
MEHRAN RESTAURANT
MI PUEBLO
MI SALVADOR RESTAURANTE

DASS SWEETS & CATERING
DEL TACO #886
NANA'S PLACE
NATIONS GIANT HAMBURGERS #12
NEW MECA RESTAURANT
NEW YORK PIZZA PLUS
OLIVE GARDEN #1341
ORIENTAL FOOD & GIFT MART
OUTBACK STEAKHOUSE
PALACE OF FINE FOODS
PANDA EXPRESS
PAPA MURPHY'S PIZZA
PARKSIDE MARKET
PINEDA'S
PITTSBURG LIQUOR & DELI
PIZZA GUYS
PLAN B (A TASTE OF SOUL)
POPEYE'S CHICKEN & BISCUITS
PRECIOUS AFRICAN FOOD STORE
PREMI EMPORIUM
QUIZNOS #12279
RALEY'S SUPERMARKET #335
RAMAR FOODS INTERNATIONAL (DAIRY PLANT)
RAMAR FOODS INTERNATIONAL (MEAT PACKING PLANT)
RAMAR INTERNATIONAL FOODS
RED LOBSTER #653
RESTAURANTE MI SALVADOR/PUPUSERIA Y MARISCOS
REYNITA RESTAURANT
ROUND TABLE PIZZA (BUCHANAN RD)
ISLAND PACIFIC SUPERMARKET
JACK IN THE BOX #4343
SMALL WORLD DELI & CAFÉ
STARBUCKS COFFEE #6914
STEELTOWN COFFEE AND TEA
SUBWAY SANDWICHES & SALADS
SUBWAY #5898
SUBWAY #29318
SUBWAY # 42541
SUPER TACO
TACO BELL #4617
TACO BELL/ PIZZA HUT EXPRESS 21343
T A J MAHAL SUPER STORE
TAQUERIA LOS REYES
THE CHEESE STEAK SHOP
TOGOS EATERY
VIVA MEXICO GRILL AND CANTINA
WAH SING CHINESE RESTAURANT
WENDYS
WINCO FOODS
WING STOP

RETAIL GAS OUTLETS

ARCO AM/PM
CHEVRON
EAGLE GAS
GOLDEN STAR SERVICE STATION
PACIFIC GAS MARKET
PITTSBURG 76
PITTSBURG CHEVRON
Mom's Donut & Ice Cream MOM'S DONUT & ICE CREAM
M M ICE CREAM
RAMOS OIL COMPANY
REDWOOD COAST PETROLEUM
USA GASOLINE #127

PLANT NURSERIES

THE HOME DEPOT #644

GOLF COURSES

WEDGEWOOD

MANUFACTURING

BISHOP WISECARVER
BIO ZONE LABORATORIES, INC.
ROLL TECHNOLOGY WEST
VIKING PROCESSING CORPORATION
DELTA MACHINE AND FABRICATION

COMMUNITY/COMMERCIAL POOLS

SULLENBERGER
AMBROSE

OTHER

ALL PURE POOL SERVICE
ANGELICA HEALTHCARE (LAUNDROMAT)
BESTCO COMMERCIAL CLEANING SERVICE
E - Z STOP FOOD STORE LAUNDROMAT
G & K SERVICES (STORAGE)
HOSPITAL SYSTEMS, INC.
J. B. C. RECYCLING
LA MARINA LAUNDRY MAT
LESLIE'S POOLMART, INC. DBA #152
MT. DIABLO LANDSCAPE CENTERS

ROUND TABLE PIZZA (BAILEY)	PITTSBURG SHELL GAS STATION	PACIFIC COAST GEN ENGINEERING INC.
SAFEWAY FOOD & DRUG #1215-10	PITTSBURG SHELL GAS STATION	PET SUITES INN
OTHER		
PLAN A BUILDING SUPPLIES		
QG LLC		
RAILROAD CLEANERS		
READY PRINT		
STEWART HEATING & AIR, INC.		
WALNUT INDUSTRIAL		
WATER TREATMENT PLANT		

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

List below or attach your list of facilities scheduled for inspection during the current fiscal year.

PROPOSED FACILTIES FOR FY 2012/2013	DELTA VIEW GOLF FOOD & BEVERAGE	LUTONG BAHAY
100% HARLEYS	DELUXE AUTOMOTIVE	MT. DIABLO LANDSCAPE CENTERS
7-ELEVEN STORE 2232	DIABLO FORD	NEW YORK PIZZA PLUS
ABDUL'S MARKET	DREAM CREATIONS	ORIENTAL FOOD & GIFT MART
ALL BAY VEHICLE DONATION	EAGLE GAS	OUTBACK STEAKHOUSE
AM ICE CREAM	EAST COUNTY TOW	PACIFIC GAS MARKET
ANTIOCH ALLOY, INC. DBA PACIFIC R	EL'S SMOG LLC.	PALACE OF FINE FOODS
ARCO AM/PM	EXPRESS SMOG TEST ONLY	PAPA MURPHY'S PIZZA
AUTO SMOG & REPAIR STATION	FERNANDES TOWING	PITTSBURG 76
BABY NUTRITIONAL CARE #10	FONSECA AUTO REPAIR	PITTSBURG CHEVRON
BASKIN ROBBINS	GENON DELTA, LLC	STARBUCKS COFFEE #6914
BEST DONUTS & ICE CREAM	GOLDEN STAR SERVICE STATION	SUBWAY #29318
BIERRERIA EL PUENTE	GOLDEN STATE TOWING	SUBWAY # 42541
BIG MOP MARKET	K&S TOWING	SUPER TACO
CHEVRON	K2 PURE SOLUTIONS	T A J MAHAL SUPER STORE
DASS SWEETS & CATERING	LOBAS AUTO REPAIR	TAQUERIA LOS REYES
DELTA MUFFLER	LOVERIDGE SHELL FOOD MARKET	THE CHEESE STEAK SHOP
TOGOS EATERY		

VIVA MEXICO GRILL AND CANTINA
WENDYS
WEDGEWOOD

C.4.c.iii.(1) ►Facility Inspections

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

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

	Number	Percent
Number of businesses inspected	57	
Total number of inspections conducted	57	
Number of violations (excluding verbal warnings)	0	
Sites inspected in violation	0	0
Violations resolved within 10 working days or otherwise deemed resolved in a longer but still timely manner	0	0

Comments:
There were no reported sites inspected in violation for this fiscal year.

C.4.c.iii.(2) ►Frequency and Types/Categories of Violations Observed

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

Type/Category of Violations Observed	Number of Violations
Actual discharge (e.g. active non-stormwater discharge or clear evidence of a recent discharge)	0
Potential discharge and other	0

Comments:
There were no observed violations during this fiscal year.

C.4.c.iii.(2) ►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)[46]	Number of Enforcement Actions Taken	% of Enforcement Actions Taken[47]
Level 1	NA	0	0
Level 2	NA	0	0
Level 3	NA	0	0
Level 4	NA	0	0
Total	**NA**	0	0

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

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

Business Category[48]	Number of Actual Discharge Violations	Number of Potential/Other Discharge Violations
Not applicable this fiscal year	0	0

C.4.c.iii.(4) ►Non-Filers

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

There were no industries identified as non-filers during scheduled inspections during this fiscal year.

C.4.d.iii ►Staff Training Summary

Training Name	Training Dates	Topics Covered	No. of Inspectors in Attendance	Percent of Inspectors in Attendance
Annual Stormwater Inspectors Workshop	June 7, 2012	• Food Service Alternative Products; How to Enforce Local Ordinances for Food Ware (Lynne Scarpa, City of Richmond) • How to Identify Mercury and Copper during Stormwater Inspections (Colleen Henry, Central	3	100

[46] Agencies to list specific enforcement actions as defined in their ERPs.
[47] Percentage calculated as number of each type of enforcement action divided by the total number of enforcement actions.
[48] List your Program's standard business categories.

		San) • Current Stormwater Enforcement Cases in Contra Costa County (Stacy Grassini, Contra Costa District Attorney) • How to Build Rapport with Businesses (Tim Potter, Central San) • Overview of Afternoon Field Trip: Richmond Pick N Pull (Elisa Wilfong, CCCWP) • Guided Tour and Mock Assessment of Richmond Pick N Pull		
CWEA Pretreatment, Pollution Prevention, and Stormwater Annual Conference	2/27 -29/12	• Stormwater BMPs • Inspector training sessions • Outreach	1	33

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

Program Highlights

Provide background information, highlights, trends, etc.

The City Public Works Department continues to inspect our storm drain collection system based on established priority "Zones" within the City that were the most problematic areas requiring more frequent maintenance. In addition, storm drain system inventory are video inspected as funds permit; as the City does not currently own its own video inspection camera equipment and has to contract out this service. Inspection and maintenance activities are tracked by means of a work order database maintained by the Public Works Department.

The City of Pittsburg was also a participant on the Clean Water Program's Municipal Operations sub- committee this reporting year. Refer to the C.5 Illicit Discharge Detection and Elimination section of countywide program's FY 11-12 Annual Report for description of activities at the countywide or regional level.

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

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

Contact	Description	Phone Number
SEE ATTACHED LIST IN THE APPENDIX		

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

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

Description:

City of Pittsburg Public Works , Building, Code Enforcement, and Engineering Staff work collectively to report and / or investigate illicit discharges and alleged discharges by these types of businesses. In addition, persons seeking a business license for these types of businesses are conditioned to obtain the mobile surface cleaning training offered by BASMAA . In addition new applicants seeking project entitlements for businesses that may require surface cleaning are conditioned to either hire a BASMAA Certified Surface Cleaner or have their employees obtain the training themselves. The City does not contract mobile surface cleaners.

The City does not have a dedicated surveillance team to seek out and inspect existing mobile businesses; investigations of existing mobile businesses are usually the result of citizen calls or if City staff witness a discharge during the course of their duties in the field.

Refer to the C.5 Illicit Discharge Detection and Elimination section of the CCCWP's FY 11-12 Annual Report for a description of efforts by CCCWP

and the BASMAA Municipal Operations Committee to address mobile businesses.

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

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

Description:

The City continues to conduct its inspections of the storm drain collection system based on priority "zones" throughout the City. This fiscal year they conducted inspections on 3,860 storm drain structures. Public Works staff routinely clean out trash and debris from the storm drain lines and structures, inspect to see if there are stains in the bottom of the structures, and in the gutter, and then video inspect the pipeline for cracks, misaligned joints, other structural damage, and any other evidence of dumping. Public Works crews are diligent at pursuing the origins of spills and stains in the gutter, and clean up efforts. Two areas of illicit discharge were discovered and cleaned up during their routine maintenance activities. New storm drain decals were also replaced as needed on City storm drain inlets.

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

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

	Number	Percentage
Discharges reported (C.5.f.iii.(1))	7	
Discharges reaching storm drains and/or receiving waters (C.5.f.iii.(2))	4	57%
Discharges resolved in a timely manner (C.5.f.iii.(3))	7	100%

Comments:

Illicit discharges are reported directly to the Public Works Department, who dispatches staff to investigate and staff for clean up. Depending on severity of situation, Engineering and or Building Staff will also be called to investigate as well as Code Enforcement and Police Department. The Public Works Department tracks all such call-outs on their work order database system. The Development Services Department is sent copies of the clean up and is assigned the follow up if warranted. For reported alleged discharges, calls are forwarded to the Development Services Department staff to investigate.

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

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

ADDRESS	DATE / TIME OF COMPLAINT	TYPE OF POLLUTANT / ENFORCEMENT RESPONSE LEVEL	PROBLEM STATUS (POTENTIAL OR ACTUAL DISCHARGE)

4302 Hillview Drive	September 1,2011 / 10:00 am	CONCRETE CUTTING SLURRY/WASH WATER / 3	ACTUAL DISCHARGE INTO GUTTER- HOMEOWNER WASHED RESIDUE FROM BRICK GROUTING WORK INTO CURB AND GUTTER.
3590 Railroad Avenue	September 19,2011 / 1:45pm	WASH WATER/ 2	ACTUAL DISCHARGE INTO ADJACENT ALLEY. CAR WASH CATCH BASIN WAS PLUGGED, AND WATER FROM THEIR OPERATIONS FLOWED INTO STREET. BUSINESS WAS GIVEN A RED TAG TO CLOSE IMMEDIATELY UNTIL CLEAN UP WAS COMPLETED. PUBLIC WORKS CREWS CLEANED SITE AND BASIN WITH VACTOR TRUCK.
456 W. 8TH ST.	September 23, 2011 / 3:00 pm	CONCRETE/1	POTENTIAL - CONTRACTOR WASHED OUT CONCRETE FROM TRUCK ONTO GROUND. NO DISCHARGE ONTO STREET OR GUTTER.
4238 Suzanne Drive	November 23,2011/ 9:30am	POOL WATER/ 2	ACTUAL DISCHARGE INTO GUTTER- RESIDENT WAS PUMPING OUT A POOL AND DISCHARGING INTO THE STREET.
4141 Sandra Circle	February 10, 2012/10:30 am	STAGNANT POOL WATER /2	ACTUAL DISCHARGE INT O STORM DRAIN - RESIDENT WAS PUMPING OUT STAGNANT POOL WATER AND DISCHARGING INTO GUTTER.
3714 San Juan Drive	February 23, 2012 /11:20am	WASH WATER /1	RUNOFF FROM BACKYARD ONTO ADJACENT STREET AND GUTTER - RESIDENT CLAIMED TO HAVE PLUMBING PROBLEMS IN GARAGE, SO WASHING MACHINE WAS SET UP TO DRAIN ONTO BACK YARD.
819 E Santa Fe Avenue	April 19, 2012/12:45 pm	SEWAGE / 3	ACTUAL DISCHARGE - RESIDENT WAS PUMPING SEWAGE FROM BASEMENT AND DISCHARGING ONTO PROPERTY GROUNDS , WHICH FLOWED ONTO THE STREET AND INTO STORM DRAIN CATCH BASIN.

All of the discharges were addressed and resolved within the required 10 business day window. 3590 Railroad Avenue, (Car Wash Business) may require structural changes to the business site. City staff periodically watches the site for repeat discharge.

Section 6 – Provision C.6 Construction Site Controls

C.6.e.iii.1.a, b, c ►Site/Inspection Totals

Number of sites disturbing < 1 acre of soil requiring storm water runoff quality inspection (i.e. High Priority) (C.6.e.iii.1.a)	Number of sites disturbing ≥ 1 acre of soil (C.6.e.iii.1.b)	Total number of storm water runoff quality inspections conducted (C.6.e.iii.1.c)
0	2	28

Comments:
There were 28 other inspections conducted at sites that were not high priority sites and were less than one acre.

C.6.e.iii.1.d ►Construction Activities Storm Water Violations

BMP Category	Number of Violations[49]	% of Total Violations[50]
Erosion Control	0	0
Run-on and Run-off Control	0	0
Sediment Control	0	0
Active Treatment Systems	0	0
Good Site Management	0	0
Non Stormwater Management	0	0
Total	**0**	**100%**

[49] Count one violation in a category for each site and inspection regardless of how many violations/problems occurred in the BMP category.
[50] Percentage calculated as number of violations in each category divided by total number of violations in all six categories.

C.6.e.iii.1.e ►Construction Related Storm Water Enforcement Actions

	Enforcement Action (as listed in ERP)[51]	Number Enforcement Actions Taken	% Enforcement Actions Taken[52]
Level 1	In both cases verbal warnings were given to the contractor to correct site BMPs, both occurrences involved required corrections to site BMPs for Sediment Control. Both events occurred at the same project site and required the contractor to sweep the local street of tracked mud. These events were corrected within the 10 day timeframe as specified in the City's Enforcement Response Plan.	2	100
Level 2			
Level 3			
Level 4			
Total			**100%**

C.6.e.iii.1.f, g ►Illicit Discharges

	Number
Number of illicit discharges, actual and those inferred through evidence (C.6.e.iii.1.f)	2
Number of sites with discharges, actual and those inferred through evidence (C.6.e.iii.1.g)	1

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

C.6.e.iii.1.h, i ►Violation Correction Times

	Number	Percent
Violations fully corrected within 10 business days after violations are discovered or otherwise considered corrected in a timely period (C.6.e.iii.1.h)	0	%[53]
Violations not fully corrected within 30 days after violations are discovered (C.6.e.iii.1.i)	0	%[54]
Total number of violations for the reporting year[55]	0	100%
Comments: In accordance with the City's Enforcement Response Plan, Level 1 enforcement actions such as verbal warnings are not considered violations.		

C.6.e.iii.(2) ►Evaluation of Inspection Data

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

Description: Sediment Control seems to always be the recurring area that needs attention during the course of construction for the majority of the construction projects.

C.6.e.iii.(2) ►Evaluation of Inspection Program Effectiveness

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

Description:

The City will continue to use the construction inspection forms that have been prepared by the Contra Costa Clean Water Program. However, Engineering and Building staff will be trained on how to accurately report their inspections, to add additional project information such as start and stop dates, and also to correctly categorize enforcement level actions. The training will also review the City's enforcement Response Plan with staff and remind them of their obligations for documenting and follow up.

The City's database format has been revised to be consistent with the example table provided in Appendix I. The City also participated in the CCCWP's Development Committee.

Refer to the C.6 Construction Site Control section of the CCCWP's FY 11-12 Annual Report for a description of activities at the countywide or regional level.

[53] 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.
[54] 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.
[55] Total number of violations equals the number of initial enforcement actions (i.e. one violation issued for several problems during an inspection at a site). It does not equal the total number of enforcement actions because one violation issued at a site may have a second enforcement action for the same violation at the next inspection if it is not corrected.

C.6.f ► Staff Training Summary

Training Name	Training Dates	Topics Covered	No. of Inspectors in Attendance	Percent of Inspectors in Attendance
"How to Ensure Compliance with NPDES Construction Inspection Requirements (MRP Provision C.6)"	May 2, 2012	• MRP Provision C.6 Requirements • Construction General Permit Requirements • Construction BMPs • Construction Pollution Prevention for Small Sites • Compiling and Reporting Inspection Data	2	33

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

C.7.b.ii.1 ►Advertising Campaign

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

Summary:

The City participated in the regional campaign (See the Fiscal Year 2011/12 Group Program Annual Report, Section C.7, for a summary of the Trash Campaign conducted by the Program on our behalf) and on a local level. The City created "anti-litter" banners last year to place in the parks and added additional banners this year.

C.7.b.iii.1 ►Pre-Campaign Survey

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

Refer to the CCCWP's Program's Annual Report, Section C.7, for reporting on this provision.

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

X	Survey report attached See the Fiscal Year 2011/12 Group Program Annual Report, Section C.7, for a report summarizing the Pre-Campaign Trash Survey conducted by the Program on our behalf.
X	Reference to regional submittal: The City of Pittsburg participates in the regional survey. See Program Report.

C.7.c ►Media Relations

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

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

Summary:

Local: Website announcements: Native Garden Tour (4/2012); Adopt a Spot (4/2012); Prescription Drug Take Back (4/2012) Green Footprint Festival (5/2012); Bike to Work Day (5/2012)

Reader board posts & City Hall: Native Garden Tour (4-5/2012); Adopt a Spot (4/2012 – present);Creek Clean up (4/2012) Green Footprint Festival (5-6/2012); Bike to Work Day (5/2012)

E-news blasts were conducted to promote City Creek clean up, Prescription Drug Take Back (4/2012); Bike to Work Day (5/2012)

Water bill inserts were also mailed to 17,000 households: Adopt a Spot (4/2012); Creek Clean up (4/2012) Green Footprint Festival (5/2012)

New York Landing Pittsburg City Journal (Blog ~ 6,000-10,000 hits monthly) http://vnylcitygov.blogspot.com/ Adopt a Spot (5/2012); Bike to Work Day (5/2012); Native Plant Sale & Tour (5/2012); Creek Clean up 4/2012); Prescription Drug Take Back (4/2012)

PDS Newsletter (mailed to all households): Summer Edition released in April 2012: Notice of Creek Clean up, Green Footprint Festival, cooking oil, and Adopt a Spot.

Newspaper: Green Footprint Festival (6/13/2012) - Article

Light pole banners (8' type) are changed out throughout the year promoting a litter free City (July – November), not trashing storm drains with litter, leaves, oil and runoff, and promoting the existence of the Delta at the local storm drain (January – May).

The following separate report developed by BASMAA summarizes media relations efforts conducted during FY 11-12:

- BASMAA Media Relations Final Report FY 11-12

This report and any other media relations efforts conducted countywide or regionally are included within the C.7 Public Information and Outreach Section of CCCWP's FY 11-12 Annual Report.

C.7.d ►Stormwater Point of Contact

Summary of any changes made during FY 10-11:

No Change. The main point of contact for the City of Pittsburg program is:

Jolan Longway; 925-252-4803; jlongway@ci.pittsburg.ca.us

The City of Pittsburg has this information posted on its storm water website at well as part of the reporting procedures within the City.

C.7.e ►Public Outreach Events

Describe general approach to event selection. Provide a list of outreach materials and giveaways distributed.

Use the following table for reporting and evaluating public outreach events

Event Details	**Description** (messages, audience)	**Evaluation of Effectiveness**
Provide event name, date, and location. Indicate if event is local, countywide or regional.	Identify type of event (e.g., school fair, farmers market etc.), type of audience (school children, gardeners, homeowners etc.) and outreach messages (e.g., Enviroscape presentation, pesticides, stormwater awareness)	Provide general staff feedback on the event (e.g., success at reaching a broad spectrum of the community, well attended, good opportunity to talk to gardeners etc.). Provide other details such as: • Estimated overall attendance at the event. • Number of people that visited the

		booth, comparison with previous years • Number of brochures and giveaways distributed • Results of any spot surveys conducted
Local (&countywide): The City of Pittsburg sponsored the Bringing Back the Natives Garden Tour at the $1,000 level. The Tour took place on Sunday, May 6, 2012. The Tour showcased 41 gardens in Alameda and Contra Costa counties with 60 talks and demonstrations.	The Bringing Back the Natives Garden Tour is a free, self-guided event that showcases pesticide-free, water conserving gardens that provide habitat for wildlife and contain 50% or more native plants. This spring the Tour was honored with DPR's IPM Innovator award for Education and Outreach.	• 41 gardens were showcased on the Tour • 60 talks and demonstrations were given • 200 volunteers made the tour possible • there were 6,095 registrants • $11,000 worth of natives sold through the Native Plant Sale Extravaganza • 14,257 garden visits were made • 744,000 page requests made on the garden tour website in the last year • 24 Pittsburg residents registered 98% of those filling out the evaluations rated the tour "Excellent" or "Very Good." This year 62% of the registrants were repeat visitors, and 38% were attending the tour for the first time. 75% of registrants who had attended a previous Bringing Back the Natives Garden Tour, and who filled out the evaluation form, said they had changed their gardening practices because of their participation in the Bringing Back the Natives Garden Tour.
Local: The City of Pittsburg hosted a new festival event; "Green Footprint Festival". The event took place on June 14, 2012, at the City's children's park (Small World Park), the day after school was finished. It hosted the "green" theme with information from solar to composting to recycling and litter reduction.	The festival was for families. The park is a closed park and families do pay an entrance fee which was discounted for the festival. The event hosted a variety of vendors which were asked to have a kid friendly activity. The City's booth supported watershed activities with a prize wheel asking questions about composting and stormwater. STS Academy promoted their butterfly exhibit at the nursery and native plants. US Fish & Wildlife did an exhibit with	Good year!! Over 425 people attended. There was an activities book to visit each booth and there were lines all day of patient people (kids & adults) listening and learning about each subject at the booth. There were many compliments from the participants and vendors – all wanting to return next year. Many felt the venue was of value. Parents with kids listening and having them absorb the experience.

	building a watershed eco system and the proper plants animals and items not appropriate such as fishing and litter. There were 15 vendors present.	
Local: The GREAT Pittsburg Cleanup. This creek clean up is hosted each year in the Spring in conjunction with the national and statewide Keep America and California Clean program which runs March through May.	This is a creek cleanup event. Students and adults form the community (schools and businesses) volunteer for a few hours to clean portions of the creek system. The event was promoted to church groups, businesses, via water bill inserts and the City's e-news, reader boards, blog, and website. The event was April 28th at Central Park cleaning the flood/creek channel.	Great group of motivated volunteers. We had 57 volunteers and they collected over 35 yards of trash and close to 3 yards of recyclables – 5 truckloads. This portion of creek has not been cleaned 3 years. Illegal dumping happens in the area.
Local: Marina Clean Green Boating - Continued	The Marina continues to educate boaters about not spilling fuel and oil on the water. They provide spill pads and fuel donuts to prevent spills on the Delta.	The Marina hands out spill pads continually and has a facility to accept oil, oil filters and batteries from tenants. The Marina handed out 35 Clean and Green boating bags as well as other materials after the individual signs a pledge card. The Marina also passes out tide books with green marina information, tips, and service locations.
Local: Anti-Litter Banners posted in local parks.	The City created banners to be posted at the entrances of four local athletic fields. The banners state "Please respect our local parks by picking up your trash." It also has the slogan Litter Travel but can Stop with you. The banners are English/Spanish and the City is placing additional trash units. We added banners to four more sites.	City staff has been pleased with the notification to residents and visitors. They are bright and noticeable which they believe has improved litter conditions in the parks.
Local: Promotores Verdes	This one day train the trainer workshop "Living Green", which was conducted completely in Spanish, took place Saturday March 17, 2012 at the new La Clinica site located in Concord. La Clinica is a community clinic that provides health services to the general community of Pittsburg, Antioch, Concord and other areas in Contra Costa County. Last year the workshop was held in Pittsburg. The goal	Pittsburg had 18 people attend the training class. It covered Household Toxic Waste disposal, including used motor oil and filters, general recycling, disposal of cooking oil and energy as well as a discussion about storm water pollution prevention and water conservation and the importance of keeping our creeks, rivers and bay clean. The City has more material in Spanish than any other City in the area to use and help with the training. The

	of this training was to provide information on environmental issues and availability of local resources to this small, but strong, group of community promoters.	Promotores then share this information back within the community to promote proper behavior.
Local: Neighborhood Improvement Meetings	Community meetings to discuss City projects, issues, department efforts. Presentations by various staff members. Environmental Affairs discusses recycling litter, NPDES, and all the functions of the department one on one with residents to supply literature, information on clean ups, and other items.	The City conducted 8 neighborhood meetings in the Fall 2011 and 3 in the Spring of 2012 in parks and various buildings. Over all we probably reached over 200 residents. It also provided a time to ask any staff members questions about programs.
Local: Earth Month at the Library	Earth Month at the Library allowed the City to have various speakers have activities with families, to do presentations on subjects such as alternative transportation (cc511.org), water, watershed, energy, etc. Some speakers also participated in reading to kids with books selected from the Green Zone.	Program very successful and the library asked to repeat the program next year. Program attracted additional traffic to the library to learn, listen and participate in the various programs. They estimate that over 600 residents participated in the program.
Local/Regional: Bike Outreach – Litter Campaign	The Program has a Bike Billboard to go to various events and discuss litter. (See Program notes)	The Bike Tour went to the Pittsburg Farmers Market – Old Town Pittsburg - on February 12 from 11 am – 3 pm.

C.7.f. ►Watershed Stewardship Collaborative Efforts

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

Evaluate effectiveness by describing the following:

- Efforts undertaken
- Major accomplishments

Summary:

Regional and countywide efforts noted in the Clean Water Program's Annual Report, section c7, on the various activities and participation in the CC Watershed Stewardship Collaborative Forum.

Local: The City of Pittsburg is a contributing member of the California Product Stewardship Council, Native Plant Tour, and participating on the Bay Area Waterways Regional Group.

Local: The Partners for the Watershed is an active group of government, academic, and industry members that implement education and stewardship activities within the Kirker Creek Watershed. The Kirker Creek Watershed Management Plan, a community based document published in 2004, identifies a series of projects and programs that promote project-based watershed education and community stewardship activities within the watershed. Partners for the Watershed have been integral in the implementation of these activities. The Partners meet regularly to work on projects and activities within the watershed such as creek clean ups, monitoring and education programs. This last year due to issues with the vessel the program was using to transport students on the Delta, the Partners have decided to revamp the program and education components using the Dow Wetlands and the canvas and classroom. The Partners are excited and have met multiple times including at the site to revamp the curriculum and engage the wetlands special characteristics into the program.

The Delta Waters Education Program is an opportunity to educate students on: the history of the Delta; the geography of the Delta within the California water system; what a watershed is and the function of a wetland; perform water quality testing; understand their role in the food chain; learn about native and non-native species and plants with a walking tour; and learn about the human impact on the environment (pollution, trash, etc). The uniqueness of this program is the ability to have the 3.5 hour classroom out at the Dow Wetland providing local students an opportunity to experience hands on activities within the wetlands which is unique in this area. The program is presently being created to meet 4th grade state curriculum guidelines. Local high school and college students are assistants and mentors with the scientist at the various activity stations since it has been demonstrated that younger students enjoy working and learning from these individuals. With this new venue and platform, more students will be able to attend due to cost savings from the vessel used in the previous program. In addition, this venue will also allow for the adaption to modify the program for high school and college students.

Partners for the Watershed continues to meet monthly to coordinate the Delta Waters Education Program as well as other clean up and education efforts.

C.7.g. ►Citizen Involvement Events

List the types of events conducted (e.g., creek clean up, storm drain inlet marking, native gardening etc.). Use the following table for reporting and evaluating citizen involvement events.

Event Details	Description	Evaluation of effectiveness
Provide event name, date, and location. Indicate if event is local, countywide or regional	Describe activity (e.g., creek clean-up, storm drain marking etc.)	Provide general staff feedback on the event. Provide other evaluation details such as: • Number of participants. Any change in participation from previous years. • Distance of creek or water body cleaned • Quantity of trash/recyclables collected (weight or volume). • Number of inlets marked. • Data trends
Local: The GREAT Pittsburg Cleanup. This creek clean up is hosted each year in the Spring in conjunction with the national and statewide Keep America and California Clean program which runs March through May.	This is a creek cleanup event. Students and adults form the community (schools and businesses) volunteer for a few hours to clean portions of the creek system. The event was promoted to church groups, businesses, via water bill inserts and the City's e-news and website. The event was April 28th at Central Park cleaning the flood/creek channel.	Great group of motivated volunteers. We had 57 volunteers and they collected over 35 yards of trash and close to 3 yards of recyclables – 5 truckloads. This portion of creek has not been cleaned 3 years. Illegal dumping happens in the area. The volunteers asked many questions about the reasoning for the dumping. Good dialog.
Local: Water Quality Monitoring / Watershed Invasive Removal– Los Medanos College Chem Lab Students	A professor at the local college has his Chem Lab students participate in local watershed events. The students participated in the Coastal Cleanup Event by removing invasive plants from the waterways. In addition, they did some water quality sampling within the creek.	Each year they work on various projects required or needed in the local watershed. They will do standard test with equipment from the college (pH, turbidity, etc.) however, this year assistance with invasive removal at the wetlands was needed and their assistance improved the impaired body of water.
Local: Adopt-a-Spot Program	The City created a local Adopt-a-Spot program as a program for the Neighborhood Improvement Team. It is a beautification effort with a strong anti-litter component, hand weeding areas, and cleaning storm drains or debris.	The City has actively promoted for the first time due some funding availability. A logo has been created and incorporated into signage, bags and gloves for volunteers. The City has created guidelines and requirements for participation and posted on its websites. Promotion to churches, blogs, e-news blasts,

		etc has resulted in 6 locations being adopted and 2 pending.
Local: Compost Classes	The City participates in regional composting classes offered free to residents. The classes discuss the means to create compost and the beneficial uses of compost in place of fertilizers.	A total of 22 Pittsburg residents attended classes in 2011/2012.
Local: Promotores Verdes	This one day train the trainer workshop "Living Green", which was conducted completely in Spanish, took place Saturday March 17, 2012. See C.7.e for more details.	Pittsburg had 18 people attend the training class. It covered various topics and engaged the trainers in concepts of a clean and healthy watershed. The Spanish materials provided by the City were great resources.

C.7.h. ►School-Age Children Outreach

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

Program Details	Focus & Short Description	Number of Students/Teachers reached	Evaluation of Effectiveness
Provide the following information: Name Grade or level (elementary/ middle/ high)	Brief description, messages, methods of outreach used	Provide number or participants	Provide agency staff feedback. Report any other evaluation methods used (quiz, teacher feedback etc.). Attach evaluation summary if applicable.
Regional: Countywide efforts noted in Program's FY 11/12 Annual Report.	Regional support for Kids for the Bay, athlete and school age outreach by contractor, and the Mr. Funnelhead program. See program report.	See Program Report.	See Program Report.
Kids For the Bay	Classroom and hands-on activities for students to learn about the local Watershed.	Two teachers and 45 third grade students.	A full summary report is included as an attachment of the student activities, their reports and the teacher's evaluations.

Delta Waters Education Program	Continued a special hands-on education experience in the local watershed – Dow Wetlands Preserve. See description in section C.7.f.	Received grant funding to coordinate new program and equipment.	The workbook and teachers guide are being modified. A trial run with students (10 and staff to review materials revealed some changes and additions that need to be made in preparation for the classes to attend this Fall) was modified slightly with the navigation station eliminated but this allowed more time for the other stations and hands-on learning activities. Students and teachers engaged and interactive during sessions.
Local: Anti-Litter Banners posted in local parks.	The City created banners to be posted at the entrances of four local athletic fields that are used by various adult and youth soccer and baseball leagues. The banners states "Please respect our local parks by picking up your trash." It also has the slogan Litter Travel but can Stop with you. The banners are English/Spanish and the City is placing additional trash units.	These parks are reserved weekly by residents and school age children for baseball and soccer.	Staff has been pleased with the results indicating there is less trash to be picked up in these heavily used parks. More banners will be ordered for the remaining parks.

Section 8 - Provision C.8 Water Quality Monitoring

C.8 ►Water Quality Monitoring

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

Summary:

During FY 11-12, we contributed through the CCCWP to the BASMAA Regional Monitoring Coalition (RMC). In addition, we contributed financially to the Regional Monitoring Program for Water Quality in the San Francisco Estuary (RMP) and were represented at RMP committees and work groups. For additional information on monitoring activities conducted by the CCCWP, BASMAA RMC and the RMP, see the C.8 Water Quality Monitoring section of the CCCWP's FY 11-12 Annual Report.

Section 9 – Provision C.9 Pesticides Toxicity Controls

C.9.b ►Implement IPM Policy or Ordinance

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

Trends in Quantities and Types of Pesticides Used[56]

Pesticide Category and Specific Pesticide Used	Amount[57]				
	FY 09-10	FY 10-11	FY 11-12	FY 12-13	FY 13-14
Organophosphates			Na		
Product or Pesticide Type A			0		
Product or Pesticide Type B			0		
Pyrethroids			210 (Foaming Wasp & Hornet Killer EPA number 9688-233) spot treatment only when there was wasp hazard in children's play areas in City parks		
Product or Pesticide Type X					
Product or Pesticide Type Y					
Carbaryl			0		
Fipronil			0		

[56] Includes all municipal structural and landscape pesticide usage by employees and contractors.
[57] Weight or volume of the product or preferably its active ingredient, using same units for the product each year.

C.9.c ►Train Municipal Employees

Enter the number of employees that applied or used pesticides (including herbicides) within the scope of their duties this reporting year.	24
Enter the number of these employees who received training on your IPM policy and IPM standard operating procedures within the last 3 years.	24
Enter the percentage of municipal employees who apply pesticides who have received training in the IPM policy and IPM standard operating procedures within the last three years.	100

C.9.d ►Require Contractors to Implement IPM

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

If yes, attach one of the following:

x	Contract specifications that require adherence to your IPM policy and standard operating procedures, OR
x	Copy(ies) of the contractors' IPM certification(s) or equivalent, OR
	Equivalent documentation.

If **Not attached**, explain:

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

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

Summary:

During FY 11-12, we participated in regulatory processes related to pesticides through contributions to the CCCWP, BASMAA and CASQA. For additional information, see the Regional Pollutants of Concern Report submitted by BASMAA on behalf of all MRP Permittees.

C.9.f ►Interface with County Agricultural Commissioners

Did your municipal staff observe any improper pesticide usage or evidence of improper usage (e.g., pesticides in storm drain systems, along street curbs, or in receiving waters) during this fiscal year?		**Yes**	x	**No**

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

No violations were reported.

C.9.h.ii ►Public Outreach: Point of Purchase

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

Summary:

Regional: See C.9 Pesticides Toxicity Control section of the Program's FY 2011-2012 Report for information and point of purchase public outreach conducted countywide and regionally.

Countywide effort and local support: Our Water Our World; Bay Friendly Landscape Maintenance Coalition

Local Effort: Supported 'Bring Back the Natives" Tour to encourage residents to learn about native plants and other IPM practices presented during tour visits and in the tour guide.

Local Effort: The City revamped its storm water website pages and added a section on Safe Pesticides/Insecticides promoting Our Water Our World as well as beneficial bugs, composting and grasscycling. There is also added information on Native and Invasive Plant, What Can I do with information on mercury, and liter with links to recent articles.

C.9.h.vi ►Public Outreach: Pest Control Operators

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

Summary:

See the C.9 Pesticides Toxicity Control section of CCCWP's FY 11-12 Annual Report for a summary of our participation in and contributions towards countywide and regional public outreach to pest control operators and landscapers to reduce pesticide use.

Regional: See C.9 Pesticides Toxicity Control section of the Programs FY 2011-2012 Report for outreach to pest control operators and landscapers to reduce pesticide use.

The City participates in a regional outreach to Pest Control Operators and encourages them to become green certified. City has contracted with a Green Pro Certified contractor. City has a landscaper section on website.

City staff has also become a certified IPM Operator through the Bay Friendly Landscaping program.

Response to Water Board Staff Comments on Section 9, Provision C.9, of FY 10-11 Annual Report

Use this area to respond to any Water Board staff comments on Section 9 of your FY 10-11 Annual Report, and refer to any required submittals that are attached.

In response to the Board's February 10, 2011 response letter regarding NPDES Permit Provision C.9, the City has attached: 1) A copy of Resolution 11-11676, Establishing a Citywide Integrated Pest Management Policy, 2) Revised Integrated Pest Management Plan and Policy, 3) A copy of the City's current (Structural) IPM contract with McCauley Brothers.

Section 10 - Provision C.10 Trash Load Reduction

C.10.a.i ►Short-Term Trash Loading Reduction Plan

(For FY 10-11 Annual Report only) Provide description of actions/tasks initiated/conducted/completed in developing a Short-Term Trash Loading Reduction Plan (due February 1, 2012).

Description:

Our Short Term Trash Loading Reduction Plan was submitted to the Water Board on February 1, 2012. See the C.10 Trash Load Reduction section of CCCWP's FY 11-12 Annual Report for information on countywide and regional activities conducted on behalf of co-permittees.

C.10.a.ii ►Baseline Trash Load and Trash Load Reduction Tracking Method

(For FY 10-11 Annual Report only) Provide description of actions/tasks initiated/conducted/completed to gather trash loading data and in developing a Baseline Trash Load and Trash Load Reduction Tracking Method (due February 1, 2012).

Description:

The Baseline Trash Load and Trash Load Reduction Tracking Method was submitted to the Water Board on February 1, 2012. See the C.10 Trash Load Reduction section of CCCWP's FY 11-12 Annual Report for information on countywide and regional activities conducted on behalf of co-permittees.

C.10.a.iii ►Minimum Full Trash Capture

(For FY 10-11 Annual Report and Each Annual Report Thereafter) Provide description of actions/tasks initiated/conducted/completed in implementing Minimum Full Trash Capture Devices (due July 1, 2014) within individual jurisdictions. Include information on Full Trash Capture Devices installed under the Bay-area Wide Trash Capture Demonstration Project administered by San Francisco Estuary Partnership and an estimate of the total land area that is planned for treatment by July 1, 2014.

Description:

See the C.10 Trash Load Reduction section of the CCCWP's FY 11-12 Annual Report for information on countywide and regional activities conducted on behalf of co-permittees. The City of Pittsburg is a participant in the Bay-Area Wide Trash Capture Demonstration Project, and purchased 50 lineal feet of Storm Flo trash capture screen devices. The screens are scheduled to be installed in September-October 2012.

C.10.b.iii ►Trash Hot Spot Assessment

(For FY 10-11 Annual Report and Each Annual Report Thereafter) Provide volume of material removed from each Trash Hot Spot cleanup, and the dominant types of trash (e.g., glass, plastics, paper) removed and their sources to the extent possible.

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

Trash Hot Spot	Cleanup Date	Volume of Material Removed	Dominant Type of Trash	Trash Sources (where possible)
Yosemite and Harbor Street	August 26, 2011	80 gallons	Plastic products	Adjacent elementary school
Buchanan Park	August 26, 2011	80 gallons	Plastic products and fast food containers/ wares	Retail stores and fast food restaurants.
Parkside Drive	August 26, 2011	80 gallons	Fast food containers / wares	People tossing wrappers out of their car as they drive by.
Behind Martin Luther King Jr. school	August 26, 2011	60 gallons	Various types of plastic products	Products from households, retail stores, discarded and found items. One homeless person living under tree on creek embankment.

C.10.d ▶ Summary of Trash Reduction Actions and Loads Reduced

Provide a summary of trash load reduction actions (i.e., control measures and best management practices) implemented within your jurisdictional boundaries during the reporting period to achieve a 40% trash load reduction goal by July 1, 2014. For those actions implemented in FY 2011-12, include brief descriptions of levels of implementation and the total trash loads and dominant types of trash removed from each action.

Trash Load Reduction Action	Summary Description of Action Implemented in FY 11-12	Estimated Trash Load Removed in FY 11-12 (Gallons)[58]	Estimated Percent Reduction as of FY 11-12 [58]	Estimated Dominant Types of Trash Removed in FY 11-12
Existing Enhanced Street Sweeping	Street sweeping – The City continues to provide the additional street sweeping in commercial areas that were identified as high trash load generating areas as shown on Figure 2.1: Estimated trash baseline loading rates for geographical areas in the City of Pittsburg.	**581**	**3.5**	**unknown**
Public Education and Outreach Programs	• Kids for the Bay Classroom and hands-on activities for students to learn about the local Watershed. • Green Footprint Festival- held at Small World park, family friendly event that presented information on solar, composting, recycling, and litter. • This year the City launched its Adopt a Spot program, for residents, organizations , and businesses to volunteer with various cleanup efforts. To date two organizations have volunteered.	**796**	**7.7**	**unknown**
Creek/Channel/Shoreline Cleanups	Great Pittsburg Cleanup -occurs at	**7078**	**42.9**	**Various types of**

[58] The estimated load removed and percent reduction in FY 11-12 is consistent with assumptions described in the Trash Load Reduction Tracking Method Technical Report (version 1.0) submitted to the Water Board on February 1, 2012. In the future, load reductions reported in Annual Reports may be adjusted based on revisions to the tracking methodology.

C.10.d ▶ Summary of Trash Reduction Actions and Loads Reduced

Provide a summary of trash load reduction actions (i.e., control measures and best management practices) implemented within your jurisdictional boundaries during the reporting period to achieve a 40% trash load reduction goal by July 1, 2014. For those actions implemented in FY 2011-12, include brief descriptions of levels of implementation and the total trash loads and dominant types of trash removed from each action.

Trash Load Reduction Action	Summary Description of Action Implemented in FY 11-12	Estimated Trash Load Removed in FY 11-12 (Gallons)[58]	Estimated Percent Reduction as of FY 11-12 [58]	Estimated Dominant Types of Trash Removed in FY 11-12
	different locations within the City every year. This year the cleanup occurred in the flood channel alongside the Pittsburg/Antioch Highway. This area is not routinely cleaned due to high volume of traffic requiring extensive traffic control. The large quantity of garbage retrieved was not surprising since the creek had not been cleaned in years, and experiences frequent dumping of various general household garbage, unwanted furniture, appliances, etc.			**large and small scale types of garbage ranging from general household garbage wastes, furniture parts, plastic bags, fast food trash, plastic items, and other miscellaneous items.**
Total Estimated Trash Load Removed (Gallons) in FY 2011-12		**8455**		
Baseline Trash Load Estimate (Gallons)		**16508**		
Total Percentage Reduction in FY 2011-12 (Compared to Baseline Trash Load)		**58.6**		

Section 11 - Provision C.11 Mercury Controls

C.11.a.i ►Mercury Recycling Efforts

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

1) **Promotion:** The Delta Diablo Sanitation District's Household Hazardous Waste Facility serves the communities of Antioch, Bay Point, Bethel Island, Brentwood, Byron, Discovery Bay, Knightsen, Oakley, and Pittsburg and facilitates these efforts on our behalf. In addition, the City continues to distribute brochures on mercury and provides it electronically on its website.

a) The Delta Household Hazardous Waste (HHW) Facility collected 121 lbs of devises and 16, 437 lbs of tubes. Pittsburg's portion is 22.75% based on vehicle traffic. These numbers include waste from three one-day collection events in Oakley (5/12/12), Brentwood (10/1/11) and Discovery Bay (6/16/12). The main facility is open Thursday through Saturday 9am – 4pm and the temporary events are open from 9am – 2pm. Drop off events were also conducted at the retail stores listed below (During their normal working hours):

- Orchard Sup, 2388 Buchanan Road - Antioch, CA 94509
- Ace Hardware, 8900 Brentwood Boulevard, Suite J - Brentwood, CA 94513
- Ace Hardware, 501 Sunset Drive - Antioch, CA 94509
- Ace Hardware, 125 East Leland Road - Pittsburg, CA 94565
- Oakley Ace Hw, 310 4th Street - Oakley, CA 94561
- Orchard Supp, 4873 Lone Tree Way - Antioch, CA 94531

b) The Delta Household Hazardous Waste Facility had been working with some trade organizations, (HVAC and auto) and conducted outreach to HVAC wholesalers in the SF Bay Area to try and make them aware of the new law about proper disposal of mercury thermostats and get them set up with a recycling bin from the Thermostat Recycling Corporation (TRC) if they didn't already have one. During their research for this project they found out that the Department of Toxic Substances Control had just completed a similar outreach campaign a few months earlier, so the direction was to target those wholesalers who still hadn't signed up for a recycling bin. None of those particular businesses (there were only a handful) were in Contra Costa County.
As far as dentists go, the Delta Diablo Sanitation District (DDSD) does not permit all dentists in Antioch, Pittsburg and Bay Point to ensure that they have a mercury amalgam separator and employ best management practices for mercury disposal. DDSD's pretreatment department is in the process of physically inspecting all of the dental offices to make sure they comply.

C.11.a.ii ►Mercury Collection

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

Guidance:
Please refer to the FY 11-12 Countywide Program Annual Report for an estimate of the mass of mercury collected through collection and

recycling efforts in the Countywide Program area.

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

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

Summary

A summary of countywide and regional accomplishments for these sub-provisions are included within the C.11 Mercury Controls section of CCCWP's FY 11-12 Annual Report and/or the BASMAA Regional POC Report.

Section 12 - Provision C.12 PCBs Controls

C.12.a.ii,iii ►Ongoing Training

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

Description:

See the FY 11-12 CCCWP Annual Report for a description of training provided countywide and/or regionally, and report on any local training efforts, if applicable.

C.12.b ►Conduct Pilot Projects to Evaluate Managing PCB-Containing Materials and Wastes during Building Demolition and Renovation Activities
C.12.c ►Pilot Projects to Investigate and Abate On-land Locations with Elevated PCB Concentrations
C.12.d ►Conduct Pilot Projects to Evaluate and Enhance Municipal Sediment Removal and Management Practices
C.12.e ►Conduct Pilot Projects to Evaluate On-Site Stormwater Treatment via Retrofit
C.12.f ►Diversion of Dry Weather and First Flush Flows to POTWs
C.12.g ►Monitor Stormwater PCB Pollutant Loads and Loads Reduced
C.12.h ►Fate and Transport Study of PCBs In Urban Runoff
C.12.i ►Development of a Risk Reduction Program Implemented Throughout the Region

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

Summary

A summary of countywide and regional accomplishments for these sub-provisions are included within the C.12 PCB Controls section of CCCWP's FY 11-12 Annual Report and/or the BASMAA Regional POC Report.

Section 13 - Provision C.13 Copper Controls

C.13.a. iii.(1) ► Legal Authority: Architectural Copper

(For FY 10-11 Annual Report only) Do you have adequate legal authority to prohibit discharge of wastewater to storm drains generated from the installation, cleaning, treating, and washing of the surface of copper architectural features, including copper roofs to storm drains?	x	**Yes**		**No**
If **No**, explain and provide schedule for obtaining authority within 1 year.				

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

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

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

The City of Pittsburg prohibits any non-stormwater discharges into the storm drain system. The City also provides a brochure for Best Management Practices for stormwater pollutants of concern for mercury, copper, and pcbs available to the public in hardcopy form at the permit counter and also on the City's web site. In addition, the City contracts with Delta Diablo Sanitation District for inspection support of our commercial and industrial facilities; this fiscal year, the Stormwater Inspection Training Workshop addressed potential sources of mercury and copper during stormwater inspections.

C.13.b. iii. ► Legal Authority: Pools, Spas, and Fountains

(For FY10-11 Annual Report only) Do you have adequate legal authority to prohibit discharges to storm drains from pools, spas, and fountains that contain copper-based chemicals?		**Yes**		**No**
If **No**, explain and provide schedule for obtaining authority within 1 year:				

C.13.c ►Vehicle Brake Pads

Reported in a separate regional report.

A summary of the CCCWP's participation with the Brake Pad Partnership (BPP) is included within the C.13 Copper Controls section of CCCWP's FY 11-12 Annual Report and/or the BASMAA Regional POC Report.

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

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

Summary

There were no facilities to highlight for copper reduction during this reporting year.

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

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

Summary

A summary of the countywide and/or regional efforts to develop regional studies to reduce copper pollutant impact uncertainties is included within the C.13 Copper Controls section of the CCCWP's FY 11-12 Annual Report and/or BASMAA Regional POC Report.

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

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

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

Summary

A summary of countywide and regional efforts related to the Control Program for PBDEs, Legacy Pesticides and Selenium is included within the C.14 PBDE, Legacy Pesticides and Selenium section of the CCCWP's FY 11-12 Annual Report and/or BASMAA Regional POC Report.

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

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

Is your agency a water purveyor?	X	Yes		No
If **No**, skip to C.15.b.vi.(2):				
If **Yes**, Complete the attached reporting tables or attach your own table with the same information. Provide any clarifying comments below.				
Comments:				

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

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:

Same effort as last fiscal year: The City has promoted water conservation, use of appropriate watering/irrigation practices by adoption of a City Ordinance. In response to Assembly Bill 1881, which mandates water conservation measures for new and rehabilitated landscapes in California, the City Council of the City of Pittsburg adopted provisions from the Regional Landscape Water Conservation Ordinance , amending the City's existing municipal code , Chapter 18.84, Article VII, Landscaping, Irrigation, and Hydroseeding in order to incorporate water efficient landscaping standards and requirements. The municipal code requires that applicants requesting zoning approvals for any residential or commercial project installing new landscaping or rehabilitating 2,500sf or more, submit a landscape project application package prior to commencement of grading. In the application package, the applicant is required to provide water efficient landscape design controllers that utilize daily weather stations, and incorporate design features which minimize runoff from low head drainage, overspray, or other water waste. In addition, applicants are required to provide calculations for their Estimated Total Water Use (ETWU) and Maximum Applied Water Allowance (MAWA).

The City provided outreach for less toxic pest control and landscape outreach by participating in a regional outreach to Pest Control Operators and encourages them to be Green Certified. In addition, the City held a Green Footprint Festival with vendors that provided information and activities for children and parents educating them about alternative methods of pest control, such as beneficial insects, and preventative measures to deter nuisance pests.

Enforcement for landscape irrigation runoff has been monitored by City personnel in the course of their daily duties in the field. In accordance with the Enforcement Response Plan, staff has exercised Level 1 Enforcement by verbally notifying discharges to correct and comply. There have been no instances this reporting period, where Level 2 enforcement was warranted.

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Permittee Name: City of Pittsburg

C.15.b.iii.(1) ►Planned Discharges of the Potable Water System

Site/ Location	Discharge Type	Receiving Waterbody(ies)	Date of Discharge	Duration of Discharge (military time)	Estimated Volume (gallons)	Estimated Flow Rate (gallons/day)	Chlorine Residual (mg/L)	pH (standard units)	Discharge Turbidity[59] (NTU)	Implemented BMPs & Corrective Actions
1322 Isabel Ct.	Planned	Sacramento River	7/1/11	7:15 -7:35	10,472		0.04	7.81	0.209	Dechlorination
2075 Seward Dr.	Planned	Sacramento River	7/1/11	8:00 -8:30	748		0.03	7.74	0.231	Dechlorination
2005 Seward Dr.	Planned	Sacramento River	7/1/11	9:25 -10:40	9,724		0.04	7.86	0.271	Dechlorination
2023 Cardiff Dr.	Planned	Sacramento River	7/1/11	11:15 – 11:35	3,740		0.01	7.88	0.653	Dechlorination
1982 Newport Dr.	Planned	Sacramento River	7/1/11	13:05 – 14:15	15,708	44132	0.04	7.07	2.01	Dechlorination
2041 Edward Ave.	Planned	Sacramento River	7/12/11	10:00 – 10:30	7,480		0.05	7.91	0.843	Dechlorination
831 Cross St.	Planned	Sacramento River	7/12/11	10:40 – 11:20	6,732	14212	0.05	7.87	0.621	Dechlorination
281 Patricia Ave.	Planned	Sacramento River	7/14/11	9:20 – 9:45	4,488		0.04	7.91	0.531	Dechlorination
205 Patricia Ave.	Planned	Sacramento River	7/14/11	9:50 – 10:10	3,740		0.04	7.68	0.332	Dechlorination
251 Benjamin Ave.	Planned	Sacramento River	7/14/11	10:45 – 11:15	2,992	11220	0.03	8.03	0.281	Dechlorination
Newport Dr. & California Ave.	Planned	Sacramento River	7/14/11	7:50 – 8:07	2,992		0.08	7.83	0.464	Dechlorination
2041 Newport Dr.	Planned	Sacramento River	7/14/11	8:25 – 8:40	2,992		0.00	8.14	0.501	Dechlorination
Stone Harbour Dr. & Brighton Dr.	Planned	Sacramento River	7/14/11	10:48 – 11:20	7,480		0.02	7.65	1.47	Dechlorination
Biscay Dr. & Brighton Dr.	Planned	Sacramento River	7/14/11	12:40 – 12:55	4,488		0.02	7.61	3.04	Dechlorination
Stone Harbour Dr & Galway Dr.	Planned	Sacramento River	7/14/11	9:00 – 9:50	7,480		0.01	7.57	0.507	Dechlorination
2084 Galway Dr.	Planned	Sacramento River	7/14/11	10:15 – 10:40	6,732		0.00	7.73	1.81	Dechlorination
Stone Harbour Dr. & Biscay Dr.	Planned	Sacramento River	7/14/11	12:30 – 14:00	10,472	42636	0.02	7.84	0.814	Dechlorination

[59] Monitor the receiving water for turbidity if necessary and feasible. Include data in this column if available.

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Permittee Name: City of Pittsburg

C.15.b.iii.(1) ►Planned Discharges of the Potable Water System

Site/ Location	Discharge Type	Receiving Waterbody(ies)	Date of Discharge	Duration of Discharge (military time)	Estimated Volume (gallons)	Estimated Flow Rate (gallons/day)	Chlorine Residual (mg/L)	pH (standard units)	Discharge Turbidity[59] (NTU)	Implemented BMPs & Corrective Actions
California Ave. & Diane Ave.	Planned	Sacramento River	7/15/11	8:00 – 8:30	3,740		0.05	8.05	0.123	Dechlorination
201 Diane Ave.	Planned	Sacramento River	7/15/11	8:55 – 9:05	2,244		0.05	8.08	0.203	Dechlorination
1049 Plymouth Dr.	Planned	Sacramento River	7/15/11	10:10 – 10:25	2,992		0.06	7.98	0.241	Dechlorination
1905 Seward Dr.	Planned	Sacramento River	7/15/11	10:35 - 11:00	6,732		0.06	7.81	0.311	Dechlorination
1953 Cardiff Dr.	Planned	Sacramento River	7/15/11	11:10 – 11:23	2,992	18700	0.06	7.96	0.271	Dechlorination
3058 Barranca Dr.	Planned	Sacramento River	7/19/11	8:15 – 8:40	7,480		0.07	7.78	3.22	Dechlorination
3034 Barranca Dr.	Planned	Sacramento River	7/19/11	8:45 – 9:00	7,480		0.07	7.78	2.91	Dechlorination
38 Rio Verde Cir.	Planned	Sacramento River	7/19/11	13:00 – 13:40	2,244		0.04	7.46	1.049	Dechlorination
Barranca Dr. & Santa Teresa Dr.	Planned	Sacramento River	7/19/11	12:30 – 12:50	4,488		0.06	7.60	1.82	Dechlorination
29 Pilar Ridge Ct.	Planned	Sacramento River	7/19/11	13:10 – 13:20	4,488	23188	0.00	7.39	0.998	Dechlorination
Pilar Ridge Dr. & Rancho Bernardo Dr.	Planned	Sacramento River	7/21/11	9:00 – 9:15	7,480		0.07	7.24	0.357	Dechlorination
2973 Pilar Ridge Dr.	Planned	Sacramento River	7/21/11	9:25 – 9:50	10,472		0.03	7.83	0.284	Dechlorination
2901 Rio Verde Cir.	Planned	Sacramento River	7/21/11	13:00 – 13:10	4,488		0.04	7.31	0.162	Dechlorination
2925 Rio Verde Cir.	Planned	Sacramento River	7/21/11	13:15 – 13:30	2,244		0.03	7.70	0.344	Dechlorination
2931 Pilar Ridge Dr.	Planned	Sacramento River	7/21/11	10:15 – 10:30	5,236		0.04	7.37	0.186	Dechlorination
San Marco Blvd. & Rio Verde Cir.	Planned	Sacramento River	7/21/11	10:42 – 11:05	5,236	35,156	0.02	7.57	0.168	Dechlorination
Rio Verde Cir. & Ranch Bernardo Dr.	Planned	Sacramento River	7/22/11	7:35 – 8:30	17,952		0.07	7.70	0.344	Dechlorination
Cortina Dr. & Rancho Bernardo Dr.	Planned	Sacramento River	7/22/11	8:40 – 8:50	4,488		0.06	7.00	0.219	Dechlorination
Santa Teresa Dr. & Ranch Bernardo Dr.	Planned	Sacramento River	7/22/11	12:45 – 13:05	3,740		0.08	7.02	0.330	Dechlorination
511 Silver Saddle Dr.	Planned	Sacramento River	7/22/11	10:47 – 11:30	17,952	44,132	0.06	7.03	0.320	Dechlorination

C.15.b.iii.(1) ►Planned Discharges of the Potable Water System

Site/ Location	Discharge Type	Receiving Waterbody(ies)	Date of Discharge	Duration of Discharge (military time)	Estimated Volume (gallons)	Estimated Flow Rate (gallons/day)	Chlorine Residual (mg/L)	pH (standard units)	Discharge Turbidity[59] (NTU)	Implemented BMPs & Corrective Actions
1911 Morro Dr.	Planned	Sacramento River	7/25/11	7:55 – 8:30	12,716		0.07	7.85	0.211	Dechlorination
1934 Galway Dr.	Planned	Sacramento River	7/25/11	8:55 – 9:40	11,968		0.07	7.56	0.321	Dechlorination
23 Via Puerta Dr.	Planned	Sacramento River	7/25/11	10:15 – 10:40	748		0.06	7.67	0.247	Dechlorination
El Tambor Dr & Via Puerta Dr.	Planned	Sacramento River	7/25/11		8,976		0.06	7.41	0.251	Dechlorination
El Fresco & Via Puerta Dr.	Planned	Sacramento River	7/25/11	13:07 – 13:20	5,984		0.08	7.60	0.331	Dechlorination
51 Tampico Ct.	Planned	Sacramento River	7/25/11	13:45 – 14:07	5,236	45,628	0.03	7.62	0.292	Dechlorination
San Marco Blvd & W. Leland Rd.	Planned	Sacramento River	7/26/11	8:00 – 8:15	7,480		0.01	7.41	0.281	Dechlorination
San Marco Blvd & W. Leland Rd.	Planned	Sacramento River	7/26/11	8:35 – 8:45	3,740		0.03	7.69	0.197	Dechlorination
San Marco Blvd.	Planned	Sacramento River	7/26/11	10:25 – 10:35	3,740		0.00	7.52	0.199	Dechlorination
San Marco Blvd. & Santa Teresa Dr.	Planned	Sacramento River	7/26/11	13:10 – 13:25	2,992	17,952	0.00	7.69	0.211	Dechlorination
Tampico Dr & El Tambor Dr.	Planned	Sacramento River	7/27/11	8:30 – 8:55	2,244		0.00	7.83	0.219	Dechlorination
Tampico Dr & El Fresco Dr.	Planned	Sacramento River	7/27/11	9:31 – 9:40	2,244	4,488	0.00	7.71	0.224	Dechlorination
2545 Tampico Dr.	Planned	Sacramento River	8/2/11	8:15 – 8:25	3,740		0.00	8.31	0.311	Dechlorination
End of Rosa Blanca Dr	Planned	Sacramento River	8/2/11	8:44 – 8:55	4,488		0.00	8.09	0.402	Dechlorination
Rio Verde Cir & Rosa Blanca Dr.	Planned	Sacramento River	8/2/11	10:30 – 10:40	3,740		0.00	7.82	0.420	Dechlorination
Rio Verde Cir & San Andreas Dr.	Planned	Sacramento River	8/2/11	12:40 – 13:00	3,740		0.00	7.92	0.324	Dechlorination
Rio Verde Cir & Santa Rita Dr.	Planned	Sacramento River	8/2/11	13:26 – 13:37	4,488		0.04	8.21	0.277	Dechlorination
1611 Rio Verde Cir.	Planned	Sacramento River	8/2/11	13:46 – 13:51	2,244		0.03	8.33	0.428	Dechlorination

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C.15.b.iii.(1) ▶Planned Discharges of the Potable Water System

Site/ Location	Discharge Type	Receiving Waterbody(ies)	Date of Discharge	Duration of Discharge (military time)	Estimated Volume (gallons)	Estimated Flow Rate (gallons/day)	Chlorine Residual (mg/L)	pH (standard units)	Discharge Turbidity[59] (NTU)	Implemented BMPs & Corrective Actions
1575 Rio Verde Cir.	Planned	Sacramento River	8/2/11	13:55 – 14:10	3,740	26,180	0.03	8.41	0.415	Dechlorination
1826 Rosa Blanca Dr.	Planned	Sacramento River	8/3/11	8:00 – 8:10	2,992		0.07	8.44	0.338	Dechlorination
1828 San Andreas Dr.	Planned	Sacramento River	8/3/11	8:15 – 8:25	2,992		0.05	8.21	0.347	Dechlorination
1836 Santa Rita Dr.	Planned	Sacramento River	8/3/11	8:30 – 8:40	3,740	9,724	0.04	8.38	0.329	Dechlorination
1748 San Andreas Dr	Planned	Sacramento River	8/5/11	7:45 – 7:57	2,992		0.03	7.71	0.399	Dechlorination
Santa Teresa Dr/San Andreas Dr	Planned	Sacramento River	8/5/11	8:00 – 8:16	3,740		0.03	7.82	0.351	Dechlorination
28 Santa Teresa Dr	Planned	Sacramento River	8/5/11	8:33 – 9:06	12,716		0.06	7.88	0.298	Dechlorination
1430 Santa Teresa Dr	Planned	Sacramento River	8/5/11	9:12 – 9:19	2,244		0.05	7.85	0.344	Dechlorination
Santa Teresa Dr & Santa Lucia Dr	Planned	Sacramento River	8/5/11	10:38 – 11:38	26, 928		0.01	7.41	0.254	Dechlorination
Rio Verde Cir & Santa Lucia Dr	Planned	Sacramento River	8/8/11	8:10 – 8:25	2,992		0.04	7.48	0.331	Dechlorination
Santa Lucia Dr & San Lucas Dr	Planned	Sacramento River	8/8/11	10:35 – 11:00	4,488		0.04	7.52	0.291	Dechlorination
1328 San Lucas Dr	Planned	Sacramento River	8/8/11	12:50 – 13:05	2,244		0.04	7.63	0.311	Dechlorination
1360 San Lucas Dr	Planned	Sacramento River	8/8/11	13:10 – 13:15	2,244		0.04	7.91	0.4112	Dechlorination
San Tomas Dr & San Lucas Dr	Planned	Sacramento River	8/8/11	13:49 – 14:10	7,480	19,488	0.00	7.87	0.373	Dechlorination
Rio Verde Cir & Santa Rita Dr	Planned	Sacramento River	8/9/11	8:10 – 8:20	8,976		0.05	7.94	0.377	Dechlorination
1516 Rio Verde Cir	Planned	Sacramento River	8/9/11	9:11 – 9:21	2,992		0.08	7.98	2.07	Dechlorination
Rio Verde Cir & San Marco Blvd	Planned	Sacramento River	8/9/11	10:35 – 10:50	4,488		0.05	7.64	0.370	Dechlorination
39 San Tomas Ct	Planned	Sacramento River	8/9/11	12:38 – 13:20	10,472		0.00	7.91	0.411	Dechlorination
2 San Tomas Ct	Planned	Sacramento River	8/9/11	13:25 – 13:31	2,992	29,920	0.03	7.89	0.398	Dechlorination
San Tomas Dr & San	Planned	Sacramento River	8/9/11	7:50 – 8:10	3,740		0.06	6.91	0.124	Dechlorination

C.15.b.iii.(1) ►Planned Discharges of the Potable Water System

Site/ Location	Discharge Type	Receiving Waterbody(ies)	Date of Discharge	Duration of Discharge (military time)	Estimated Volume (gallons)	Estimated Flow Rate (gallons/day)	Chlorine Residual (mg/L)	pH (standard units)	Discharge Turbidity[59] (NTU)	Implemented BMPs & Corrective Actions
Benito Dr										
1261 San Benito Dr	Planned	Sacramento River	8/9/11	8:20 – 8:35	3,740		0.00	7.18	0.122	Dechlorination
1233 San Benito Dr	Planned	Sacramento River	8/9/11	8:45 – 8:55	2,244		0.06	7.00	0.180	Dechlorination
San Benito Dr & Santa Lucia Dr	Planned	Sacramento River	8/9/11	9:25 – 9:40	3,740		0.02	7.12	0.185	Dechlorination
1105 Santa Lucia Dr	Planned	Sacramento River	8/9/11	9:45 – 10:00	2,244		0.02	7.25	0.160	Dechlorination
1135 Santa Lucia Dr	Planned	Sacramento River	8/9/11	10:25 – 10:35	2,992		0.00	7.14	0.174	Dechlorination
1163 Santa Lucia Dr	Planned	Sacramento River	8/9/11	10:45 – 11:00	1,496		0.00	7.38	0.234	Dechlorination
Santa Lucia Dr & San Tomas Dr	Planned	Sacramento River	8/9/11	10:45 – 11:00	1,496		0.00	7.45	0.211	Dechlorination
22 Santa Lucia Dr	Planned	Sacramento River	8/9/11	13:55 – 14:20	10,472	33,660	0.00	7.61	0.198	Dechlorination
1356 San Lucas Dr	Planned	Sacramento River	8/11/11	11:00 – 11:15	2,244		0.00	7.72	0.241	Dechlorination
25 Galleon Way	Planned	Sacramento River	8/11/11	13:15 – 13:35	2,244	4,488	0.03	7.59	0.211	Dechlorination
San Marco Blvd & W. Leland Rd	Planned	Sacramento River	8/16/11	8:41 – 9:00	2,992		0.03	7.92	0.236	Dechlorination
San Marco Blvd & W. Leland Rd	Planned	Sacramento River	8/16/11	9:05 – 9:15	4,488		0.03	7.83	0.288	Dechlorination
W. Leland Rd 100yds east of San Marco Blvd	Planned	Sacramento River	8/16/11	10:00 – 10:15	9,724		0.08	7.78	0.271	Dechlorination
W. Leland Rd 300yds east of San Marco Blvd	Planned	Sacramento River	8/16/11	11:40 – 12:05	972	17,952	0.04	7.56	0.327	Dechlorination
W. Leland Rd 550ft east of San Marco Blvd	Planned	Sacramento River	8/17/11	8:00 – 8:21	5,984		0.06	7.71	0.311	Dechlorination
W. Leland Rd & Tomales Bay Dr 50yds east	Planned	Sacramento River	8/17/11	10:15 – 10:25	4,488		0.06	7.58	0.292	Dechlorination
W. Leland Rd 300yds east of Tomales Bay Dr	Planned	Sacramento River	8/17/11	11:15 – 11:30	9,724		0.06	7.82	0.384	Dechlorination

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C.15.b.iii.(1) ►Planned Discharges of the Potable Water System

Site/ Location	Discharge Type	Receiving Waterbody(ies)	Date of Discharge	Duration of Discharge (military time)	Estimated Volume (gallons)	Estimated Flow Rate (gallons/day)	Chlorine Residual (mg/L)	pH (standard units)	Discharge Turbidity[59] (NTU)	Implemented BMPs & Corrective Actions
W. Leland Rd & Alves Ranch Rd	Planned	Sacramento River	8/17/11	12:45 – 13:00	9,724	29,920	0.05	8.01	0.286	Dechlorination
W. Leland Rd & Tomales Bay Dr	Planned	Sacramento River	8/18/11	8:00 – 8:10	2,992		0.03	7.68	0.251	Dechlorination
20 Barton Bay Ct	Planned	Sacramento River	8/18/11	8:20 – 9:15	14,960		0.04	7.61	0.292	Dechlorination
24 Barton Bay Ct	Planned	Sacramento River	8/18/11	9:30 – 9:45	5,236		0.05	7.82	0.274	Dechlorination
Tomales Bay Dr & Ashbridge Bay Dr	Planned	Sacramento River	8/18/11	12:45 – 13:25	10,472		0.04	7.59	0.311	Dechlorination
1069 Ashbridge Bay Dr	Planned	Sacramento River	8/18/11	13:50 – 14:05	4,488	38,148	0.06	7.62	0.346	Dechlorination
1031 Ashbridge Bay Dr	Planned	Sacramento River	8/22/11	7:40 – 7:55	5,984		0.01	7.85	0.194	Dechlorination
1007 Ashbridge Bay Dr	Planned	Sacramento River	8/22/11	8:10 – 8:30	3,740		0.01			Dechlorination
2062 Tomales Bay Dr	Planned	Sacramento River	8/22/11	9:25 – 9:35	4,488		0.02			Dechlorination
2070 Tomales Bay Dr	Planned	Sacramento River	8/22/11	9:55 – 10:05	4,488		0.01	7.64	0.229	Dechlorination
2078 Tomales Bay Dr	Planned	Sacramento River	8/22/11	10:45 – 11:00	3,740		0.02	7.58	0.187	Dechlorination
Tomales Bay Dr & Botany Bay Dr	Planned	Sacramento River	8/22/11	13:25 – 13:35	3,740	26,180	0.01	7.89	0.188	Dechlorination
2512 Tomales Bay Dr	Planned	Sacramento River	8/23/11	8:20 – 8:40	5,984		0.01	7.56	0.186	Dechlorination
2540 Tomales Bay Dr	Planned	Sacramento River	8/23/11	8:50 – 9:25	4,488	10472	0.01	7.61	0.192	Dechlorination
2560 Tomales Bay Dr	Planned	Sacramento River	8/24/11	8:35 – 8:50	4,488		0.01	7.71	0.211	Dechlorination
2604 Tomales Bay Dr	Planned	Sacramento River	8/24/11	9:00 – 9:40	10,472		0.03	7.69	0.198	Dechlorination
2992 Alves Ranch Rd	Planned	Sacramento River	8/24/11	12:55 – 13:10	2,992		0.01	7.35	0.230	Dechlorination
2968 Alves Ranch Rd	Planned	Sacramento River	8/24/11	13:25 – 13:35	2,992		0.03	7.00	0.257	Dechlorination
Alves Ranch Rd (Dead End)	Planned	Sacramento River	8/24/11	14:00 – 14:10	5,984	26,928	0.01	7.38	0.273	Dechlorination
2940 Hanauma Bay Dr	Planned	Sacramento River	8/25/11	8:00 – 8:15	2,244		0.01	7.41	0.311	Dechlorination
Hanauma Bay Dr &	Planned	Sacramento River	8/25/11	8:25 – 8:35	2,244		0.02	7.22	0.860	Dechlorination

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Site/ Location	Discharge Type	Receiving Waterbody(ies)	Date of Discharge	Duration of Discharge (military time)	Estimated Volume (gallons)	Estimated Flow Rate (gallons/day)	Chlorine Residual (mg/L)	pH (standard units)	Discharge Turbidity[59] (NTU)	Implemented BMPs & Corrective Actions
Sarasta Bay Dr										
4036 Sarasta Bay Dr	Planned	Sacramento River	8/25/11	9:10 – 9:30	4,488		0.04	7.12	0.167	Dechlorination
88 Thunder Bay Ct	Planned	Sacramento River	8/25/11		2,244		0.02	7.58	0.241	Dechlorination
78 Thunder Bay Ct	Planned	Sacramento River	8/25/11	10:40 – 10:50	1,496		0.02	7.43	0.356	Dechlorination
70 Thunder Bay Ct	Planned	Sacramento River	8/25/11	11:00 – 11:10	2,992		0.01	7.41	0.229	Dechlorination
4005 Sarasta Bay Dr	Planned	Sacramento River	8/25/11	13:05 – 13:15	2,244	17,952	0.01	7.83	0.293	Dechlorination
2888 Romora Bay Ct	Planned	Sacramento River	8/26/11	9:25 – 9:35	3,740		0.02	7.56	0.109	Dechlorination
Hanauma Bay Rd & Romora Bay Dr	Planned	Sacramento River	8/26/11	10:00 – 10:10	2,244		0.01	7.61	0.211	Dechlorination
Hanauma Bay Rd & Romora Bay Dr	Planned	Sacramento River	8/26/11	10:15 – 11:10	2,992		0.04	7.40	0.235	Dechlorination
2843 Romora Bay Rd	Planned	Sacramento River	8/26/11	12:45 – 12:55	2,992	11,968	0.02	7.91	0.316	Dechlorination
4005 Sarasta Bay Dr	Planned	Sacramento River	8/25/11	13:05 – 13:15	2,244	17,952	0.01	7.83	0.293	Dechlorination
2888 Romora Bay Ct	Planned	Sacramento River	8/26/11	9:25 – 9:35	3,740		0.02	7.56	0.109	Dechlorination
Hanauma Bay Rd & Romora Bay Dr	Planned	Sacramento River	8/26/11	10:00 – 10:10	2,244		0.01	7.61	0.211	Dechlorination
Hanauma Bay Rd & Romora Bay Dr	Planned	Sacramento River	8/26/11	10:15 – 11:10	2,992		0.04	7.40	0.235	Dechlorination
2843 Romora Bay Rd	Planned	Sacramento River	8/26/11	12:45 – 12:55	2,992	11,968	0.02	7.91	0.316	Dechlorination
2808 Romora Bay Dr	Planned	Sacramento River	8/29/11	8:15 – 8:25	2,244		0.03	8.26	0.188	Dechlorination
2799 Romora Bay	Planned	Sacramento River	8/29/11	8:30 – 8:35	2,244		0.03	8.28	0.157	Dechlorination
2784 Romora Bay Dr	Planned	Sacramento River	8/29/11	8:45 – 8:55	2,244		0.05	7.98	0.246	Dechlorination
2803 Romora Bay Dr	Planned	Sacramento River	8/29/11	9:25 – 9:35	2,244		0.02	8.13	0.159	Dechlorination
2434 Maho Bay Cir	Planned	Sacramento River	8/29/11	9:25 – 9:35	1,496		0.05	8.27	0.160	Dechlorination
Maho Bay Dr/Oyster Bay Dr	Planned	Sacramento River	8/29/11	10:50 – 11:00	1,496		0.07	8.09	0.233	Dechlorination

C.15.b.iii.(1) ▶ Planned Discharges of the Potable Water System

Site/ Location	Discharge Type	Receiving Waterbody(ies)	Date of Discharge	Duration of Discharge (military time)	Estimated Volume (gallons)	Estimated Flow Rate (gallons/day)	Chlorine Residual (mg/L)	pH (standard units)	Discharge Turbidity[59] (NTU)	Implemented BMPs & Corrective Actions
2790 Montego Bay Ct	Planned	Sacramento River	8/29/11	12:35 – 12:45	2,244		0.05	8.03	0.231	Dechlorination
2782 Montego Bay Ct	Planned	Sacramento River	8/29/11	12:55 – 13:05	4,488		0.04	8.15	0.197	Dechlorination
Alves Ranch Rd/Oyster Bay St	Planned	Sacramento River	8/29/11	13:50 – 14:00	2,244	20,944	0.04	8.11	0.212	Dechlorination
2315 Maho Bay Cir	Planned	Sacramento River	8/30/11	7:40 – 7:45	1,496		0.06	8.13	0.301	Dechlorination
2253 Maho Bay Cir	Planned	Sacramento River	8/30/11	7:50 – 8:15	4,488		0.06	8.09	0.293	Dechlorination
2234 Maho Bay Cir	Planned	Sacramento River	8/30/11	8:30 – 8:35	2,992		0.06	7.61	0.353	Dechlorination
Alves Ranch Rd/Hudson Bay St	Planned	Sacramento River	8/30/11	9:55 – 10:05	2,244		0.05	7.78	0.391	Dechlorination
2730 Montego Bay St	Planned	Sacramento River	8/30/11	10:25 – 10:35	2,244		0.05	7.81	0.411	Dechlorination
Alves Ranch Rd/Montego Bay St	Planned	Sacramento River	8/30/11	11:05 – 11:15	2,992		0.06	8.10	0.298	Dechlorination
Botany Bay/Alves Ranch Rd	Planned	Sacramento River	8/30/11	13:15 – 13:25	2,244		0.07			Dechlorination
Alves Ranch Rd/Botany Bay	Planned	Sacramento River	8/30/11	13:30 – 13:40	2,992	21,692	0.04	7.81	0.287	Dechlorination
Galveston Ct dead end	Planned	Sacramento River	8/31/11	7:55 – 8:10	3,740		0.06	7.81	0.406	Dechlorination
49 Galveston Bay Ct	Planned	Sacramento River	8/31/11	8:25 – 8:35	2,244		0.05	8.0	0.225	Dechlorination
Alves Ranch Rd/Coos Bay Ct	Planned	Sacramento River	8/31/11	9:30 – 9:45	2,992		0.04	8.28	0.188	Dechlorination
149 Kapalua Bay Cir	Planned	Sacramento River	8/31/11	10:25 – 10:40	5,984	14,960	0.04	8.28	0.420	Dechlorination
260 Kapalua Bay Cir	Planned	Sacramento River	9/1/11	7:55 – 8:10	4,488		0.06	8.07	0.331	Dechlorination
328 Kapalua Bay Cir	Planned	Sacramento River	9/1/11	8:31 – 8:40	3,740		0.05	8.21	0.423	Dechlorination
348 Kapalua Bay Cir	Planned	Sacramento River	9/1/11	8:50 – 9:26	11,968		0.05	7.95	0.299	Dechlorination
Alves Ranch Rd/Kapalua Bay Cir	Planned	Sacramento River	9/1/11	10:15 – 10:25	2,992		0.03	8.15	0.315	Dechlorination
Alves Ranch	Planned	Sacramento River	9/1/11	10:50 – 11:13	9,724		0.01	7.89	0.295	Dechlorination

C.15.b.iii.(1) ►Planned Discharges of the Potable Water System

Site/ Location	Discharge Type	Receiving Waterbody(ies)	Date of Discharge	Duration of Discharge (military time)	Estimated Volume (gallons)	Estimated Flow Rate (gallons/day)	Chlorine Residual (mg/L)	pH (standard units)	Discharge Turbidity[59] (NTU)	Implemented BMPs & Corrective Actions
Rd/Ashbridge Bay Dr										
Woodhill Dr/Peachwillow St	Planned	Sacramento River	9/1/11	13:00 – 13:25	11,220	44,132	0.00	7.56	0.317	Dechlorination
181 Kapalua Bay Cir	Planned	Sacramento River	9/2/11	8:00 – 8:10	4,488		0.00	7.89	0.206	Dechlorination
2231 Woodhill Dr/Beechwood Ct	Planned	Sacramento River	9/2/11	8:25 – 9:05	15,708		0.00	7.73	0.187	Dechlorination
33 Beechwood Ct	Planned	Sacramento River	9/2/11	10:20 – 10:30	4,488		0.01	7.96	0.146	Dechlorination
21 Beechwood Ct	Planned	Sacramento River	9/2/11	10:50 – 11:10	4,488		0.00	7.81	0.202	Dechlorination
19 Beechwood Ct	Planned	Sacramento River	9/2/11	11:10 – 11:30	28,424		0.00	7.93	0.193	Dechlorination
17 Beechwood Ct	Planned	Sacramento River	9/2/11	11:30 – 11:35	748	58,344	0.04	8.04	0.153	Dechlorination
Woodhill Dr/Clearwood St	Planned	Sacramento River	9/6/11	8:45 – 8:55	7,480		0.00	8.11	0.143	Dechlorination
Woodhill Dr/Burlwood ST	Planned	Sacramento River	9/6/11	9:30 – 10:05	16,456		0.00	7.92	0.221	Dechlorination
Woodhill Dr/Greenmeadow Cir	Planned	Sacramento River	9/6/11	10:50 – 11:10	3,740		0.01	8.06	0.208	Dechlorination
210 Shadowhill Cir	Planned	Sacramento River	9/6/11	12:45 – 13:00	4,488		0.01	7.50	0.341	Dechlorination
Woodhill Dr/Shadowhill Cir	Planned	Sacramento River	9/6/11	13:20 – 13:45	9,724	41,888	0.00	7.86	0.284	Dechlorination
1947 Peachwillow St	Planned	Sacramento River	9/7/11	8:15 – 8:30	3,740		0.00	8.23	0.181	Dechlorination
Peachwillow St/Alderbrook Way	Planned	Sacramento River	9/7/11	8:45 – 9:15	8,976		0.00	8.15	0.198	Dechlorination
1765 Bridgeview St	Planned	Sacramento River	9/7/11	9:35 – 9:40	748		0.00			Dechlorination
1729 Bridgeview St	Planned	Sacramento River	9/7/11	9:55 – 10:10	3,740		0.01	793	0.216	Dechlorination
2229 Alderbrook Way	Planned	Sacramento River	9/7/11	10:35 – 10:50	2,244		0.00	7.83	0.221	Dechlorination
2235 Alderbrook Way	Planned	Sacramento River	9/7/11	10:55 – 11:05	2,244		0.01	8.18	0.184	Dechlorination
1727 Clearwood St	Planned	Sacramento River	9/7/11	12:40 – 12:47	4,488		0.02	7.68	0.223	Dechlorination
1759 Clearwood St	Planned	Sacramento River	9/7/11	13:00 – 13:10	5,236		0.00	8.24	0.241	Dechlorination

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Site/ Location	Discharge Type	Receiving Waterbody(ies)	Date of Discharge	Duration of Discharge (military time)	Estimated Volume (gallons)	Estimated Flow Rate (gallons/day)	Chlorine Residual (mg/L)	pH (standard units)	Discharge Turbidity[59] (NTU)	Implemented BMPs & Corrective Actions
128 Green Meadow Cir	Planned	Sacramento River	9/7/11	13:30 – 13:40	6,732		0.01	7.42	0.113	Dechlorination
Woodhill Dr/Green Meadow Cir	Planned	Sacramento River	9/7/11	8:15 – 8:30	4,488		0.01	8.15	0.248	Dechlorination
2355 Woodhill Dr	Planned	Sacramento River	9/7/11	9:30 – 10:00	9,724		0.00	8.35	0.118	Dechlorination
7 Freshwater Ct	Planned	Sacramento River	9/7/11	10:45 – 10:55	2,244		0.02	8.09	0.253	Dechlorination
Woodhill Dr/Fawn Glen Ct	Planned	Sacramento River	9/7/11	12:45 – 12:55	2,244	56,848	0.00	7.92	0.216	Dechlorination
Woodhill Dr/Sun Peak Dr	Planned	Sacramento River	9/9/11	12:40 – 13:00	5,984		0.06	7.58	0.119	Dechlorination
19 Oliveglen Ct	Planned	Sacramento River	9/9/11	13:10 - ?	3,740	9,724	0.04	7.64	0.203	Dechlorination
11 Oliveglen Ct	Planned	Sacramento River	9/12/11	8:55 – 9:05	3,740		0.00	7.86	0.411	Dechlorination
Woodhill Dr/Quietpath Ct	Planned	Sacramento River	9/12/11	9:20 – 9:30	3,740		0.00	7.95	0.383	Dechlorination
17 Quiet Path Ct	Planned	Sacramento River	9/12/11	10:00 – 10:10	1,496	8,976	0.00	8.04	0.293	Dechlorination
19 Oliveglen Ct	Planned	Sacramento River	9/14/11	7:50 – 8:15	5,984		0.04	8.12	0.194	Dechlorination
270 Cloverbrook Cir	Planned	Sacramento River	9/14/11	8:25 – 8:35	3,740		0.01	8.10	0.426	Dechlorination
Cloverbrook Cir & Pine Creek St	Planned	Sacramento River	9/14/11	8:50 – 9:00	2,992		0.02	8.00	0.494	Dechlorination
18 Pine Creek Ct	Planned	Sacramento River	9/14/11	9:10 – 10:10	17,952		0.01	8.17	0.204	Dechlorination
Cloverbrook Cir & Quartz Ct	Planned	Sacramento River	9/14/11	10:15 – 11:00	13,464		0.00	8.14	0.337	Dechlorination
Cloverbrook Cir/Woodhill Dr	Planned	Sacramento River	9/14/11	12:35 – 13:05	11,968		0.00	8.09	0.291	Dechlorination
Southwood Dr & Fieldgate Dr	Planned	Sacramento River	9/14/11	13:20 – 13:45	3,740	59,840	0.00	8.15	0.188	Dechlorination
2325 Fieldgate Dr	Planned	Sacramento River	9/15/11	8:50-9:00	2,992		0.00	7.996	0.823	Dechlorination
Fieldgate Dr/Havenwood Cir	Planned	Sacramento River	9/15/11	9:15 – 9:45	9,724		0.00	8.001	1.370	Dechlorination

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228 Havenwood Cir	Planned	Sacramento River	9/15/11	9:50 – 10:10	5,984		0.00	8.290	1.290	Dechlorination
298 Havenwood Cir	Planned	Sacramento River	9/15/11	10:30 – 10:45	2,244	20,944	0.00	8.214	0.305	Dechlorination
2397 Fieldgate Dr	Planned	Sacramento River	9/16/11	7:55 – 8:05	5,236		0.00	8.17	0.859	Dechlorination
1132 Oakpoint Dr	Planned	Sacramento River	9/16/11	8:20 – 8:30	4,488		0.02	8.10	0.89	Dechlorination
1180 Oakpoint Dr	Planned	Sacramento River	9/16/11	8:40 – 8:50	4,488		0.00	8.02	1.64	Dechlorination
27 Shadeland Ct	Planned	Sacramento River	9/16/11	9:30 – 9:45	4,488		0.00	8.14	1.46	Dechlorination
Shadeland Ct/Brooktrail Dr	Planned	Sacramento River	9/16/11	9:55 – 10:05	8,228		0.05	8.18	0.680	Dechlorination
376 Rosebrook Dr	Planned	Sacramento River	9/16/11	12:30 – 12:40	3,748	30,676	0.03	7.75	0.673	Dechlorination
Windwood Dr/Brooktrail Dr	Planned	Sacramento River	9/27/11	8:55 – 9:05	5,236		0.01	7.70	0.440	Dechlorination
450 Windwood Dr	Planned	Sacramento River	9/27/11	9:05 – 9:25	3,740		0.00	8.0	0.705	Dechlorination
1274 Brooktrail Dr	Planned	Sacramento River	9/27/11	9:55 – 10:05	3,740		0.00	8.16	0.801	Dechlorination
33 Summit Ridge Ct	Planned	Sacramento River	9/27/11	10:25 – 11:00	15,708		0.04	8.17	0.304	Dechlorination
1232 Brooktrail Dr	Planned	Sacramento River	9/27/11	13:15 – 13:30	5,984		0.00	7.92	0.341	Dechlorination
1172 Brooktrail Dr	Planned	Sacramento River	9/27/11	13:40 – 13:50	3,740	38,148	0.00	8.01	0.298	Dechlorination
402 Brooktrail Dr.	Planned	Sacramento River	9/28/11	8:50 – 9:05	2,244		0.02	7.62	0.993	Dechlorination
1085 Dawnview Ct	Planned	Sacramento River	9/28/11	9:15 – 9:35	7,480		0.00	7.71	1.19	Dechlorination
1069 Dawnview Ct	Planned	Sacramento River	9/28/11	9:45 – 10:00	5,236		0.04	7.58	0.841	Dechlorination
1035 Dawnview Ct	Planned	Sacramento River	9/28/11	10:15 – 10:30	3,740		0.03	7.75	0.653	Dechlorination
Whispering Oaks Ct/Oak Crest Pl	Planned	Sacramento River	9/28/11	11:05 – 11:15	2,992		0.00	7.68	0.421	Dechlorination
335 Whispering Oaks Ct	Planned	Sacramento River	9/28/11	13:20 – 13:50	9,724	31,416	0.00	8.03	0.186	Dechlorination
325 Whispering Oaks Ct	Planned	Sacramento River	9/29/11	7:50 – 8:05	2,992		0.00	8.01	0.244	Dechlorination
407 Oak Crest Pl	Planned	Sacramento River	9/29/11	8:20 – 8:35	3,740		0.00	7.63	0.411	Dechlorination
455 Oak Crest Pl	Planned	Sacramento River	9/29/11	9:05 – 9:20	4,488		0.00	7.73	0.481	Dechlorination

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Site/ Location	Discharge Type	Receiving Waterbody(ies)	Date of Discharge	Duration of Discharge (military time)	Estimated Volume (gallons)	Estimated Flow Rate (gallons/day)	Chlorine Residual (mg/L)	pH (standard units)	Discharge Turbidity[59] (NTU)	Implemented BMPs & Corrective Actions
481 Oak Crest Pl	Planned	Sacramento River	9/29/11	9:35 – 9:50	3,740		0.03	7.66	0.321	Dechlorination
135 Sun Peak Dr	Planned	Sacramento River	9/29/11	10:05 – 10:25	5,984	20,944	0.00	7.84	0.391	Dechlorination
312 Rosebrook Dr	Planned	Sacramento River	9/30/11	7:55 – 8:10	5,236		0.00	8.00	0.192	Dechlorination
1098 Oakpoint Dr	Planned	Sacramento River	9/30/11	8:25 – 8:35	2,992		0.00	8.12	0.211	Dechlorination
28 Rock Stream Ct	Planned	Sacramento River	9/30/11	8:40 – 9:20	12,716		0.00	8.01	0.188	Dechlorination
38 Brooktrail Ct	Planned	Sacramento River	9/30/11	10:05 – 11:00	15,708		0.01	8.06	0.241	Dechlorination
Brooktrail Dr/Brooktrail Ct	Planned	Sacramento River	9/30/11	11:05 – 11:20	3,740		0.00	7.98	0.261	Dechlorination
30 Hiddenwood Ct	Planned	Sacramento River	9/30/11	12:40 – 12:55	4,488	44,880	0.00	7.93	0.248	Dechlorination
1074 Oakpoint Dr	Planned	Sacramento River	10/3/11	7:40 – 8:00	8,976		0.00	8.27	0.112	Dechlorination
Brooktrail Dr/Brooktrail Ct	Planned	Sacramento River	10/3/11	9:00 – 9:15	5,984		0.00	8.23	0.185	Dechlorination
185 Oakpoint Ct	Planned	Sacramento River	10/3/11	10:00 – 10:15	8.976		0.02	8.27	0.233	Dechlorination
149 Oakpoint Ct	Planned	Sacramento River	10/3/11	10:30 – 10:45	4,488		0.00	8.34	0.242	Dechlorination
Oakpoint Dr/Oakpoint Ct	Planned	Sacramento River	10/3/11	10:55 – 11:05	3,740		0.00	8.28	0.282	Dechlorination
2275 Southwood Dr	Planned	Sacramento River	10/3/11	13:25 – 13:55	14,212	46,374	0.00	8.27	0.116	Dechlorination
2255 Southwood Dr	Planned	Sacramento River	10/4/11	8:55 – 9:20	12,580		0.00	8.15	0.219	Dechlorination
Southwood Dr/Oak Hills Dr	Planned	Sacramento River	10/4/11	10:15 – 10:25	5,180	17,760	0.00	8.23	0.291	Dechlorination
2279 Bayberry Cir	Planned	Sacramento River	10/5/11	8:45 – 9:05	2,992		0.00	7.95	0.739	Dechlorination
1727 Peachwillow St	Planned	Sacramento River	10/5/11	10:30 – 10:50	5,236		0.00	8.26	0.213	Dechlorination
1729 Bridgeview DR	Planned	Sacramento River	10/5/11	11:00 – 11:15	5,236		0.00	8.22	0.127	Dechlorination
2276 Oak Hills Dr	Planned	Sacramento River	10/5/11	12:50 – 13:00	4,488		0.01	7.73	0.433	Dechlorination
2256 Oak Hills Dr	Planned	Sacramento River	10/5/11	13:15 – 13:30	8,228	26,180	0.00	8.03	0.299	Dechlorination
2239 Bayberry Cir	Planned	Sacramento River	10/6/11	7:50 – 8:10	6,732		0.00	8.21	0.231	Dechlorination
2219 Bayberry Cir	Planned	Sacramento River	10/6/11	8:15 – 8:30	5,236		0.01	8.14	0.411	Dechlorination
1618 Mellowood ST	Planned	Sacramento River	10/6/11	9:20 – 9:30	5,236		0.00	7.83	0.389	Dechlorination

C.15.b.iii.(1) ►Planned Discharges of the Potable Water System

Site/ Location	Discharge Type	Receiving Waterbody(ies)	Date of Discharge	Duration of Discharge (military time)	Estimated Volume (gallons)	Estimated Flow Rate (gallons/day)	Chlorine Residual (mg/L)	pH (standard units)	Discharge Turbidity[59] (NTU)	Implemented BMPs & Corrective Actions
1639 Mellowood St	Planned	Sacramento River	10/6/11	10:25 – 10:40	5,236		0.00	7.73	0.181	Dechlorination
12 Live Oak Ct	Planned	Sacramento River	10/6/11	10:50 – 11:25	8,228		0.00	8.24	0.203	Dechlorination
2263 Bayberry Cir	Planned	Sacramento River	10/6/11	12:45 – 13:15	12,716		0.01	7.73	0.433	Dechlorination
Southwood Dr/Mellowood St	Planned	Sacramento River	10/6/11	13:40 – 13:45	4,488	47,872	0.00			Dechlorination
2238 Oak Hills Dr	Planned	Sacramento River	10/11/11	8:15 – 8:30	9,620		0.02	8.19	0.952	Dechlorination
2235 Oak Hills Dr	Planned	Sacramento River	10/11/11	10:10 – 10:45	9,620		0.02	8.18	1.07	Dechlorination
2227 Oak Hills Dr	Planned	Sacramento River	10/11/11	10:55 – 11:05	2,220		0.01	8.46	0.266	Dechlorination
1602 Mellowood St	Planned	Sacramento River	10/11/11	13:05 – 13:25	5,920	27,380	0.05	8.38	0.311	Dechlorination
1624 Birdhaven Way	Planned	Sacramento River	10/12/11	8:10 – 8:50	13,464		0.00	8.21	0.417	Dechlorination
W. Leland Rd/Southwood Dr	Planned	Sacramento River	10/12/11	12:00 – 12:40	14,960		0.04	8.14	0.193	Dechlorination
W. Leland Rd/Oak Hills Dr	Planned	Sacramento River	10/12/11	13:55 – 14:05	2,992	31,416	0.04	7.98	0.249	Dechlorination
W. Leland Rd/Safeway Parking Lot	Planned	Sacramento River	10/14/11	9:20 – 9:40	4,488		0.00	7.63	0.891	Dechlorination
W. Leland Rd/BART parking lot	Planned	Sacramento River	10/14/11	11:15 – 11:30	5,984	10472	0.00	8.0	0.193	Dechlorination
2205 Willow Ave	Planned	Sacramento River	10/17/11	8:00 – 8:15	5,236		0.02	7.73	0.343	Dechlorination
2215 Willow Ave	Planned	Sacramento River	10/17/11	8:25 – 8:35	2,992		0.00	7.92	0.338	Dechlorination
2246 Willow Ave	Planned	Sacramento River	10/17/11	8:50 – 9:30	14,212		0.00	7.92	0.293	Dechlorination
2297 Willow Ave	Planned	Sacramento River	10/17/11	10:10 – 10:20	2,992		0.00	7.77	0.343	Dechlorination
208 Lawlor Ct	Planned	Sacramento River	10/17/11	11:10 – 11:25	4,488		0.01	7.64	0.449	Dechlorination
164 Lawlor Ct	Planned	Sacramento River	10/17/11	12:40 – 13:00	7,480		0.00	7.81	0.931	Dechlorination
140 Lawlor Ct	Planned	Sacramento River	10/17/11	13:10 – 13:20	3,740	41,140	0.00	7.92	1.46	Dechlorination
1602 Birdhaven Way	Planned	Sacramento River	10/18/11	8:45 – 9:05	5,984		0.03	7.98	0.227	Dechlorination
108 Lawlor Ct	Planned	Sacramento River	10/18/11	9:20- 9:30	5,984		0.03	8.2	0.170	Dechlorination

C.15.b.iii.(1) ►Planned Discharges of the Potable Water System

Site/ Location	Discharge Type	Receiving Waterbody(ies)	Date of Discharge	Duration of Discharge (military time)	Estimated Volume (gallons)	Estimated Flow Rate (gallons/day)	Chlorine Residual (mg/L)	pH (standard units)	Discharge Turbidity[59] (NTU)	Implemented BMPs & Corrective Actions
175 Delta Vista Ln	Planned	Sacramento River	10/18/11	13:15 – 13:40	8,228		0.03	8.12	0.100	Dechlorination
145 Delta Vista Ln	Planned	Sacramento River	10/18/11	13:50 – 14:05	4,488	24,684	0.02	7.96	0.092	Dechlorination
Westwood Ct/Westwood Ln	Planned	Sacramento River	10/20/11	8:40 – 9:20	8,976		0.05	8.24	0.311	Dechlorination
2241 Bayberry Cir	Planned	Sacramento River	10/20/11	8:40 – 9:20	5,984		0.05	8.31	0.215	Dechlorination
2228 Westwood	Planned	Sacramento River	10/20/11	13:00 – 14:00	8,976	23,936	0.05	7.76	0.152	Dechlorination
Alamo Way/Westwood Ct	Planned	Sacramento River	10/21/11	8:00 – 8:30	8,976		0.01	7.85	0.111	Dechlorination
2220 Chestnut Dr	Planned	Sacramento River	10/21/11	8:45 – 9:00	2,244		0.00	7.83	0.097	Dechlorination
Alamo Way/Los Palos Dr	Planned	Sacramento River	10/21/11	12:40 – 13:05	8,228		0.03	7.95	0.123	Dechlorination
1088 Alamo Ct	Planned	Sacramento River	10/21/11	13:15 – 13:35	6,732	26,180	0.00	7.92	0.451	Dechlorination
1088 Alamo Ct	Planned	Sacramento River	10/24/11	7:45 – 8:05	5,236		0.03	7.84	0.428	Dechlorination
1150 Los Palos Ct	Planned	Sacramento River	10/24/11	8:20 – 8:50	11,968		0.04	7.91	0.213	Dechlorination
2205 Santa Maria Dr	Planned	Sacramento River	10/24/11	9:05 – 9:45	15,708		0.03	7.49	0.149	Dechlorination
2221 Santa Maria Dr	Planned	Sacramento River	10/24/11	10:00 – 10:35	14,212		0.00	8.11	0.365	Dechlorination
2231 Santa Maria Dr	Planned	Sacramento River	10/24/11	10:50 – 11:05	5,236		0.00	7.87	0.129	Dechlorination
103 Delta Vista Ln	Planned	Sacramento River	10/24/11	11:35 – 11:55	8,228		0.00	8.10	0.229	Dechlorination
2241 Santa Maria Dr	Planned	Sacramento River	10/24/11	12:40 -12:55	4,488		0.02	8.09	0.314	Dechlorination
1030 Rockridge Ct	Planned	Sacramento River	10/24/11	13:10 – 13:40	6,732		0.01	7.91	0.411	Dechlorination
2203 Mt. Whitney Dr	Planned	Sacramento River	10/24/11	13:45 – 14:15	8,976	80,784	0.04	7.86	0.398	Dechlorination
2213 Mt. Whitney Dr	Planned	Sacramento River	10/25/11	7:30 – 7:45	2,992		0.04	8.21	0.459	Dechlorination
2223 Carmel Ct	Planned	Sacramento River	10/25/11	8:20 – 8:30	9,724		0.03	8.09	0.324	Dechlorination
Via Vendio Way/Mt Whitney Dr	Planned	Sacramento River	10/25/11	9:35 – 10:10	10,472		0.03	7.94	0.250	Dechlorination
2233 Mt Whitney Dr	Planned	Sacramento River	10/25/11	10:15 – 10:25	2,244		0.03	8.32	0.311	Dechlorination
2247 Concord Dr	Planned	Sacramento River	10/25/11	10:40 – 10:55	4,488		0.03	8.36	0.296	Dechlorination

C.15.b.iii.(1) ►Planned Discharges of the Potable Water System

Site/ Location	Discharge Type	Receiving Waterbody(ies)	Date of Discharge	Duration of Discharge (military time)	Estimated Volume (gallons)	Estimated Flow Rate (gallons/day)	Chlorine Residual (mg/L)	pH (standard units)	Discharge Turbidity[59] (NTU)	Implemented BMPs & Corrective Actions
2235 Concord Dr	Planned	Sacramento River	10/25/11	11:45 – 12:00	4,488		0.01	7.54	0.337	Dechlorination
2217 Concord Dr	Planned	Sacramento River	10/25/11	12:40 – 12:50	2,992		0.02	7.81	0.225	Dechlorination
1000 Ridge Rock Way	Planned	Sacramento River	10/25/11	13:30 – 13:40	4,488		0.02	8.03	0.247	Dechlorination
2251 Santa Maria Dr	Planned	Sacramento River	10/25/11	13:50 – 14:00	2,244	44,132	0.05	7.58	0.211	Dechlorination
Mt Whitney Dr/Santa Maria Dr	Planned	Sacramento River	10/27/11	8:50 – 9:20	5,984		0.03	7.80	0.117	Dechlorination
2261 Mt Whitney Dr	Planned	Sacramento River	10/27/11	10:10 – 10:50	13,464		0.03	7.79	0.189	Dechlorination
2263 Concord Dr	Planned	Sacramento River	10/27/11	11:00 – 11:05	2,992		0.03	7.68	0.179	Dechlorination
2297 Jacqueline Dr	Planned	Sacramento River	10/27/11	12:40 – 13:00	2,992		N/A			Dechlorination
2279 Jacqueline DR	Planned	Sacramento River	10/27/11	13:40 – 13:50	4,488	29,920	0.04	8.01	0.192	Dechlorination
2261 Jacqueline Dr	Planned	Sacramento River	10/31/11	8:20 – 8:40	5,984		0.05	8.15	0.201	Dechlorination
Sugartree Dr/Lislin Ct	Planned	Sacramento River	10/31/11	9:20 – 9:50	10,742		0.05	8.20	0.231	Dechlorination
Sugartree Dr/Baja Ct	Planned	Sacramento River	10/31/11	10:15 -10:45	9.724		0.05	8.18	0.165	Dechlorination
2164 El Seco Way	Planned	Sacramento River	10/31/11	11:35 – 11:55	4,488	30,938	0.04	8.09	0.187	Dechlorination
W. Leland Rd/Jacqueline/Sugartree	Planned	Sacramento River	11/1/11	9:10 – 9:35	9,724		0.04	7.96	0.136	Dechlorination
W. Leland Rd between Delta Vista Ln & Chestnut DR	Planned	Sacramento River	11/1/11	14:05 – 14:30	7,480	17,204	0.05	7.64	0.413	Dechlorination
Bailey Rd/Maylard ST	Planned	Sacramento River	11/3/11	8:50 – 9:30	19,448		0.05	8.14	0.536	Dechlorination
Bailey Rd/Leland Rd	Planned	Sacramento River	11/3/11	9:50 – 10:20	9,724		0.04	8.05	0.506	Dechlorination
753 Bailey Rd	Planned	Sacramento River	11/3/11	10:50 – 12:20	29,172		0.00	8.32	1.08	Dechlorination
Bailey Rd/W. Leland Rd	Planned	Sacramento River	11/3/11	13:10 – 13:30	6,732	65,076	0.00	8.05	2.04	Dechlorination
2166 Peachtree Cir	Planned	Sacramento River	11/7/11	7:50 – 8:15	5,236		0.00	7.93	0.121	Dechlorination
Sugartree Dr/Peachtree Cir	Planned	Sacramento River	11/7/11	8:30 – 9:15	8,976		0.02	8.00	0.192	Dechlorination

C.15.b.iii.(1) ►Planned Discharges of the Potable Water System

Site/ Location	Discharge Type	Receiving Waterbody(ies)	Date of Discharge	Duration of Discharge (military time)	Estimated Volume (gallons)	Estimated Flow Rate (gallons/day)	Chlorine Residual (mg/L)	pH (standard units)	Discharge Turbidity[59] (NTU)	Implemented BMPs & Corrective Actions
2173 Jacqueline Dr	Planned	Sacramento River	11/7/11	9:55 – 10:15	6,732		0.00	8.16	0.204	Dechlorination
2188 Rancho Way	Planned	Sacramento River	11/7/11	10:50 – 10:55	748		0.00	?		Dechlorination
Sugartree Dr/Ranch Way	Planned	Sacramento River	11/7/11	11:15 – 11:45	14,212		0.00	8.07	0.184	Dechlorination
Sugartree Dr/Oaktree Ct.	Planned	Sacramento River	11/7/11	12:35 – 13:10	14,960		0.00	8.29	0.208	Dechlorination
Sugartree/Rosewood Ct	Planned	Sacramento River	11/7/11	13:20 – 14:10	20,944	71,808	0.00	7.18	0.185	Dechlorination
2249 Jacqueline Dr	Planned	Sacramento River	11/8/11	7:55 – 11:10	33,660		0.00	7.32	0.146	Dechlorination
Jacqueline Dr/Daffodil Dr	Planned	Sacramento River	11/8/11	11:40 – 12:05	10,472		0.03	8.04	0.211	Dechlorination
2230 Daffodil Dr	Planned	Sacramento River	11/8/11	12:15 – 12:25	3,740		0.01	7.97	0.183	Dechlorination
2218 Daffodil Dr	Planned	Sacramento River	11/8/11	12:30 – 12:45	2,992		0.05	7.79	0.179	Dechlorination
Jacqueline Dr	Planned	Sacramento River	11/8/11	13:05 – 13:15	3,740		0.03	8.22	0.244	Dechlorination
Jacqueline Dr/Rockridge Dr	Planned	Sacramento River	11/8/11	13:25 – 14:05	14,212		0.03	8.29	0.291	Dechlorination
Rockridge Dr/Zennia Ct	Planned	Sacramento River	11/8/11	14:10 – 14:25	3,740	72,556	0.04	8.31	0.255	Dechlorination
Rockridge Dr/Zennia Ct	Planned	Sacramento River	11/10/11	7:40 – 8:50	7,480		0.00			Dechlorination
Rockridge Way/Begonia Ct	Planned	Sacramento River	11/10/11	9:00 – 9:10	5,984		0.02	7.68	0.217	Dechlorination
2221 Begonia Ct	Planned	Sacramento River	11/10/11	9:40 – 10:05	5,984		0.02	7.71	0.391	Dechlorination
Rockridge & Daffodil Dr	Planned	Sacramento River	11/10/11	10:55 – 11:35	23,188		0.01	7.80	0.228	Dechlorination
2244 Montevideo Dr-dead end	Planned	Sacramento River	11/10/11	7:40 – 8:10	8,228		0.02	8.21	0.239	Dechlorination
Montevideo Dr/Serrano Way	Planned	Sacramento River	11/10/11	8:25 – 9:15	14,960		0.02	7.93	0.248	Dechlorination
2228 Montevideo Dr	Planned	Sacramento River	11/10/11	9:30 – 9:45	5,236		0.03	8.38	0.294	Dechlorination
2233 Montevideo Dr	Planned	Sacramento River	11/10/11	10:15 – 10:40	7,480		0.00	7.91	0.225	Dechlorination
2225 Ridgecrest Way	Planned	Sacramento River	11/10/11	11:00 – 11:20	6,732		0.03	8.14	0.391	Dechlorination
Montevideo	Planned	Sacramento River	11/10/11	11:30 – 12:05	11,968		0.03	8.23	0.411	Dechlorination

C.15.b.iii.(1) ►Planned Discharges of the Potable Water System

Site/ Location	Discharge Type	Receiving Waterbody(ies)	Date of Discharge	Duration of Discharge (military time)	Estimated Volume (gallons)	Estimated Flow Rate (gallons/day)	Chlorine Residual (mg/L)	pH (standard units)	Discharge Turbidity[59] (NTU)	Implemented BMPs & Corrective Actions
Dr/Ridgecrest Dr										
2225 Serrano Way	Planned	Sacramento River	11/10/11	13:20 – 13:35	2,992		0.01	8.19	0.394	Dechlorination
2213 Serrano Way	Planned	Sacramento River	11/10/11	14:00 – 14:20	4,488		0.03	7.96	0.421	Dechlorination
Chestnut Dr/El Pintado Ct	Planned	Sacramento River	11/10/11	8:10 – 9:15	29,172		0.00			Dechlorination
Sugartree Dr/El Saco Way	Planned	Sacramento River	11/10/11	8:00 – 8:50	17,204		0.01			Dechlorination
2188 Peachtree Cir	Planned	Sacramento River	11/10/11	2:20 – 2:40	5,236		0.00			Dechlorination
Pitts/Ant Hwy & Loveridge Rd	Planned	Sacramento River	11/10/11	10:55 – 11:57	20,944		0.02			Dechlorination
Pitts/Ant Hwy & Loveridge Rd – Blow Off	Planned	Sacramento River	11/10/11	12:00 – 12:48	14,212		0.08			Dechlorination
2244 Montevideo Dr	Planned	Sacramento River	11/10/11	14:30 – 14:42	2,992		0.00			Dechlorination
Serrano Ct/W. Leland Rd	Planned	Sacramento River	11/14/11	7:50 – 8:50	26,180		0.00	7.82	0.219	Dechlorination
San Remo Way/Ridgecrest Dr	Planned	Sacramento River	11/14/11	9:00 – 9:40	11,968		0.02	7.39	0.221	Dechlorination
2226 Montevideo Dr/San Remo Way	Planned	Sacramento River	11/14/11	9:45 – 10:05	5,984		0.03	7.48	0.293	Dechlorination
Montevideo Dr/San Remo Way	Planned	Sacramento River	11/14/11	10:45 – 11:00	4,488		0.03		0.188	Dechlorination
Montevideo Dr/Santa Susanna Way	Planned	Sacramento River	11/14/11	11:40 – 12:15	5,984		0.01		0.317	Dechlorination
858 Santa Susanna Way	Planned	Sacramento River	11/14/11	12:55 – 13:10	3,740		0.02		0.213	Dechlorination
Serrano Way/Santa Susanna Way	Planned	Sacramento River	11/14/11	13:15 – 13:55	15,708	74,052	0.04		0.242	Dechlorination
W. Leland Rd.(west end of park)	Planned	Sacramento River	11/15/11	8:40 - 9:35	12,716		0.05		0.453	Dechlorination
W. Leland Rd. (btwn	Planned	Sacramento River	11/15/11	11:40 – 12:50	21,692					Dechlorination

C.15.b.iii.(1) ►Planned Discharges of the Potable Water System

Site/ Location	Discharge Type	Receiving Waterbody(ies)	Date of Discharge	Duration of Discharge (military time)	Estimated Volume (gallons)	Estimated Flow Rate (gallons/day)	Chlorine Residual (mg/L)	pH (standard units)	Discharge Turbidity[59] (NTU)	Implemented BMPs & Corrective Actions
Serrano Way & Daffodil Dr)										
W. Leland Rd. & Jacqueline Dr	Planned	Sacramento River	11/15/11	13:05 – 13:40	14,212	48,620	0.03		0.148	Dechlorination
Arlington Cir/Arlington Ct	Planned	Sacramento River	11/21/11	7:45 – 8:25	15,708				0.078	Dechlorination
Arlington Cir/Waverly Way	Planned	Sacramento River	11/21/11	8:40 – 9:15	14,212		0.04		0.089	Dechlorination
3734 Arlington Cir	Planned	Sacramento River	11/21/11	9:20 – 9:35	3,740				0.090	Dechlorination
3204 Arlington Cir	Planned	Sacramento River	11/21/11		8,228		0.02		0.113	Dechlorination
Gladstone Dr/Arlington Cir	Planned	Sacramento River	11/21/11	10:50 – 11:20	17,204		0.02		0.099	Dechlorination
Gladstone Dr/Waverly Way	Planned	Sacramento River	11/21/11	11:25 – 12:05	12,716		0.02		0.174	Dechlorination
Fireside Way/Lawnview Ct	Planned	Sacramento River	11/21/11	13:00 – 13:25	11,220		0.02		0.098	Dechlorination
53 Lawnview Ct	Planned	Sacramento River	11/21/11	13:30 – 13:45	6,732		0.01		0.081	Dechlorination
Gladstone Dr/Oakmont Pl	Planned	Sacramento River	11/21/11	13:55 – 14:25	8,228	97,988	0.01		0.462	Dechlorination
Gladstone Dr/Mondana Pl	Planned	Sacramento River	11/28/11	8:20 – 9:05	8,976		0.02	7.75	0.209	Dechlorination
Gladstone Dr/Diokno Ct	Planned	Sacramento River	11/28/11	9:15 – 9:30	8,228		0.03	8.31	0.99	Dechlorination
Gladstone Dr/Valenzuela Ct	Planned	Sacramento River	11/28/11	9:50 – 10:15	5,236		0.03	8.05	0.142	Dechlorination
209 Jupiter Ct	Planned	Sacramento River	11/28/11	10:55 – 11:15	4,488		0.02	8.23	0.383	Dechlorination
192 Jupiter Ct	Planned	Sacramento River	11/28/11	11:20 – 12:05	13,464		0.03	8.02	0.158	Dechlorination
135 Saturn Ct	Planned	Sacramento River	11/28/11	13:05 – 13:20	4,488		0.03	8.13	0.163	Dechlorination
Milky Way/Saturn Ct	Planned	Sacramento River	11/28/11	13:30 – 13:55	8,228		0.03	7.94	0.180	Dechlorination

C.15.b.iii.(1) ►Planned Discharges of the Potable Water System

Site/ Location	Discharge Type	Receiving Waterbody(ies)	Date of Discharge	Duration of Discharge (military time)	Estimated Volume (gallons)	Estimated Flow Rate (gallons/day)	Chlorine Residual (mg/L)	pH (standard units)	Discharge Turbidity[59] (NTU)	Implemented BMPs & Corrective Actions
110 Mars Ct	Planned	Sacramento River	11/28/11	14:00 – 14:20	4,488	57,596	0.03	8.13	0.210	Dechlorination
34 Milky Way	Planned	Sacramento River	12/1/11	7:45 – 8:00	5,236		0.05		0.311	Dechlorination
15 Pluto Ct	Planned	Sacramento River	12/1/11	8:10 - 8:20	4,488		0.03		0.223	Dechlorination
43 Mercury Ct	Planned	Sacramento River	12/1/11	9:00 – 9:35	11,968		0.03		0.241	Dechlorination
Milky Way/Mercury Ct	Planned	Sacramento River	12/1/11	9:45 – 10:00	5,236		0.03		0.208	Dechlorination
69 Xena Ct	Planned	Sacramento River	12/1/11	10:25 – 10:35	4,488		0.05		0.446	Dechlorination
95 Venus Ct	Planned	Sacramento River	12/1/11	11:05 – 11:15	2,992		0.00		0.381	Dechlorination
Milky Way/Venus Ct	Planned	Sacramento River	12/1/11	12:30 – 13:00	11,220		0.04		0.236	Dechlorination
1416 Bobo Ct	Planned	Sacramento River	12/1/11	13:25 – 13:45	6,732		0.03		0.199	Dechlorination
Gladstone Dr/Bobo Ct	Planned	Sacramento River	12/1/11	13:55 – 14:15	7,480	59,092	0.02		0.289	Dechlorination
1704 Heatherwood Dr	Planned	Sacramento River	12/8/11	9:00 – 9:25	14,960	14,960	0.02			Dechlorination
1966 Canyon Oaks Dr	Planned	Sacramento River	12/12/11	8:30 – 8:40	4,488	4,488	0.05		0.503	Dechlorination
1938 Canyon Oaks Cir	Planned	Sacramento River	12/13/11	8:00 – 8:10	5,236		0.01		0.128	Dechlorination
Canyon Oaks Cir/Park West Dr	Planned	Sacramento River	12/13/11	8:45 – 9:00	8,228		0.04		0.219	Dechlorination
1145 Park West Dr	Planned	Sacramento River	12/13/11	10:05 – 10:15	4,488		0.01		0.128	Dechlorination
Canyon Oaks Cir/Park West Dr	Planned	Sacramento River	12/13/11	10:25 – 10:45	9,724		0.01		0.219	Dechlorination
Canyon Oaks Cir/Muir Creek Rd	Planned	Sacramento River	12/13/11	11:00 – 11:35	12,716		0.03		0.192	Dechlorination
1043 Muir Creek Dr	Planned	Sacramento River	12/13/11	11:40 – 11:50	2,992		0.01		0.303	Dechlorination
1011 Muir Creek Dr	Planned	Sacramento River	12/13/11	12:50 – 13:05	8,228	51,612	0.00		0.156	Dechlorination
Canyon Oaks Cir/Promenade Dr	Planned	Sacramento River	12/14/11	9:30 – 9:55	7,480		0.02		0.323	Dechlorination
941 Promenade Dr	Planned	Sacramento River	12/14/11	10:05 – 10:30	14,212		0.02		0.096	Dechlorination
60 Promenade Dr	Planned	Sacramento River	12/14/11	10:40 – 10:55	5,236				0.087	Dechlorination

C.15.b.iii.(1) ►Planned Discharges of the Potable Water System

Site/ Location	Discharge Type	Receiving Waterbody(ies)	Date of Discharge	Duration of Discharge (military time)	Estimated Volume (gallons)	Estimated Flow Rate (gallons/day)	Chlorine Residual (mg/L)	pH (standard units)	Discharge Turbidity[59] (NTU)	Implemented BMPs & Corrective Actions
Canyon Oaks Cir/Promenade Dr	Planned	Sacramento River	12/14/11	11:05 – 11:35	11,220		0.04		0.095	Dechlorination
Glen Canyon Cir/Ventura Dr	Planned	Sacramento River	12/14/11	12:45 – 13:35	19,448	57,596	0.04		0.075	Dechlorination
4432 Glen Canyon Cir	Planned	Sacramento River	12/16/11	7:45 – 7:55	4,488		0.05		0.126	Dechlorination
4408 Glen Canyon Cir	Planned	Sacramento River	12/16/11	8:05 – 8:20	6,732		0.02		0.229	Dechlorination
4376 Glen Canyon Dr	Planned	Sacramento River	12/16/11	8:30 – 8:45	5,984		0.04		0.150	Dechlorination
4332 Glen Canyon Dr	Planned	Sacramento River	12/16/11	9:05 – 9:35	11,968		0.03		0.113	Dechlorination
4312 Glen Canyon Cir	Planned	Sacramento River	12/16/11	10:30 – 10:40	3,740		0.03		0.174	Dechlorination
Mira Loma Dr/Chaparral Dr	Planned	Sacramento River	12/16/11	10:55 – 11:10	5,236		0.02		0.123	Dechlorination
4478 Mira Loma Dr	Planned	Sacramento River	12/16/11	11:15 – 11:25	4,488		0.04		0.127	Dechlorination
4450 Mira Loma Dr	Planned	Sacramento River	12/16/11	11:30 – 11:40	3,740		0.03		0.277	Dechlorination
212 Millbrook Dr	Planned	Sacramento River	12/16/11	12:40 – 12:50	3,740		0.02		0.306	Dechlorination
4426 Mira Loma Dr	Planned	Sacramento River	12/16/11	13:00 – 13:05	3740		0.03		0.197	Dechlorination
1840 Chaparral Dr	Planned	Sacramento River	12/16/11	13:20 – 13:35	5,236	62,832	0.02		0.207	Dechlorination
1858 Ventura Dr	Planned	Sacramento River	12/19/11	7:55 – 8:05	4,488	4,488	0.01		0.343	Dechlorination
Ventura Dr/Bridlewood Ct	Planned	Sacramento River	12/22/11	8:55 – 9:40	20,196		0.01		0.251	Dechlorination
52 Bridlewood Ct	Planned	Sacramento River	12/22/11	9:45 – 10:00	5,236		0.04		0.198	Dechlorination
Ventura Dr btwn Mira Loma Dr and Glen Canyon Dr	Planned	Sacramento River	12/22/11	11:35 – 11:45	3,740	29,172	0.04		0.238	Dechlorination
Meadows Ave/Canyon Oaks Dr	Planned	Sacramento River	12/29/11	8:30 – 9:00	11,220		0.04		0.214	Dechlorination
1772 Chaparral Dr	Planned	Sacramento River	12/29/11	9:15 – 9:35	8,228		0.01		0.099	Dechlorination
1736 Chaparral Dr	Planned	Sacramento River	12/29/11	9:50 – 10:00	4,488		0.04		0.248	Dechlorination

C.15.b.iii.(1) ►Planned Discharges of the Potable Water System

Site/ Location	Discharge Type	Receiving Waterbody(ies)	Date of Discharge	Duration of Discharge (military time)	Estimated Volume (gallons)	Estimated Flow Rate (gallons/day)	Chlorine Residual (mg/L)	pH (standard units)	Discharge Turbidity[59] (NTU)	Implemented BMPs & Corrective Actions
1746 Bridlewood Dr	Planned	Sacramento River	12/29/11	10:35 – 10:50	5,984				0.349	Dechlorination
Glen Canyon Dr/Creekwood Ct	Planned	Sacramento River	12/29/11	12:40 – 13:10	12,716				0.413	Dechlorination
13 Creekwood Ct	Planned	Sacramento River	12/29/11	13:15 – 13:25	3,740		0.03		0.329	Dechlorination
37 Silver Saddle Dr	Planned	Sacramento River	12/29/11	13:35 – 14:00	5,236	51,612			0.183	Dechlorination
Glen Canyon Dr/Bridlewood Dr	Planned	Sacramento River	12/30/11	7:55 – 8:35	17952		0.01		0.241	Dechlorination
Meadows Ave/Glen Canyon Dr	Planned	Sacramento River	12/30/11	9:00 – 9:35	14,212		0.03		0.352	Dechlorination
64 Glen Canyon Ct	Planned	Sacramento River	12/30/11				0.02		0.289	Dechlorination
16 Glen Canyon Ct	Planned	Sacramento River	12/30/11	10:02 – 10:30	3,740				0.209	Dechlorination
Glen Canyon DR/Silver Saddle Dr	Planned	Sacramento River	12/30/11	10:55 – 11:20	11,220		0.01		0.317	Dechlorination
31 Silver Saddle Ct	Planned	Sacramento River	12/30/11	11:30 – 11:40	4,488		0.03		0.183	Dechlorination
20 Saddlehorn Ct	Planned	Sacramento River	12/30/11	12:35 – 12:55	8,976	60,588				Dechlorination
114 Rangewood Dr	Planned	Sacramento River	1/9/12	8:05 – 8:20	4,488		0.03		0.142	Dechlorination
23 Rangewood Dr	Planned	Sacramento River	1/9/12	8:25 – 8:45	5,984		0.00		0.148	Dechlorination
20 Mill Springs Ct	Planned	Sacramento River	1/9/12	12:55 – 13:35	15,708		0.02		0.278	Dechlorination
48 Diamondwood Ct	Planned	Sacramento River	1/9/12	13:45 – 14:00	3,740		0.00		0.323	Dechlorination
170 Rangewood Dr	Planned	Sacramento River	1/9/12	11:20 - 11:35	7,480		0.01		0.138	Dechlorination
Rangewood Dr/Bridlewood Dr	Planned	Sacramento River	1/9/12	11:50 – 12:10	9,724		0.04		0.288	Dechlorination
134 Rangewood Dr	Planned	Sacramento River	1/9/12	9:10 – 9:35	8,228		0.03		0.132	Dechlorination
Rangewood Dr/Ventura Dr	Planned	Sacramento River	1/9/12	10:25 – 10:50	9,724	65,076	0.04		0.147	Dechlorination
644 Meadow Canyon Dr	Planned	Sacramento River	1/10/12	8:30 – 8:40	3,740		0.02		0.289	Dechlorination

C.15.b.iii.(1) ►Planned Discharges of the Potable Water System

Site/ Location	Discharge Type	Receiving Waterbody(ies)	Date of Discharge	Duration of Discharge (military time)	Estimated Volume (gallons)	Estimated Flow Rate (gallons/day)	Chlorine Residual (mg/L)	pH (standard units)	Discharge Turbidity[59] (NTU)	Implemented BMPs & Corrective Actions
543 Silver Saddle Dr	Planned	Sacramento River	1/10/12	9:25 – 9:35	5,984		0.00		0.184	Dechlorination
Rangewood Dr/Rich Spring Dr	Planned	Sacramento River	1/10/12	9:50 – 10:05	7,480		0.02		0.211	Dechlorination
Silversaddle Dr/Rich Spring Dr	Planned	Sacramento River	1/10/12	10:20 – 10:40	8,976		0.02		0.196	Dechlorination
Meadows Ave/Rangewood Dr	Planned	Sacramento River	1/10/12	12:40 – 13:25	18,700		0.04		0.203	Dechlorination
12 Diamondwood Ct	Planned	Sacramento River	1/10/12	13:45 – 14:00	6,732		0.01		0.189	Dechlorination
359 Saddlehorn Dr	Planned	Sacramento River	1/10/12	11:05 – 11:15	5,236		0.01		0.243	Dechlorination
20 Saddlehorn Ct	Planned	Sacramento River	1/10/12	11:50 – 12:05	8,228	65,076	0.04		0.261	Dechlorination
Heatherwood Dr/ Heatherwood Ct	Planned	Sacramento River	1/18/12	8:50 - 9:20	11,968		0.04		0.293	Dechlorination
1854 Heatherwood Dr	Planned	Sacramento River	1/18/12	9:25 – 9:45	8,228		0.02		0.187	Dechlorination
San Marcos Dr/Northwood Ct	Planned	Sacramento River	1/18/12	13:40-14:10	19,724		0.03		0.278	Dechlorination
66 Sherwood Ct	Planned	Sacramento River	1/18/12	14:15 – 14:30	4,488		0.03		0.249	Dechlorination
2086 Oak Ridge Ln	Planned	Sacramento River	1/18/12	12:35 – 12:50	4,488		0.03		0.338	Dechlorination
Oak Ridge Ln/San Marcos Dr	Planned	Sacramento River	1/18/12	12:55 – 13:55	111,220		0.01		0.289	Dechlorination
Heatherwood Dr/Sycamore Dr	Planned	Sacramento River	1/18/12	10:50 - 11:25	12,716		0.02		0.314	Dechlorination
2046 Heatherwood Dr	Planned	Sacramento River	1/18/12	11:30 – 11;45	2,992	175,824	0.00		0.421	Dechlorination
Sycamore Dr/San Marcos Dr	Planned	Sacramento River	1/19/12	7:50 – 8:35	14,212		0.04		0.298	Dechlorination
2062 Oakridge Ln	Planned	Sacramento River	1/19/12	11:15 – 11:30	4,488		0.04		0.341	Dechlorination
1916 Oakridge Ln	Planned	Sacramento River	1/19/12	13:25 – 13:50	10,472	29,172	0.00		0.368	Dechlorination
Oakridge Ln/Limewood	Planned	Sacramento River	1/27/12	7:55 – 8:35	13,464		0.03		0.241	Dechlorination

C.15.b.iii.(1) ►Planned Discharges of the Potable Water System

Site/ Location	Discharge Type	Receiving Waterbody(ies)	Date of Discharge	Duration of Discharge (military time)	Estimated Volume (gallons)	Estimated Flow Rate (gallons/day)	Chlorine Residual (mg/L)	pH (standard units)	Discharge Turbidity[59] (NTU)	Implemented BMPs & Corrective Actions
Pl										
Greenridge Dr/Heatherwood Dr	Planned	Sacramento River	1/27/12	8:50 – 9:20	8,228		0.04		0.075	Dechlorination
Greenridge Dr/Pinewood Pl	Planned	Sacramento River	1/27/12	9:40 – 10:10	11,968		0.04		0.060	Dechlorination
1697 Greenridge Ct	Planned	Sacramento River	1/27/12	10:45 – 11:10	7,480		0.03		0.086	Dechlorination
Greenridge Dr/Limewood Pl	Planned	Sacramento River	1/27/12	11:30 – 12:00	11,220	52,360	0.02		0.119	Dechlorination
Norine Dr/Limewood Pl	Planned	Sacramento River	1/30/12	9:00 - 9:20	6,732	6,732	0.04			Dechlorination
1642 Woodland Dr	Planned	Sacramento River	2/15/12	8:20 – 8:35	2,992		0.02		0.243	Dechlorination
1581 Woodland Dr	Planned	Sacramento River	2/15/12	8:40 – 8:50	2,992		0.03		0.301	Dechlorination
1585 Limewood Pl	Planned	Sacramento River	2/15/12	13:30 – 13:40	3,740		0.02		0.143	Dechlorination
1553 Limewood Pl	Planned	Sacramento River	2/15/12	13:45 – 14:30	14,960		0.03		0.143	Dechlorination
Woodland Dr/Roundhill Dr	Planned	Sacramento River	2/15/12	12:15 – 13:00	14,212		0.03		0.264	Dechlorination
3745 Cypress Way	Planned	Sacramento River	2/15/12	13:05 – 13:20	3,732	45,628	0.04		0.251	Dechlorination
34 Tahoe Pl	Planned	Sacramento River	2/17/12	8:45 – 9:20	9,724		0.03		0.198	Dechlorination
1636 Norine Dr	Planned	Sacramento River	2/17/12	9:25 – 9:35	2,992		0.01		0.302	Dechlorination
1602 Norine Dr	Planned	Sacramento River	2/17/12	10:05 – 10:15	2,992		0.00		0.187	Dechlorination
3805 Cypress Way	Planned	Sacramento River	2/17/12	10:20 – 10:45	7,480		0.00		0.109	Dechlorination
1546 Norine Dr	Planned	Sacramento River	2/17/12	11:05 – 11:15	3,740		0.00		0.210	Dechlorination
3758 Roundhill Dr	Planned	Sacramento River	2/17/12	11:40 – 12:00	8,976		0.04		0.230	Dechlorination
3810 Roundhill Dr	Planned	Sacramento River	2/17/12	13:15 – 13:50	10,472		0.01		0.284	Dechlorination
3866 Roundhill Dr	Planned	Sacramento River	2/17/12	14:00 – 14:25	7,480	53,856	0.03		0.198	Dechlorination
1503 Norine Dr	Planned	Sacramento River	2/21/12	8:20 – 9:00	14,212		0.01		0.367	Dechlorination
4174 Richard Pl	Planned	Sacramento River	2/21/12	9:00 – 9:50	8,976		0.00		0.499	Dechlorination

C.15.b.iii.(1) ►Planned Discharges of the Potable Water System

Site/ Location	Discharge Type	Receiving Waterbody(ies)	Date of Discharge	Duration of Discharge (military time)	Estimated Volume (gallons)	Estimated Flow Rate (gallons/day)	Chlorine Residual (mg/L)	pH (standard units)	Discharge Turbidity[59] (NTU)	Implemented BMPs & Corrective Actions
1450 Autumnwind Ct	Planned	Sacramento River	2/21/12	13:20 – 13:30	8,976		0.03		0.119	Dechlorination
Ventura Dr/Sandra Cir	Planned	Sacramento River	2/21/12	10:00 – 10:25	8,976		0.04		0.316	Dechlorination
4141 Sandra Cir	Planned	Sacramento River	2/21/12	10:45 – 11:15	9,724		0.04		0.111	Dechlorination
1393 Ventura Dr	Planned	Sacramento River	2/21/12	11:35 – 12:15	14,212		0.02		0.104	Dechlorination
1346 Ventura Dr	Planned	Sacramento River	2/21/12	12:50 – 13:05	3,740	64,328	0.01		0.325	Dechlorination
1355 Springhill Dr	Planned	Sacramento River	2/23/12	8:15 – 8:30	2,992		0.01		0.391	Dechlorination
1403 Springhill Dr	Planned	Sacramento River	2/23/12	8:35 – 8:55	4,488		0.00		0.355	Dechlorination
Palo Verde Dr/Gloria Dr	Planned	Sacramento River	2/23/12	10:30 – 11:00	9,724		0.01		0.211	Dechlorination
Palo Verde Dr/Alpine Dr	Planned	Sacramento River	2/23/12	11:35 – 11:50	4,488		0.02		0.480	Dechlorination
1714 Kingsly Dr	Planned	Sacramento River	2/23/12	12:35 – 12:45	2,992		0.03		0.314	Dechlorination
40 Oakbrook Pl	Planned	Sacramento River	2/23/12	13:00 – 13:30	8,976		0.01		0.211	Dechlorination
36 Alpine Ct	Planned	Sacramento River	2/23/12	9:10 – 9:45	10,472		0.04		0.343	Dechlorination
1370 Alpine Dr	Planned	Sacramento River	2/23/12	10:05 – 10:15	2,992		0.00		0.241	Dechlorination
Kingsly Dr/Cedarbrook Pl	Planned	Sacramento River	2/23/12	13:35 – 13:55	4,488	51,612	0.03		0.207	Dechlorination
Kingsly Dr/Cedarbrook Pl	Planned	Sacramento River	2/24/12	8:00 – 8:15	5,236		0.00		0.207	Dechlorination
1617 Kingsly Dr	Planned	Sacramento River	2/24/12	8:45 – 8:55	2,992		0.04		0.429	Dechlorination
4376 San Miguel Cir	Planned	Sacramento River	2/24/12	9:30 – 9:45	2,992		0.03		0.385	Dechlorination
4343 San Miguel Cir	Planned	Sacramento River	2/24/12	10:00 – 10:15	3,740		0.03		0.221	Dechlorination
1285 Gloria Dr	Planned	Sacramento River	2/24/12	10:45 – 11:30	8,228	23,188	0.03		0.219	Dechlorination
1048 Jensen Cir	Planned	Sacramento River	2/28/12	8:05 – 8:40	5,984		0.03		0.390	Dechlorination
1141 Jensen Cir	Planned	Sacramento River	2/28/12	8:50 – 9:45	16,456		0.02		0.398	Dechlorination
962 Jensen Cir	Planned	Sacramento River	2/28/12	10:10 – 10:30	5,984		0.04		0.411	Dechlorination
1225 Gloria Dr	Planned	Sacramento River	2/28/12	11:20 – 12:00	15,708		0.03		0.214	Dechlorination
1577 Kingsly Dr	Planned	Sacramento River	2/28/12	12:45 – 12:55	1,496		0.01		0.199	Dechlorination
Jewett Ave/Walnut Way	Planned	Sacramento River	2/28/12	13:15 – 13:35	7,480		0.04		0.138	Dechlorination

C.15.b.iii.(1) ►Planned Discharges of the Potable Water System

Site/ Location	Discharge Type	Receiving Waterbody(ies)	Date of Discharge	Duration of Discharge (military time)	Estimated Volume (gallons)	Estimated Flow Rate (gallons/day)	Chlorine Residual (mg/L)	pH (standard units)	Discharge Turbidity[59] (NTU)	Implemented BMPs & Corrective Actions
Jewett Ave/Jewett Ct	Planned	Sacramento River	2/28/12	13:45 – 14:00	5,236		0.02		0.143	Dechlorination
1046 Metten Ave	Planned	Sacramento River	2/28/12	14:15 – 14:25	2,992	61,336	0.02		0.176	Dechlorination
1533 Jensen Dr	Planned	Sacramento River	2/29/12	8:25 – 8:45	8,228		0.03		0.213	Dechlorination
Springhill Dr/Jensen Dr	Planned	Sacramento River	2/29/12	8:50 – 9:20	13,464		0.03		1.08	Dechlorination
1382 Jensen Dr	Planned	Sacramento River	2/29/12	9:30 – 9:45	2,992		0.03		0.328	Dechlorination
Jensen Dr/Horan Ct	Planned	Sacramento River	2/29/12	10:04 – 11:00	17,952		0.01		7.93	Dechlorination
Jensen Dr/Rochelle Ave	Planned	Sacramento River	2/29/12	11:20 – 11:55	10,472		0.01		0.273	Dechlorination
1203 Jensen Dr	Planned	Sacramento River	2/29/12	12:45 – 13:00	2,992		0.04		0.197	Dechlorination
1115 Jensen Dr	Planned	Sacramento River	2/29/12	13:05 – 13:15	3,740	59,840	0.01		0.358	Dechlorination
1532 Kingsly Dr	Planned	Sacramento River	3/6/12	8:25 – 8:40	2,244		0.03		0.218	Dechlorination
Suzanne Dr/Kingsly Dr	Planned	Sacramento River	3/6/12	10:30 – 11:15	12,716		0.03		0.189	Dechlorination
Suzanne Dr/Foothill Dr	Planned	Sacramento River	3/6/12	11:40 – 12:15	11,968	26,928	0.01		0.394	Dechlorination
1158 Jewett Ave	Planned	Sacramento River	3/12/12	7:55 – 8:10	3,740		0.01		0.138	Dechlorination
Jewett Ave/McDermott Ave	Planned	Sacramento River	3/12/12	10:35 – 11:15	9,724		0.02		0.140	Dechlorination
Jewett Ave/Rochelle Ave	Planned	Sacramento River	3/12/12	11:25 – 12:25	23,188		0.04		0.210	Dechlorination
1320 Jewett Ave	Planned	Sacramento River	3/12/12	13:25 – 13:55	8,976	45,628	0.00		0.215	Dechlorination
Diehl Way btwn Jewett Ave & Metten Ave	Planned	Sacramento River	3/13/12	7:55 – 8:15	5,236		0.04		0.130	Dechlorination
1134 Metten Ave	Planned	Sacramento River	3/13/12	8:25 – 8:55	8,228		0.02		0.626	Dechlorination
1174 Metten Ave	Planned	Sacramento River	3/13/12	9:00 – 9:45	19,448		0.04		0.091	Dechlorination
Metten Ave/McDermott Dr	Planned	Sacramento River	3/13/12	10:25 – 11:10	18,700		0.04		0.097	Dechlorination
1262 Metten Ave	Planned	Sacramento River	3/13/12	11:20 – 11:50	8,976		0.03		0.095	Dechlorination
Metten Ave/McFaul Dr	Planned	Sacramento River	3/13/12	13:10 – 13:50	14,212		0.03		0.115	Dechlorination

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Site/ Location	Discharge Type	Receiving Waterbody(ies)	Date of Discharge	Duration of Discharge (military time)	Estimated Volume (gallons)	Estimated Flow Rate (gallons/day)	Chlorine Residual (mg/L)	pH (standard units)	Discharge Turbidity[59] (NTU)	Implemented BMPs & Corrective Actions
4221 McDermott Dr	Planned	Sacramento River	3/13/12	14:05 – 14:30	6,732	81,532				Dechlorination
Foothill Dr/Kingsly Dr	Planned	Sacramento River	3/20/12	9:10 – 9:25	3,740		0.02		0.174	Dechlorination
Foothill Dr/Derby Pl	Planned	Sacramento River	3/20/12	9:50 – 10:25	7,480		0.02		0.186	Dechlorination
Foothill Way/Diehl Way	Planned	Sacramento River	3/20/12	11:20 – 11:50	3,740		0.04		0.146	Dechlorination
4349 Oakdale Pl	Planned	Sacramento River	3/20/12	12:40 – 12:55	2,992		0.04		0.109	Dechlorination
Oakdale Pl/El Arroyo Pl	Planned	Sacramento River	3/20/12	13:10 – 13:35	6,732	24,684	0.00		0.211	Dechlorination
Diehl Way/Alcosta Pl	Planned	Sacramento River	3/21/12	8:00 – 8:50	6,732		0.03		0.249	Dechlorination
Diehl Way/Oliver Way	Planned	Sacramento River	3/21/12	9:15 – 9:55	9,724		0.03		0.271	Dechlorination
Diehl Way/Suzanne Dr	Planned	Sacramento River	3/21/12	10:15 – 11:00	17,952		0.04		0.158	Dechlorination
4313 Goldenhill Dr	Planned	Sacramento River	3/21/12	13:15 – 13:25	2,244	36,652	0.04		0.143	Dechlorination
4301 Goldenhill Dr	Planned	Sacramento River	3/23/12	8:10 – 8:50	10,472		0.03		0.152	Dechlorination
Goldenhill Dr/Oliver Way	Planned	Sacramento River	3/23/12	8:55 – 9:30	10,472		0.04		0.138	Dechlorination
El Arroyo Pl/Thornhill Ct	Planned	Sacramento River	3/23/12	10:05 – 10:35	8,228	29,172	0.03		0.173	Dechlorination
Oakdale Pl/San Simeon Pl	Planned	Sacramento River	4/2/12	8:00 – 9:15	18,700		0.04		0.145	Dechlorination
4311 Thornhill Way	Planned	Sacramento River	4/2/12	12:35 – 12:45	2,244		0.03		0.111	Dechlorination
Thornhill Dr/Fair Oaks Way	Planned	Sacramento River	4/2/12	13:05 – 13:30	8,976		0.02		0.088	Dechlorination
Goldenhill Dr/Regent Dr	Planned	Sacramento River	4/2/12	13:45 – 13:55	2,244	32,164	0.03		0.103	Dechlorination
4302 St Paul Cir	Planned	Sacramento River	4/4/12	10:40 – 11:10	5,236		0.00		0.116	Dechlorination
St Paul Cir/Fair Oaks Way	Planned	Sacramento River	4/4/12	11:25 – 12:10	15,708		0.01		0.151	Dechlorination
Goldenhill Dr/Regent Dr	Planned	Sacramento River	4/4/12	13:30 – 14:19	19,448	40,392	0.00		0.108	Dechlorination
Inverness Dr/Barrie Dr	Planned	Sacramento River	4/5/12	9:15 – 10:00	8,228		0.04		0.105	Dechlorination
Suzanne Dr/Goldenhill Dr	Planned	Sacramento River	4/5/12	10:45 – 11:35	17,952				0.205	Dechlorination
4213 Suzanne Dr	Planned	Sacramento River	4/5/12	11:40 – 12:15	11,220		0.03		0.143	Dechlorination

C.15.b.iii.(1) ►Planned Discharges of the Potable Water System

Site/ Location	Discharge Type	Receiving Waterbody(ies)	Date of Discharge	Duration of Discharge (military time)	Estimated Volume (gallons)	Estimated Flow Rate (gallons/day)	Chlorine Residual (mg/L)	pH (standard units)	Discharge Turbidity[59] (NTU)	Implemented BMPs & Corrective Actions
1226 Steven Dr	Planned	Sacramento River	4/5/12	13:05 – 13:40	12,716	50,116	0.02		0.181	Dechlorination
1134 Steven Dr	Planned	Sacramento River	4/27/12	8:35 – 9:00	3,740		0.03		0.094	Dechlorination
1041 Steven Dr	Planned	Sacramento River	4/27/12	9:10 – 9:20	2,244		0.03		0.083	Dechlorination
Suzanne Dr/Steven Dr	Planned	Sacramento River	4/27/12	9:40 – 10:40	20,196		0.02		0.095	Dechlorination
Ventura Dr/Loveridge Rd	Planned	Sacramento River	4/27/12	11:45 – 12:10	6,732		0.04		0.091	Dechlorination
Casper St/Ventura Dr	Planned	Sacramento River	4/27/12	13:00 – 13:25	9,724	42,636	0.00		0.113	Dechlorination
1026 Ventura Dr	Planned	Sacramento River	4/30/12	8:30 – 8:55	5,984		0.00		0.201	Dechlorination
Ventura Dr/Stephanie Way	Planned	Sacramento River	4/30/12	10:00 – 10:20	5,236		0.00		0.178	Dechlorination
4175 Stephanie Way	Planned	Sacramento River	4/30/12	10:35 – 10:45	2,244		0.03		0.411	Dechlorination
4020 Granada Way	Planned	Sacramento River	4/30/12	11:05 – 12:30	29,920	43,384	0.03		0.510	Dechlorination
4020 Granada Way	Planned	Sacramento River	5/8/12	8:00 – 9:00	16,456		0.03		0.231	Dechlorination
836 Santa Ana Dr	Planned	Sacramento River	5/8/12	11:05 – 11:25	7,480		0.03		0.189	Dechlorination
Los Altos Pl/Santa Ana Dr	Planned	Sacramento River	5/8/12	13:18 – 14:00	17,204	41140	0.01		0.156	Dechlorination
Los Altos Pl/Lomitas Pl	Planned	Sacramento River	5/9/12	7:55 – 8:55	21,692		0.00		0.234	Dechlorination
Ventura Dr/Pamona Pl	Planned	Sacramento River	5/9/12	9:30 – 10:45	18,700		0.00		0.375	Dechlorination
805 Ventura Dr	Planned	Sacramento River	5/9/12	11:30 – 12:00	7,480		0.03		0.312	Dechlorination
717 Ventura Dr	Planned	Sacramento River	5/9/12	12:40 – 13:25	14,960		0.02		0.131	Dechlorination
Ventura Dr/Harbor St	Planned	Sacramento River	5/9/12	13:40 – 13:55	24,684		0.04		0.174	Dechlorination
4318 Inverness Dr	Planned	Sacramento River	5/9/12	14:15 – 14:33	5,236	92750	0.00		0.838	Dechlorination
Santa Ana Dr/Los Altos Pl	Planned	Sacramento River	5/11/12	8:50 – 10:00	23,936		0.00		1.74	Dechlorination
4318 Inverness Dr	Planned	Sacramento River	5/11/12	10:15 – 10:23	2,992		0.01		0.847	Dechlorination
4302 St Paul Cir	Planned	Sacramento River	5/11/12		3,740		0.00		0.568	Dechlorination
4301 Thornhill Way	Planned	Sacramento River	5/11/12	11:05 – 11:25	4,488		0.01		1.01	Dechlorination
Thornhill Way/Fair Oaks	Planned	Sacramento River	5/11/12	11:35 – 11:50	2,992	38,148	0.04		0.773	Dechlorination

C.15.b.iii.(1) ►Planned Discharges of the Potable Water System

Site/ Location	Discharge Type	Receiving Waterbody(ies)	Date of Discharge	Duration of Discharge (military time)	Estimated Volume (gallons)	Estimated Flow Rate (gallons/day)	Chlorine Residual (mg/L)	pH (standard units)	Discharge Turbidity[59] (NTU)	Implemented BMPs & Corrective Actions
Way										
4317 Inverness Dr	Planned	Sacramento River	5/23/12	13:50 – 14:00	2,992	2,992	0.00		0.244	Dechlorination
4270 Inverness Dr	Planned	Sacramento River	5/24/12	8:00 – 9:00	10,472		0.00		0.298	Dechlorination
4238 Inverness Dr	Planned	Sacramento River	5/24/12	9:35 – 9:45	2,244		0.01		0.196	Dechlorination
Inverness Dr/Barrie St	Planned	Sacramento River	5/24/12	9:55 – 11:05	14,960		0.01		0.234	Dechlorination
50 Lake St	Planned	Sacramento River	5/24/12	11:40 – 12:00	8,228	35,904	0.00		0.215	Dechlorination
4369 Hillview Dr	Planned	Sacramento River	5/25/12	8:30 – 9:00	6,732	6,732	0.01			Dechlorination
53 Laguna Cir	Planned	Sacramento River	6/11/12	8:05 – 8:20	5,236		0.01		0.166	Dechlorination
Laguna Cir/Laguna Pl	Planned	Sacramento River	6/11/12	8:30 – 9:45	29,920		0.01		0.343	Dechlorination
Laguna Cir/Zion Ave	Planned	Sacramento River	6/11/12	10:55 – 11:50	20,196		0.02		0.448	Dechlorination
Hillview Dr/Bryce Ave	Planned	Sacramento River	6/11/12	13:00 – 13:30	7,480		0.01		0.157	Dechlorination
19 Laguna Cir	Planned	Sacramento River	6/11/12	9:55 – 10:05	3,740		0.00		0.160	Dechlorination
26 Zion Ave	Planned	Sacramento River	6/11/12	10:15 - 10:40	11,968	7,8540	0.01		0.147	Dechlorination
15 Bryce Ave	Planned	Sacramento River	6/12/12	7:35 – 7:50	6,732	6,732	0.03		11.9	Dechlorination
Bryce Ave/Scenic Ave	Planned	Sacramento River	6/13/12	8:15 – 8:55	14,960		0.02		0.244	Dechlorination
26 Valley Dr	Planned	Sacramento River	6/13/12	10:35 – 10:55	3,740	18,700	0.00		2.90	Dechlorination
4296 Scenic Ave	Planned	Sacramento River	6/14/12	12:45 – 13:08	11,968		0.03		0.487	Dechlorination
4274 Ridge Dr	Planned	Sacramento River	6/14/12	13:15 – 13:30	4,488		0.02		0.232	Dechlorination
4305 Hillview Dr	Planned	Sacramento River	6/14/12	13:40 – 13:50		16,456	0.00		0.283	Dechlorination
Bryce Ave/Heights Ave	Planned	Sacramento River	6/15/12	7:35 – 8:50	35,904		0.03		0.103	Dechlorination
4286 Heights Ave	Planned	Sacramento River	6/15/12	9:20 – 9:48	6,732		0.04		0.241	Dechlorination
35 Carroll Dr	Planned	Sacramento River	6/15/12	12:35 – 13:00	5,236		0.02		0.207	Dechlorination
Barrie Dr/Carroll Dr	Planned	Sacramento River	6/15/12	13:10 – 14:00	22,440		0.01		0.142	Dechlorination
Campbell Dr/Carroll Dr	Planned	Sacramento River	6/15/12	10:45 – 11:25	13,464		0.03		0.298	Dechlorination
Campbell Dr/Campbell	Planned	Sacramento River	6/15/12	11:30 – 11:55	7,480	91,256	0.03		0.253	Dechlorination

C.15.b.iii.(1) ►Planned Discharges of the Potable Water System

Site/ Location	Discharge Type	Receiving Waterbody(ies)	Date of Discharge	Duration of Discharge (military time)	Estimated Volume (gallons)	Estimated Flow Rate (gallons/day)	Chlorine Residual (mg/L)	pH (standard units)	Discharge Turbidity[59] (NTU)	Implemented BMPs & Corrective Actions
Ct										
28 Barrie Dr	Planned	Sacramento River	6/18/12	7:55 – 8:15	6,732		0.01		0.138	Dechlorination
Campbell Dr/Barrie Dr	Planned	Sacramento River	6/18/12	8:35 – 9:10	9,724		0.01		0.171	Dechlorination
Campbell Dr/Lake St	Planned	Sacramento River	6/18/12	9:40 – 9:55	4,488		0.03		0.193	Dechlorination
4236 Ridge Dr	Planned	Sacramento River	6/18/12	12:40 – 13:00	8,228		0.02		0.219	Dechlorination
4224 Scenic Ave	Planned	Sacramento River	6/18/12	13:10 – 13:25	5,236	34,415	0.02		0.258	Dechlorination
4230 Heights Ave	Planned	Sacramento River	6/19/12	8:15 – 8:55	11,220		0.02		23.5	Dechlorination
Natalie Way/Fallbrook Ct	Planned	Sacramento River	6/19/12	10:10 – 10:30	14,960		0.01		1.04	Dechlorination
Natalie Way/Briarcliff Dr	Planned	Sacramento River	6/19/12	11:45 – 12:00	13,464		0.03		0.211	Dechlorination
Briarcliff Dr/Princeton Ct	Planned	Sacramento River	6/19/12	13:05 – 13:15	8,228		0.03		0.218	Dechlorination
Meadowbrook Cir/Fallenleaf Way	Planned	Sacramento River	6/19/12	13:30 – 14:15	16,456	64,328	0.03		0.247	Dechlorination
3954 Meadowbrook Cir	Planned	Sacramento River	6/20/12	8:30 – 9:30	13,464		0.00		0.327	Dechlorination
3942 Highgate Dr	Planned	Sacramento River	6/20/12	10:35 – 10:45	2,992		0.01		0.401	Dechlorination
Meadowbrook Cir/St Moritz Dr	Planned	Sacramento River	6/20/12	11:30 – 12:00	10,472	26,928	0.00		0.399	Dechlorination
2311 Loveridge Rd	Planned	Sacramento River	6/20/12	13:05 – 13:35	11,968		0.02		0.298	Dechlorination
2351 Loveridge Rd	Planned	Sacramento River	6/20/12	14:00 - 14:15	3,740	15,708	0.04		0.341	Dechlorination
St Moritz Dr/Goldenleaf Way	Planned	Sacramento River	6/22/12	7:50 – 8:40	17,204		0.03		0.277	Dechlorination
St Moritz Dr/Goldenleaf Way	Planned	Sacramento River	6/22/12	10:15 – 10:25	18,000		0.03		0.213	Dechlorination
Meadowbrook Cir/Newcastle Way	Planned	Sacramento River	6/22/12	13:50 – 14:15	11,220	47,124			0.256	Dechlorination
1210 Stoneman Ave	Planned	Sacramento River	6/25/12	8;20 – 9:20	14,212		0.02		0.256	Dechlorination
1022 Stoneman Ave	Planned	Sacramento River	6/25/12	10:00 – 10:15	3,740		0.02		0.131	Dechlorination

C.15.b.iii.(1) ►Planned Discharges of the Potable Water System

Site/ Location	Discharge Type	Receiving Waterbody(ies)	Date of Discharge	Duration of Discharge (military time)	Estimated Volume (gallons)	Estimated Flow Rate (gallons/day)	Chlorine Residual (mg/L)	pH (standard units)	Discharge Turbidity[59] (NTU)	Implemented BMPs & Corrective Actions
6 Meadowbrook	Planned	Sacramento River	6/25/12	13:30 – 13:50	7,480	25,432	0.03		0.095	Dechlorination
Meadowbrook Cir/Newcastle Wy	Planned	Sacramento River	6/26/12	7:30 – 8:20	11,968		0.01		0.660	Dechlorination
72 Meadowbrook Cir	Planned	Sacramento River	6/26/12	8:35 – 9:30	16,456		0.03		0.253	Dechlorination
445 Meadowbrook Cir	Planned	Sacramento River	6/26/12	9:40 – 9:55	4,488		0.04		0.112	Dechlorination
6 Meadowbrook Ave	Planned	Sacramento River	6/26/12	10:30 – 10:48	5,236		0.04		0.083	Dechlorination
Park Place Dr/Olivewood Dr	Planned	Sacramento River	6/26/12	11:10 – 11:15	15708		0.00		1.66	Dechlorination
Park Place Dr/Greenbriar Dr	Planned	Sacramento River	6/26/12	12:40 – 13:30	8,228		0.03		4.94	Dechlorination
3748 Greenbriar Dr	Planned	Sacramento River	6/26/12	13:35 – 13:45	3,740	65,824	0.00		0.775	Dechlorination
Stoneman Ave/Park Place Dr	Planned	Sacramento River	6/27/12	8:25 – 8:50	9,724		0.04		0.210	Dechlorination
Stoneman Ave/Harbor St	Planned	Sacramento River	6/27/12	10:20 – 11:30	26,928		0.03		0.197	Dechlorination
Harbor St/Stoneman Ave	Planned	Sacramento River	6/27/12	12:40 – 13:40	22,440		0.03		0.311	Dechlorination
3225 Harbor St	Planned	Sacramento River	6/27/12	14:00 – 14:15	3,740					Dechlorination
3225 Harbor St	Planned	Sacramento River	6/27/12	14:20 – 14:40	4,488					Dechlorination
Stoneman Ave/Park Place Dr	Planned	Sacramento River	6/28/12	8:25 – 8:50	9,724		0.04		0.210	Dechlorination
Stoneman Ave/Harbor St	Planned	Sacramento River	6/28/12	10:20 – 11:30	26,928		0.03		0.197	Dechlorination
Harbor St/Stoneman Ave	Planned	Sacramento River	6/28/12	12:40 – 13:40	22,440	59,092	0.03		.0311	Dechlorination
Brookside Dr/Pueblo Dr	Planned	Sacramento River	6/29/12	8:40 – 9:35	21,692		0.04		0.109	Dechlorination
209 Pueblo Dr	Planned	Sacramento River	6/29/12	9:45 – 10:01	6,732		0.03		0.231	Dechlorination
122 Redondo Dr	Planned	Sacramento River	6/29/12	10:30 – 11:00	6,732	35,156	0.03		0.248	Dechlorination

C.15.b.iii.(2) ►Unplanned Discharges of the Potable Water System[60]

Site/ Location	Discharge Type	Receiving Waterbody(ies)	Date of Discharge	Discharge Duration (military time)	Estimated Volume (gallons)	Estimated Flow Rate (gallons/day)	Chlorine Residual (mg/L)[61]	pH (standard units) [52]	Discharge Turbidity (Visual) [52,]	Implemented BMPs & Corrective Actions	Time of discharge discovery	Regulatory Agency Notification Time[62]	Inspector arrival time	Responding crew arrival time
There are no Unplanned Discharges to report this fiscal year.														

[60] This table contains all of the unplanned discharges that occurred in this FY.
[61] Monitoring data is only required for 10% of the unplanned discharges. If you monitored more than 10% of your unplanned discharges, report all of the data collected.
[62]. Notification to Water Board staff is required for unplanned discharges where the chlorine residual is >0.05 mg/L and total volume is ≥ 50,000 gallons. Notification to State Office of Emergency Services is required after becoming aware of aquatic impacts as a result of unplanned discharge or when the discharge might endanger or compromise public health and safety.

ATTACHMENTS

C.5.c.iii COMPLAINT AND SPILL RESPONSE PHONE NUMBER AND SPILL CONTACT LIST

CITY OF PITTSBURG N.P.D.E.S.

EMERGENCY & ENVIRONMENTAL MANAGEMENT

PHONE DIRECTORY

LOCAL GOVERNMENTAL CONTACTS

ENGINEERING DEPT.: (925) 252-4930
ENVIRONMENTAL AFFAIRS: (925) 252-4114

ANTIOCH STORMWATER CONTACT: (925) 779-7035

MAINTENANCE DEPARTMENT: (925) 252-4936
AFTER HOURS: (925) 252-4936

ANTIOCH MAINTENANCE DEPT.: (925) 779-6950
ANTIOCH AFTER HOURS: (925) 778-2441

PITTSBURG POLICE DEPARTMENT: (925) 252-4980

ANTIOCH POLICE DEPARTMENT: (925) 778-2441

COUNTY / REGIONAL GOVERNMENTAL CONTACTS

CONTRA COSTA COUNTYFIRE PROTECTION DISTRICT: (925) 757-1303

UNINCORPORATED CONTRA COSTA COUNTY: (925) 313-2259
AFTER HOURS CALL HAZMAT OR 911

CCC HAZMAT 24-HOUR EMERGENCY: (925) 646-1112

SHERIFF'S COMMUNICATIONS CENTER: (925) 646-2441

DELTA DIABLO SANITATION DISTRICT 24- HR:
(925) 382-6960

CCC ENVIRONMENTAL HEALTH SERVICES:
(925) 646-5225; 7:30A.M. – 5; 00P.M. WEEKDAYS

DELTA HOUSEHOLD HAZARDOUS WASTE COLLECTION FACILITY: (925) 756-1990

SAN FRANCISCO BAY REGIONAL WATER QUALITY CONTROL BOARD: (510) 622-2300 (Pittsburg)

EAST BAY REGIONAL PARK DISTRICT- FIRE DISTRICT
24-HOUR HOTLINE: (510) 881-1121

CENTRAL VALLEY REGIONAL WATER QUALITY CONTROL BOARD: (916) 464-4730 (Antioch)

STATE AND FEDERAL AGENCIES

OFFICE OF EMERGENCY SPILL LINE :
(800) 852-7550

CA HIGHWAY PATROL: (9250 646-4980

DEPT. OF FISH & GAME- 24 HOUR DISPATCH:
(831) 649-2801

CAL EPA – DEPT. OF TOXIC SUBSTANCE CONTROL
(Region 2): (510) 540-3856

CAL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION: (925) 602-6517

US COAST GUARD – MARINE SAFETY OFFICE:
(510) 437-3073 (Alameda) (707) 374-2655 (Rio Vista)

SHERIFF (MARINE): (707) 421-7090
24- HR: (707) 421-7084

VECTOR CONTROL: (925) 685-9301

C.7.h SCHOOL –AGE CHILDREN OUTREACH REPORT FOR KIDS FOR THE BAY'S WATERSHED ACTION PROGRAM

KIDS for the BAY
Celebrating 20 Years!

A Project of Earth Island Institute

1771 Alcatraz Avenue, Berkeley, CA 94703
Tel: (510) 985-1602 • Fax: (510) 547-4259
www.kidsforthebay.org

Mandi Billinge, Executive Director/Founder

July 20, 2012

Laura Wright
Sr. Administrative Analyst
City of Pittsburg
65 Civic Avenue
Pittsburg, CA 94565

Dear Laura,

Please find enclosed a final report for KIDS for the BAY's Watershed Action Program in the City of Pittsburg. I have also enclosed:

- Photographs of our students in action
  (Please note these photographs are for internal use only, as some families have requested their child's photographs not be released to the general public)
- Teacher and student thank you letters
- Student work samples; and
- KIDS for the BAY's Spring 2012 Newsletter

The Watershed Action Program (WAP) was successfully completed this school year. KIDS for the BAY successfully provided the WAP to twenty third, fourth, fifth and sixth grade classes throughout Contra Costa County in the 2011-12 school year reaching 574 students and twenty teachers. Two classes in Pittsburg experienced engaging classroom lessons, a hands-on field trip and an empowering action project. The final report highlights how the WAP has inspired the teachers, students and their families, and positively impacted the surrounding school environment.

I am excited to share with you that on Friday, June 15, KIDS for the BAY was featured on KPFA 94.1 FM's "Terra Verde" radio show. I had the opportunity to describe how KIDS for the BAY incorporates environmental action and environmental justice into our programs and I focused significantly on how our students are taking action to reduce storm drain pollution to the San Francisco Bay watershed. I hope you had an opportunity to listen to the show by following the KPFA website link that we emailed to you!

KIDS for the BAY is looking forward to celebrating our **20 Year Anniversary in October 2012**. We are currently working towards reaching our goals of **60,000 Inspired Environmentalists** and **2,650 Teachers** who have graduated from KIDS for the BAY programs by fall 2012. Thank you for your support for our work, which has enabled us to come this far! If you have any questions about the enclosed report or deliverables, please feel free to contact me. We look forward to continuing our relationship with the City of Pittsburg and delivering the Watershed Action Program in the 2012-13 school year.

Sincerely,

Mandi J. Billinge

Mandi Billinge
Executive Director

KIDS for the BAY
Environmental education through action

WATERSHED ACTION PROGRAM
FINAL REPORT

PREPARED FOR
THE CITY OF PITTSBURG

KIDS for the BAY
1771 Alcatraz Avenue
Berkeley, CA 94703

INTRODUCTION

KIDS for the BAY (KftB) successfully provided the Watershed Action Program to two classes in the City of Pittsburg reaching forty-five students and two teachers during the 2011-12 school year. The program is now complete and we are pleased to report that teachers, students and students' families learned about their local watershed and were inspired to take action to improve the health of their watershed.

Ms. Rocio Charles' and Mr. Jim Goble's third grade classes at Willow Cove Elementary School completed five classroom lessons, a service learning action project and a field trip to the Martinez Regional Shoreline.

The February 2012 Interim Report provided details on the classroom lessons completed earlier this school year. In this report you will find details and highlights from the action projects, and field trips through written descriptions, quotes from teacher, student and family participants, photographs, samples of student work and teacher evaluations.

SUMMARY OF 2011-2012 ACTION PROJECTS

Action projects are an integral component of the Watershed Action Program (WAP). They give students the opportunity to use the knowledge they gained during the classroom lessons to take action to protect their local watershed. KftB Instructors work with teachers and students to choose and implement action projects which ensures that students' projects are appropriate for the school's location and the community's needs.

Student Presentations and Campus Clean-Up

For their action project, the two third grade classes gave presentations to two different second grade classes about what they learned during the WAP. Ms. Charles' class wrote and performed a skit in Spanish about garbage and its impact on the local environment. They demonstrated how when lots of students throw trash on their playground it can get into storm drains which lead directly to their local creek. The class also created four large posters which they explained showed a healthy and unhealthy schoolyard, examples of polluting facilities, and how people shouldn't use chemical pesticides. "The pesticides can go into the storm drains and kill the animals," shared one of the third graders, Cindy. After the presentation Ms. Charles' students asked the second grade class what they learned from the presentation. "You shouldn't throw garbage on the ground because it is bad for the environment," announced a second grader in response. Inspired by the presentation, Ms. Charles' students and the second grade class then went outside and collected trash on their school campus. The students collected three large bags of garbage which included everything from little candy wrappers and chip bags, to a large window screen and old pieces of clothing.

Mr. Goble's students prepared for their presentation by brainstorming about what pollution is and how it affects our environment. Then they divided into five groups and

each group created a large poster that illustrated topics discussed during the WAP. During the presentation to the second graders, the students discussed how garbage can get into storm drains and travel to the nearby creek. They also talked about how it is possible to get pollution in our bodies through the fish we eat. Additionally, Mr. Goble's class wrote letters to the second graders explaining what pollution is and what they can do to help their environment. "Pollution is bad for the environment. Pollution affects and harms the animals. If you litter, you are polluting our communities and our environment," wrote a student named Vincent. "When I walk around and see trash that makes me want to do something. The way we can stop pollution is we can do a clean-up," shared Jesus. Another student, Galilea, made a great suggestion for preventing pollution at Willow Cove Elementary. She wrote, "Maybe Mr. Gonzales (the school principal) will let us all – first, second, third, fourth, and fifth graders – do a big clean-up around the school."

SUMMARY OF 2011-12 FIELD TRIPS

Field trips are an important culminating component of the WAP. After students learn about their local watershed during the classroom lessons, they visit a creek, bay or delta habitat near to the school's community. Each field trip is tailored to meet the needs of the class and location, and provides an opportunity for students to study, explore and appreciate the natural world. The experience allows students to personally connect with a local natural environment and generate a deeper understanding of how local waterways and bodies of water are linked to their own school and homes.

Martinez Regional Shoreline

Mr. Goble's and Ms. Charles' classes went to the Martinez Shoreline for their WAP field trip. The students and teachers were looking forward to seeing first hand what they had been learning about in the classroom during the WAP. Students immediately became scientists upon arrival to the shoreline by making observations of what they saw. "Look! there are so many birds," observed one student, Martin. "I see lots of boats and a long pier," observed another student, Kayla. They even noticed garbage in the water. A student in Mr. Goble's class, Joaquine, saw a plastic bag in the water. "Look! There is pollution in the water next to that bird," he said with concern.

During the plankton investigation activity students reviewed the important role that plankton plays in many aquatic food chains, which they learned during Lesson Three of the WAP. The students were then able to observe real plankton using microscopes. They concluded that they do not look like the cartoon character, Plankton, they were familiar with from the TV show SpongeBob SquarePants. "Wow, they are so small, I thought they would be bigger," commented a student, Cindy. Another student, David, observed, "I see little hairs coming out of some them, and some look like long chains." One parent commented on how much she appreciated the activity, "I always loved biology as a child. I think it is wonderful they are getting to look at the plankton through the microscopes," she said.

Bird watching was another highlight of the field trip. Students practiced using binoculars and a bird identification guide to identify birds. Immediately they began trying to identify nearby birds. "Those are Canada geese," explained one student, Vincent, correctly. While practicing with the binoculars, a group of birds began flying nearby capturing the students' attention. They quickly put their binoculars up to their eyes and had their identification guides out so they could identify what they were. A pair of gulls hovered in midair, riding the breeze, which impressed the students. "Imagine if you could fly like a bird," said KftB Instructor Mr. Yamagata. "I could go anywhere," answered a student, Linette.

While bird watching students identified rock doves, red-winged blackbirds, California gulls, mallard ducks and American coots. Ms. Charles' class even observed a snowy egret searching for food in the shallow waters. "I think it is shaking its leg in the water to help it to find food," said one student, Benjamin. A couple of students even spotted a camouflaged bird, a willit. "Look! The bird has a long beak that's how I knew what it was," explained a third grader, Joseph. Another student observed a red-winged blackbird so carefully that he could tell that it had yellow along with red on its wing!

Students also had the opportunity to conduct a clean-up at the shoreline to help the environment. They worked together in small groups and enthusiastically filled numerous garbage bags with trash from the site. "I am glad we could help the bay especially after seeing all the birds and other animals that live here," commented a student, Derek. Another student, Kayla, explained, "My favorite part of the field trip is when we picked up big, giant trash. We did that because we wanted the bay to be clean with no animals sick." Afterward, Ms. Charles noted, "Their favorite part was the shoreline clean-up. They were very excited and wanted to keep cleaning."

The field trip was a memorable and exciting educational experience for the students. At the end of the trip they sat quietly near the shoreline and created detailed oil pastel drawings. They drew the bay landscape, birds swimming in the lagoon, their class exploring the pier, and other things from the day's activities. As they finished, the students continued to express their happiness with the day. "This was the best field trip ever," stated a student, Tyres. Another student, Galilea added, "I wish we could use microscopes and binoculars all the time." The teachers agreed. "We had a wonderful time," Ms. Charles wrote, "My students learned a lot and had a lot of fun," added Mr. Goble.

COMMUNITY IMPACTS AND FOLLOW-UP PROGRAM

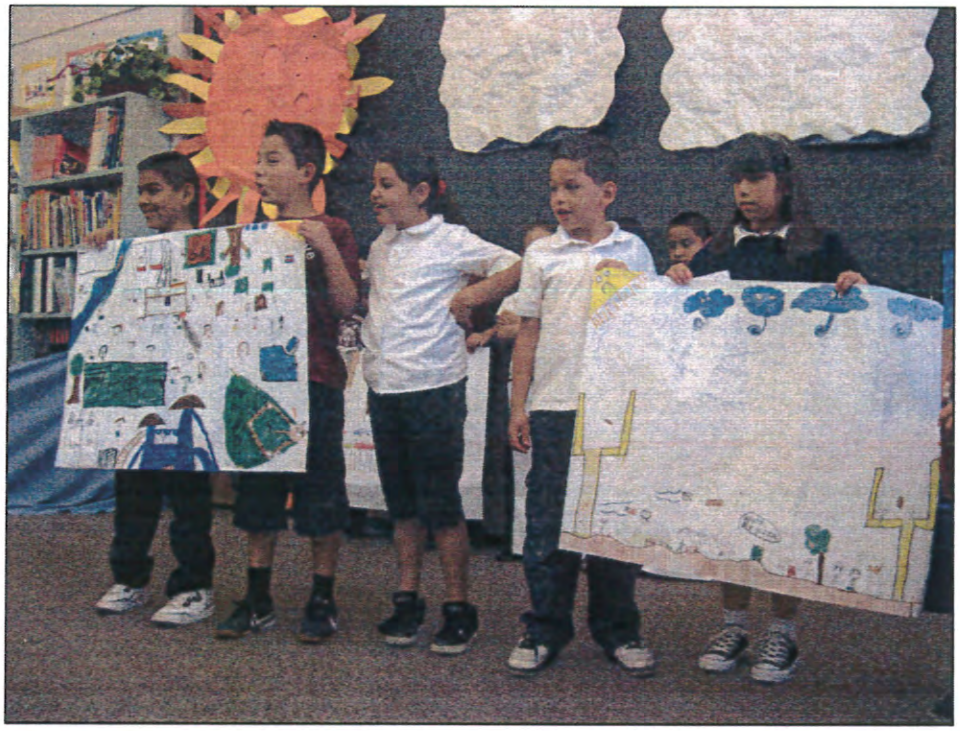
Through the WAP, teachers noticed that students increased their understanding of their impact on their environment, which had many positive outcomes. Mr. Goble noted, "I have a much cleaner classroom now! The students are much more informed about the effects of pollution on their environment." Ms. Charles observed, "I, as well as my students, have learned so much about our environment and the things we can do to keep it

clean and healthy. All lessons were very instructive and informative." Family members were impacted by the WAP as well through take-home assignments, a watershed pollution interview, volunteering on trips, and simply by students talking about what they learned.

Last school year a KftB Instructor trained third grade teachers Ms. Hue Phan-Le and Ms. Alice Lester at Willow Cove Elementary on the WAP. This school year Ms. Phan-Le received an equipment kit in the fall and enjoyed teaching the classroom lessons component of the WAP to her students. Ms. Lester retired from classroom teaching this school year. Now that three of the third grade teachers at Willow Cove Elementary have been trained on the WAP, they can support one another to make the program a grade-level project each school year.

In fall 2012 a KftB Instructor will contact Ms. Charles and Mr. Goble to prepare them to teach the WAP through the Follow-Up Program, which occurs during the second year of participation in the WAP. Teachers will receive access to an equipment kit and support from KftB Instructors to continue teaching the program to their new classes of students. KftB Instructors will also help teachers plan for the program, and discuss ways to integrate it into their school-year curriculum. Ms. Charles and Mr. Goble are looking forward to teach the WAP to future classes, and feel prepared to teach the program on their own in upcoming years.

Action Project: Student Presentations and Campus Clean-Up

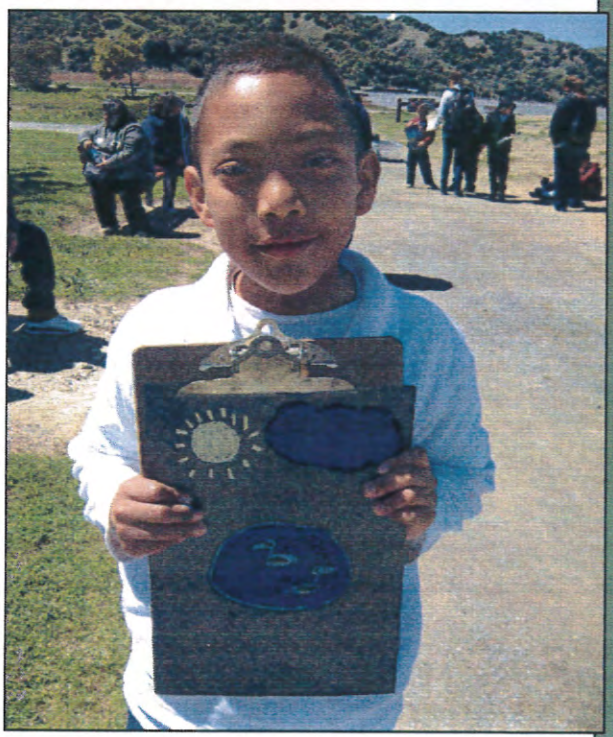


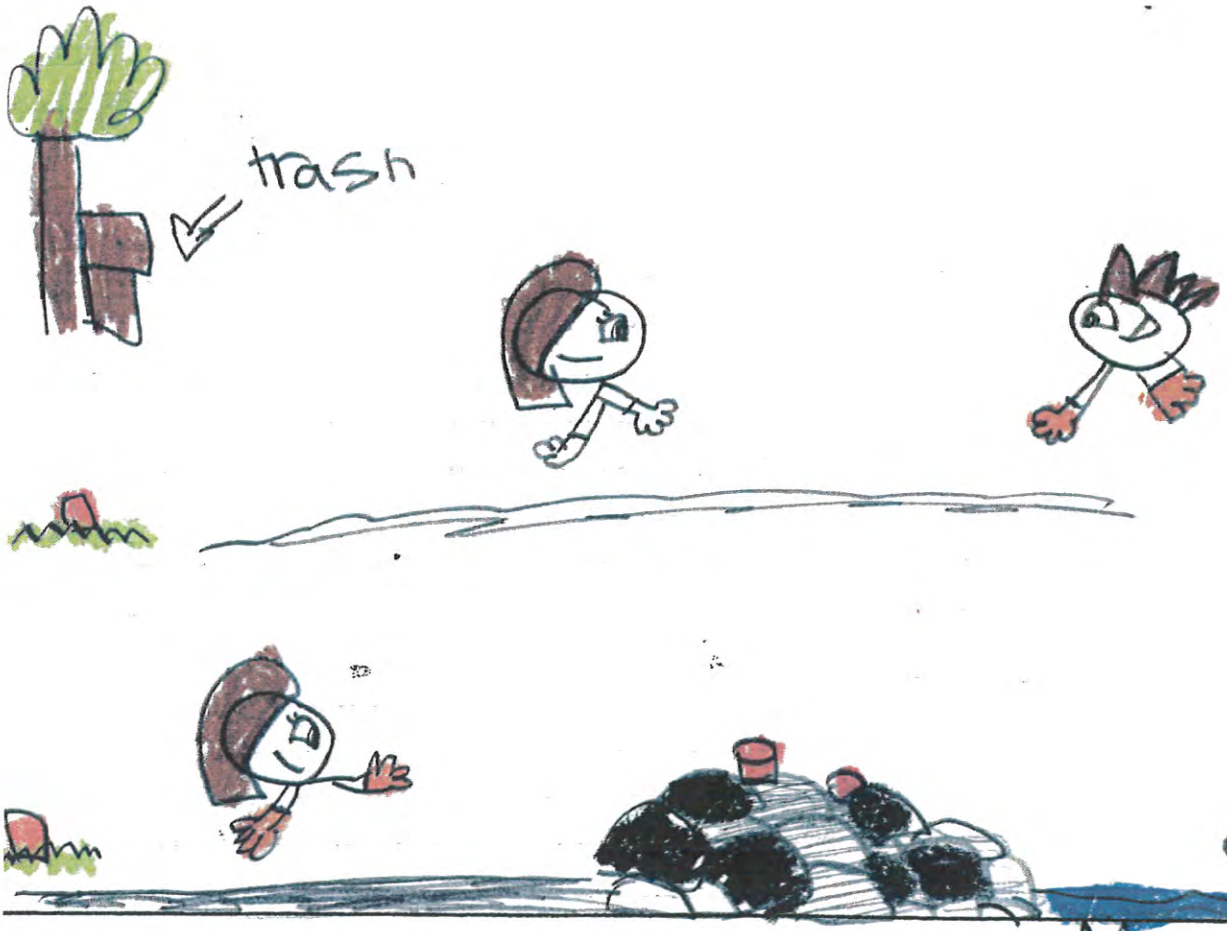
Students in Ms. Charles and Mr. Goble's classes at Willow Cove Elementary School gave presentations about what they learned during the WAP to second grade classes. They created informational posters and performed skits about keeping their watershed clean. After the presentation classes conducted a campus trash clean-up.

Field Trip: Martinez Regional Shoreline

Students from Willow Cove Elementary studied plankton using microscopes, investigated shorebird behavior and identified landmarks using binoculars, conducted a shoreline clean-up and created an artistic record of their experience. They recorded their notes and observations in scientific field journals.

Field Trip: Martinez Regional Shoreline





May 7, 2012

Dear Funder of the Watershed Nation Prog

My name is Kayla Nguyen. I am in 3rd grade at the Willow Cove Elementry School in Pittsburg. We have been studying about the importantant Watershed Action

Program with the kids for the Bay over the last five weeks. I wanted to thank you for opportanity to participate in the important program with us. My favorite activity was that we made an estruary, I learned that is not good to pollute the bay.

My favorite part about my favorite field trip is when we picked up the big, giant trash, we did that because we wanted the bay to be clean, and no animals sick.

Sincerely Kayla Nguyen

7 de junio del 2012

A quién corresponda,

Muchas gracias por ofrecer el programa de Kids for the Bay. Hemos aprendido bastante sobre la importancia de cuidar nuestro medio ambiente.

Hemos aprendido que la basura que cae al piso termina en los desagues que dan a los ríos, arroyos y el mar. Todo eso causa la contaminación del agua, la muerte de peces y también puede causar enfermedades. Por esta razón hemos limpiado nuestra escuela recogiendo basura y asegurándonos de que los demás no tiren su basura en el piso.

De todas las lecciones que tuvimos mi favorita fue la cadena de alimentación porque aprendí que los que estan arriba de la cadena de alimentación tienen más bacterias.

El paseo a la playa de Martínez fue divertido. Aprendí que las fábricas contaminan el aire, y que los pájaros se asustan con la gente cerca de ellos, que la cosa verde en las rocas se forma con el agua y que el plankton puede ser muy pequeño.

Sé que sin su apoyo este programa no

existiría. Por esa razón les agradesco todo lo que dan para que yo pueda participar en el programa.

Sinceramente,

Cindy Guzmán

May 17, 202

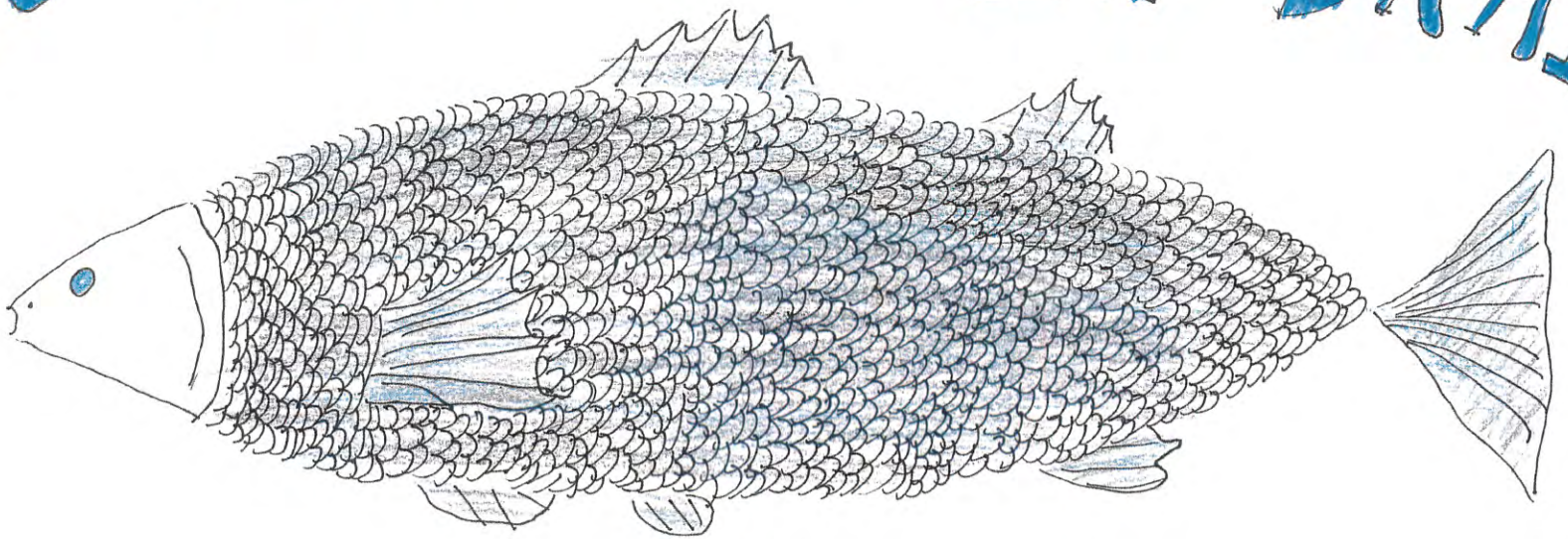
Dear 2nd Graders,

Do you like to have pollution on Earth?
Pollution can be harmful to many
animals and humans. Pollution can
also harm plants and many fish,
too. If you oil Earth you spoil it.
To help Earth you can also
do costal cleanup sometimes.
You can also stop bad fumes
like smoke. You can try to
clean up bad smells.

Sincerely,

Juliet V.

NO DUMPING IN DRAINS



KEEP OUR CREAKS CLEAN

DUMPING

DON'T DUMP IN STORM DRAINS

Stop the Pollution from taking Over the Planet!!!
save the world from Pollution!!!
help me I am hurt!
qwak
We can't hurt the Environments!!

If you don't like it!
We don't too!
Only you can help!
HELP OUR ENVIROMENT!

C.9 RESPONSE TO WATER BOARD STAFF COMMENTS ON SECTION 9, PROVISION C.9 OF FY 10-11 ANNUAL REPORT:

- CITY OF PITTSBURG RESOLUTION NO. 11-11676
- CITY OF PITTSBURG'S INTEGRATED PEST MANAGEMENT PLAN
- CURRENT STRUCTURAL IPM CONTRACT

BEFORE THE CITY COUNCIL OF THE CITY OF PITTSBURG

In the Matter of:

Resolution Establishing a Citywide Integrated Pest Management Policy) RESOLUTION NO. 11-11676

The Pittsburg City Council DOES RESOLVE as follows:

WHEREAS, the current Municipal Regional Permit, adopted on October 14, 2009, mandates that permittees adopt an Integrated Pest Management (IPM) Policy to minimize reliance on pesticides that threaten water quality and to require the use of Integrated Pest Management in municipal operations and on municipal property; and

WHEREAS, the City provided a copy of the IPM Policy to the Regional Water Quality Control Board, which requested specific changes to various municipalities' IPM Policies, including a requirement for adoption of the IPM by the City's governing body; and

WHEREAS, the attached draft IPM meets the requirements of the National Pollutant Discharge Elimination System Municipal Regional Permit.

NOW, THEREFORE, the City Council finds and determines as follows:

Section 1. The above recitals are true and correct, and are incorporated herein.

Section 2. A Citywide Integrated Pesticide Management Policy establishing standard procedures, plans, and actions for management of pests and vegetation on all City-maintained property and rights of way is hereby approved.

Section 3. The City Manager has the authority to approve future changes to the Integrated Pest Management Policy as appropriate.

Section 4. This resolution shall take effect immediately upon its adoption.

PASSED AND ADOPTED by the City Council of the City of Pittsburg at a regular meeting on the 18th day of July 2011, by the following vote:

AYES:	Evola, Johnson, Longmire, Parent, Casey
NOES:	None
ABSTAINED:	None
ABSENT:	None

Will Casey, Mayor

ATTEST:

Alice E. Evenson, City Clerk

CITY OF PITTSBURG

INTEGRATED PEST MANAGEMENT PLAN

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IPM Standard Operating Procedures for the City of Pittsburg

SECTION 1. INTRODUCTION

1.1 INTRODUCTION TO THE CITY OF PITTSBURG'S IPM PROGRAM

These procedures include all Municipal Regional Permit (MRP) stormwater requirements under Provision C.9, Pesticides Toxicity Control (please see APPENDIX A for specific requirements in the MRP). The City of Pittsburg and the Contra Costa Clean Water Program work in conjunction to track and participate in regulatory processes, interface with county agricultural commissioners, and conduct public outreach. For guidelines regarding the City of Pittsburg IPM program please refer to SECTION 4. of this document for the City of Pittsburg's IPM Policy. The department responsible for implementing, overseeing, reviewing and updating, and reporting the IPM program is the Public Works Environmental Center, Don Buchanan (925) 252-4014.

The IPM Program applies to all pest management related activities within the City of Pittsburg's jurisdiction, including all City of Pittsburg owned/operated facilities. Compliance with the provisions in the IPM Program is mandatory for all City of Pittsburg operations, and both current and future, contractors, and/or consultants providing pest management services to the City.

1.2 DEFINITIONS

CONTRACT: a binding written agreement requiring the services of an outside provider for grounds maintenance or any pest control related services.

CONTRACTOR: a person, firm, corporation or other entity, including a governmental entity that enters into a contract with a department.

EMERGENCY: a pest outbreak that poses an immediate threat to public health or significant economic or environmental damage.

EXEMPTION: a process by which materials not on the tiered product list can temporarily be used, but only after all alternatives have been reviewed, evaluated, and/or implemented and only after the IPM Coordinator has authorized the use of the pesticide for the specific purpose. The application for an exemption shall be filed on a form specified by and signed by the IPM Coordinator. The decision to approve an exemption will be based upon an evaluation of the failure of alternatives, and taking into consideration public health, environmental and financial risks.

HAZARDOUS MATERIAL: a chemical or mixture that may pose a physical hazard, health hazard, or environmental hazard and that is regulated under the law to control its harmful effects. This definition is not intended to be rigid or legalistic because all materials regulated in this manner merit special attention and consideration under this program.

INTEGRATED PEST MANAGEMENT: a decision-making and action process that uses the most appropriate pest control methods and strategy in an environmentally and economically sound manner to meet agency programmatic pest management objectives. IPM is also an ecosystem–based strategy that focuses on long-term prevention of pests or their damage through a combination of techniques such as biological control, habitat manipulation, modification of cultural practices, and use of resistant varieties.

IPM COORDINATOR: a designated individual that facilitates the IPM program and oversees the application of pesticides or contract pesticide applicators. The Public Works Superintendent may appoint a person to coordinate these activities and serve as the primary point of contact. The IPM coordinators shall be trained in the principles of low-risk IPM, safe application of pesticides and alternatives to pesticide use.

IPM POLICY: a written document that serves as a guideline for the City to use as a strategy to implement our IPM Program.

IPM PROGRAM: coordinated pest management approaches that implement the IPM policy, management plans specific to types of sites or pests, training requirements, record keeping, and evaluation practices.

LANDSCAPES: grounds that are actively managed such as parks, plantings and laws around public buildings, right-of-ways, watersheds, and open spaces.

PEST: any insect, rodent, nematode, snail, weed, fungus or other form of plant or animal life that adversely interferes with the aesthetic, health, safety, environmental or economic goals of a jurisdiction. Pest shall not include viruses or microorganisms on or in a living person or animal, but shall include plant diseases.

PESTICIDES: are chemical agents registered as pesticides by the California Food and Agricultural Code, Section 12753 of Chapter 2 of Division 7, which can be an herbicide, insecticide, fungicide or other chemical that repels, changes the regular growth rate of, kills, or otherwise reduces levels of a targeted pest or pests.

PESTICIDE FREE ZONES: a site or area within a site designated as a "Pesticide Free Zone" in order to further reduce and eliminate pesticide use in areas of higher public exposure or areas with high environmental sensitivity. Any pesticide use deemed necessary for the protection of public areas, public safety, and environment in these zones will only be authorized through the exemption process.

SUSTAINABLE DESIGN, CONSTRUCTION, AND MAINTENANCE: principles, materials, and techniques that conserve natural resources and improve environmental quality through the life cycle of landscape and its surrounding environment. Sustainable designs for buildings and landscapes incorporate methods that reduce the potential for pest problems from the start and with long-term maintenance needs in mind.

TOXICITY CATEGORY I PESTICIDE PRODUCT: any pesticide product that meets U.S. EPS criteria for Toxicity Category I under Section 156.10 of Title 40 of the Code of Federal Regulations.

TOXICITY CATEGORY II PESTICIDE PRODUCT: any pesticide product that meets U.S. EPA criteria for Toxicity Category II under Section 156.10 of Part 156 of Title 40 of the Code of Federal Regulations.

1.3 ACRONYMS AND ABBBREVIATIONS

BASMAA	Bay Area Stormwater Management Agencies Association
BMP	Best Management Practices
CCCWP	Contra Costa Clean Water Program
EPA	Environmental Protection Agency
IPM	Integrated Pest Management
MRP	Municipal Regional Permit
NPDES	National Pollutant Discharge Elimination System
SOP	Standard Operating Procedure
MSDS	Material Safety Data Sheet
DPR	Department of Pesticide Regulation
QAC	Qualified Applicator Certification
PCA	Pest Control Advisor

1.4 IPM PURPOSE

Integrated Pest Management (IPM) is a strategic approach for preventing and suppressing pest problems before they reach unacceptable levels while minimizing environmental impact, as well as risks to public health and safety. The IPM Program provides a comprehensive plan for pest management, which adhere to storm water regulations while reducing pesticide use and minimizing the risk of pesticide leaching or run off into storm drains or environmentally sensitive areas. IPM utilizes regular monitoring and record keeping to determine if and when treatments are needed and employs a combination of strategies and tactics to keep pest numbers low enough to prevent damage, reduction in esthetic values or risk to human health. Biological, cultural, physical, mechanical, educational and chemical methods are used in site specific combinations to solve pest problems with the least environmental impact. Chemical controls are used only as a last resort to and in the least toxic formulation that is effective against the pest.

1.5 IPM GOALS

The goal of our IPM program is to protect human health by suppressing pests that vector diseases, to reduce losses from pest damage, reduce environmental pollution, reduce human exposure to pesticides, particularly that of children, eliminate pesticide leaching and contamination of our storm water systems and waterways. In this approach to pest control treatments are not made according to a fixed schedule; they are made only when and where monitoring has indicated that the pest will cause unacceptable economic, esthetic, or medical injury or damage. In this IPM program, if treatments are needed, they are selected and timed to be most effective on the pest, least disruptive to its natural controls, and least hazardous to humans and the environment.

1.6 COMPONENTS OF THE IPM PROGRAM

An IPM program is a problem-solving method for landscape and structural management designed to prevent and control undesirable weeds, insects, fungi and rodents. The main components of an IPM program are listed in Table 1.

Table 1. **Main Components of an IPM Program**

IPM Goal:	To control pest problems.
IPM Policy	An IPM Program must have a written policy dictating an agency's plan for implementing their IPM Program.

IPM Implementation:	An IPM Program establishes the density of the pest population (that may be set at zero) that can be tolerated or correlated with a damage level sufficient to warrant treatment of the problem based on health, public safety, economic, or aesthetic thresholds. Treating pest problems to reduce populations below those levels established by damage thresholds using strategies that may include biological, cultural, mechanical, and chemical control methods and that must consider human health, ecological impact, feasibility, and cost-effectiveness.
IPM Monitoring	An IPM Program establishes a baseline within a jurisdiction of present pests and pest damage. An IPM Program evaluates the effects and efficacy of pest treatments.
IPM Training	Under the IPM Program, the City of Pittsburg shall provide appropriate training for its employees on this IPM program.
IPM Policy Review and Coordination	The City of Pittsburg may establish an internal IPM committee to develop the IPM program and to monitor its implementation. The IPM committee may include representatives from each department/division responsible for pest or vegetation management. The IPM committee may meet periodically to evaluate progress and experiences in implementing the City of Pittsburg IPM program, as well as suggest revisions to the IPM program.

1.7 IPM STORMWATER PERMIT GUIDELINES

The City of Pittsburg's current NPDES now a Bay Area Wide Stormwater permit or Municipal Regional Permit (MRP), No. CAS612008, Order Number R2-2009-0074, issued on October 14, 2009 states in Provision C.9 Pesticides Toxicity Control (Appendix A), all Permittees shall prevent the impairment of urban streams by pesticide-related toxicity and implement a pesticide toxicity control program that addresses their own and others' use of pesticides within their jurisdiction that pose a threat to water quality and that have the potential to enter the municipal conveyance system. Provision C.9 also includes requirements such as adoption and implementation of an IPM Policy or Ordinance, training of municipal employees to implement IPM, Tracking, and participation in regulatory processes for pesticides, interface with county agricultural commissioners, evaluating source control actions relating to pesticides, public outreach for pesticides, and outreach to pest control contractors.

Additional requirements of Provision C.9, such as tracking and participation in regulatory processes for pesticides, interfacing with county agricultural commissioners, and public outreach for pesticides will be done in conjunction with the Contra Costa Clean Water Program.

1.8 IPM POLICY PURPOSE

An IPM policy is a written document that serves as a guideline for agencies to use as a strategy to implement their IPM program. The City of Pittsburg's IPM policy has been written and reviewed by the appropriate municipal authorities, approved by municipal representatives who are responsible for implementing the main components of the IPM program and has been adopted for use by the City Council by Resolution 11-11676 on July 18, 2011. See Section 4 of this document for the City of Pittsburg's IPM Policy.

1.9 ROLES AND RESPONSIBILITIES

In order to establish an effective IPM program, individual tasks are delegated to Public Works staff representatives who are responsible for implementing the main components of an IPM program. The following are the designated municipal staff to oversee the IPM program:

Landscape:

- Don Buchanan(Public Works Superintendent) (925) 252-4014 and Anthony Baldazo (Public Works Supervisor) (925) 252-4025 (collectively, Landscape IPM Management)
- Greg St.Pierre (IPM coordinator) (925)252-4000

Structural:

- Bobby Joaquin (Public Works Superintendent) (925)252-4032 (Structural IPM Management / Structural IPM Coordinator)

IPM Management shall be responsible for:

1. Ensuring that department procedures, budget and staffing decisions support implementation of the IPM program (See Section V. implementation of the IPM Program)
2. Providing training to building grounds management staff in the requirements of the IPM program (see Appendix F for Training Records)
3. Designating and IPM Coordinator to ensure products used by the Department meet the standards outlined in the IPM program and represents the Department on the IPM Committee
4. At least annually and in conjunction with the IPM Coordinator report to the City Manager and/or City Council on the Department's implementation of the IPM program.
5. Manage all IPM Contracts with pesticide/herbicide applicators as needed (See Appendix B for sample contract agreement).

The IPM Coordinator shall be responsible for:

1. Coordinating efforts to adopt IPM techniques;
2. Communicating with all staff on the goals and guidelines of the program;
3. Coordinating training programs for staff;
4. Tracking all pesticide use and ensuring that the information is available to the public;
5. Prepare the IPM Annual Report;
6. Coordinating with other public agencies that are practicing IPM.

7. The IPM Coordinator will be responsible for preparing an annual report for the IPM program activities.

SECTION 2. IMPLEMENTATION PRACTICES

2.1 PESTICIDE SELECTION AND APPROVAL

This section outlines the specific practices to be followed for pesticide selection and approval, choosing a pesticide applicator/service, and appropriate pesticide application practices such as education and training for applicators, notification of applying a pesticide, record keeping and outreach to the public.

Pesticide use within the City of Pittsburg is determined by a risk assessment of each pest situation. Each risk assessment includes analysis of what pest is causing the damage (e.g., weed, insect, rodent, etc.), use of non-chemical pest control methods, monitoring of control of pests through non-chemical methods, then application of pesticides as a last resort. Pesticides used by the City of Pittsburg are selected based on risk assessment of the human health and environmental effects of the chemical selected.

In addition, the City will conduct inspections to ensure that any contractor employed to conduct pest control and pesticide application on municipal property engages in pest control methods consistent with this IPM Program. Contractors will be required to follow the City's IPM policy, SOPs, and BMPs, provide evidence to the City of having received training on current IPM techniques when feasible, and provide documentation of pesticide use on City property to IPM Management in a timely manner. In addition, contractors shall submit an IPM implementation plan to the City that includes:

- TYPES AND ESTIMATED QUANTITIES OF PESTICIDES THAT THE CONTRACTOR MAY NEED TO APPLY DURING ITS CONTRACTED WORK
- OUTLINE ACTIONS THE CONTRACTOR WILL TAKE TO MEET THE IPM PROGRAM TO THE MAXIMUM EXTENT PRACTICABLE
- IDENTIFY THE PRIMARY IPM CONTRACT FOR THE CONTRACTOR

Regarding IPM-certified contractors, at this time, IPM certifications are from EcoWise Certified, Green Shield, and GreenPro. In addition, the contractor will sign a contract for pesticide application services that includes the IPM implementation plan detailed above that has been approved by the City and contractor prior to the start of application services. A model contract for IPM services has been included in this document as Appendix B.

The City of Pittsburg will make product recommendations based on tiered risk assessment of pesticides. The IPM Coordinator and Management will develop this tiered risk assessment of pesticides. A prioritized list of products will be developed to identify products that may be targeted for future phase-out based on review of the product's contents, precautions, need for the product, and adverse health and environmental effects. The list shall be submitted as part of the annual report. The list

may also be used if determined appropriate by the IPM Coordinator in compliance with the emergency exemption process.

Criteria for developing the product list shall be based on acute and chronic toxicity of products and chemicals known to cause cancer and known to cause reproductive toxicity. Environmental impacts of the products shall also be considered. Pesticides listed in C.9 as pesticides of concern will go through a more rigorous process for use and approval than pesticides that are not on the approved list but are not considered pesticides of concern by the Water Board.

Products on the Tiered Product List will be divided into three classifications:

- Approved Use
- Limited Use
- Banned Use

See Appendix D for a list approved, limited use, and banned products. If the use of a material that is not on the Approved Use or Limited Use tier list is deemed necessary, the IPM Coordinator may apply for an emergency exemption.

2.3 EMERGENCY EXEMPTION

The Public Works Department may apply to IPM Management for an emergency exemption to use a Banned Use product in the event that an emergency pest outbreak poses an immediate threat to public health or significant economic damage will result from failure to use a pesticide. See Appendix D for a list of products phased out from prior use based on their product tier system. IPM Management shall respond to the application in a timely manner. If the requesting department is unable to reach IPM Management, the IPM Coordinator may authorize the one-time emergency use of the required pesticide. The IPM coordinator must notify IPM Management of the determination to use the pesticide prior to its application in the event that the IPM Coordinator is unavailable to make the request to IPM Management. IPM Management will review the circumstances of the emergency permit issued by the IPM Coordinator. Posting of pesticide use is done for joint use parks and recreational areas jointly used with the Pittsburg School District in accordance with the Healthy School Act. The IPM Coordinator may impose additional conditions for emergency applications such as limited use around sensitive areas housing people, wildlife habitat, and waters of the State. All pesticide application will abide by County, State and Federal application law.

2.4 ESTABLISHMENT OF PESTICIDE FREE ZONES

The City of Pittsburg has designated pesticide –free zones; zones free of pesticide application at various locations within the City. See attached map. All pesticide applications will be done only through the exemption process. The following areas have been established as "Pesticides Free Zones".

- Play grounds / tot lots
- Picnic Areas (hardscape areas)

- Creeks
- Environmentally Sensitive Areas

The City will base decisions to add to the list of Pesticide Free Zones upon monitoring the effectiveness of alternative pest control and other factors. It is the intention over time to expand these zones as times and sources allow.

2.5 PESTICIDE APPLICATOR/IPM PROVIDER SELECTION AND APPROVAL

City of Pittsburg will implement a process to ensure that any contractor employed to conduct pest control and pesticide application on municipal property engages in pest control methods consistent with this IPM program. Contractors will be required to follow the agency's IPM policy, SOPs, and BMPs; provide evidence to the City of having received training on current IPM techniques when feasible; and, provide documentation of pesticide use on agency property to the agency in a timely manner. In the process of hiring a contractor for IPM the contractor may be required to provide a statement of qualifications for IPM services. In addition, the contractor shall submit to the City an IPM implementation plan that includes:

- Types and estimated quantities of pesticides that the contractor may need to apply to during it's the contracted work;
- Outline actions the contractor will take to meet the IPM program to the maximum extent practicable; and
- Identify the primary IPM contract for the contractor.

The City shall require IPM certification from an approved IPM program such as Ecowise, Bay Friendly, Green Shield, or GreenPro or another program approved by the Regional Board. In addition, the contractor will sign a contract for pesticide application services that includes the IPM implementation plan detailed above that has been approved by the City and contractor prior to start of application services. A model contract for IPM services has been included in this document as Appendix B.

A contractor, or department/operating unit on behalf of a contractor, may apply for any material application exemption authorized under the exemptions section 2.1.d of this IPM program.

2.6 IPM APPLICATION

Only persons specifically appointed by the IPM Coordinator as Pesticide Applicators will be permitted to use pesticides on municipal facilities. Use of pesticides by pesticide applicators is limited to Approved Use and Limited Use Products. Pesticide applicators must follow regulations and label precautions.

Pesticide applicators and municipal employees that could potentially be exposed to pesticides will receive IPM training and hazard materials training for the safe use of pesticides and other grounds maintenance hazardous materials in the workplace by their supervisor or designee. As each municipal IPM program is updated and its objectives reviewed, the program staff will be trained accordingly to understand the program's periodic changes. Education will include formal classroom training, on-site informal meetings for those employees responsible for providing pest control at least

once per year. No pesticides may be used at facilities except in accordance with this IPM Program.

2.7 EDUCATION AND TRAINING

The Federal Pesticide, Fungicide, and Rodenticide Act and California Title 3, Division 6, Pesticides and pest Control Operations place strict controls over pesticide application and handling and specify training, annual refresher, and testing requirements. The regulations generally cover a list of approved pesticides and selected uses that is updated regularly, general application information; equipment use and maintenance procedures, and record keeping. The California Department of Pesticide Regulations and the County Agricultural Commission coordinate and maintain the licensing and certification programs. All municipal employees who apply pesticides and herbicides in "Agricultural use" areas such as parks, golf courses, rights-of-way and recreation areas should be properly certified in accordance with state regulations. Contracts for landscape maintenance will include certification requirements.

All staff associated with planning, design, construction and maintenance of buildings and landscapes shall receive an orientation to this IPM program and their roles and responsibilities in implementing it in a written or verbal format.

All municipal employees who handle pesticides should be familiar with the most recent material safety data sheet (MSDS) files.

The IPM Coordinator will be responsible for coordinating training events for all pesticide applicators and municipal staff involved with buildings and grounds maintenance. IPM training may be coordinated through the Contra Costa Clean Water Program or other through regional efforts with other Bay Area Stormwater Agencies Association (BASMAA) members. The IPM Coordinator shall invite speakers and arrange for other educational opportunities to assist implementing the IPM each year. The IPM Coordinator shall inform employees on Department policies and procedures relevant to this IPM Program and keep staff current with best landscape-management practices and technologies that utilize IPM. Employee shall also be involved in identifying and implementing strategies to minimize the use of pesticides and in evaluating replacements for chemicals targeted for phase-out.

All personnel involved in pest management activities shall receive training on:

- The IPM Program
- Identification and lifecycle of typical northern California pests, weeds, and beneficial insects, threshold levels for different landscapes, monitoring techniques, and strategies for successful management of these pests
- Noxious weed identification, control, and regulations
- Pesticide laws and safety
- Specific best management practices as appropriate

Training will be provided by the City of Pittsburg staff, IPM consultants, IPM technical advisors and invited guest speakers. The IPM Coordinator, with assistance from any existing IPM Committee, will schedule training. Training and educational opportunities, both formal and informal, will also occur at building and landscape staff meetings. Managers and supervisors are not only expected to participate in the training, but to fully support involvement of their staff and contractors in the training.

2.8 NOTIFICATION OF PESTICIDE APPLICATIONS

The City of Pittsburg does not have the authority to regulate the use of pesticides by school districts, however the California Healthy Schools Act of 2000 (AB 2260) has imposed requirements on California school districts regarding pesticide use in schools. Posting of notification prior to the application of pesticides is now required, and IPM is stated as the preferred approach to pest management in schools.

2.9 RECORD KEEPING/PROGRAM REVIEW

Annually the IPM Coordinator will gather information for the IPM Annual Report. Each user will submit a summary of the previous year's projects, a timeline for implementing pilot project recommendation and viable changes at other sites, and plans for any new pilot projects including changes that can be implemented in the next fiscal year. Pilot projects will be used to evaluate pesticide use, IPM program costs and cost savings.

Each department that uses pesticides shall keep records of all pest management activities (see Appendix F). Each record shall include the following information:

- Target pest,
- Type and quantity of pesticide used,
- Specific location of the pesticide application,
- Date of pesticide application,
- Application equipment used,
- Time/hours per person on each pest management activity,
- Prevention and other non-chemical methods of control used,
- Experimental efforts, if any; and
- Exemptions granted for that application.

Each department that uses pesticides shall maintain a pest management record (see Appendix "F" for form example). Pest management records shall be made readily available to the public upon request.

3.0 NOTIFICATION OF PESTICIDE APPLICATION

Any pesticide use shall comply with the following notification procedures:

1. Signs shall be posted at least two (2) working days before application of the pesticide product and remain posted at least two (2) working days after application of the pesticide.

2. Signs shall be posted at every entry point where the pesticide is applied if it is applied in an enclosed area; and in highly visible locations, signs will be posted around the perimeter of the area where the pesticide is applied.

3. Signs shall be of standard design that is easily recognizable to the public and City employees.

4. Signs shall contain the name and the active ingredient of the pesticide product, target pest, the date of pesticide use, the toxicity category of the pesticide product, the name and contact number for the Department responsible for the application.

5. Individual copies of posted signs shall be retained for record keeping purposes for one year.

Signs are not required in right –of way locations where public use and potential exposure is limited. For pesticides used in locations where their use is not posted shall develop and maintain a public access telephone number or website information regarding pesticide applications in these areas. The Public Works Superintendent may authorize the application of a pesticide without providing a two-day advance notification in the event of a public health emergency or to comply with worker safety requirements.

Pesticide use information shall be made available to City Staff and the public upon request. Each department shall maintain a list of all materials applied on a site-specific basis. The list shall be made available at each department's main offices or made available to the public upon request.

3.1 OUTREACH TO THE PUBLIC

Efforts will be made to educate the public about reduced risk pest management goals and practices implemented under the IPM program in the most effective manner given time and budget constraints. Various venues may be utilized for public education and information including:

- Website
- Articles in publications (newspaper and newsletters)
- Press release (as appropriate)
- IPM Program outreach campaign

Pesticide application information will be provided to the public upon request. The MRP requirements for public outreach include point of purchase outreach (outreach to consumers at the point of purchase), outreach to residents who use or contract for structural or landscape pest control, and outreach to pest control operators and landscapers. These outreach activities can be coordinated through the Contra Costa Clean Water Program and other members of BASMAA. In addition the City encourages businesses to become green certified.

3.2 PRECAUTIONARY PRINCIPLE

It is the policy of the City of Pittsburg to adopt, properly implement and practice low risk/least hazardous IPM with the goal of immediately minimizing the risk of pesticide exposure to staff, the environment and the public.

This IPM Program is based on what is referred to as the "Precautionary Principle" of pest management. The guiding principles in this program are based on the following:

1. No pesticide is free from risk or threat to human health,
2. All reasonable alternative measures of pest management have been attempted and have been demonstrated to be unsuccessful, and
3. Pesticides suspected of being in conflict with the mission and goals of this IPM program shall not be used without exemption, or until it is determined that a specific product is safe for use around sensitive individuals (i.e. children, elderly asthmatics, etc.)

The Precautionary Principle should guide decision-making processes when it comes to the health and safety of municipal staff and the public. All aspects of the IPM program will be in accordance with Federal and State laws and regulations.

SECTION 3. IPM PRACTICES

3.1 OVERVIEW

Section 3 discusses the three main types of managerial areas concerned with IPM, their definition, common pest concerns involved, and suggested management strategies for IPM implementation. In order to design an IPM program that will be implemented, specific IPM practices or BMPs need to be discussed. The BMPs discussed in this section are in no way comprehensive for the entire discipline of IPM. In addition, this IPM program is a working document and will be modified as more pest information and technologies become available. As problems with pests arise, the City of Pittsburg will develop a specific pest plan (see Appendix G for a sample) for that pest to determine the proper IPM method to eliminate the problem. This IPM program provides a list of resources in Appendix H that list IPM BMPs for an IPM program. Appendix H will be reviewed by the City as suggested list of IPM BMPs to begin to implement an IPM program. In the event that stormwater regulation is updated and/or IPM practices are updated from practical experience, this document will be updated accordingly.

3.2 LANDSCAPE IPM

Landscape IPM program within the City of Pittsburg involves the management and control of pests in parks, feature beds, medians, right of ways, Redevelopment Agency owned property, Kirker Creek, open spaces, and the GHAD District. The common pest concerns for landscape, turf, and open spaces, include: noxious and invasive weeds, gophers, ground squirrels, and any pests that exceed the esthetic threshold set by the Parks Manager and IPM Coordinator.

The City of Pittsburg's IPM program realizes a single method of control will not provide effective levels of sustainable control of a pest species whether it is an insect, weed or vertebrate species. A successful long term pest management program, as implemented by the IPM coordinator, is designed to include all possible control considerations to achieve the goal of promoting the most environmentally safe, cost effective and sustainable pest management practices that will ensure public end employee protection as well as reducing the use of pesticides and risk of pesticide run-off pollution.

The City of Pittsburg, Parks and Landscape division, currently practice the following IPM techniques:

- Protection of the storm drain system from contaminated runoff.
- Trimmings from trees and bushes are transported to Pittsburg Disposal services for green waste recycling.
- Pruning of large trees and tree removals are chipped into wood chips and stored for future use in feature landscape areas, medians, and right of ways for wed suppression.
- Private tree removal companies also donate quality wood chips to the parks department. The Parks Department also utilizes these wood chips in weed suppressions and increasing the esthetic values of our landscaped areas.

- Introduction of beneficial insect in the assistance of pest control. In the last five years we have been introducing ladybugs and preying mantis into our rose beds in Buchanan Park, Stoneman North Park, and Small World Park for the control of aphids. Using this approach with beneficial insects to control aphids has eliminated our use of the pesticide Malathion. In the occurrence of severe infestation of aphids in the rose beds we spray a mixture of water and Dawn dish soap. This mixture will temporarily kill the aphids and does not harm our beneficial insects.
- The City of Pittsburg Parks Department has also introduced mosquito fish into Buchanan Park pond and Small World Park ponds. With the introduction of mosquito fish they have rapidly multiplied and we have been able to transplant them in other areas such as the feature fountain at the Environmental Center. The use of these mosquito fish has allowed the City to refrain from fogging and spraying pesticides for mosquito control, even amongst the West Nile Virus scare.
- The use of drought tolerant and native plants.
- Using deep and infrequent watering techniques which encourages healthy root development and growth of desired plants while decreasing the opportunity for weed seed germination.
- Mowing turf at higher levels and encouraging a healthy, dense, turf growth has almost eliminated the use of broadleaf herbicides in turf areas.
- The use of crushed granite in both large and small picnic facilities has worked tremendously in weed suppression and has eliminated the use of herbicides to control weeds in these areas. In the rare occasion a weed develops in these areas mechanical removal is the easiest way to eradicate the pest.
- Manual trapping of gophers with carrots and Macabie traps.
- Weather stations and central irrigation technology installed citywide. This technology has almost eliminated the chances of over watering and irrigation runoff into storm drains and waterways by adjusting watering times on the current ET (evapotranspiration rate) rating from the weather station to meet daily plant and turf demands.
- 187,000 hours of supplemental labor supplied by the Work Alternative Program to assist in the mechanical removal of weeds.
- Many parks have now been switched over to reclaimed water irrigation systems. The reclaimed water usage has promoted the growth of an extremely dense and healthy turf. This has eliminated the use of fertilizers and selective broadleaf herbicides in those park turf areas.
- Installation of 4 artificial turf soccer fields. The use of artificial turf has completely eliminated the need for irrigation, the use of fertilizers and pesticides thus eliminating the potential for ground water contamination.
- Optimize the timing of pre-emergent applications for maximum benefits.
- If pesticides are required, spot treatment applications are the recommended form of treatment.

This IPM Program acknowledges the possibility of the contamination of groundwater by pesticides abuse or misuse and focuses on alternative actions. The IPM Coordinator will evaluate the effectiveness of any control measures implemented.

3.3 STRUCTURAL IPM

Structural maintenance includes the management of pests in and around building structures such as office complexes, libraries, correctional facilities, hospitals, schools, yards, animal shelters etc. Pest management in and around buildings typically involve a combination of chemical (insecticide) application and/or mechanical methods of removing pests. All of these maintenance practices have the potential to harm the environment and human health.

The City of Pittsburg will assess the current pest problems in and around their public buildings to develop a site-specific pesticide and grounds maintenance plan for all public sites as needed. These plans will include a management strategy for pests incorporating IPM practices for inside and outside all public buildings.

Many of the IPM protocols for removing such organisms from buildings involve prevention strategies.

The City of Pittsburg will follow the following protocol for developing a structural pest IPM Plan:

- Inspections of all buildings and grounds. Inspections will be performed by a pest management professional or PW facilities employee who is knowledgeable about pest biology and habits. Inspector will note situations that are conducive to pest populations and recommend repairs, sealing of pest entry points, clutter reduction, improved sanitation, and monitoring procedures.
- Performs repairs as needed to prevent pest access to buildings or to hiding spaces in walls and equipment. Also, repair any leaks and eliminate standing water wherever possible.
- Review sanitation practices and reduce clutter. Sanitation includes areas such as kitchen cleaning and maintenance, waste disposal procedures, and elimination of clutter. Clutter is an important harborage for many pests, including rodents, spiders, and cockroaches.
- Set up a monitoring program for pests.
- Identify potential pest species found and determine a control strategy. See appendix --- for sample Pest IPM Plan
- Contracted pest control services shall provide inspection and monitoring reports to the IPM Coordinator before any pest control services are provided. Contracted services shall be in compliance and follow the City of Pittsburg's IPM Program.

The IPM Coordinator will evaluate the effectiveness of any control measures implemented.

3.4 CONSTRUCTION AND DEVELOPMENT IPM

Construction and development IPM involves design and renovation of existing landscape. Poorly planned landscape designs may require intensive maintenance and greater reliance on pesticides for pest control than landscapes created with IPM design specifications.

New and renovated City landscaping projects should take into account parameters that will enhance the intended use of land and minimize pest problems; such as types of uses, soil conditions, grading and slope, water table, drainage, proximity to sensitive areas, selection of vegetation and vector control issues. Priority shall be given to IPM strategies when designing new and renovating existing landscape areas. The IPM Coordinator will evaluate the effectiveness of any control measures implemented.

SECTION 4 IPM POLICY

It is the purpose and intent of this IPM Policy to ensure that City of Pittsburg departments and all those who apply pesticides to property owned and/or managed by the City utilize integrated pest management (IPM) practices, eliminate or reduce pesticide applications on public-owned and/or City managed property to the maximum extent feasible and as required by State and Regional Stormwater regulation to take all reasonable measures to ensure that pest control activities do not threaten environmental and human health.

The City of Pittsburg, in carrying out its pest management operations, shall focus on long term prevention or suppression of pest problems with minimum impact on human health, non-target organisms, and the environment.

The goal of the City of Pittsburg is to reduce its pesticide use and ultimately replace all pesticides with non-toxic methods of controlling pests on City property. The City of Pittsburg recognizes that pesticides are potentially hazardous to human health and the environment, and non-pesticide alternatives will be considered over toxic pesticides on City property. The City of Pittsburg has developed an IPM program that outlines all the IPM activities that will be implemented to ensure that less toxic methods are used to control pests on City property. The City will include the following elements in their City's IPM program:

1. Establish inspection procedures to monitor pest population levels, perform thorough field assessments of each pest problem, and keep records of such monitoring. Monitoring should be performed by designated personnel or contractor knowledgeable in IPM methods.
2. Establish for each pest an IPM implementation plan which evaluates the biological, aesthetic, and economic loss each site can tolerate and set pest population levels at which corrective action should be taken to ensure that pests do not exceed tolerance levels.
3. Determine corrective actions when an action threshold is reached. Review and consider all available non-chemical options for acceptability and feasibility. Consider the use of chemicals only as a last resort. Select and use chemicals only in accordance with State, Federal and local law and in accordance to the pesticide selection method outlined in the [insert municipality] IPM program document.
4. Identify and evaluate conditions that encourage pest problems. Modify pest ecosystems to reduce food and living space through physical and cultural practices.

5. Determine most effective treatment time, based on pest biology and other variables identified during the above mentioned inspection and monitoring efforts during the field assessments of each pest problem.
6. Establish and maintain an accurate record-keeping system to catalog monitoring information and to document and evaluate the effectiveness of pest management procedures.
7. Evaluate the effectiveness of the IPM program and make adjustments as needed.
8. Conduct an ongoing education program for City of Pittsburg staff and members of the public.
9. Designate an IPM Coordinator and Committee to oversee that the IPM program is implemented correctly and appropriately to uphold this document's goals and objectives for IPM practices.
10. Hire pesticide applicators that incorporate IPM implementation in their services and bide them to all City IPM polices outlined in the City of Pittsburg's IPM program document.

APPENDIX A

PROVISION C.9 of the MUNICIPAL REGIONAL GENERAL PERMIT

C.9. Pesticides Toxicity Control

To prevent the impairment of urban streams by pesticide-related toxicity, the Permittees shall implement a pesticide toxicity control program that addresses their own and others' use of pesticides within their jurisdictions that pose a threat to water quality and that have the potential to enter the municipal conveyance system. This provision implements requirements of the TMDL for Diazinon and Pesticide related Toxicity for Urban Creeks in the region. The TMDL includes urban runoff allocations for Diazinon of 100 ng/l and for pesticide related toxicity of 1.0 Acute Toxicity Units (TUa) and 1.0 Chronic Toxicity Units (TUc) to be met in urban creek waters. However, urban runoff management agencies (i.e., the Permittees) are not solely responsible for attaining the allocations because their authority to regulate pesticide use is constrained by federal and State law. Accordingly, the Permittees' requirements for addressing the allocations are set forth in the TMDL implementation plan and are included in this provision.

Pesticides of concern include: organophosphorous pesticides (chlorpyrifos, diazinon, and malathion); pyrethroids (bifenthrin, cyfluthrin, beta-cyfluthrin, cypermethrin, deltamethrin, esfenvalerate, lambda-cyhalothrin, permethrin, and tralomethrin); carbamates (e.g., carbaryl); and fipronil. The Permittees may coordinate with BASMAA, the Urban Pesticide Pollution Prevention Project, the Urban Pesticide Committee, the Bay-Friendly Landscaping and Gardening Coalition, and other agencies and organizations in carrying out these activities.

C.9.a. Adopt an Integrated Pest Management (IPM) Policy or Ordinance

i. **Task Description** – In their IPM policies or ordinances, the Permittees shall include provisions to minimize reliance on pesticides that threaten water quality and to require the use of IPM in municipal operations and on municipal property.

ii. **Implementation Level** – If not already in place, the Permittees shall adopt IPM policies or ordinances no later than July 1, 2010.

iii. **Reporting** – The Permittees shall submit a copy of their IPM ordinance(s) or policy(s) in their 2010 Annual Report.

C.9.b. Implement IPM Policy or Ordinance

i. **Task Description** – The Permittees shall establish written standard operating procedures for pesticide use that ensure implementation of the IPM policy or ordinance and require municipal employees and contractors to adhere to the IPM standard operating procedures.

ii. **Reporting**

(1) In their Annual Reports, the Permittees shall report on IPM implementation by showing trends in quantities and types of pesticide used, and suggest reasons for increases in use of pesticides that threaten water quality, specifically organophosphorous pesticides, pyrethroids, carbaryl, and fipronil.

ensuring that pesticide applications comply with water quality standards; and

(4) As appropriate, the Permittees shall submit comment letters on USEPA and DPR re-registration, re-evaluation, and other actions relating to pesticides of concern for water quality.

ii. **Reporting** – In their Annual Reports, the Permittees who participate in a regional effort to comply with C.9.e. may reference a regional report that summarizes regional participation efforts, information submitted, and how regulatory actions were affected. All other Permittees shall list their specific participation efforts, information submitted, and how regulatory actions were affected.

C.9.f. Interface with County Agricultural Commissioners

i. **Task Description** – The Permittees shall maintain regular communications with county agricultural commissioners (or other appropriate State and/or local agencies) to (1) get input and assistance on urban pest management practices and use of pesticides, (2) inform them of water quality issues related to pesticides, and (3) report violations of pesticide regulations (e.g., illegal handling) associated with stormwater management.

ii. **Reporting** – In their Annual Reports, the Permittees shall summarize improper pesticide usage reported to county agricultural commissioners and report follow-up actions to correct violations.

C.9.g. Evaluate Implementation of Source Control Actions Relating to Pesticides

i. **Task Description** – The Permittees shall evaluate the effectiveness of the control measures implemented, evaluate attainment of pesticide concentration and toxicity targets for water and sediment from monitoring data (Provision C.8.), and identify improvements to existing control measures and/or additional control measures, if needed, to attain targets with an implementation time schedule.

ii. **Reporting** – In their 2013 Annual Reports, the Permittees shall report the evaluation results, and if needed, submit a plan to implement improved and/or new control measures.

C.9.h. Public Outreach (may be done jointly with other Permittees, such as through CASQA or BASMAA and/or the Urban Pesticide Pollution Prevention Project or the Bay-Friendly Landscaping and Gardening Coalition).

i. **Point of Purchase Outreach:** The Permittees shall:

(1) Conduct outreach to consumers at the point of purchase;

(2) Provide targeted information on proper pesticide use and disposal, potential adverse impacts on water quality, and less toxic methods of pest prevention and control; and

APPENDIX B

SAMPLE PESTICIDE APPLICATOR CONTRACT SPECIFICATIONS

City of Pittsburg IPM Contract

Structural Integrated Pest Management Program:
Contract Specifications for {INSERT FACILITY NAME HERE}

CONTRACT NO. _____

Premises covered by this specification:

1. _____

2. _____

3. _____

4. _____

5. _____

(Attach additional list if necessary)

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1. GENERAL

   A. Description of Program: This specification is part of a comprehensive Integrated Pest Management (IPM) program for the premises listed above. IPM is a process for achieving long-term, environmentally sound pest suppression and prevention through the use of a wide variety of technological and management practices. Control strategies in an IPM program include:
      - Structural and procedural modifications to reduce food, water, harborage and access used by pests.
      - Non-pesticide technologies such as trapping and monitoring devices.

- City Public Works Superintendent among all facilities management programs that have a bearing on the pest control effort.
- As a last resort, pesticide compounds, formulations and application methods that present the lowest potential hazard to humans and the environment.

B. IPM Service Requirements: The Service Provider shall furnish all supervision, labor, materials, and equipment necessary to accomplish the monitoring, trapping, pesticide application, pest removal and pest prevention components of this IPM program. Any deviations from this program must be approved by the City Public Works Superintendent

2. PESTS INCLUDED

The Service Provider shall adequately suppress all pest species that have the potential to affect public health, impede operations or damage property, including but not limited to:

- Indoor populations and invading individuals of rodents, insects, arachnids, and other arthropods.
- Outdoor populations of potentially indoor-infesting species that are within the property boundaries of the specified buildings.
- Nests of stinging insects within the property boundaries of the specified buildings.
- Termites and other wood-destroying organisms.
- Birds, bats, small mammals, and all other vertebrates.
- Mosquitoes.

3. PEST CONTROL PERSONNEL

Throughout the term of this contract, all personnel providing on-site pest control service must maintain certification as commercial pesticide applicators in the appropriate categories for the facilities listed above. Uncertified individuals working under the supervision of a certified applicator will not be permitted to provide service under this contract.

4. SERVICE PROVIDER IPM PLAN

The Service Provider shall submit to the CITY PUBLIC WORKS SUPERINTENDENT an IPM Plan at least five (5) working days prior to the starting

date of the contract. If aspects of the Plan are incomplete or disapproved by the CITY PUBLIC WORKS SUPERINTENDENT, the Contractor shall have two (2) working days to submit revisions. The IPM Plan shall consist of three parts as follows:

A. Pesticide Labels and MSD Sheets: The Service Provider shall provide current Labels and Material Safety Data Sheets for all pesticides that will potentially be used in the pest control program.

B. Service Schedule(s): The Service Provider shall provide a schedule of routine pest control inspections for each building serviced under this contract, including frequencies of inspections, areas at each facility to be given special attention (e.g., food storage, preparation and serving areas; washrooms; custodial closets; mechanical rooms; entryways) and specific day(s) of the week on which the inspections will be performed.

C. Commercial Pesticide Applicator Licenses and Certificates: The Service Provider shall provide a photocopy of the State-issued Commercial Pesticide Applicator License for every Contractor performing on-site pest control service under this contract, and a photocopy of the State-issued Commercial Pesticide Applicator Certificate for every pest management professional (PMP) performing on-site pest control service.

The Service Provider shall receive the approval of the City Public Works Superintendent prior to implementing any subsequent changes to the approved Service Provider IPM Plan, including additional or replacement pest control products. The Service Provider will review and update the Service Provider IPM Plan annually, including updating MSDS/labels as needed.

4. RECORD KEEPING

The Service Provider shall be responsible for maintaining an IPM logbook or file for each building specified in this contract. These records shall be kept on-site and maintained on each visit by the PMP performing pest control service. Each logbook or file shall contain at least the following items:

A. IPM Plan: A copy of the Service Provider's approved IPM Plan, including pesticide Labels and MSDS sheets for all pesticides that will be potentially used in the building, service schedule for routine pest control inspections, and photocopies of the relevant Commercial Pesticide Applicator Licenses and Certificates.

B. Building Occupant Log Form: These forms will be used to advise the Service Provider of routine service requests and pest sightings by building occupants.

C. Service Provider's Report Forms: Customer copies of the Service Provider's signed and dated Service Report Form, documenting all information on services provided including pesticide applications required by State and local statute. This form must also indicate any recommendations made by the Service Provider for additional action advisable by the customer, e.g., structural or plumbing repairs required to limit pest access to the building or to food and water resources; improvements in sanitation, etc. A copy of this form must also be provided to the City Public Works Superintendent within one week of the service.

D. Service Provider Products and Devices: All bait stations, snap traps and glue boards or other devices left behind by the Service Provider are to be dated, numbered and listed on the Service Provider Report Form and checked on each subsequent visit until removed. All such devices shall be removed when full, dirty and no longer effective, or no longer needed.

5. MANNER AND TIME TO CONDUCT SERVICE

A. Time Frame of Service Visits: Frequent and complete communication between the Service Provider and the facility manager is critical for a successful outcome. Routine pest control services that do not adversely affect staff or patient health or productivity shall be performed during the regular building hours of operation. When it is necessary to perform work outside of the regularly scheduled service time set forth in the Service Provider IPM Plan, the Contractor shall notify the City Public Works Superintendent and/or facility manager at least one day in advance.

B. Safety and Health: All pest control work shall be in strict accordance with all applicable Federal, State, and local safety and health requirements. Where there is a conflict between applicable regulations, the most stringent will apply.

C. Special Entrance: Certain areas within some buildings may require special instructions for persons entering them. Any restrictions associated with these special areas will be explained by the City Public Works Superintendent. The Service Provider shall adhere to these restrictions and incorporate them into the Service Provider IPM Plan.

E. Uniforms: All Service Provider representatives working in or around the buildings specified in this contract shall wear distinctive uniforms identifying the name of their employer.

F. Vehicles: Vehicles used by the Service Provider shall be identified in accordance with State and local regulations.

6. SPECIAL REQUESTS AND EMERGENCY SERVICE

On occasion, the City Public Works Superintendent may request that the Service Provider perform corrective, special or emergency service(s) that are beyond routine service requests such as removal of a stinging insect nest. The Service Provider shall respond to these exceptional circumstances and complete the necessary work within twenty-four (24) hours after receipt of the request.

7. INSECT CONTROL

A. Emphasis on Non-Pesticide Methods: Non-pesticide methods of control shall be used wherever possible. For example:

1. Portable vacuums rather than pesticide sprays shall be the standard method for initial cleanouts of cockroach infestations, for swarming (winged) ants and termites, and for control of spiders in webs.

2. Trapping devices rather than pesticide sprays shall be the standard method for indoor fly control.

B. Application of Insecticides to Cracks and Crevices: As a general rule, all insecticides shall be applied as "crack and crevice" treatments only, defined in this contract as treatments in which the formulated insecticide is not visible to a bystander or accessible to children during or after the application process.

C. Application of Insecticides to Exposed Surfaces or as Space Sprays: Application of insecticides to exposed surfaces or as space sprays ("fogging") shall be restricted to exceptional circumstances where no alternative measures are practical. The Service Provider shall obtain approval of the CITY PUBLIC WORKS SUPERINTENDENT prior to any application of insecticide to an exposed surface or any space spray treatment. No surface application or space spray shall be made while staff, patients or visitors are present. The Service Provider shall take all necessary precautions to ensure staff, patient and visitor safety, and all necessary steps to ensure the containment of the pesticide to the site of application.

D. Insecticide Bait Formulations: Bait formulations shall be the standard pesticide technology for cockroach and ant control, with alternate formulations restricted to unique situations where baits are not practical.

E. Monitoring: Sticky traps shall be used to guide and evaluate indoor insect control efforts wherever necessary.

8. RODENT CONTROL

A. Indoor Trapping: As a general rule, rodent control inside buildings shall be accomplished with trapping devices only. All such devices shall be concealed out of the general view and in protected areas so as not to be affected by routine cleaning and other operations. Trapping devices shall be checked on a schedule approved by the CITY PUBLIC WORKS SUPERINTENDENT. The Service Provider shall be responsible for disposing of all trapped rodents and all rodent carcasses in an appropriate manner.

B. Use of Rodenticides: In exceptional circumstances, when rodenticides are deemed essential for adequate rodent control inside buildings, the Service Provider shall obtain approval of the CITY PUBLIC WORKS SUPERINTENDENT prior to making any interior rodenticide treatment. All rodenticides, regardless of packaging, shall be placed either in locations not accessible to children, pets, wildlife and domestic animals, or in EPA-approved tamper-resistant bait boxes. As a general rule, rodenticide application outside buildings shall emphasize the direct treatment of rodent burrows wherever feasible.

C. Use of Bait Boxes: All bait boxes shall be maintained in accordance with EPA regulations, with an emphasis on the safety of non-target organisms. The Service Provider shall adhere to the following five points:

1. All bait boxes shall be placed out of the general view, in locations where they will not be disturbed by routine operations.

2. The lids of all bait boxes shall be securely locked or fastened shut.

3. All bait boxes shall be securely attached or anchored to floor, ground, wall, or other immovable surface, so that the box cannot be picked up or moved.

4. Bait shall always be secured in the feeding chamber of the box and never placed in the runway or entryways of the box.

5. All bait boxes shall be labeled on the inside with the Service Provider's business name and address, and dated by the Service Provider at the time of installation and each servicing.

10. USE OF PESTICIDES

The Service Provider shall be responsible for application of pesticides according to the label and all applicable regulations. All pesticides must be registered with the U.S. Environmental Protection Agency (EPA), State and/or local jurisdiction unless prior approval is given by the CITY PUBLIC WORKS SUPERINTENDENT. Transport, handling, and use of all pesticides shall be in strict accordance with the manufacturer's label instructions and all applicable Federal, state, and local laws and regulations.

The Service Provider shall adhere to the following rules for pesticide use:

A. Rentry Time, Posting and Notification: Pesticides may not be applied where staff, patients or visitors will be present within seven hours after the application. At least seventy-two hours prior to a pesticide application, the Service Provider shall post an 8 ½ x 11" pest control information sign both at the site of the application and near the facility reception area where it will be seen by visitors entering the facility. This posting shall include the date, time and location of the application; the product applied, potential adverse effects from the Material Safety Data Sheet (MSDS) and the pesticide label, and include the Service Provider name, address and telephone. Service Provider shall also provide this information to the facility director who will use this information to notify staff and patients who have requested notification. Emergency applications, where pests pose an immediate threat to the health and safety of patients, visitors or employees, disinfectants, anti-microbials and self-contained or gel-type pesticide baits applied in inaccessible areas are exempt from posting, notification and the 7-hour reentry requirement.

B. Approved Products: No pesticide product shall be applied that has not been included in the Service Provider IPM Plan or approved in writing by the CITY PUBLIC WORKS SUPERINTENDENT.

C. Pesticide Storage: The Service Provider shall not store any pesticide product in the buildings specified in this contract.

D. Application by Need: Pesticide application shall be according to need and not by schedule. As a general rule, application of pesticides in any inside or outside area shall not occur unless visual inspection or monitoring devices indicate the presence of pests in that specific area, and only after all non-toxic means have been exhausted and shown to be unsuccessful. Requests for preventive pesticide treatments in areas where surveillance indicates a potential insect or rodent infestation will be evaluated by the CITY PUBLIC WORKS SUPERINTENDENT on a case-by-case basis. Written approval must be granted by the CITY PUBLIC WORKS SUPERINTENDENT prior to any preventive pesticide application.

E. Minimization of Risk: When pesticide use is necessary, as a last resort the Service Provider shall employ the least hazardous material, most precise application technique and minimum quantity of pesticide necessary to achieve control.

11. SUMMARY

Service Provider agrees to the following:

1. Review the INSERT YOUR FACILITY NAME HERE IPM Policy, IPM Plan and Contractions Specifications and discuss any deviations from these documents with the CITY PUBLIC WORKS SUPERINTENDENT.

2. Provide training for all employees serving facilities consistent with the INSERT YOUR FACILITY NAME HERE IPM Policy, IPM Plan and Contract Specifications.

3. Provide a Service Provider IPM Plan including MSDS, labels, inspection schedule and applicator certifications and licenses to the CITY PUBLIC WORKS SUPERINTENDENT for approval at least five days before the contract start date. Update the Service Provider IPM Plan annually.

4. Provide a binder for each facility serviced including the IPM Plan, a pest sightings log and a section for service records.

5. Provide service consistent with the INSERT YOUR FACILITY NAME HERE IPM Policy, Plan and Specifications, and obtain written approval from the CITY PUBLIC WORKS SUPERINTENDENT before deviating from these documents.

CONTRACT ATTACHMENT A. PRE-APPROVED PEST CONTROL PRODUCT LIST

The following products may be used with justification and according to the specifications above:

APPENDIX C

NOTICE OF PESTICIDE APPLICATION

City of Pittsburg
Environmental Services Department

NOTICE OF PESTICIDE APPLICATION

Day: _____ Date: _____

The material(s) being applied is(are): _____

_____

_____

_____

Product Toxicity Category: _____

_____

_____

_____

Target Pest: _____

Area Treated: _____

SIGNS WILL REMAIN 48 HOURS AFTER PESTICIDE APPLICATION.

IF YOUHAVE ANY QUESTIONS, PLEASE CALL: _____

AT: _____

APPENDIX D

PESTICIDE SPECIFIC IPM IPMLEMENTATION

A. APPROVED USE PRODUCTS

These pesticides have been approved for use by IPM Management along with any restrictions for such use. The Approved Use Products list shall include but are not limited to:

- Insecticides, rodenticide baits and traps
- Caulking agents and crack sealants
- Borates, silicates, and diatomaceous earth
- Soap-based products
- Natural products on the FIRFA's 23(b) list (40 DFR part 152.25 (g)(1))[1]
- Natural products on the California Certified Organic Farmer's organic list
- EPA GRAS- generally recognized as safe products pursuant to Federal EPA
- Cryogenics, electronic, products, heat, and light
- Biological controls such as parasites and predators
- Physical Barriers
- Sluggo
- Pheromones and attractants for traps

B. LIMITED USE PRODUCTS

The IPM Coordinator may grant a recommendation that particular pesticides not classified as the Approved use be approved for a specific purpose. Limited use products may not be a pesticide on the Banned Use Product. The request to use a product on the limited Use list must be reviewed and approved by IPM Management. A limited use exemption may be granted upon a finding that the requestor has:

1. Identified a compelling need to use the pesticide.
2. Made a good faith effort to find alternatives to the particular pesticide.
3. Demonstrated that effective, economic alternatives to the particular pesticide do not exist for the particular use.
4. Developed a reasonable plan for investigating alternatives to the pesticide in question during the exemption period.

C. BANNED USE PRODUCTS

The following high health risk pest management products are completely banned from use in Contra Costa:

1. PESTICIDES LINKED TO CANCER (US EPA CLASS A, B, AND C CARCINOGENS AND CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER UNDER PROPOSITION 65).
2. PESTICIDES THAT CAUSE BIRTH DEFECTS, REPRODUCTIVE, OR DEVELOPMENT HARM (IDENTIFIED BY THE US EPS OR KNOWN TO THE STATE OF CALIFORNIA UNDER PROPOSITION 65 AS REPRODUCTIVE OR DEVELOPMENT TOXINS).
3. PESTICIDES CLASSIFIED AS TOXICITY CATEGORY I AND II PESTICIDE PRODUCTS BY THE US EPA, CARBONATE, AND ORGANOPHOSPHATE PESTICIDES.
4. FOGGERS, BOMPOB, FUMIGANTS, OR SPRAYS THAT CONTAIN PESTICIDES IDENTIFIED BY THE STATE OF CALIFORNIA AS POTENTIALLY HAZARDOUS TO HUMAN HEALTH (CFR 6198.5)
5. PESTICIDES THAT INTERFERE WITH HUMAN HORMONES.

APPENDIX E

PESTICIDE MANAGEMENT RECORDS

Contract Pesticide Usage
City Building
FY 2010 - 2011

Vendor: HomeTeam Pest Defense
Monthly Service

	Date	Target Pest	Concentration	Amount
Library	6/7/2010	General/Ants/Spiders	.03% @ .75oz	1 Gal
City Hall	6/18/2010	General/Ants/Spiders	.03% @ .75oz	1 Gal
Library	7/12/2010	General/Ants/Spiders	.03% @ .75oz	1 Gal
City Hall	7/23/2010	General/Ants/Spiders	.03% @ .75oz	1 Gal
Library	8/2/2010	General/Ants/Spiders	.03% @ .75oz	1 Gal
City Hall	8/23/2010	General/Ants/Spiders	.03% @ .75oz	1 Gal
Library	9/13/2010	General/Ants/Spiders	.03% @ .75oz	1 Gal
City Hall	9/27/2010	General/Ants/Spiders	.03% @ .75oz	1 Gal
Library	10/4/2010	General/Ants/Spiders	.03% @ .75oz	1 Gal
City Hall	10/14/2010	General/Ants/Spiders	.03% @ .75oz	1 Gal
Library	11/1/2010	General/Ants/Spiders	.03% @ .75oz	1 Gal
City Hall	11/11/2010	General/Ants/Spiders	.03% @ .75oz	1 Gal
Library	12/6/2010	General/Ants/Spiders	.03% @ .75oz	1 Gal
City Hall	12/14/2010	General/Ants/Spiders	.03% @ .75oz	1 Gal
Library	1/3/2011	General/Ants/Spiders	.03% @ .75oz	1 Gal
City Hall	1/18/2011	General/Ants/Spiders	.03% @ .75oz	1 Gal
Library	2/7/2011	General/Ants/Spiders	.03% @ .75oz	1 Gal
City Hall	2/16/2011	General/Ants/Spiders	.03% @ .75oz	1 Gal

2010/2011 list of products used at the Golf Course

Golf Course Pesticide list:

Speedzone
Aquamaster
Pendulum
Lesco- Triple Play Plant Growth regulator
Confront
Drive 75 DF
Ronstar F
Daconil 2787
Glacier 106
26 GT Fungicide
Aquathol K
Ranger Pro
Surflan
Gopher Getter
Triplet
Q4
Koban 30
Speed Zone
Prostar 70 WDG
Lontrel
Sapphire
Invigorate
Jet Spray 3 Way
Tomb Stone, Wasp and Hornet Spray
Provant
Talpirid
Surflan-AS
Reward
Eximo
Dipel
Dimension Ultra 40 WP
Zerotol
Daconil Ultrex
Buctril
Confront
K-90
Magnify
Bueno 6
Durshan Pro
Link FE 5
Scotts Proturf Insecticide 3
Fertalizers: Main Stay, Calcium, Grow Pro, Nitro Verde

ANNUAL PESTICIDE USE REPORT

PESTICIDE	2009	2010	2011 (1/1/11-8/1/11)
Round up Pro:	142.25 Gal	14.75Gal	0
Ranger Pro:	0	135Gal	92Gal
Aquamaster:	0	1.5Gal	.75 Gal
Garlon Ultra:	32oz	o	1120z
Stalker:	8oz	24oz	0
Fusilade II:	96oz	67oz	11oz
Weedar 64:	32oz	128oz	0
Gallery:	24.5lbs	35lbs	0
Endurance:	51lbs	10lbs	0
Dimension 2EW:	0	10.25Gal	0
Transline:	0	50oz	0
Surflan AS:	0	0	5.75Gal
Ron Star-Wsp:	17lbs	0	0
Embark:	4Gal	0	0

CITY OF PITTSBURG
LANDSCAPE MAINTENANCE
2009-2010

PARKS		
Mariner Park Expansion		25,730 s.f
	Subtotal	**25,730 s.f**
	Total	**6,004,230 s.f**
FACILITIES		
Pittsburg Library		12,710 s.f
City Hall Parking Lot Expansion		1,200 s.f
	Subtotal	**13,910 s.f**
	Total	**624,265 s.f**
MEDIANS		
West 10th Street		55,950 s.f
Center Drive		2,502 s.f
	Subtotal	**58,452 s.f**
	Total	**683,678 s.f**
RIGHT-OF-WAYS		
	Total	**815,245 s.f.**
OPEN SPACE TRAILS		
	Total	**1,250,025 s.f**

CITY OF PITTSBURG
LANDSCAPE MAINTENANCE
2008-2009

PARKS

Total	**5,978,500 s.f.**

FACILITIES

Marina Vista Soccer Field	56,548 s.f.
Gateway Project (streetscape)	800 s.f.
Subtotal	**57,348 s.f.**
Total	**610,355 s.f.**

MEDIANS

West Leland (San Marco Villa's)	9,841 s.f.
Davi Street	2,100 s.f.
Subtotal	**11,941 s.f.**
Total	**625,226 s.f.**

RIGHT-OF-WAYS

Frontage Road (Burton to Crestview Lane)	28,500 s.f.
West Leland (San Marco Villa's)	10,830 s.f.
Railroad Avenue Greenbelt (California to Victory)	51,900 s.f.
Old town Streetscape (8th St. to 5th St.)	19,950 s.f.
Marina Vista Elementary perimeter	2,800 s.f.
Subtotal	**113,980 s.f.**
Total	**815,245 s.f.**

OPEN SPACE TRAILS

Total	**1,250,025 s.f**

APPENDIX F

TRAINING RECORDS

(IPM LANDSCAPE TRAINING)

SENT TO FINA:
10/18/11
(DATE)

California Parks & Recreation Society District III
Attn: Danny Yore
3231 Main Street
Oakley, CA 94561

DP
OK FOR PAYMENT
EXTENSIONS OK'D
CHARGE TO A/C 207-43023-2004

INVOICE

Bill to:
City of Pittsbutg

ATTN:
J. Longway

Date: October 14, 2011

Invoice No: 34

Purchase Order No: _____

This invoice is due and payable upon 30 days from the Invoice date

Event Description and Date	Amount
IPM Training 10/12/11	
Ramona Anderson	$15.00
Anthony Baldazo	$15.00
Greg St. Pierre	$15.00
Gerardo Valadez	$15.00
Ken Gianti	$15.00
SUBTOTAL	$75.00
PAYMENT TYPE AND AMOUNT PAID:	
TOTAL DUE	**$75.00**

Make checks payable to "CPRS District III" and mail to address above.

If you have a question concerning this invoice, please contact:
Danny Yore - City of Oakley (925) 625-7015 or yore@ci.oakley.ca.us

BAY-FRIENDLY LANDSCAPING & GARDENING COALITION

Sign up for our Email Newsletter
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Bay-Friendly Landscape Training & Qualification Program for Maintaining Existing Landscapes

Application for Contra Costa County 2012

Application deadline is Friday, February 17th at 6:00pm. A complete application for EACH applicant is required to be considered for participation in the class. Applicants will be notified of acceptance the week of February 20th, 2012.

Fees

Course fee is due upon notice of acceptance, is non-refundable, and must be received prior to the first day of class. For fee details, click here.

Note: Please be accurate as all fields marked with an asterisk (*) will be listed on the Bay-Friendly Coalition website for each participant who completes the requirements of the training and becomes qualified.

*First Name:	Greg
*Last Name:	St. Pierre
*Title:	IPM Coordinator / PCA
*Organization:	City of Pittsburg
*Work Address:	65 Civic Ave
*City:	Pittsburg
*State:	CA
*Zip:	94565
*Website:	
*E-mail Address:	gstPierre@ci.pittsburg.ca.us

*Please enter at least one phone number:

Home Phone:	
Work Phone:	925-252-4047
Cell Phone:	925-565-2272

Which is the best phone number at which clients can reach you?
○ Home Phone ⊗ Work Phone ○ Cell Phone

***Do you work for a public agency in Contra Costa County or a private firm?**
⊗ Public Agency ○ Private Firm

If you work for a Private Firm:

Approximately what percent of your clients are in Contra Costa County?
100%.
What is your position in the company? (owner, crew supervisor etc.)
IPM Coordinator

Do you **install** landscapes? ☒ Yes ○ No

If YES:
Which types have you installed? (check all that apply):
☒ Civic landscapes
☒ Commercial landscapes
☐ Residential landscapes
☒ Other types of landscapes

For how many years have you been installing these types of gardens? 8
Approximately how many acres do you install annually?

Do you **maintain** landscapes? ☒ Yes ○ No

If YES:
Which types have you maintained? (check all that apply):
☒ Civic landscapes
☐ Commercial landscapes
☐ Residential landscapes
☒ Other types of landscapes

For how many years have you been maintaining these types of gardens? 8
Approximately how many acres do you maintain annually?

Have you had any formal college education in landscape horticulture? ☒ Yes ○ No

If yes, please list name(s) of institution(s) and dates of attendance:
Washington State University
03' BS Crop Science

Do you have a:
Landscape contractor's license? ○ Yes ☒ No
Pesticide applicator's license? ☒ Yes ○ No
Other license or certification? (max 250 char.)
PCA

100% attendance is required for qualification. Will you be able to attend all 7 classes on Tuesday mornings, 9am-12:30pm on each of the following dates?

Please check each date you are available:

☐ Tuesday, March 6, 2012
☐ Tuesday, March 13, 2012
☐ Tuesday, March 20, 2012
☐ Tuesday, March 27, 2012
☐ Tuesday, April 3, 2012
☐ Tuesday, April 10, 2012
☐ Tuesday, April 17, 2012

Which of the following practices do you currently implement on a regular basis?

Landscaping Locally
- ☐ Sample the soil
- ☐ Complete a site analysis

Waste Management
- ☐ Replace sheared hedges with plants that can form a hedge without shearing
- ☒ Manage leaf litter on site
- ☒ Grasscycle
- ☒ Chip plant debris to use as mulch
- ☐ Compost plant debris
- ☐ Use salvaged items and recycled content materials

Water Management
- ☐ Sheetmulching
- ☒ Apply mulch for water conservation and weed control
- ☒ Use water budgets to determine how much water to apply
- ☒ Use smart controllers
- ☒ Irrigate with recycled water
- ☒ Install or manage drip irrigation

Stormwater Management and Pollution Prevention
- ☒ Manage or replace irrigation to minimize overspray and runoff
- ☒ Maintain stormwater BMPs
- ☒ Maintain pervious pavement
- ☒ Use slow release, natural sources of fertilizers

Soil & Nutrition Management
- ☒ Prevent soil compaction
- ☒ Amend the soil with compost
- ☐ Use compost tea
- ☒ Use compost as topdressing on turf

Integrated Pest Management
- ☒ Carefully manage diseased plant material and clean equipment
- ☒ Use California natives to attract beneficial wildlife
- ☐ Select non-toxic pre-emergent weed control
- ☒ Use non-toxic insect and disease control such as Bt, Safer soaps etc.
- ☒ Remove Invasive weeds
- ☐ Use non-toxic weed control such as goats, flamers, foams, corn gluten, sheetmulch

Wildlife Habitat
- ☒ Providing water, food and shelter for wildlife
- ☒ Protecting beneficial organisms

Thank you for your interest in the Bay-Friendly Professional Landscape Program!

Click Here to Submit your Registration

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APPENDIX G

SAMPLE PEST SPECIFIC IPM PLANS

Sample Integrated Pest Management Plan

General Pest Control

Facility Name
Address
Telephone Number

Pests to be Controlled
Pest control services which can be performed in the General Pest Control category includes cockroaches, ants (other than carpenter ants), winged termite swarmers emerging indoors, incidental/occasional invaders including bees & wasps entering from out of doors, and flies and other arthropod pests. Populations of these pests that are located immediately outside of a specified building and pose a possible infestation problem to that building are included.

General
Facility Name will be inspected by *name of the pest control company (PCO)* for the purpose of identifying potential problem areas that may be contributing to pest infestation within the facility, making recommendations for corrective measures that should be implemented and developing a comprehensive integrated pest management (IPM) plan. The IPM plan will utilize all methods of pest control, which may include structural maintenance, sanitation, monitoring for pest populations, mechanical and biological control, and the judicious use of pesticides. These methods will help to eliminate food, moisture and harborage for pests, making their survival more difficult. Pesticides will not be applied on a routine basis; however, they may be used as a tool to maintain pest populations at or below an acceptable level. The selection of pesticides that may be used will be based on a pre-determined hierarchy, which will utilize least toxic products as first choice. Proper implementation of this program will reduce the volume, toxicity and frequency of application of pesticides, thereby reducing the risk of potential exposure of building occupants who may be sensitive to their use.

The PCO and *name of responsible individual - Contracting Officer's Representative (COR)* shall meet to discuss areas that have been problematic or sensitive. (i.e.; operating rooms, prisons or areas where there is a history of high pest pressure) Areas that are sensitive to pesticide use will also be discussed. (i.e.; day care areas, elderly residence, work area of sensitive employees, etc.)

Once these areas have been identified, the PCO and COR will discuss various pest control options and determine the speed of control necessary as well as threshold/action levels based on pest population and species.

Recommendations
Name of PCO will submit recommendations for corrective measures in writing to *Name of (COR)* prior to the application of any pesticides. *He/she (COR)* is responsible for scheduling and coordinating structural maintenance of the facility and will act on the recommendations as soon as possible. *He/she* will report in writing which recommendations will not be followed and state the reasons if no action is to be taken as required by RCSA Sec.22a-66l-1(c). Otherwise, all IPM methods that are recommended will be followed.

Pest control services will be supervised by *name & certification number*, and performed by *name & certification number(s)* of *name of pest control company & business registration number*. The IPM program will begin on *date* with *six* weekly visits in order to start the program. Subsequent service calls will be performed *twice a month* or as needed depending upon pest pressure. Service calls will be scheduled on *Day of week & approx. time* and will include a visual inspection of potential problem areas and monitoring devices, application of pesticides where pest populations exceed their threshold levels. Records will be completed at the conclusion of each service call and will include written recommendations of corrective measures that need to be made by building maintenance personnel. A member of the custodial staff should be available to allow the pest control technician to access areas that may be locked.

Records

The pest control technician will indicate pest problem areas and provide written recommendations for structural, sanitary or procedural modifications on "Pest Control Service Record and Pest Inspection Report" forms or substantially similar substitute. These forms will be kept in a file that will be maintained in *responsible individual (COR)* office. *He/she* will act as a liaison between the pest control company and department supervisor(s) and will be responsible for notifying the appropriate personnel of corrective actions that are needed (i.e.; sanitation).

The pest control technician at the beginning of each service call will review Pest sighting report logs provided by name of PCO. The log will be maintained in *responsible individual (COR)* office and will serve as a tool to facilitate communication between all personnel and the pest control technician. *All* pest sightings should be reported in the logs and should include specific information as to the location and type of pest, if known. Whenever possible, a sample of the insect will be provided to the pest control technician for identification purposes.

Monitoring

Service call/monitoring inspections will be limited to *list specific areas that will be inspected - (i.e.; kitchen, kitchen storage, dish room, laundry room, cafeteria, employee lounge, custodial closets, locker rooms, laundry room, main office, hallways on ground and main floors, boiler room)* and the perimeter of the building unless pest activity or sightings in other areas have been reported in the pest sighting log.

Glueboards will be used for the duration of the IPM program to monitor pest populations and activity. They will be placed in areas where pest activity has been identified or is likely to occur. The dates of installation and servicing will be indicated on each monitor and the pest control technician will create diagrams or maps indicating their placement. The diagrams will be maintained as part of the pest control company's service record. Visual inspections of the glueboards will help the pest control technician to identify specific areas of infestation, if any, and assess the need for further action. The glueboards will be placed as follows;

List specific areas *- (i.e.; Kitchen & Dish Room - 29 traps, Kitchen Storage - 8 traps, Laundry Room - 2 traps, Cafeteria - 1 trap (Under the vending machine), Employee Lounge - 3 traps, Men's Locker Room - 2 traps, Women's Locker Room - 2 traps, Laundry - 2 traps, Custodial Closets - 2 traps, Main Office - 6 traps and Boiler Room - 8*

traps.) The pest control technician may also use flushing agents such as_____ or as an inspection tool during monitoring visits.

Pests

Cockroaches

Due to the fact that German cockroaches can reproduce rapidly, have been attributed to causing asthma and are known to translocate bacteria and viruses to food and preparation surfaces, their control will be a high priority. Other cockroach species are also of concern and measures will be taken to reduce or eliminate their populations whenever possible.

Close and careful attention should be given to eliminating conditions that are conducive to pest infestation. All pests need food, moisture and harborage. By eliminating one or more of these, it is more difficult for pests to survive. Also, pests reproduce at a slower rate when conditions are not conducive for their survival.

Food, paper goods and other supplies should be visually inspected upon arrival for cockroach infestation. Cockroaches will often hide in the corrugation of cardboard boxes. Supplies should be unpacked and stored properly and their shipping cartons disposed of as soon as possible.

Sanitation and elimination of moisture sources is also an important factor in cockroach control. Areas where food is prepared and consumed should be swept or vacuumed daily. Particular attention should be given to areas underneath counters and appliances. Food residue should be washed off of any preparation surface or equipment. Grease residues should also be eliminated as much as possible as it is a food source and will render some pesticides ineffective. Bulk foods should be stored in tightly covered bins. Moisture sources should be eliminated as much as possible by repairing faucets, drying sinks and counters at the end of each day.

Sample for Light to Moderate Cockroach Population:
If 3-5 cockroaches are observed during any monitoring visit in any one area, bait such as ____, _____ or _____ will be placed according to the product label recommendations. The bait will be utilized along with glueboards for monitoring purposes and will be replaced as needed during regular monitoring inspections.

**Note: Pesticide baits could be used for monitoring purposes in situations where no cockroaches have been observed but the likelihood of infestation is greater (i.e.; institutional kitchen). The amount of bait consumed will indicate pest activity and will be the first step to control the problem.

Sample for Moderate Cockroach Population:
Due to moderate to heavy infestation of cockroaches (6-10 cockroaches observed in one area), an intensive crack and crack & crevice treatment will be performed using or _____. Bait stations will be placed throughout the infested area once the crack & crevice application has been completed. Glueboards will also be used for monitoring purposes. Bait stations may be applied in adjoining rooms where conducive conditions may also exist. The infested area will be re-inspected *weekly* and baits and glueboards will be replaced as needed. If the pest population has not decreased after six weeks have passed, re-treatment may be performed. Every effort must be made by the facility to eliminate conditions that are conducive to infestation.

**Note: It is imperative that recommendations made by the pest control company be implemented as soon as possible. The recommendations are likely to include improving sanitation, modifying storage practices or caulking cracks or voids where cockroaches may hide.

Sample for Heavy Cockroach Infestation:
Due to heavy cockroach infestation (10+cockroaches observed in one area during inspection) an intensive crack and crevice treatment will be performed using _____ or _____. A _____or _____ dust may also be applied to ceiling, wall and/or floor voids. Treated voids should be patched/plugged/caulked as soon as possible to eliminate harborage sites. Consideration will be given to applying a _____ fogging insecticide in conjunction with the other pesticides listed. Glueboards will be placed appropriately for monitoring purposes. The area will be monitored *weekly* and re-treatment may be performed if the cockroach population remains high. Once the intensive treatments have been completed, _____ or _____ bait will be placed in the area according to pesticide label directions. The infested area will be re-inspected weekly and baits and glueboards will be replaced as needed.

Implementation of these pest control methods will require written consent of the *responsible individual (COR)*.

**Note: This type of treatment, particularly fogging, may only be appropriate in areas where there is an absolute zero tolerance for infestation and speed of control is essential (i.e.; hospital operating room).

Ants
Ants and many other pests can be excluded by caulking and patching cracks and voids in the walls, floors and sidewalks. Branches of trees and shrubs should be trimmed away from the building to eliminate pest access. Organic matter, wood debris and other trash should be raked away from the foundation wherever possible. If ants are seen within the building, they will usually be foraging for food. The pest control technician will properly identify the pest ant species and any conditions that may be conducive to infestation. Proper identification will enable the pest control technician to determine appropriate measures of control for the particular ant species. Also, the pest control technician will attempt to locate nest location(s). Written recommendations will be made to correct conducive conditions. Depending upon the ant species and where they are seen, bait stations such as _____ or _____ may be utilized within the building.

Ants outside of the building may be treated using baits such as _____ or _____, however, steps should be taken to eliminate conducive conditions as much as possible.

A crack & crevice application of a _____ or _____ dust may be made in walls or other voids only if it has been determined that ants are nesting in a particular location.

Occasional Invaders & Bees/Wasps

Pesticide applications will not be performed to control occasional invaders unless they present an immediate health hazard or are unduly disruptive. The pest control technician will identify the pest and make recommendations to correct conditions that are conducive to infestation. Pests that are occasional invaders may include drain flies, fungus gnats, earwigs, spiders, sowbugs and centipedes. Improving sanitation and removing organic debris, which will reduce their food supply, can usually control them. Elimination of moisture sources is also helpful.

Pests that may pose an immediate health threat such as bees and wasps will be treated using a _____ or _____spray product. _____ or _____ dust may be used where nests are located underground or in a wall void.

Complaints of unseen biting insects will be investigated, however, no pesticide will be applied unless the pest has been identified and no other pest control options are available.

Stored Product Pests
Stored product pests can usually be controlled with proper sanitation, storage and inventory control. Products should be stored in clean airtight containers. The products should be checked frequently for signs of infestation and disposed of if infested.

A crack and crevice application of _____ or _____ may be applied if it is determined by the pest control technician and COR that residual control would be beneficial.

Pesticide Plan
Pesticides may be applied if pest populations exceed an acceptable level. Priority is given to those pesticides having the lowest toxicity, taking into consideration the method and frequency of application and the risk of exposure to building occupants. Pesticides selected for possible use are as follows;

First Choice *(Products having the lowest toxicity and/or least risk of exposure based on the formulation, method and frequency of application.)*

Flushing Agents
a)
b)
c)

Baits
a)
b)
c)
d)

Dusts
a)
b)
Crack & Crevice Sprays
a)
b)
c)

First Choice *(Continued)*
Rodenticide *(Outdoor use only)*
a)
b)

Second Choice *(Products having moderate toxicity and/or risk of exposure based on the formulation, method and frequency of application.)*
Crack & Crevice Sprays
a)
b)
c)
d)
e)
f)

Third Choice *(Products having moderate to high toxicity and/or risk of exposure based on the formulation, method and frequency of application.)*

Use of any third choice pesticide product requires written approval of COR prior to application
Spot Treatments - *(Surface treatment to an area no larger than 2 square feet)*
a)
b)
General Sprays or Fogs
a)
b)
c)
Rodenticides (Interior Use)
a)
b)

An appraisal of this IPM program will be conducted bi-monthly by *responsible individual (COR)* and *name of pco representative*. A determination will be made as to the effectiveness of the program and revisions will be made to correct potential problems.

03/30/99
Rev. 6/17/08
DEP/PMP

APPENDIX H

RESOURCES

www.stopwaste.org or 510-444-SOIL

UCCE Cooperative Extension Alameda 1131 Harbor Bay Parkway, Suite 131 Alameda CA 94502

Alameda County Master Gardener Program 510-639-1275 http://acmg.ucdavis.edu

Useful Gardening Websites:

Pests, Diseases, and Weeds:

www.ipm.ucdavis.edu

UC Guide to Healthy Lawns:

www.imp.usdavis.edu/tools/turf

UC Home Orchard Information:

http://homeorchard.ucdavis.edu/

UC Vegetable and Research Information:

http://vric.ucdavis.edu/

City of Pittsburg IPM Contract

Structural Integrated Pest Management Program:
Contract Specifications for the City of Pittsburg

CONTRACT NO. N/A SEE SERVICE AGREEMENTS

Premises covered by this specification:

1. CITY OF PITTSBURG SENIOR CENTER
2. CITY OF PITTSBURG CITY HALL
3. CITY OF PITTSBURG LIBRARY
4. _____
5. _____

(Attach additional list if necessary)

1. GENERAL

A. Description of Program: This specification is part of a comprehensive Integrated Pest Management (IPM) program for the premises listed above. IPM is a process for achieving long-term, environmentally sound pest suppression and prevention through the use of a wide variety of technological and management practices. Control strategies in an IPM program include:

- Structural and procedural modifications to reduce food, water, harborage and access used by pests.
- Non-pesticide technologies such as trapping and monitoring devices.

McCauley Brothers Termite & Pest Services
2695 E. Leland Road, Pittsburg, CA 94565
925-439-1000 Fax 925-439-3507

Commercial Service Agreement

Service Location							
Location Name	City of Pittsburg Senior Center				**Source:**		
Address	300 Persidio Ave	**City**	Pittsburg	**Zip Code** 94565	**Map code**		**Property ty** Commercial
Email:		**Primary phone:**	252-4032	**Secondary Phone:**		**Fax #:**	
Bill to:							
Name for Service	City of Pittsburg (attn: Bobby Joaquin)						
Address	65 Civic Ave	**City**	Pittsburg	**Zip Code** 94565	**Start / End Date**		9/1/2011
Contact:	Bobby Joaqu	**Primary Phone:**	252-4032	**Secondary Phone:**		**Fax #**	925-439-0469
Email:	bjoaquin@ci.pittsburg.ca.us						

Commercial Pest Management Program:

Exterior treatment with eco-exempt products only.
Place 2 bait stations around back of building with Detex Monitoring Blox
Only replace Detex with Contrac Blox if activity present.
Inspect interior and advise of structural repairs to prevent pest infestation.
Maintain log book

SERVICE GUARANTEE *We agree to treat for the management of the above named pests in accordance with terms and conditions of this contract. All labor and materials will be furnished to provide the most efficient pest control and maximum safety required by Federal, State, and City regulations. If during the regularly scheduled service contract and treatments, the customer is not completely satisfied with the results, Garden Plus will return to treat the area again at no additional charge. Should the problem persist.Garden Plus Pest will continue to work to solve the problem to the customer's satisfaction. Next business day response call for all emergencies!*

ARBITRATION *Any dispute arising out of or relating to this agreement or the services performed under this agreement or tort based claims for personal or bodily injury or damage to real or personal property shall be finally resolved by arbitration administered under the Commercial Arbitration Rules of the American Arbitration Association. This agreement involves interstate commerce; furthermore, the parties expressly agree that their mutual rights and obligations and the conduct of any arbitration proceeding shall be controlled by the Federal Arbitration Act. The award of the arbitrator shall be final, binding, non-appeal able and may be entered and enforced in any court having jurisdiction in accordance with the Federal Arbitration Act. The arbitrator shall not have the power or authority to award exemplary, treble, liquidated or any type of punitive damages.*

Initial Service Charge	*$75.00*	**Company**	*McCauley Brothers*
Monthly / Bi-Monthly Charge	*$75.00*	**FR License #**	*FR46756*
Annual Contract Charge	*$1,020.00*	**Customer Signature**	
ayment received for Initial Service		**Dated**	8/22/11

McCauley Brothers Termite & Pest Services
2695 E. Leland Road, Pittsburg, CA 94565
925-439-1000 Fax 925-439-3507

Commercial Service Agreement

Service Location							
Location Name	City of Pittsburg City Hall				Source:		
Address	65 Civic Ave	City	Pittsburg	Zip Code 94565	Map code	Property ty	Commercial
Email:	Primary phone:	252-4032	Secondary Phone:		Fax #:		
Bill to:							
Name for Service	City of Pittsburg (attn: Bobby Joaquin)						
Address	65 Civic Ave	City	Pittsburg	Zip Code 94565	Start / End Date	9/1/2011	
Contact:	Bobby Joaqu Primary Phone:	252-4032	Secondary Phone:		Fax #	925-439-0469	
Email:							
Commercial Pest Management Program:							

Exterior treatment with eco-exempt products only.
Place 4 bait stations around back of building with Detex Monitoring Blox
Only replace Detex with Contrac Blox if activity present.
Inspect interior and advise of structural repairs to prevent pest infestation.
Maintain Log Book

SERVICE GUARANTEE We agree to treat for the management of the above named pests in accordance with terms and conditions of this contract. All labor and materials will be furnished to provide the most efficient pest control and maximum safety required by Federal, State, and City regulations. If during the regularly scheduled service contract and treatments, the customer is not completely satisfied with the results, Garden Plus will return to treat the area again at no additional charge. Should the problem persist.Garden Plus Pest will continue to work to solve the problem to the customer's satisfaction. Next business day response call for all emergencies!

ARBITRATION Any dispute arising out of or relating to this agreement or the services performed under this agreement or tort based claims for personal or bodily injury or damage to real or personal property shall be finally resolved by arbitration administered under the Commercial Arbitration Rules of the American Arbitration Association. This agreement involves interstate commerce; furthermore, the parties expressly agree that their mutual rights and obligations and the conduct of any arbitration proceeding shall be controlled by the Federal Arbitration Act. The award of the arbitrator shall be final, binding, non-appeal able and may be entered and enforced in any court having jurisdiction in accordance with the Federal Arbitration Act. The arbitrator shall not have the power or authority to award exemplary, treble, liquidated or any type of punitive damages.

Initial Service Charge	*$150.00*	Company	*McCauley Brothers*
Monthly / Bi-Monthly Charge	*$150.00*	FR License #	*FR46756*
Annual Contract Charge	*$1,800.00*	Customer Signature	
ment received for Initial Service		Dated	8/22/11

McCauley Brothers Termite & Pest Services
2695 E. Leland Road, Pittsburg, CA 94565
925-439-1000 Fax 925-439-3507

Commercial Service Agreement

Service Location							
Location Name	City of Pittsburg Library				Source:		
Address	80 Power Ave	City	Pittsburg	Zip Code 94565	Map code	Property ty	Commercial
Email:	bjoaquin@c	Primary phone:	252-4032	Secondary Phone:	Fax #:	925-439-0469	
Bill to:							
Name for Service	City of Pittsburg (attn: Bobby Joaquin)						
Address	65 Civic Ave			Zip Code 94565	Start / End Date	9/1/2011	
Contact:	Bobby Joaqu	Primary Phone:	252-4032	Secondary Phone:	Fax #		
Email:	bjoaquin@ci.pittsburg.ca.us						
Commercial Pest Management Program:							

Exterior treatment with eco-exempt products only.
Place 2 bait stations around back of building with Detex Monitoring Blox
Only replace Detex with Contrac Blox if activity present.
Inspect interior and advise of structural repairs to prevent pest infestation.
Mantian Log Book

SERVICE GUARANTEE We agree to treat for the management of the above named pests in accordance with terms and conditions of this contract. *All labor and materials will be furnished to provide the most efficient pest control and maximum safety required by Federal, State, and City regulations. If during the regularly scheduled service contract and treatments, the customer is not completely satisfied with the results, Garden Plus will return to treat the area again at no additional charge. Should the problem persist.Garden Plus Pest will continue to work to solve the problem to the customer's satisfaction. Next business day response call for all emergencies!*

ARBITRATION Any dispute arising out of or relating to this agreement or the services performed under this agreement or tort based claims for personal or bodily injury or damage to real or personal property shall be finally resolved by arbitration administered under the Commercial Arbitration Rules of the American Arbitration Association. This agreement involves interstate commerce; furthermore, the parties expressly agree that their mutual rights and obligations and the conduct of any arbitration proceeding shall be controlled by the Federal Arbitration Act. The award of the arbitrator shall be final, binding, non-appeal able and may be entered and enforced in any court having jurisdiction in accordance with the Federal Arbitration Act. The arbitrator shall not have the power or authority to award exemplary, treble, liquidated or any type of punitive damages.

Initial Service Charge	$65.00	Company	McCauley Brothers
Monthly Charge	$65.00	FR License #	FR46756
Annual Contract Charge	$780.00	Customer Signature	
ıyment received for Initial Service		Dated	8/22/11

- City Public Works Superintendent among all facilities management programs that have a bearing on the pest control effort.
- As a last resort, pesticide compounds, formulations and application methods that present the lowest potential hazard to humans and the environment.

B. IPM Service Requirements: The Service Provider shall furnish all supervision, labor, materials, and equipment necessary to accomplish the monitoring, trapping, pesticide application, pest removal and pest prevention components of this IPM program. Any deviations from this program must be approved by the City Public Works Superintendent

2. PESTS INCLUDED

The Service Provider shall adequately suppress all pest species that have the potential to affect public health, impede operations or damage property, including but not limited to:

- Indoor populations and invading individuals of rodents, insects, arachnids, and other arthropods.
- Outdoor populations of potentially indoor-infesting species that are within the property boundaries of the specified buildings.
- Nests of stinging insects within the property boundaries of the specified buildings.
- Termites and other wood-destroying organisms.
- Birds, bats, small mammals, and all other vertebrates.
- Mosquitoes.

3. PEST CONTROL PERSONNEL

Throughout the term of this contract, all personnel providing on-site pest control service must maintain certification as commercial pesticide applicators in the appropriate categories for the facilities listed above. Uncertified individuals working under the supervision of a certified applicator will not be permitted to provide service under this contract.

4. SERVICE PROVIDER IPM PLAN

The Service Provider shall submit to the CITY PUBLIC WORKS SUPERINTENDENT an IPM Plan at least five (5) working days prior to the starting date of the contract. If aspects of the Plan are incomplete or disapproved by the CITY PUBLIC WORKS SUPERINTENDENT, the Contractor shall have two (2)

working days to submit revisions. The IPM Plan shall consist of three parts as follows:

A. Pesticide Labels and MSD Sheets: The Service Provider shall provide current Labels and Material Safety Data Sheets for all pesticides that will potentially be used in the pest control program.

B. Service Schedule(s): The Service Provider shall provide a schedule of routine pest control inspections for each building serviced under this contract, including frequencies of inspections, areas at each facility to be given special attention (e.g., food storage, preparation and serving areas; washrooms; custodial closets; mechanical rooms; entryways) and specific day(s) of the week on which the inspections will be performed.

C. Commercial Pesticide Applicator Licenses and Certificates: The Service Provider shall provide a photocopy of the State-issued Commercial Pesticide Applicator License for every Contractor performing on-site pest control service under this contract, and a photocopy of the State-issued Commercial Pesticide Applicator Certificate for every pest management professional (PMP) performing on-site pest control service.

The Service Provider shall receive the approval of the City Public Works Superintendent prior to implementing any subsequent changes to the approved Service Provider IPM Plan, including additional or replacement pest control products. The Service Provider will review and update the Service Provider IPM Plan annually, including updating MSDS/labels as needed.

4. RECORD KEEPING

The Service Provider shall be responsible for maintaining an IPM logbook or file for each building specified in this contract. These records shall be kept on-site and maintained on each visit by the PMP performing pest control service. Each logbook or file shall contain at least the following items:

A. IPM Plan: A copy of the Service Provider's approved IPM Plan, including pesticide Labels and MSDS sheets for all pesticides that will be potentially used in the building, service schedule for routine pest control inspections, and photocopies of the relevant Commercial Pesticide Applicator Licenses and Certificates.

B. Building Occupant Log Form: These forms will be used to advise the Service Provider of routine service requests and pest sightings by building occupants.

C. Service Provider's Report Forms: Customer copies of the Service Provider's signed and dated Service Report Form, documenting all information on services provided including pesticide applications required by State and local statute. This form must also indicate any recommendations made by the Service Provider for additional action advisable by the customer, e.g., structural or plumbing repairs required to limit pest access to the building or to food and water resources; improvements in sanitation, etc. A copy of this form must also be provided to the City Public Works Superintendent within one week of the service.

D. Service Provider Products and Devices: All bait stations, snap traps and glue boards or other devices left behind by the Service Provider are to be dated, numbered and listed on the Service Provider Report Form and checked on each subsequent visit until removed. All such devices shall be removed when full, dirty and no longer effective, or no longer needed.

5. MANNER AND TIME TO CONDUCT SERVICE

A. Time Frame of Service Visits: Frequent and complete communication between the Service Provider and the facility manager is critical for a successful outcome. Routine pest control services that do not adversely affect staff or patient health or productivity shall be performed during the regular building hours of operation. When it is necessary to perform work outside of the regularly scheduled service time set forth in the Service Provider IPM Plan, the Contractor shall notify the City Public Works Superintendent and/or facility manager at least one day in advance.

B. Safety and Health: All pest control work shall be in strict accordance with all applicable Federal, State, and local safety and health requirements. Where there is a conflict between applicable regulations, the most stringent will apply.

C. Special Entrance: Certain areas within some buildings may require special instructions for persons entering them. Any restrictions associated with these

special areas will be explained by the City Public Works Superintendent. The Service Provider shall adhere to these restrictions and incorporate them into the Service Provider IPM Plan.

E. Uniforms: All Service Provider representatives working in or around the buildings specified in this contract shall wear distinctive uniforms identifying the name of their employer.

F. Vehicles: Vehicles used by the Service Provider shall be identified in accordance with State and local regulations.

6. SPECIAL REQUESTS AND EMERGENCY SERVICE

On occasion, the City Public Works Superintendent may request that the Service Provider perform corrective, special or emergency service(s) that are beyond routine service requests such as removal of a stinging insect nest. The Service Provider shall respond to these exceptional circumstances and complete the necessary work within twenty-four (24) hours after receipt of the request.

7. INSECT CONTROL

A. Emphasis on Non-Pesticide Methods: Non-pesticide methods of control shall be used wherever possible. For example:

1. Portable vacuums rather than pesticide sprays shall be the standard method for initial cleanouts of cockroach infestations, for swarming (winged) ants and termites, and for control of spiders in webs.

2. Trapping devices rather than pesticide sprays shall be the standard method for indoor fly control.

B. Application of Insecticides to Cracks and Crevices: As a general rule, all insecticides shall be applied as "crack and crevice" treatments only, defined in this contract as treatments in which the formulated insecticide is not visible to a bystander or accessible to children during or after the application process.

C. Application of Insecticides to Exposed Surfaces or as Space Sprays: Application of insecticides to exposed surfaces or as space sprays ("fogging") shall be restricted to exceptional circumstances where no alternative measures are practical. The Service Provider shall obtain approval of the CITY PUBLIC WORKS SUPERINTENDENT prior to any application of insecticide to an exposed surface or any space spray treatment. No surface application or space spray shall be made while staff, patients or visitors are present. The Service Provider shall take all necessary precautions to ensure staff, patient and visitor safety, and all necessary steps to ensure the containment of the pesticide to the site of application.

D. Insecticide Bait Formulations: Bait formulations shall be the standard pesticide technology for cockroach and ant control, with alternate formulations restricted to unique situations where baits are not practical.

E. Monitoring: Sticky traps shall be used to guide and evaluate indoor insect control efforts wherever necessary.

8. RODENT CONTROL

A. Indoor Trapping: As a general rule, rodent control inside buildings shall be accomplished with trapping devices only. All such devices shall be concealed out of the general view and in protected areas so as not to be affected by routine cleaning and other operations. Trapping devices shall be checked on a schedule approved by the CITY PUBLIC WORKS SUPERINTENDENT. The Service Provider shall be responsible for disposing of all trapped rodents and all rodent carcasses in an appropriate manner.

B. Use of Rodenticides: In exceptional circumstances, when rodenticides are deemed essential for adequate rodent control inside buildings, the Service Provider shall obtain approval of the CITY PUBLIC WORKS SUPERINTENDENT prior to making any interior rodenticide treatment. All rodenticides, regardless of packaging, shall be placed either in locations not accessible to children, pets, wildlife and domestic animals, or in EPA-approved tamper-resistant bait boxes. As a general rule, rodenticide application outside buildings shall emphasize the direct treatment of rodent burrows wherever feasible.

C. Use of Bait Boxes: All bait boxes shall be maintained in accordance with EPA regulations, with an emphasis on the safety of non-target organisms. The Service Provider shall adhere to the following five points:

1. All bait boxes shall be placed out of the general view, in locations where they will not be disturbed by routine operations.

2. The lids of all bait boxes shall be securely locked or fastened shut.

3. All bait boxes shall be securely attached or anchored to floor, ground, wall, or other immovable surface, so that the box cannot be picked up or moved.

4. Bait shall always be secured in the feeding chamber of the box and never placed in the runway or entryways of the box.

5. All bait boxes shall be labeled on the inside with the Service Provider's business name and address, and dated by the Service Provider at the time of installation and each servicing.

10. USE OF PESTICIDES

The Service Provider shall be responsible for application of pesticides according to the label and all applicable regulations. All pesticides must be registered with the U.S. Environmental Protection Agency (EPA), State and/or local jurisdiction unless prior approval is given by the CITY PUBLIC WORKS SUPERINTENDENT. Transport, handling, and use of all pesticides shall be in strict accordance with the manufacturer's label instructions and all applicable Federal, state, and local laws and regulations.

The Service Provider shall adhere to the following rules for pesticide use:

A. Rentry Time, Posting and Notification: Pesticides may not be applied where staff, patients or visitors will be present within seven hours after the application. At least seventy-two hours prior to a pesticide application, the Service Provider shall post an 8 ½ x 11" pest control information sign both at the site of the

application and near the facility reception area where it will be seen by visitors entering the facility. This posting shall include the date, time and location of the application, the product applied, potential adverse effects from the Material Safety Data Sheet (MSDS) and the pesticide label, and include the Service Provider name, address and telephone. Service Provider shall also provide this information to the facility director who will use this information to notify staff and patients who have requested notification. Emergency applications, where pests pose an immediate threat to the health and safety of patients, visitors or employees, disinfectants, anti-microbials and self-contained or gel-type pesticide baits applied in inaccessible areas are exempt from posting, notification and the 7-hour reentry requirement.

B. Approved Products: No pesticide product shall be applied that has not been included in the Service Provider IPM Plan or approved in writing by the CITY PUBLIC WORKS SUPERINTENDENT.

C. Pesticide Storage: The Service Provider shall not store any pesticide product in the buildings specified in this contract.

D. Application by Need: Pesticide application shall be according to need and not by schedule. As a general rule, application of pesticides in any inside or outside area shall not occur unless visual inspection or monitoring devices indicate the presence of pests in that specific area, and only after all non-toxic means have been exhausted and shown to be unsuccessful. Requests for preventive pesticide treatments in areas where surveillance indicates a potential insect or rodent infestation will be evaluated by the CITY PUBLIC WORKS SUPERINTENDENT on a case-by-case basis. Written approval must be granted by the CITY PUBLIC WORKS SUPERINTENDENT prior to any preventive pesticide application.

E. Minimization of Risk: When pesticide use is necessary, as a last resort the Service Provider shall employ the least hazardous material, most precise application technique and minimum quantity of pesticide necessary to achieve control.

11. SUMMARY

Service Provider agrees to the following:

___ 1. Review the City of Pittsburg's IPM Policy, IPM Plan and Contractions Specifications and discuss any deviations from these documents with the CITY PUBLIC WORKS SUPERINTENDENT.

___ 2. Provide training for all employees serving facilities consistent with the City of Pittsburg's IPM Policy, IPM Plan and Contract Specifications.

___ 3. Provide a Service Provider IPM Plan including MSDS, labels, inspection schedule and applicator certifications and licenses to the CITY PUBLIC WORKS SUPERINTENDENT for approval at least five days before the contract start date. Update the Service Provider IPM Plan annually.

___ 4. Provide a binder for each facility serviced including the IPM Plan, a pest sightings log and a section for service records.

___ 5. Provide service consistent with the City of Pittsburg's Policy, Plan and Specifications, and obtain written approval from the CITY PUBLIC WORKS SUPERINTENDENT before deviating from these documents.

GREEN PRO CERTIFIED
Eco-Effective Pest Control

Presenting this certificate of excellence to

McCauley Brothers Termite & Pest

in acknowledgment of your continuing efforts toward professional excellence and environmental awareness in the pest management industry. You have met the GreenPro testing requirements for eco-effective pest control.

official signature

Certified 12/3/09

Purdue University

CENTER FOR URBAN AND INDUSTRIAL PEST MANAGEMENT

recognizes

Mark A. Pittsenbarger

for satisfactory completion of

PEST CONTROL TECHNOLOGY

July 25, 2000

DATE

C. Richard Edwards

HEAD, DEPARTMENT OF ENTOMOLOGY

Harry W Bennett

PROFESSOR, URBAN & INDUSTRIAL ENTOMOLOGY

Philip H. Swain

DIRECTOR, CENTER FOR LIFELONG LEARNING

AIB Food Safety/Hygiene

Manhattan Kansas

This is to certify that

Mark Pittsenbarger

has completed all of the requirements prescribed by the Faculty of this Educational Institution, and has been granted this Certificate of Completion for the Correspondence Course in

Food Processing Sanitation/Hygiene

and has been awarded 12.0 Continuing Education Units

March 8, 1999

Virgil W. Smith
President

Mark Sabo
Chairman of the Board

William E. Pursley
Vice President, Food Safety and Hygiene

The Bay-Friendly Landscaping & Gardening Coalition confirms that

Greg St. Pierre

has met the requirements to become a

Bay-Friendly Qualified Landscape Maintenance Professional

effective April 20, 2012.

BAY-FRIENDLY QUALIFIED PROFESSIONAL

Debi Tidd

Debi Tidd
Bay-Friendly Landscaping & Gardening Coalition