LIVERMORE
CALIFORNIA

September 4, 2012

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

Attention: Selina Louie

Subject: Annual Report of Stormwater Program Implementation for FY 2011/2012

Dear Mr. Wolfe:

Enclosed is the City of Livermore's Annual Report of Stormwater Program Implementation for the FY 2011/2012.

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 gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing of violations.

If you have questions regarding this report, please contact Steven Aguiar, Environmental Compliance Supervisor, at 925-960-8126.

Sincerely,

Darren Greenwood
Assistant Public Works Director
Water Resources Division, Public Works Department
Phone number: 925-960-8120
Fax number: 925-960-8105

cc: Dan McIntyre, Director of Public Works

Member Agencies:

Alameda

Albany

Berkeley

Dublin

Emeryville

Fremont

Hayward

Livermore

Newark

Oakland

Piedmont

Pleasanton

San Leandro

Union City

Alameda County

Alameda County Flood Control and Water Conservation District (District)

Zone 7 of the District

City of Livermore

Fiscal Year 2011-2012 Annual Report of Stormwater Program Implementation

cleanwater PROGRAM

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

September 2012

Table of Contents

Section	Page
Section 1 – Permittee Information	1-1
Section 2 – Provision C.2 Municipal Operations	2-1
Section 3 – Provision C.3 New Development and Redevelopment	3-1
Section 4 – Provision C.4 Industrial and Commercial Site Controls	4-1
Section 5 – Provision C.5 Illicit Discharge Detection and Elimination	5-1
Section 6 – Provision C.6 Construction Site Controls	6-1
Section 7 – Provision C.7 Public Information and Outreach	7-1
Section 8 – Provision C.8 Water Quality Monitoring	8-1
Section 9 – Provision C.9 Pesticides Toxicity Controls	9-1
Section 10 – Provision C.10 Trash Load Reduction	10-1
Section 11 – Provision C.11 Mercury Controls	11-1
Section 12 – Provision C.12 PCBs Controls	12-1
Section 13 – Provision C.13 Copper Controls	13-1
Section 14 – Provision C.14 PBDE, Legacy Pesticides and Selenium Controls	14-1
Section 15 – Provision C.15 Exempted and Conditionally Exempted Discharges	15-1

Section 1 – Permittee Information

Background Information							
Permittee Name:	City of Livermore						
Population:	83,604						
NPDES Permit No.:	CAS612008						
Order Number:	R2-2009-0074R						
Reporting Time Period (month/year):	July 1 2011 through June 30, 2012						
Name of the Responsible Authority:	Darren Greenwood				**Title:**	Assistant Public Works Director	
Mailing Address:	101 W. Jack London Blvd.						
City:	Livermore	**Zip Code:**	94551		**County:**	Alameda	
Telephone Number:	925-960-8100		**Fax Number:**		925-960-8105		
E-mail Address:	dggreenwood@cityoflivermore.net						
Name of the Designated Stormwater Management Program Contact (if different from above):	Steven Aguiar			**Title:**	Environmental Compliance Supervisor		
Department:	Public Works- Water Resources Division						
Mailing Address:	101 W. Jack London Blvd						
City:	Livermore	**Zip Code:**	94551		**County:**	Alameda	
Telephone Number:	925-960-8126		**Fax Number:**		925-960-8105		
E-mail Address:	smaguiar@cityoflivermore.net						

Section 2 - Provision C.2 Reporting Municipal Operations

Program Highlights and Evaluation

Highlight/summarize activities for reporting year:

Summary:

The City of Livermore participated in the Alameda Cleanwater Program's Municipal Maintenance Subcommittee. Mike Well's, Collection System Supervisor, represented the City of Livermore in this group. Please refer to the C.2 Municipal Operations section of the countywide Program'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: No additional 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: No additional 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.
x	Contract specifications requiring proper capture and disposal methods for wastes generated from bridge and structural maintenance and graffiti removal activities.

Comments: No additional comments.

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
Murietta Pump Station: Stanley Blvd. and Murietta Blvd.	8/9/2011	2.26 mg/L	9/13/2011	2.4 mg/L
P Street Pump Station: Railroad Ave. and P Street	8/9/2011	1.08 mg/L	9/13/2011	.44mg/L
North Livermore Pump Station: Railroad Ave. and North Livermore Ave.	8/9/2011	1.78 mg/L	9/13/2011	1.4 mg/L

[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: The wet wells in Livermore's pump station's hold a very low volume of residual water (<100 gallons) at the "low-level" station. All of the pump stations were at the "low-level" when the dry weather observations were conducted. Section C.2.d.ii(2) of the MRP states "D.O. monitoring is exempted where all discharge from a pump station remains in the stormwater collection system or infiltrates into a dry creek immediately downstream." Also, visual inspection of the waters contained in the wet wells showed no visual confirmation of pollutants other than minor trash and small amounts of vegetation debris (leaves). In the case of the North Livermore Pump Station, discharges would flow through 1.3 miles of pipeline between the pump station and the receive water. The degree of aeration of this low volume of water expected from this long travel to the receiving water would likely be equivalent to the options of "slowly pumping" or "aerating" these discharges that are suggested by Board Staff in the Municipal Regional Permit. Therefore, no attempt was made to run the pumps and collect a sample at the outfall to the creek to ensure the dissolved oxygen level was above 3.0 mg/L at the point of discharge since the small volume of water would likely never reach the outfall to allow for a sample to be collected. Furthermore, implementation of the suggested BMPs, in these specific instances, would be an ineffective/inefficient use of limited staff resources with no measurable benefit to water quality given the relatively low volumes of water involved.

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)

Section C.2.d.ii (4) of the Municipal Regional Permit states that "Starting in fall 2010, inspect pump stations a minimum of two times during the wet season in the first business day after ¼-inch and larger storm events after a minimum of a two week antecedent period with no precipitation ." As can be seen from the attached rainfall data (See C.2 Attachments) for the FY 2011/2012 wet season no storm events qualified according to the parameters established in Section C.2.d.ii(4) of the Municipal Regional Permit.

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

[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
	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:
None

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**
Maintenance Service Center	06/28/2012	BMPs implemented; Facility in compliance with stormwater requirements	None

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

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

(For FY 11-12 Annual Report only) Provide a brief summary of the methods of implementation of Provisions C.3.a.i.(1)-(8).

Summary:

The City of Livermore has:

1. Legal authority to implement provision C.3 - City of Livermore Municipal Code Chapter 13 and Ordinance 1379, 1,1992 provides the legal authority for the City to enforce National Pollutant Discharge Elimination System Permit requirements.
2. Development review and permitting procedures – Chapter 18 of the City of Livermore Municipal Code authorizes the Planning Commission, City Council, Community Development Department and City Engineer to condition and impose requirements on proposed subdivisions, recommend, approve and implement these requirements. The City has incorporated the conditions of approval adopted by the Alameda County Clean Water Program into the City standard conditions of approval for every development project. Furthermore, the City requires compliance with the permit provisions of the RWQCB stormwater permit with every permitted project in the City of Livermore.
3. Environmental Review procedures and processes that comply with CEQA – Chapter 18 of the City of Livermore Municipal Code also authorizes the Planning Commission, City Council and Community Development Department to require the appropriate environmental review documents and that a determination be made prior to approval of any planning entirtlement. As part of the review process stormwater treatment facilities must be shown on the map and plans along with calculations demonstrating the developer is able to comply with the stormwater requirements during final design. These stormwater controls are included in the environmental documents processed for each project. Mitigation measure as applicable are also incorporated into the project to comply with Federal, State and Local environmental regulations.
4. C.3 training - provided by the Alameda County Clean Water Program was attended by Planning, Engineering, Building and Construction Inspection staff as well as provided during a one hour internal Technical Training Session at the City office for City staff.
5. Informational materials - about the stormwater program and updated requirements are available at the counter for the public, developers, contractors, construction site operators and owner/builders. Annual training of staff members includes this information.
6. Site Design Measures for unregulated projects – utilizing the Maximum Extent Practicable (MEP) requirement of the permit site design measures are incorporated into a project as much as possible.
7. Source Control Measures for unregulated projects – utilizing the Maximum Extent Practicable (MEP) requirement of the permit source control measures are incorporated into a project as much as possible.
8. General Plan Revisions – integrating water quality/watershed protection with water supply, flood protection, habitat protection, groundwater recharge and other sustainable development principles and polices were incorporated into the General Plan with the 2005 Update.

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:

Please see the C.3 New Development and Redevelopment section of the countywide program's FY 11-12 Annual Report includes a description of activities conducted at the countywide or regional level program. None of the pilot projects are within the City of Livermore.

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.

Attached is table **C.3.b.v.(1).**

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.

Our local ordinances/policies/procedures require compliance with the most current RWQCB permit requirements; therefore, all regulated projects approved after December 1, 2011 are required to implement LID source control, site design and stormwater treatment requirements. We are using the following Program and BASMAA products to ensure LID implementation:

- LID infeasibility/ Feasibility Worksheets
- Biotreatment Soil Specifications
- Green Roof Specifications

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.?		**Yes.**	x	**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.

(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):				

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.

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:

The City of Livermore conducted 44 operation and maintenance verification inspection of facilities with stormwater treatment measures during this reporting period. Additionally, the City performed 3 initial inspections of newly installed stormwater treatment measures during this reporting period. Please refer to table C.3.h.iv. of this report for details regarding the findings and observations from these inspections.

(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 City of Livermore has been requiring new development projects to install stormwater treatment measures since approximately the year 2000. The initial stages of our O & M inspection program were focused on developing an inventory of these measures and their locations. Currently, with the adoption of the MRP, our efforts have been focused on performing the required inspections to comply with the MRP. During the this reporting period, City staff performed a total of 47 inspections of stormwater treatment measures.				
(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[i], Street Address	Name of Developer	Project Phase No.[ii]	Project Type & Description[iii]	Project Watershed[iv]	Total Site Area (ft^2)	Total Area of Land Disturbed (ft^2)	Total New Impervious Surface Area (ft^2)	Total Replaced Impervious Surface Area (ft^2)	Total Pre-Project Impervious Surface Area[v] (ft^2)	Total Post-Project Impervious Surface Area[vi] (ft^2)
Private Projects - Anticipated											
Kibler Harris	Railroad Ave	City	None	Multi-Family Housing	G-Arroyo Mocho	12,500	12,500	0	12,500	12,500	12,500
DT Hotel Site	Railroad Ave	Sonnenblack	None	Hotel	G-Arroyo Mocho	47,500	42,500	0	42,500	47,500	47,500
Regional Theater	Railroad Ave	LVPAC/City	None	Theatre	G-Arroyo Mocho	51,890	50,000	0	50,000	51,890	50,000
Ironwood Apartments APN: 099A-1441-050-00	5643 Charlotte Way @ East Ave.	Jeff Ratto	None	New apartments and parking lot	P-Arroyo Seco	662,343	343,100	69,100	0	343,100	412,200
Meritage Tract	Morning Glory Circle @ Wattenburger Park	Meritage Homes	None	Residental subdivision	H-Arroyo Las Positas/Arroyo Seco	242,600	242,600	195,000	0	0	195,000
FBO site Airport	Airport	Jeff Antrim	None	Hangars, Airport Services	H – Arroyo Las Positas	130,000	130,000	32,000	26,000	26,000	58,000
Private Projects – Planning Entitlement											
Silver Oaks II Skilled Nursing Facility APN: 097 009002909 CB11001	752 Holmes Street	Anelli Stamm (Freanel & Son Som. LLC)	None	CUP and LLA for Nursing Facility	G – Arroyo Mocho	18,056	18,056	1,758	13,063	13,063	14,821
Garavanta Hills	North of Garaventa Ranch Road	RL Communities	None	50 Residential Homes	H – Arroyo Las Positas	450,000	350,000	300,000	0	0	300,000
Old Town Village-First & Inman	2375 Old First Street	Mike Serpa	None	90 dense single - family residential homes	G-Arroyo Mocho	217,800	217,800	177,800	20,000	20,000	197,800
Paragon II	ECSP	Kelvin Anthill	None	Outlet Mall Expansion	H – Arroyo Las Positas	742,262	742,262	650,350	0	0	650,350

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[i], Street Address	Name of Developer	Project Phase No.[ii]	Project Type & Description[iii]	Project Watershed[iv]	Total Site Area (ft^2)	Total Area of Land Disturbed (ft^2)	Total New Impervious Surface Area (ft^2)	Total Replaced Impervious Surface Area (ft^2)	Total Pre-Project Impervious Surface Area[v] (ft^2)	Total Post-Project Impervious Surface Area[vi] (ft^2)
Brisa Np Environmental	Brisa Street and Vasco Road	Ageno Trust John Steinbuch	None	High Density Multi-family residential TOD	Arroyo Seco	1,501,054	1,501,054	882,384	83,706	83,706	966,090
Metal Pole Barn APN: 099 -0750-007-22 SPDR 12-020	3200 Robertson Park Road	LAPRD John Lawerance	None	Barn Structure	G-Arroyo Mocho	2,968,324	60,000	3,750	0	60,000	63,750
Mitchell Katz Winery APN: 099 -0460-006-00 CUP 12-005	1888 Hansen Road	Dirk Lorenz	None	Winery	Arroyo Del Valle	131,130	0	42,085	0	0	42,085
Airport Admin Bldg	636 Terminal Circle	COL – Dahlin Group	None	Airport Operations office	H-Arroyo Las Positas	38,125	38,125	12,839	0	0	12,839
Secondary Dwelling Unit APN: 099 -0725-077-02 SDU 12-005	2315 Bess Ave	Mike Orth	None	Residential Permit	G-Arroyo Mocho/ Arroyo Del Valle	42,624	3,000	200	0	3,000	3,200
Private Projects – Engineering Final Map											
Toyota APN: 099B 535101605 PM 9707	Northfront Road	Toyota	None	Auto Dealership	H – Arroyo Las Positas	134,420	134,420	54,100	0	0	54,100

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[i], Street Address	Name of Developer	Project Phase No.[ii]	Project Type & Description[iii]	Project Watershed[iv]	Total Site Area (ft^2)	Total Area of Land Disturbed (ft^2)	Total New Impervious Surface Area (ft^2)	Total Replaced Impervious Surface Area (ft^2)	Total Pre-Project Impervious Surface Area[v] (ft^2)	Total Post-Project Impervious Surface Area[vi] (ft^2)
Paragon Outlets APN: Multiple PM9393	Paragon Outlets (100-900 El Charro, Paragon Outlets)	Salem Richard LaHood (Paragon Outlets Livermore Valley LLC)	None	Construct the new Paragon Outlets	G – Arroyo Las Positas	1,801,258	1,801,258	1,020,022	0	0	1,020,022
Meritage APN: 099B 535100900 T8075	6412 Scenic Avenue	Manny Silva (Meritage Homes)	None	Subdivide Existing Parcel	H – Arroyo Las Positas	217,800	217,800	110,649	0	0	110,649
Vinsanto Phase 1, T8045	Caldera and San Vicente Dr.	Ponderosa Pam Hardy Jeff Schroeder	1	10 Lot Residential Subdivision	G-Arroyo Mocho	58,022	58,022	4,620	0	0	4,620
Vinsanto Phase 2, T8091	Caldera and San Vicente Dr.	Ponderosa Pam Hardy Jeff Schroeder	2	41 Lot Residential Subdivision	G-Arroyo Mocho	499,677	499,677	60,180	19,780	19,780	79,960
The Grove, Phase 2 APN: 099 137800305 T7552	Sonia St off N Mines Road, Old Hexcel site	Northbrook Homes Gary Brooks	2	Residential Homes	P – Arroyo Seco	43,560	43,560	20,530	0	0	20,530
Mc Grath APN:099004001033 099004001047 099132686 PM9992	5699 Las Positas Avenue	Mc Grath	None	Commercial site	H – Arroyo Las Positas	985,600	985,600	809,900	19,200	19,200	829,100

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[i], Street Address	Name of Developer	Project Phase No.[ii]	Project Type & Description[iii]	Project Watershed[iv]	Total Site Area (ft^2)	Total Area of Land Disturbed (ft^2)	Total New Impervious Surface Area (ft^2)	Total Replaced Impervious Surface Area (ft^2)	Total Pre-Project Impervious Surface Area[v] (ft^2)	Total Post-Project Impervious Surface Area[vi] (ft^2)
Macedo APN: 099B 507500608 T8061	1000 Vasco Road, North	Eugene & Shirley Macedo (Macedo Development)	None	Subdivide land into 50 single-family detached residential lots	H – Arroyo Las Positas	253,083	253,083	9,917	139,477	139,477	149,394
Crosswinds	EL Charro	Crosswinds	None								
Hexcel APN: 099 137500304	75 Mines Road, North	Hexcel Corporation	None	Convert to Residential	P – Arroyo Seco/Arroyo Las Positas	645,124	645,124	0	293,270	580,612	293,270
Wheelworks APN: 099 001505800 PMW 10054	2852 Las Positas	Paul Smith	None	Auto Repair	H - Arroyo	63,641	63,641	44,316	0	0	44,316
Private Projects – Building Permits											
Paragon Outlets	2800 Paragon Outlets Drive	Peter Sandholdt, Craig & Grant Flynn	1	Commercial Building Construction	H-Arroyo Las Positas	1,801,258	1,801,258	1,020,022	0	0	1,020,022
Toyota Grading and Utilites APN: 099B 535101605 G12003	Northfront Road	Toyota	None	Grading and Underground utilties	H – Arroyo Las Positas	524,300	524,300	320,700	38,170	38,170	358,870
Toyota Mass Grading and Frog Wall	Northfront Road	Toyota	None	Environmental Mitigation	NA	NA	NA	NA	NA	NA	NA
Aero Precision APN: 904 000401606	30 Lindbergh Avenue	Evren Ergin (EEMD LLC)	None	Add Exterior Generator for Aero Precision Industries	H – Arroyo Las Positas	72,310	140	140	52,460	52,460	52,600

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[i], Street Address	Name of Developer	Project Phase No.[ii]	Project Type & Description[iii]	Project Watershed[iv]	Total Site Area (ft^2)	Total Area of Land Disturbed (ft^2)	Total New Impervious Surface Area (ft^2)	Total Replaced Impervious Surface Area (ft^2)	Total Pre-Project Impervious Surface Area[v] (ft^2)	Total Post-Project Impervious Surface Area[vi] (ft^2)
Cal Water APN: 099 018806700	1519 Juniper St	California Water Service, Kenji Teshirogi	None	Construct 8'x16' Building	G – Arroyo Mocho	7,514	0	0	128	128	128
Charter HS APN: 905 0018101300	3142 Constitution Drive	Douglas Roth (Tri-Valley Learning Corp.)	None	Construct Amphitheater	M – Collier Creek/Arroyo Las Positas	NA	NA	NA	NA	NA	NA
Hindu Temple Addition APN: 099B 51250054 099B51250055 099B51250056 CB12004	1240 Arrowhead Ave	Arvind Lyer Hindu Temple	None	Church - Commercial	H – Arroyo Las Positas	361,670	361,670	0	134,800	134,800	9,190
St Michael's Mausoleum	3885 East Ave	Debbie Silva	None	Mousoleum	P-Arroyo Seco	22,000	22,000	12,000	0	0	12,000
Meritage APN:099B 535100900	6412 Scenic avenue	Manny Silva (Meritage Homes)	None	22 single family homes	H – Arroyo Las Positas	217,800	217,800	62,603	0	0	62,603
Public Projects											
El Charro CIP APN: 904 000100905	El Charro CIP	City of Livermore, Various Others	Phase 1	Construct the new Paragon Outlets Livermore	H – Arroyo Las Positas	13,068,000	4,909,000	957,452	0	0	957,452
Isabel Interchange, Portola APN: 099 026001204	Isabel (SR-84), Airway, Kitty Hawk	City of Livermore	None	Utility Relocation, Road Extension	H – Arroyo Las Positas	1,088,969	823,284	146,015	677,269	653,386	969,299

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[i], Street Address	Name of Developer	Project Phase No.[ii]	Project Type & Description[iii]	Project Watershed[iv]	Total Site Area (ft^2)	Total Area of Land Disturbed (ft^2)	Total New Impervious Surface Area (ft^2)	Total Replaced Impervious Surface Area (ft^2)	Total Pre-Project Impervious Surface Area[v] (ft^2)	Total Post-Project Impervious Surface Area[vi] (ft^2)
Trail CIP 2007-15, Segment H-2+F APN: 099 080000200	East side of Wente, South side of Mariana	City of Livermore	NA	Trail Improvements	G – Arroyo Mocho	110,000	110,000	96,800	0	0	96,800
Galaxy Ct Flood Protection	Altamont Creek to Bluebell		None	Culvert Replacement	H – Arroyo Las Positas	80,000	80,000	0	800	800	800
Livermore Village Plaza	Old downtown Lucky's site	City of Livermore		Civic Plaza	G – Arroyo Mocho	16,350	16,350	0	16,350	16,350	34,000
Isabel I/C Projects 1992381 and 1992382 (Projects 1&2) APN: 099 026001204	Isabel (SR-84), Airway, Kitty Hawk	City of Livermore	None	Utility Relocation, Road Extension	G – Arroyo Las Positas	1,088,969	823,284	146,015	677,269	653,386	969,299
El Charro Specific Plan (Project 2007201) APN: 904 001300100	El Charro Specific Plan South of I 580; East of El Charro Road	City of Livermore, Various Others	Phase 1	Construct the new Paragon Outlets Livermore and Infrastructure	G – Arroyo Las Positas	13,068,000	4,909,000	957,452	0	0	957,452
Iron Horse Trail Bridge (201040)	N, Livermore Ave	City of Livermore	None	Trail and bridge	H-Arroyo Las Positas/ G-Arroyo Mocho	11,000	7,900	3,100	0	7,900	11,000
East Vineyard Realignment (199660)	Vineyard @ Vallecitos	City of Livermore	None	Realignment Road	Arroyo Del Valle	41,750	0	41,750	0	0	41,750

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[i], Street Address	Name of Developer	Project Phase No.[ii]	Project Type & Description[iii]	Project Watershed[iv]	Total Site Area (ft^2)	Total Area of Land Disturbed (ft^2)	Total New Impervious Surface Area (ft^2)	Total Replaced Impervious Surface Area (ft^2)	Total Pre-Project Impervious Surface Area[v] (ft^2)	Total Post-Project Impervious Surface Area[vi] (ft^2)
Trail Segment L19 under the Portola Overcrossing (200655)	Portola Overcrossing to Shea Site	City of Livermore	None	Trail	H-Arroyo Las Positas	100,000	0	100,000	0	0	100,000
Forecourt Plaza at the Regional Performing Arts Theater (580002)	Railroad Ave.	City of Livermore	None	Theatre	G-Arroyo Mocho	16,345	16,345	0	10,000	16,345	10,000
The Regional Performing Arts Theater Infrastructure (583018)	Railroad Ave.	City of Livermore	None	Infrastructure for Theatre	G-Arroyo Mocho	51,890	51,890	0	50,000	51,890	50,000

Comments:

4. Letter designations identify the watersheds of Zone 7 lines. Stormwater eventually flows into Alameda Creek before it reaches the San Francisco Bay

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[vii]**	**Application Final Approval Date[9]**	**Source Control Measures[viii]**	**Site Design Measures[ix]**	**Treatment Systems Approved[x]**	**Operation & Maintenance Responsibility Mechanism[xi]**	**Hydraulic Sizing Criteria[xii]**	**Alternative Compliance Measures[xiii/xiv]**	**Alternative Certification[xv]**	**HM Controls[xvi/xvii]**
Private Projects -										
Charter HS APN: 905 0018101300	12/21/10	2/1/11	A,D& G	a	Bio-retention	O&M Agreement	Flow – 2.c. Volume – 1.b	NA	NA	Flow – 2.c. Volume – 1.b
Silver Oaks II Skilled Nursing Facility APN: 097 009002909	6/30/2011	10/10/11	A,D & G	a	Bioretention swales	O&M Agreement	Flow – 2.c. Volume – 1.b	NA	NA	Bioretention
Cal Water APN: 099 018806700	02/04/2011	04/18/2011	A & D	a	landscaping	None required	None required	NA	NA	< acre - none required
Aero Precision APN: 904 000401606	07/28/2011	08/04/2011	A,D & G	a	Bioretention Swales	O&M Agreement	Volume – 1.b. Swales also used – Flow 2.c.	NA	NA	Bioretention
Paragon Outlets APN: Multiple SUBA 10-001	12/14/10	2/14/11	A,B,C,D,E,F & G	a,b	Bioretention swales and Detention Basins	O&M Agreement	Volume – 1.b. Swales also used – Flow 2.c.	NA	NA	Bioretention
Anticipated Projects										
Kibler Harris	Pre-appliation	None	A,D & G	a	None yet	None yet	None yet	NA	NA	None yet
DT Hotel Site	Pre-appliation	None	A,D & G	a	None yet	None yet	None yet	NA	NA	None yet
Regional Theater	8-27-09	None	A,D & G	a	None yet	None yet	None yet	NA	NA	None yet
Ironwood Apartments APN: 099A-1441-050-00	Application submitted	None	A,D & G	a	None yet	None yet	None yet	NA	NA	None yet
Meritage Tract	Pre-appliation	None	A,D & G	a	None yet	None yet	None yet	NA	NA	None yet
FBO site Airport		None	A,D & G	a	None yet	None yet	None yet	NA	NA	None yet

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[vii]**	**Application Final Approval Date[9]**	**Source Control Measures[viii]**	**Site Design Measures[ix]**	**Treatment Systems Approved[x]**	**Operation & Maintenance Responsibility Mechanism[xi]**	**Hydraulic Sizing Criteria[xii]**	**Alternative Compliance Measures[xiii/xiv]**	**Alternative Certification[xv]**	**HM Controls[xvi/xvii]**
Planning Referrals										
Garavanta Hills	7/2012	None	A,D & G	a	None yet	None yet	None yet	NA	NA	None yet
Old Town Village-First & Inman	5/15/12	7/23/12	A,D & G	a						
Paragon II	5/13/12	7/23/12	A,B,C,D,E,F & G	a,b	Bioretention swales and Detention Basins	O&M Agreement	Volume – 1.b. Swales also used – Flow 2.c.	NA	NA	Bioretention & Detention – BAHM model verification
Brisa Np Environmental	11/15/12	None	A,D & G	a	Bioretention swales and Detention Basins	O&M Agreement	Volume – 1.b. Swales also used – Flow 2.c.	NA	NA	Bioretention & Detention – BAHM model verification
Metal Pole Barn APN: 099 -0750-007-22 SPDR 12-020	7/2012	7/2012	A,D & G	a, b	NA	NA	NA	NA	NA	NA
Mitchell Katz Winery APN: 099 -0460-006-00 CUP 12-005	8/2012	9/2012	A,B,C,D,E,F & G	a, b	Bioretention Swales	O&M Agreement	Volume – 1.b. Swales also used – Flow 2.c.	NA	NA	Bioretention – BAHM model verification
Airport Admin Bldg	6/2/12	8/7/12	A,B,C,D,E,F & G	a	Bioretention Swales	O&M Agreement	Volume – 1.b. Swales also used – Flow 2.c.	NA	NA	Bioretention – BAHM model verification
Secondary Dwelling Unit APN: 099 -0725-077-02 SDU 12-005	7/2012	7/2012	A,D & G	a, b	NA	NA	NA	NA	NA	NA

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[vii]	Application Final Approval Date[9]	Source Control Measures[viii]	Site Design Measures[ix]	Treatment Systems Approved[x]	Operation & Maintenance Responsibility Mechanism[xi]	Hydraulic Sizing Criteria[xii]	Alternative Compliance Measures[xiii/xiv]	Alternative Certification[xv]	HM Controls[xvi/xvii]
Tracts for Final Map										
Toyota	3/29/09	6/8/09	A,B,C,D,G,H,I & J	a&b	Bioretention	O & M Agreement	Volume – 1.b. Swales also used – Flow 2.c.	NA	NA	Bioretention – BAHM model verification
Hexcel APN: 099 137500304	Deemed Incomplete (01/07/2011)	NA	A,D & G	a	Bioretention Swales	O&M Agreement / LMD	Flow – 2.c Volume – 1.b	NA	NA	Bioretention – BAHM model verification
Meritage APN: 099B 535100900	03/31/2011	06/13/2011	A,D & G	a	Bioretention Swales	O&M Agreement	Volume – 1.b. Swales also used – Flow 2.c.	NA	NA	Bioretention – BAHM model verification
Macedo APN: 099B 507500608	02/05/2011	03/14/2011	A,D & G	a	Bioretention Basins	O&M Agreement / LMD	Volume – 1.b	NA	NA	Bioretention – BAHM model verification
Vinsanto Phase 1	6/10/10	5/9/11	A,D & G	a	Bioretention swales and Detention Basins	O&M Agreement	Volume – 1.b. Swales also used – Flow 2.c.	NA	NA	Bioretention & Detention – BAHM model verification
Vinsanto Phase 2	6/10/10	5/9/11	A,D & G	a	Bioretention swales and Detention Basins	O&M Agreement	Volume – 1.b. Swales also used – Flow 2.c.	NA	NA	Bioretention & Detention – BAHM model verification
The Grove, Phase 2	8/6/10	2/13/12	A,D & G	a	Bioretention swales	O&M Agreement	Volume – 1.b. Swales also used – Flow 2.c.	NA	NA	Bioretention– BAHM model verification

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[vii]**	**Application Final Approval Date[9]**	**Source Control Measures[viii]**	**Site Design Measures[ix]**	**Treatment Systems Approved[x]**	**Operation & Maintenance Responsibility Mechanism[xi]**	**Hydraulic Sizing Criteria[xii]**	**Alternative Compliance Measures[xiii/xiv]**	**Alternative Certification[xv]**	**HM Controls[xvi/xvii]**
Mc Grath	3/11/11	3/16/11	A,D & G	a	Bioretention swales	O&M Agreement	Volume – 1.b. Swales also used – Flow 2.c.	NA	NA	Bioretention– BAHM model verification
Crosswinds	2/13/08	11/18/08	A,D & G	a	Bioretention swales and Detention Basins	O&M Agreement	Volume – 1.b. Swales also used – Flow 2.c.	NA	NA	Bioretention & Detention – BAHM model verification
Building Referrals/Special Projects										
Paragon Outlets	9/27/11	6/11/12	A,D & G	a	Bioretention swales and Detention Basins	O&M Agreement	Volume – 1.b. Swales also used – Flow 2.c.	NA	NA	Bioretention & Detention – BAHM model verification
Wheelworks	9/15/11	12/12/11	A,D & G	a	Bioretention swales	O&M Agreement	Volume – 1.b. Swales also used – Flow 2.c.	NA	NA	Bioretention– BAHM model verification
Other Building Permits										
Cal water	9/30/11	11/1/11	A,D & G	a	Bioretention swales	O&M Agreement	Volume – 1.b. Swales also used – Flow 2.c.	NA	NA	Bioretention– BAHM model verification
Charter School	3/3/10	4/20/10	A,D & G	a	Bioretention swales	O&M Agreement	Volume – 1.b. Swales also used – Flow 2.c.	NA	NA	Bioretention– BAHM model verification
Hindu Temple Addition	10/23/09	2/11/10	A,D & G	a	Bioretention swales	O&M Agreement	Volume – 1.b. Swales also used – Flow 2.c.	NA	NA	Bioretention– BAHM model verification

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[vii]	Application Final Approval Date[9]	Source Control Measures[viii]	Site Design Measures[ix]	Treatment Systems Approved[x]	Operation & Maintenance Responsibility Mechanism[xi]	Hydraulic Sizing Criteria[xii]	Alternative Compliance Measures[xiii/xiv]	Alternative Certification[xv]	HM Controls[xvi/xvii]
St Michael's Mausoleum	Application submitted 7/28/12		A,D & G	a	Bioretention swales	O&M Agreement	Volume – 1.b. Swales also used – Flow 2.c.	NA	NA	Bioretention– BAHM model verification

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

Project Name Project No.	Is Funding Committed?[xviii]	Date Construction Scheduled to Begin[20]	Source Control Measures[xix]	Site Design Measures[xx]	Treatment Systems Approved[xxi]	Operation & Maintenance Responsibility Mechanism[xxii]	Hydraulic Sizing Criteria[xxiii]	Alternative Compliance Measures[xxiv/xxv]	Alternative Certification[xxvi]	HM Controls[xxvii/xxviii]
Public Projects										
El Charro CIP APN: 904 000100905	Yes	6/2011	A&D	a & d – a portion of vineyard buffer is used for infiltration	Hydromodification Basins serving El Charro Specific Plan Area and swales along roadway and between mass fill area and trail	Operation and Maintenance Argreement with private property owners funded through a landscape maintenance district.	Flow – 2.c Volume 1.b	NA	NA	Hydromodification Basins and bio-retention swales
Isabel Interchange, Portola APN: 099 026001204	Yes	10/2009	D	a & b	Bioretention Swales	City	Flow – 2.c	NA	NA	Bioretention Swales
Trail CIP 2007-15, Segment H-2+F APN: 099 080000200	Yes	10/2010	D	a & b	Bioretention Swales	LARPD	Flow – 2.c	NA	NA	Bioretention Swales
CIP Projects										
Galaxy Ct Flood Protection	Yes	9/2012	D	a	Not needed – Culvert Removal & Creek Restoration Project	City	NA	NA	NA	NA
Livermore Village Plaza	No	NA		a, b	NA	City	NA	NA	NA	NA
Capital Projects										
Isabel I/C Projects 1992381 and 1992382 (Projects 1&2) APN: 099 026001204	Yes	October 2009	A&D	a. & b.	Swales	City	Flow – 2.c	NA	NA	Bioretention Swales

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

Project Name Project No.	Is Funding Committed?[xviii]	Date Construction Scheduled to Begin[20]	Source Control Measures[xix]	Site Design Measures[xx]	Treatment Systems Approved[xxi]	Operation & Maintenance Responsibility Mechanism[xxii]	Hydraulic Sizing Criteria[xxiii]	Alternative Compliance Measures[xxiv/xxv]	Alternative Certification[xxvi]	HM Controls[xxvii/xxviii]
El Charro Specific Plan (Project 2007201) APN: 904 001300100	Yes	June 2011	A & D	a. & d. a portion of vineyard buffer used for infiltration	Hydromodification Basins serving El Charro Specific Plan Area and swales along roadway and between mass fill area and trail	Operation and Maintenance Argreement with private property owners funded through a landscape maintenance district.	Flow – 2.c Volume 1.b	NA	NA	Hydromodification Basins and bio-retention swales
Airport Administration Building (200711) in 2013	Yes	8/2012	A,B,C,D,F,G	a & b	Bioretention Swales	City	Flow – 2.c	NA	NA	Bioretention Swales
Iron Horse Trail Bridge (201040)	Yes	9/2012	D	a, b	Infiltration less than 10,000 sf	City	NA	NA	NA	NA
East Vineyard Realignment (199660)	Yes	Spring 2013	D	a, b	Infiltration less than 10,000 sf	City	NA	NA	NA	NA
Trail Segment L19 under the Portola Overcrossing (200655)	No	NA	D	a,b	Infiltration less than 10,000 sf	City	NA	NA	NA	NA
Forecourt Plaza at the Regional Performing Arts Theater (580002)	Yes	11/2012	A & D	a & b	Infiltration planters	City	Volume 1.b	NA	NA	Infiltration planters
The Regional Performing Arts Theater Infrastructure (583018)	No	Not scheduled								

Comments:
24,25,26 No alternative compliance nor alternative certifications were needed. All projects used standard treatment and detention devices and City staff reviewed all projects.

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)[9]	Party Responsible[10] For Maintenance	Date of Inspection	Type of Inspection[11]	Type of Treatment/HM Control(s) Inspected[12]	Inspection Findings or Results[13]	Enforcement Action Taken[14]	Comments/Follow-up
Mc Grath	5699 Las Positas	Yes	City	10/15/2011	45-day	Swales	Installed properly	None	
Isabel Interchange		Yes	City		45-day	Swales	Installed properly	None	
El Charro CIP Infrastructure	El Charro Road/W. Jack London Blvd/Paragon Outlets Drive	YES	City of Livermore	11/1/11	45-day	HMP Basin 1 and HMP Basin(2&3)	HMP Basins Installed properly, Swales and Southern Conveyance Facility not yet complete	None	
Heritage Paper	6850 Brisa St.	No	Heritage Paper	7/6/2011	Scheduled	Drain Inserts	Compliant	None	None
National Food Laboratory	2441 Constitution St.	No	Lyell Fork LLC 1300 Industrial Rd. San Carlos, CA	7/6/2011	Scheduled	Vegetated Swales	Compliant	None	None
Arrowhead Water	7480 Las Positas Rd.	No	Arrowhead Water	7/8/2011	Scheduled	Drain Inserts	Compliant	None	None
Save Tow	67 Trevarno Rd.	No	Denise and Joseph Eldon 4082 Piersy Discovery Bay, CA	7/21/2011	Scheduled	Vegetated Swales	Compliant	None	None
Lowe's	4255 First St.	No	Lowe's	7/28/2011	Scheduled	Vegetated Swales	Required removal of trash/debris from storm drain	None	None
Kohl's	2900 Las Positas Rd.	No	C&D Livermore, LLC 634 N. Santa Cruz #100 Los Gatos, CA	7/28/2011	Scheduled	Vegetated Swales	Compliant	None	None

[9] Indicate "YES" if the facility was installed within the reporting period, or "NO" if installed during a previous fiscal year.
[10] State the responsible operator for installed stormwater treatment systems and HM controls.
[11] State the type of inspection (e.g., 45-day, routine or scheduled, follow-up, etc.).
[12] 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.
[13] State the inspection findings or results (e.g., proper installation, improper installation, proper O&M, immediate maintenance needed, etc.).
[14] State the enforcement action(s) taken, if any, as appropriate and consistent with your municipality's Enforcement Response Plan.

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)[9]	Party Responsible[10] For Maintenance	Date of Inspection	Type of Inspection[11]	Type of Treatment/HM Control(s) Inspected[12]	Inspection Findings or Results[13]	Enforcement Action Taken[14]	Comments/Follow-up
Robert Livermore Park/Community Center	4444 East Avenue	No	LARPD 4444 East Avenue	7/28/2011	Scheduled	Vegetated Swales	Compliant	None	None
Home Depot	2500 Las Positas Rd.	No	Home Depot	7/28/2011	Scheduled	Vegetated Swales	Compliant	None	None
String's Restaurant	2205 Las Positas Rd.	No	SFP Las Positas, LLC 333 W. El Camino Real #240 Sunnyvale, CA	7/28/2011	Scheduled	Vegetated Swales	Compliant	None	None
Popeye's Chicken	2301 Las Positas Rd	No	Viazon Holding, LLC 434 Gellert Dr. San Francisco, CA	7/28/2011	Scheduled	Vegetated Swales	Compliant	None	None
Packaging Innovators	6650 National Drive	No	Packaging Innovators	7/26/2011	Scheduled	Drain Inserts	Compliant	None	None
Harris Salinas Rebar	355 South Vasco Rd	No	Harris Salinas Rebar	8/30/2011	Scheduled	Media Filters	Compliant	None	None
Penske Truck Leasing	6215 Las Positas Rd.	No	Penske Truck Leasing	9/14/2011	Scheduled	Vegetated Swale	Swale not adequately sloped for optimal drainage	None	None
Roma of Northern California	6211 Las Positas Rd.	No	Bluff Drive I and II, LLC 31752 S.Cost Hwy #200 Laguna Beach, CA	8/23/2011	Scheduled	Vegetated Swale Vortex Separator	Required maintenance of Vortex by 9/16/2011 to remove accumulated debris.	None	Follow-up Inspection Required
Roma of Northern California	6211 Las Positas Rd.	No	Bluff Drive I and II, LLC 31752 S.Cost Hwy #200 Laguna Beach, CA	9/20/2011	Follow-up	Vegetated Swale Vortex Separator	Separator Maintenance has been performed as required. Compliant	None	None

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)[9]	Party Responsible[10] For Maintenance	Date of Inspection	Type of Inspection[11]	Type of Treatment/HM Control(s) Inspected[12]	Inspection Findings or Results[13]	Enforcement Action Taken[14]	Comments/Follow-up
Boat Masters	5162 Preston Ave.	No.	Boatmasters	10/12/2011	Scheduled	Vegetated Swales	Presence of invasive weeds in swale	None	Required removal of weeds in swale.
California Dept. of Transportation	6153 Southfront Rd.	No	California Dept. of Transportation	10/14/2011	Scheduled	Drain Inserts/Sedimentation Structure	Compliant	None	None
US Food Service	300 Lawrence Dr.	No	Kraft Food Service, Inc. 1149 Harrisburg Place Calrlisle, PA	10/25/2011	Scheduled	Extended Detention Basin	Compliant	None	None
Admedes, Inc	2800 Collier Canyon Rd.	No	Admedes, Inc	11/3/2011	Scheduled	Infiltration Basin	Compliant	None	None
LPFD Station #8	5750 Scenic Ave.	No	City of Livermore	11/9/2011	Scheduled	Drain Inserts	Compliant	None	None
LPFD Station #10	330 Airway	No	City of Livermore	11/9/2011	Scheduled	Vegetated Swale	Compliant	None	None
Condon Johnson Associates	7770 Hawthorne Ave.	No	Condon Johnson Associates	11/14/2011	Follow-up	Drain Inserts	Compliant	None	Filters have been replaced.
Interstate Storage	1800 Sutter St.	No	Interstate Storage	11/17/2011	Scheduled	Vegetated Swale	Compliant	None	None
Dun-Rite Excavating	5382 Brisa St.	No	Dun-Rite Excavating	1/11/2012	Scheduled	Vegetated Swale	Trash and Debris Invasive Weeds/Vegetation	None	Facility required to remove trash and weeds
Clark Pest Control	2313 Research Dr.	No	Clarksen Ca Properties 405 W. Pine St. Lodi, CA	2/14/2012	Scheduled	Vegetated Swale	Compliant	None	None
String's Restaurant	2205 Las Positas Rd.	No	SFP Las Positas, LLC 333 W. El Camino Real #240 Sunnyvale, CA	4/20/2012	Scheduled	Vegetated Swale	Compliant	None	None

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)[9]	Party Responsible[10] For Maintenance	Date of Inspection	Type of Inspection[11]	Type of Treatment/HM Control(s) Inspected[12]	Inspection Findings or Results[13]	Enforcement Action Taken[14]	Comments/Follow-up
Heritage Estates 900	900 E. Stanley Blvd.	No	Heritage Estates	5/12/2012	Scheduled	Vegetated Swale	Compliant	None	Bioswale as designed/constructed is ineffective due to location of drain.
Heritage Estates 850	850 E. Stanley Blvd.	No	Heritage Estates	5/12/2012	Scheduled	Vegetated Swale	Compliant	None	Bioswale as designed/constructed is ineffective due to location of drain.
Livermore Sanitation	7000 National Drive	No	Livermore Sanitation	5/31/2012	Scheduled	Vegetated Swale	Compliant	None	Trash and Debris in Swale
John Ferreri Trust	130613612,1500, 1510,1524,1536,1548 and 1550 N. Vasco Rd.	No	John P. Ferreri P.O. Box 2768 Danville, CA	5/21/2012	Scheduled	Vegetated Swale	Compliant	None	Ponding on one swale due to height of grass at inlet to swale
Contractors Common	4370-4382 Contractors Common	No	Stoner, Robert E. and Tracy L. 2226 Cabernet Way, Livermore	5/30/2012	Scheduled	Vegetated Swale	Compliant	None	A few leaves noted in Fossil Fileters
Top Grade Construction	50 Contractors St.	No	Top Grade Construction	5/30/2012	Scheduled	Vegetated Swale	Compliant	None	None
In N Out Burger	1881 N.Livermore	No	In N Out Burger	5/30/2012	Scheduled	Vegetated Swale	Compliant	None	None
J & M, Inc.	6700 National Drive	No	J&M Inc.	5/30/2012	Scheduled	Vegetated Swale	Compliant	None	None
Der Weinershnitzel	816 N. Vasco Rd.	No	Andi & Thomas Saberi 1045 Airport Blvd. #12 S. San Francisco, CA	6/5/2012	Scheduled	Vegetated Swale	Compliant	None	None
McDonald's	805 N. Vasco Rd.	No	McDonald's	6/28/2012	Scheduled	Vegetated Swale	Compliant	None	None

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)[9]	Party Responsible[10] For Maintenance	Date of Inspection	Type of Inspection[11]	Type of Treatment/HM Control(s) Inspected[12]	Inspection Findings or Results[13]	Enforcement Action Taken[14]	Comments/Follow-up
Farmer's Insurance	1860 Second St.	No	Compass Bank 15 South 20th St 1802 Birmingham, AL	06/28/2012	Scheduled	Vortex Separator	Compliant	None	None
City of Livermore Civic Center	1188 South Livermore Ave	No	City of Livermore	06/28/2012	Scheduled	Vegetated Swale	Compliant	None	None
City of Livermore Downtown Parking	2330 Railroad	No	City of Livermore	06/28/2012	Scheduled	Drain Inserts	Compliant	None	None
KFC/A&W	6061 Northfront Rd.	No	Harmon Mngmt Corp P.O. Box 57230 Salt Lake City, UT	06/28/2012	Scheduled	Vegetated Swales	Compliant	None	Woodchips clogging stormdrain. Facility required to clean inlet.
Country Waffles	6049 Northfront Rd	No	Vasco III Assoc., LLC 350 W. Julian St. #2 San Jose, CA	06/28/2012	Scheduled	Vegetated Swales	Compliant	None	None
Parchments Café	348 N. Canyon Parkway	No	Parchments Café	06/19/2012	Scheduled	Vegetated Swale	Compliant	None	Swale is too small to be effective
Shiva-Vishnu Temple	1232 Arrowhead Blvd.	No	Shiva-Vishnu Temple	06/27/2012	Scheduled	Vegetated Swale	Compliant	None	None
3560 Robertson Park Road	3560 Robertson Park Road	No	City of Livermore	06/28/2012	Scheduled	Vegetated Swale	Compliant	None	None

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

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

Project Name & No.	Permittee	Address	Application Submittal Date[15]	Status[16]	Description[17]	Site Total Acreage	Density DU/Acre	Density FAR	Special Project Category[18]	LID Treatment Reduction Credit Available[19]	List of LID Stormwater Treatment Systems[20]	List of Non-LID Stormwater Treatment Systems[21]
No special projects to report for the FY 2011/2012												

[15] Date that a planning application for the Special Project was submitted. If a planning application has not been submitted, include a projected application date.
[16] 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.
[17] Type of project (commercial, mixed-use, residential), number of floors, number of units, type of parking, and other relevant information.
[18] For each applicable Special Project Category, list the specific criteria applied to determine applicability. For each non-applicable Special Project Category, indicate n/a.
[19] 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.
[20]: 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.
[21] 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.

During the Fiscal Year 2011/2012, the City of Livermore performed stomwater inspections of the following categories:

Facilities permitted under the City's Pretreatment Program
NOI Facilities
All Facilities listed under SIC 5812, Eating Establishments

During the Fiscal Year 2011/2012, the City of Livermore performed a total of 288 facility inspections.

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.

The City of Livermore developed a 5-Year Inspection Plan to comply with the requirements a prescribed in Section C.4.b of the Municipal Regional Stormwater Permit. Please refer to the attached document entitled "Stormwater Industrial and Commercial Inspection Plan" (See C.4 Attachments).

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.

During the Fiscal Year 2012/2013, the City of Livermore plans to perform 133 stormwater facility inspections comprised of the following:

--All industrial/commercial facilities permitted under the City's Pretreatment Program

--NOI Facilities, and

--All Facilities Listed under SIC 8711, Engineering Services (17 Facilities)
SIC 8731, R&D Labs-Commercial (5 Facilities)
SIC 8734, Testing Labs (2 Facilities)

	SIC 5093, Scrap & Waste Materials (2 Facilities) SIC 4212, Local Trucking (5 Facilities) SIC 5261, Retail Nurseries (4 Facilities) SIC 5211, Lumber and Other Building Material Dealers (7 Facilities)

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	277	
Total number of inspections conducted	288	
Number of violations (excluding verbal warnings)	4	
Sites inspected in violation	4	1.4%
Violations resolved within 10 working days or otherwise deemed resolved in a longer but still timely manner	4	100%

Comments:
In addition to the 4 violations, the City of Livermore issued a total of 22 verbal warnings for minor issues (i.e. "house-keeping", closing of dumster lids, etc) that were typically resolved during the site inspection.

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)	3
Potential discharge and other	1
Comments: None	

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)[16]	Number of Enforcement Actions Taken	% of Enforcement Actions Taken[17]
Level 1	Warning-Verbal	22	85%
Level 2	Warning-Letter	3	12%
Level 3	Notice of Violation	0	0
Level 4	Notice of Violation with Administrative Citation	1	3%
Total			

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[18]	Number of Actual Discharge Violations	Number of Potential/Other Discharge Violations
Pretreatment Permitted Facility		3
Food Service Establishment	1	14
Warehouse	1	1
SIC 3691- Manuf. of Storage Batteries	1	
Commercial Retail		1
Golf Course		1
Industrial/Manufacturing		1
Automotive Sales		1
Construction Warehouse/Yard		1

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:

None

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

C.4.d.iii ► Staff Training Summary

Training Name	Training Dates	Topics Covered	No. of Inspectors in Attendance	Percent of Inspectors in Attendance
CWEA Annual Conference 2011	April 2012	Various Stormwater Topics	3	60%
CASQA Annual Conference	November 2011	Various	3	60%
ACCWP- Inspector Training		PCBs/ Stormwater Inspections	5	100%

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

Program Highlights

Provide background information, highlights, trends, etc.

The City of Livermore has established a priority screening list of outfalls to routinely inspect for illicit discharge activities. Inspections are documented using the "Storm System Screening Form". The following is the priority list of Outfalls to survey for illicit discharge activity:

OUTFALL ID#	SIZE	LOCATION
OF2G01	48"	N. Vasco / Garaventa Ranch
OF2G02	36"	Broadmoore St.
OF3C01	66" x2	Collier Canyon Rd. / Heligan Ln.
OF3F01	42"	Redwood Rd. / Autumn Oak Rd.
OF3G01	36"	Hollyhock St. / Golf Course
OF3G02	42"	Bluebell Dr. / Golf Course
OF3G03	36"	Central Ave. / Lobelia Wy.
OF3G04	54"	Vasco Rd.
OF3G05	42"	Vasco Rd.
OF3H01	48"	Northfront Rd.
OF4C01	72" x2	Collier Canyon Rd. / Portola Ave.
OF4C02	48"	Constitution Dr.
OF4C03	36"	Airway Blvd.
OF4C04	48"	Airway Blvd. / Kitty Hawk Rd.
OF4C05	36"	Airway Blvd. / Kitty Hawk Rd.
OF4C06	30"	Airway Blvd. / Starbucks
OF4C07	36"	Off Ramp of Airway Blvd.
OF4C08	24"	Off Ramp of Airway Blvd. / Zone 7
OF4D01	60"	Shea Center
OF4D02	48"	East Airway Blvd.
OD4D03	60"	Paseo Laguna Seco
OF4E01	48"	N. Livermore
OF4E02	42"	Las Positas / Kaiser Buiding
OF4E03	27"	Las Positas / Post Office
OF4F01	60"	First St. / Las Positas
OF4G01	48"	Arroyo Vista

OUTFALL ID#	SIZE	LOCATION
OF4G02	36"	Arroyo Vista
OF5G01	54"	Charlotte Way / Lucille St.
OF5G02	42"	Patterson Pass / Arlene Way
OF5G03	42"	Patterson Pass / Joyce St.
OF5G04	84"	Las Positas / Contractors
OF5G05	60"	Patterson Pass / Maureen Cir.
OF5G06	30"	Patterson Pass / Shelly St.
OF5G07	30"	Contractors / Railroad Bridge
OF5H01	60"	Patterson Pass / Vasco
OF5H02	48"	Vasco overpass at Patterson Pass
OF6D10	12"	Summer Tree Ct.
OF6D11	12"	Summer Tree
OF6D13	12"	Summer Tree / Cottonwood Ct.
OF6D16	12"	Summer Tree / Eucalyptus Ct.
OF7D01	54"	El Padro/ Ontario Dr.
OF7E03	30"	Robertson Park Rd.
OF7F01	48"	Robertson Park Rd.
OF9D01	36"	Siena Rd.

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
LWRP	Livermore Water Reclamation Plant	925-960-8100
LPFD/LPD	Emergency Services	911

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:

The City of Livermore requires mobile cleaners to implement the BMPs recommended by the BASMAA Mobile Surface Cleaners Program. Refer to the C.5 Illicit Discharge Detection and Elimination section of countywide program's FY 11-12 Annual Report for a description of efforts by

countywide committees/work group 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's collection screening program consist of (1) storm drain inlet,s (2) channel sections and outfalls, or (3) an industrial/commercial area. Storm drain inlets throughout the city are routinely surveyed for illicit discharges by municipal maintenance staff through the course of their routine storm drain inlet maintenance activities. As a significant volume of our illicit discharges are identified by Source Control staff through routine inspections and surveys of industrial and commercial business parks, a decreased emphasis is placed on surveying belowground storm drain structures, channel sections, and outfalls. However, periodically these areas are surveyed for illicit discharges. Historically, the majority of illicit discharges are discovered to be occurring in industrial and commercial areas; therefore, the majority of staff time and resources for illicit discharge survey activities are concentrated in these areas. The City of Livermore documents all illicit discharges with the ACCWP Illicit Discharge Report form and track inspection data with the City's Illicit Discharge Report database. Attached are the quarterly Illicit Discharge Reports generated from the database for this reporting period.

During this reporting period, the outfalls identified in C.5 of this report were not inspected/screened during the dry-season. Maintenance Staff time, resources and scheduling did not allow crews to perform such screening inspections during the summer months of July, August, and September 2011. During the "Rainy Season" in November 2011, Maintenance staff preformed some "emergency work" at a creek outfall to prevent flooding in nearby neighborhoods. The affected neighborhoods had a history of flooding and its drainage outfall to the creek was obstructed due to the accumulation of vegetation and other debris. After performing the required maintenance to remove the obstruction and prevent upstream flooding, the RWQCB , Department of Fish and Game, and the U.S. Fish and Wildlife service informed the City that they did not believe the potential for flooding met their definition of "emergency", and therefore, in these agencies' opinion, the City was in violation for the work performed at the creek outfall without the appropriate permits and approvals. In response to this incident, the City has working on a "Stream Maintenance Plan" with the RWQCB, Department of Fish and Game, and U.S. Fish and Wildlife Services. Until such a time, that this "Stream Maintenance Plan" is approved by all regulatory agencies and the City is granted the necessary permit to perform routine maintenance of creek outfall, City Maintenance Staff has been instructed to not enter or perform any activities within the creeks or creek outfalls. As a result of this, Maintenance Staff did not perform Screening inspection in the "dry-season" months of May and June 2012.

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))	24	
Discharges reaching storm drains and/or receiving waters (C.5.f.iii.(2))	3	12.5%
Discharges resolved in a timely manner (C.5.f.iii.(3)	24	100%

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

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

The following is a summary of the types of illicit discharges discovered during the reporting period:

Type	Number of Occurrences
Paint	1
Construction Debris	1
Sediment/Mud	1
Food Wastes	3
Yard Waste	1
Industrial Waste	3
Vehicle Cleaning Washwater	2
Bldg.Sidewalk Washwaters	1
Other (Swimming Pools)	4
Sewage	2
Automotive Fluids	3

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	**3**	**54**
Comments: None		

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

Guidance: Do not leave any cells blank.

BMP Category	Number of Violations[19]	% of Total Violations[20]
Erosion Control	0	0
Run-on and Run-off Control	0	0
Sediment Control	9	90%
Active Treatment Systems	0	0
Good Site Management	1	0
Non Stormwater Management	0	10%
Total	**10**	**100%**

[19] Count one violation in a category for each site and inspection regardless of how many violations/problems occurred in the BMP category.
[20] 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)[21]	Number Enforcement Actions Taken	% Enforcement Actions Taken[22]
Level 1	Verbal Warning	5	62.5%
Level 2	Written Warning/Notice of Correction	3	37.5%
Level 3			
Level 4			
Total			**100%**

C.6.e.iii.1.f, g ►Illicit Discharges

Guidance: Do not leave any cells blank.

	Number
Number of illicit discharges, actual and those inferred through evidence (C.6.e.iii.1.f)	0
Number of sites with discharges, actual and those inferred through evidence (C.6.e.iii.1.g)	0

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)	8	100%[23]
Violations not fully corrected within 30 days after violations are discovered (C.6.e.iii.1.i)	0	%[24]
Total number of violations for the reporting year[25]	8	100%
Comments: None		

[21] Agencies should list the specific enforcement actions as defined in their ERPs.
[22] Percentage calculated as number of each type of enforcement action divided by the total number of enforcement actions.
[23] 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.
[24] 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.
[25] 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.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: The City of Livermore had 3 construction sites greater than one acre active during the rainy season.

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 of Livermore utilizes the "Inspection Checklist for Construction Stormwater Control" to document the stormwater inspections conducted by Building and Engineering Inspection Staff. Completed inspection forms are entered into a database which tracks inspection and violations types and frequencies.

C.6.f ► Staff Training Summary

Training Name	Training Dates	Topics Covered	No. of Inspectors in Attendance	Percent of Inspectors in Attendance
Clean Water Program: New Development Workshop	06/12/2012	Implementing C.3 requirements	8	

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:

Participating in the BASMAA Regional Advertising Campaign through the Program. A summary of activities is provided in Section C.7 of the Program's FY 11-12 Annual Report.

Participating in the BASMAA Regional Youth Litter Campaign through the Program. The following separate report developed by BASMAA summarizes the activities of the Regional Youth Litter Campaign.

- BASMAA Youth Litter Campaign Report

The City of Livermore Water Resources Division helped advertise the *Be the Street Anti-Litter Video Contest* on its web page, and posted the Contest flyer in all of its City facilities.

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:

Participating in the BASMAA Regional Litter Ad Campaign through the Program. The following separate report developed by BASMAA summarizes the pre-campaign survey conducted in FY 11-12:

- BASMAA Youth Litter Campaign Report

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

	Survey report attached
x	Reference to regional submittal:

C.7.c ►Media Relations

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

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

Summary:

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

• BASMAA Media Relations Final Report FY 11-12

This report and any other media relations efforts conducted countywide is included within the C.7 Public Information and Outreach section of Program's FY 11-12 Annual Report.

The City of Livermore Water Resources Division promotes pollution prevention messages such as proper Fats, Oils and Grease (FOG), drug and household hazardous waste disposal; proper car, pool and spa maintenance; proper car and pavement washing; pesticide reduction; and litter prevention in its water and sewer bill messages, and on its web page. Additionally, the Water Resources Division continues to target 32,000 residents through the City's semi-annual *Community Newsletter*. During FY 11-12, the Water Resources Division published an article titled, *Litter Prevention*, in the Newsletter's Winter/Spring 2011 issue.

The Water Resources Division works with its solid waste and recycling hauler, Livermore Sanitation, to promote the following pollution prevention messages on its website and in its monthly, Residential Newsletter which targets 24,000 residents: proper FOG, drug and household hazardous waste disposal; and litter prevention. During FY 11-12, the Water Resources Division published an article titled, *Recycle, Fats, Oils and Grease (FOG)*, in the Newsletter's October 2011 issue.

C.7.d ►Stormwater Point of Contact

Summary of any changes made during FY 10-11:

Steve Aguiar, Environmental Compliance Supervisor, new email address: smaguiar@cityoflivermore.net

City of Livermore Water Resources Division new web page address: www.cityoflivermore.net/citygov/pw/wrd/default.asp

City of Livermore Water Resources Division new email address: wrd_info@cityoflivermore.net

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**
2011 Alameda County Fair- staffed by City of Livermore Source Control Inspectors on 07/09/2011	See Clean Water Program's FY 2011/12 Report.	See Clean Water Program's FY 2011/12 Report.
Livermore Drug Take Back Event, 09/24/2011	To help residents safely and properly dispose of unwanted prescription and over-the-counter drugs, the City's Water Resources Division and Police Department hosted a free Livermore Drug Take-Back Event. Partnering agencies helped plan and advertise the event. The Drug Take-Back Event was held outside the Livermore Police Department on September 24, 2011 from 9:00 a.m. to 2 p.m. Livermore residents were invited to bring both non-controlled and controlled substances, which included prescription and over-the-counter drugs, vitamins, and supplements. Sharps were also accepted. The Water Resources Division provided an event survey and disseminated proper disposal information for substances, and the Police Department collected and secured the containers with substances for pick-up.	Four-hundred and six (406) residents participated in this event. To estimate the amount collected, Barnett Medical Services weighed five 55-gallon Pharma Safety Containers upon pick-up. Six-hundred and sixty-three (663) pounds of pharmaceutical waste was collected. This weight represents pills without pill containers and blister packs. Approximately 1.6 pounds of pharmaceutical waste was disposed of per person. The Water Resources Division recycled approximately 3.59 cubic yards of empty pill bottles and paper/cardboard. The Water Resources Division conducted a participant survey. Positive interaction and feedback from **all** residents. Most residents surveyed already knew about the importance of proper drug disposal, and at least half of the residents surveyed participated in last year's event. At last year's event, 1,073 pounds of pharmaceutical waste was collected from 428 residents; approximately 2.5 pounds of waste was disposed of per person.

Event Details	**Description** (messages, audience)	**Evaluation of Effectiveness**
Livermore Valley Joint Unified School District (LVJUSD) Science Odyssey, 03/01/2012	The Water Resources Division/Adopt a Creek Spot Program booth at the LVJUSD Science Odyssey was used to educate faculty members, students and their families about litter pollution, minimizing litter pollution (and other pollutants) to Livermore storm drains and creeks, and improving and protecting water quality and aquatic habitat in the Tri-Valley Creek Watershed. (The Adopt a Creek Spot Program is a partnership between the Water Resources Division, Zone 7 Water Agency, Livermore Area Recreation and Park District, Alameda County Resource Conservation District, Alameda Creek Watershed Council, Livermore Valley Joint Unified School District and Friends of the Arroyos. The Program's mission is to promote healthy Tri-Valley creeks through active community participation and education.) The informational materials distributed: Alameda Creek Watershed Map, Stormwater Pollution and Pollution and Prevention Brochures, Litter Prevention Brochure, and Clean Water Activity Booklets.	Positive interaction and feedback with approximately five-hundred (500+) residents and faculty members visiting the Water Resources Division/Adopt a Creek Spot Program booth. Approximately one-thousand (1000+) residents and faculty members participated in the event. This is the Adopt a Creek Spot's first LVJUSD Science Odyssey so next year's event will be used for comparison. Data trends will be provided in FY 12-13 Annual Report.

Event Details	Description (messages, audience)	Evaluation of Effectiveness
Livermore Wine Festival, 05/05 - 05/06/2012	The Water Resources Division booth at the Livermore Wine Festival is used to educate residents (and their families) about proper FOG handling, proper medicine disposal, Integrated Pest Management, litter minimization, non-point source pollution and pollution prevention. The informational materials distributed: Fat Free Sewers Brochure, Options for Proper Drug Disposal Hand-out, Livermore Drug Take-Back Event Flyer, Where Does Your Water Go? Brochure, Grow It! Guide, Control It! Guide, Healthy Home and Garden Booklet, Pest Bugging You? Pocket Guide, The 10 Most Wanted Bugs in Your Garden Brochure, Don't Plant a Pest Brochure, A Kid's Guide to Backyard Bug Guide, Pest or Pal? Activity Guide, Stormwater Pollution and Pollution Prevention Brochures, Litter Prevention Brochure, Detain the Rain Brochure, and Clean Water Activity Booklets.	Positive interaction and feedback with approximately three-hundred (300+) residents visiting the Water Resources Division booth. Approximately four-thousand (4000+) residents participated in the event. This trend is consistent with previous years' events.

Event Details	**Description** (messages, audience)	**Evaluation of Effectiveness**
City of Livermore Health & Safety Fair, 06/06/2012	The Water Resources Division booth at the City of Livermore Health and Safety Fair is used to educate employees (and their families) about proper FOG handling, proper medicine disposal, Integrated Pest Management, litter prevention, non-point source pollution, and pollution prevention. The informational materials distributed: Fat Free Sewers Brochure, Livermore Drug Take-Back Event Flyer, Options for Proper Drug Disposal Hand-out, Where Does Your Water Go? Brochure, Grow It! Guide, Control It! Guide, Healthy Home and Garden Booklet, Pest Bugging You? Pocket Guide, The 10 Most Wanted Bugs in Your Garden Brochure, Don't Plant a Pest Brochure, A Kid's Guide to Backyard Bug Guide, Pest or Pal? Activity Guide, Stormwater Pollution and Pollution Prevention Brochures, Litter Prevention Brochure, Detain the Rain Brochure, and Clean Water Activity Booklets.	Positive interaction and feedback with approximately fifty (50+) employees visiting the Water Resources Division booth. Approximately one-hundred (100+) employees participated in the event. This trend is consistent with previous years' events.
City of Livermore Bag-It Documentary Screening, 06/19/2012	To help residents learn more about Alameda County Waste Management Authority's plastic, grocery bag ban, and the health and environmental impacts of plastic and plastic bags, the City of Livermore's Environmental Services and Water Resources Divisions, and Livermore Sanitation hosted a free Bag-It Documentary Screening. The informational materials distributed: Alameda Creek Watershed Map, Stormwater Pollution and Pollution and Prevention Brochures, Litter Prevention Brochure, and Clean Water Activity Booklets.	Positive interaction and feedback with approximately seventy-five (75+) residents visiting the City booth. Approximately one-hundred (100+) residents participated in the event. This is the City's first Screening so next year's event (if there is one) will be used for comparison. Data trends will be provided in FY 12-13 Annual Report.

Event Details	**Description** (messages, audience)	Evaluation of Effectiveness
Livermore Farmer's Market, 06/21/2012	The Water Resources Division booth at the Livermore Farmer's Market is used to residents about proper FOG handling, proper medicine disposal, Integrated Pest Management, litter prevention, non-point source pollution, and pollution prevention. The informational materials distributed: Fat Free Sewers Brochure, Livermore Drug Take-Back Event Flyer, Options for Proper Drug Disposal Hand-out, Where Does Your Water Go? Brochure, Grow It! Guide, Control It! Guide, Healthy Home and Garden Booklet, Pest Bugging You? Pocket Guide, The 10 Most Wanted Bugs in Your Garden Brochure, Don't Plant a Pest Brochure, A Kid's Guide to Backyard Bug Guide, Pest or Pal? Activity Guide, Stormwater Pollution and Pollution Prevention Brochures, Litter Prevention Brochure, Detain the Rain Brochure, and Clean Water Activity Booklets.	Positive interaction and feedback with approximately one-hundred (100+) residents visiting the Water Resources Division booth. Approximately four-hundred (400+) residents participated in the event. This trend is consistent with previous years' events. This is the Water Resources Division's first Farmer's Market in the past few years so next year's event (if there is one) will be used for comparison. Data trends will be provided in FY 12-13 Annual Report.
2012 Alameda County Fair- staffed by a City of Livermore Source Control Inspector on 06/24/2012.	See Clean Water Program FY 2011/12 Report.	See Clean Water Program FY 2011/12 Report.

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:

Refer to the Program's 11/12 Annual Report for a summary of efforts conducted at the countywide or regional level.

Friends of the Arroyos' Integrated Pest Management (IPM)Presentation at the Bringing Back the Natives Tour, 05/06/2012: The Water Resources Division provided the Friends of the Arroyos (FOTA)some of its IPM literature and seed packets to disseminate to Bay Area residents. FOTA received positive feedback from 251 attendees.

Lawrence Livermore National Laboratory (LLNL) Watershed Presentation on 04/18/2012 for "Take Your Sons and Daughters to Work Day" during LLNL Earth Week from 4/16-4/19/2012: The Water Resources Division provided LLNL Pollution Prevention (P2) some of its watershed literature, pencils and erasers to disseminate to LLNL sons and daughters. LLNL EPD received positive feedback from 100 kids, and over 800 kids came to LLNL to see and experience what their parents do at work.

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
Refer to the Program's 11/12 Annual Report for a summary of efforts conducted at the countywide or regional level.		

Event Details	Description	Evaluation of effectiveness
Granada Native Gardens and Arroyo Mocho Clean-up and Monitoring Event, 04/14/2012	The Adopt a Creek Spot Program coordinated a creek clean-up and monitoring event with Granada High School's California Environment class and Interact Club at Friends of the Arroyos' Adopt a Creek Spot called Granada Native Gardens along the Arroyo Mocho. The Program presented information on fresh water sources, native plants and Integrated Pest Management, non-point source (especially litter) pollution, Creek Watch Application, and pollution prevention. Students identified the Garden's native plants, and the Mocho's macroinvertebrates and pollution types; inventoried the Mocho's pollution types with Creek Watch; estimated the Mocho's riparian plant cover; and tested the Mocho's fresh water for pH, dissolved oxygen, conductivity and turbidity. The class' teacher and club advisor published the Garden and Mocho's clean-up and monitoring data on worldwatermonitoringday.org. The informational materials distributed: Alameda Creek Watershed Map, Stormwater Pollution and Pollution and Prevention Brochures, Litter Prevention Brochure, and Clean Water Activity Booklets.	The Adopt a Creek Spot Program's partners agree that the Granada Native Gardens Arroyo Mocho Clean-up and Monitoring Event was a huge success. This event will help the partners plan its Coastal Clean-up Day event on September 15, 2012 titled, *Tri-Valley Creeks to Bay Day*. Thirty (35) high school students and club members collected one-hundred and twenty (120) gallons of trash and recyclables from a 300 foot spot along the Arroyo Mocho. No inlets were marked during this event. This event is a first-time, ongoing event so next year's event will be used for comparison. Data trends will be provided in FY 12-13 Annual Report.

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
Refer to the C.7 Section of the countywide program's FY 11-12 Annual Report (if applicable) for a description of School-age Children Outreach efforts conducted at the countywide level.			
Trinity Baptist Daycare Stormwater Presentation: 4 presentations provided to 2 year-old, 3 year-old, 4-year and Kindergarten students, 10/13/2011	The Presentation includes information on the watershed and water cycle, the differences between storm drains and sewers, and non-point source pollutants and pollution prevention. This information is presented with a Sewer versus Storm Display Board, Mr. Ball Video and a Watershed Diorama Activity.	67	Teacher Surveys are used to evaluate the effectiveness of outreach. Survey results have been submitted in previous FY reports for the same teachers. This year's "Great Program!" results are consistent with previous years.
Livermore High School Sewer Science Lab: 2 labs provided to biology classes, 05/16 – 05/19/2011 and 05/23 – 05/26/2011	Although the Lab focuses on the wastewater process and what not to put down the sewer drain, it does provide information on the watershed and water cycle, the differences between storm drains and sewers, and non-point source pollutants and pollution prevention. The information is presented with a Where Does Our Water Go Poster and an Alameda County Watershed Map.	60	Student Pre-assessments and Post-tests are used to evaluate the effectiveness of outreach. Both Teacher Surveys and Student Assessments and Test results have been submitted in previous FY reports for the same teacher. This year's pre-assessment scores remain consistent with previous years, and post-tests scores have improved by a couple of percentage points.

Program Details	Focus & Short Description	Number of Students/Teachers reached	Evaluation of Effectiveness
Livermore Water Reclamation Plant Tours: 10/13/2011: Classic Conversations Home School – K-2nd & 3rd-5th grades - 40 students 03/21/2012: Cub Scouts Troop #929 – 8 & 9 years old – 12 Scouts 04/12/2012: Boy Scout Troop #931 – 14 years old – 18 Scouts 04/16/2012: Connecting Waters Charter School – K-1st grades – 8 students 05/16/2012: Cub Scout Troop -6 & 7 years old – 8 Scouts 05/23/2012: Cub Scout Troop #915 – 8 & 9 years old – 5 Scouts	Although the Tour focuses on the wastewater treatment process and what not to put down the sewer drain, it does provide information on the differences between storm drains and sewers, and non-point source pollutants and pollution prevention.	91	Plant Tour Contact and Plant Tour Guide Surveys are used to evaluate the effectiveness of outreach. This year's "Great Program!" Tour Contact results are consistent with previous years, and Tour Guide results have improved overall.

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

Note: Since the City of Livermore was issued a Notice of Deficiency on it FY 2010/2011, the City has listed all pesticide used during the FY 2010/2011 and FY 2011/2012 regardless of the probability that the pesticide use was a threat to water quality. Detailed accountings of all pesticide use, including pesticides of concern, are included as an attachment to this reports. See C.9 attachments for these details.

As the City of Livermore's Pest Control Contractor is licensed and adheres to the requirements of the Department of Pesticide Regulation (DPR), all pesticide use is performed in accordance with current DPR laws and regulations; and therefore, is done so in a manner that reduces or poses no threat to water quality. Additionally, all site drainage at the City's Water Reclamation Plant is directed to the sanitary sewer headwords and no storm drains are present on site. Therefore, all pesticide use at the Water Reclamation Plant poses zero threat to surface water quality.

Trends in Quantities and Types of Pesticides Used[26]

Pesticide Category and Specific Pesticide Used	Amount[27]			
	FY 10-11	FY 11-12	FY 12-13	FY 13-14
Organophosphates		0		
None Used		0		
Pyrethroids: Talstar Professional- 7.9% Bifenthrin	7.0 oz	38.75 oz		
CyCick Aerosal- 0.1% Cyfluthrin	15.5 oz	4.0 oz		
Cycick CS- 6% Cyfluthrin	3.0 oz	0.5 oz		
Talstar Granuals- 0.2% Bifenthrin	32.0 oz	16.0 oz		
Carbamates: LarvaLur- 2% Phenyl Methylcarbamate	19.5 oz	34.0 oz		
Fipronil: Maxforce Ant Bait Stations- 0.1% Fipronil	1 each	0		
Maxforce Ant Bait Gel- 0.001% Fipronil	1 GR	0		

[26] Includes all municipal structural and landscape pesticide usage by employees and contractors.
[27] 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.	7
Enter the number of these employees who received training on your IPM policy and IPM standard operating procedures within the last 3 years.	6
Enter the percentage of municipal employees who apply pesticides who have received training in the IPM policy and IPM standard operating procedures within the last three years.	86%

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:				
	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 countywide Program, BASMAA and CASQA. For additional information, see the Regional Pollutants of Concern Report submitted by BASMAA on behalf of all MRP Permittees.

C.9.f ►Interface with County Agricultural Commissioners

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

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

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

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

Summary:

See the C.9 Pesticides Toxicity Control section of Program's FY 11-12 Annual Report for information on point of purchase public outreach conducted countywide and regionally.

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

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

Summary:

See the C.9 Pesticides Toxicity Control section of Program's FY 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.

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

Response to Comment #1: The City of Livermore contracts with Orkin Pest Control Services. Please see the attached "Orkin Commercial Services" description of the services to be provided to the City of Livermore under the standard City Contract for Services. This written description/scope of service to be provided by Orkin is based "in accordance with the principles of Integrated Pest Management" and clearly state that IPM measures will be used prior to pesticide application. Also, given the fact that Orkin Pest Control is "GreenPro Certified" in "Eco-Effective Pest Control (see copy of certification-attachment), Livermore staff believes it would be unnecessary and redundant to include additional,

specific contract language specifying that Orkin utilize IPM methods **that they already use as a standard practice** when performing their services at City facilities. Typically, when a contractor provides a description of services/scope of work to be performed, the City incorporates the description/scope as an attachment to the contract and does not include redundant language reiterating the scope of work. Based on the fact that Orkin is contracted to provide "Interior and exterior pest management in accordance with the principles of Integrated Pest Management (IPM)", it appears the contract specification do effectively require the use of the IPM hierarchy.

During this reporting period, the City again contracted with Orkin and contract language was not amended. As in the past, IPM methods were utilized in the pest management service provided by Orkin Pest Control Services at all city facilities.

Response to Comment #2: The City of Livermore, as well as its contractor, Orkin Pest Control Services, are fully aware and in compliance with the Department of Pesticide Regulation's requirements to "report all usage". Since this information had already been submitted in the required format to the Department of Pesticide Regulation for the FY 2010/2011 by both the City and Orkin Pest Control Services, the City of Livermore did not include it its FY 2010/2011 annual stormwater report to the RWQCB. This type of unnecessary and redundant reporting is one of many flaws of the MRP. When the City stated this data was not "readily available", the City did not intend this to be interpreted that this data was not tracked and reported in accordance with DPR requirements as was inferred by the Board's comments. It simply meant that such data was not readily available in the format needed for the information requested by the Board in our annual stormwater report. As requested, the City has included this data for the FY 2010/2011 and FY 2011/2012. See the table under C.9.b. of this report and attached documents.

However, Livermore staff would like to take this opportunity to comment on the ineffective and duplicative nature of this requirement, as well as the ineffective suggestions and overly simplistic assumptions made by Board staff in the MRP and other documents. Below is a list of concerns:

- The idea of wasting already limited staff time by requiring agencies to re-summarize data that has already been reported to the Department of Pesticide Regulation (DPR) serves no purpose. If Board staff requires a summary of pesticide use on city-owned properties, we suggest that they contact DPR and establish a system of data-sharing to eliminate this wasteful transfer of repetitive information. Furthermore, tracking the tiny subset of pesticides used on municipal facilities and ignoring the remainder of pesticides used over an entire agencies jurisdiction seems misguided at best. If Board staff are concerned over the impact of pesticide use and feel that examining and/or tracking usage information is worthwhile, we suggest working with DPR staff to identify a more

comprehensive evaluation of pesticide use.

- Section C.9 and other Board guidance materials reference the need to address the use of pesticides that "pose a threat to water quality". Since all pesticides in Livermore are applied in accordance with DPR requirements and manufacturer's instruction, there should be no "threat to water quality" from their use. If Board staff believe that pesticide use in accordance with all DPR requirements still pose a significant threat to water quality, staff should be working directly with DPR to impose additional controls or product bans instead of requiring municipal staff to re-report pesticide use.
- The assumption that pesticide use will decrease over time due to the implementation of IMP principles is overly-simplistic and likely false. If an agency were consistently implementing IMP prior to the MRP, there is no reason to assume a decreasing trend in pesticide use would occur. Therefore, the requirement for permittees to "suggest reasons for increases in use of pesticides that threaten water quality" is curious. Also, the very nature of IMP dictates that pesticide usage will *fluctuate* over time, in response to different, pest-specific or site-specific factors, or as non-pesticide approaches are exhausted. Therefore the assumption that usage will decrease and the requirement to explain any increase seems overly-simplistic.
- Board staff's suggestions to "focus on performance over paperwork" are patently ridiculous and should be removed from future correspondence and guidance. The May 9, 2012 Notice of Deficiency included the following statement" *Permittees who prefer to focus on performance over paperwork should consider the following compliance option: Rather than resubmit an improved IPM policy and contract specifications, track and report all pesticides used in the City*". Apparently Board staff is confused with the level of effort involved in annual tracking and reporting of pesticides on a continuing basis compared to that required for revising a single policy or contract language. Livermore staff suggests that if the Board staff is truly interested in focusing on "performance over paperwork" they should revise the MRP to remove the numerous duplicative requirements to submit data that is already provided to other state agencies. Alternately, Board staff should establish a system of data sharing with DPR to eliminate useless reporting and tracking requirement.

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:

The 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 Program'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 Program'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.

WCS ID	ADDRESS	LOC	CPS TYPE
1	LAS POSITAS RD & N LIVERMORE AVE	ES	RA1W
2	2301 LAS POSITAS RD	ES2	1W
3	2301 LAS POSITAS RD	ES3	RA1W
4	2500 LAS POSITAS RD	ACROSS	3W
5	LAS POSITAS RD & HILLIKER PL	WS	RA1W
6	LAS POSITAS RD & HILLIKER PL	WS2	LA1W
7	LAS POSITAS RD & HILLIKER PL	ES	RA2W
8	2825 LAS POSITAS RD		3W
9	2881 LAS POSITAS RD		1W
10	2900 LAS POSITAS RD	ACROSS	3W
11	3031 LAS POSITAS RD		3W
12	LAS POSITAS RD & N MINES RD	ES	3W
13	N MINES RD & LAS POSITAS RD	SW	3W
14	3400 LAS POSITAS RD	ACROSS	L2W

WCS ID	ADDRESS	LOC	CPS TYPE
15	3600 LAS POSITAS RD	ACROSS	3W
16	3600 LAS POSITAS RD	ECN	3W
17	3500 LAS POSITAS RD	WCN	3W
18	3500 LAS POSITAS RD	IN FRONT	LA1W
19	3400 LAS POSITAS RD	EN	RA1W
20	3400 LAS POSITAS RD	NE	3W
21	3400 LAS POSITAS RD	NW	3W
22	3200 LAS POSITAS RD		1W
23	NORTH MINES RD & LAS POSITAS RD	EN	1W
24	NORTH MINES RD & LAS POSITAS RD	NE	3W
25	NORTH MINES RD & LAS POSITAS RD	NW	3W
26	3100 LAS POSITAS RD		LA1W
27	3000 LAS POSITAS RD	BY BUS STOP	LA1W
28	3000 LAS POSITAS RD	EN	RA1W
29	2904 LAS POSITAS RD		L2W
30	2826 LAS POSITAS RD		L2W

WCS ID	ADDRESS	LOC	CPS TYPE
31	2792 LAS POSITAS RD		LA1W
32	LAS POSITAS RD & HILLIKER PL	EN	LA1W
33	LAS POSITAS RD & N LIVERMORE AVE	EN	3W
34	N LIVERMORE AVE & LAS POSITAS RD	NE	3W
35	N LIVERMORE AVE & LAS POSITAS RD	SW	R2W
36	N LIVERMORE AVE & LAS POSITAS RD	SW2	3W
37	N LIVERMORE AVE & LAS POSITAS RD	SE	1W
38	ARROYO PLAZA & N LIVERMORE AVE	ES	3W
39	AIRWAY BLVD & N CANYONS PKWY	SE	L2W
40	AIRWAY BLVD & N CANYONS PKWY	NW	3W
41	AIRWAY BLVD & N CANYONS PKWY	NC	1W CORNER
42	N CANYONS PKWY & AIRWAY BLVD	WS	RA1W
43	CONSTITUTION DR & N CANYONS PKWY	NE	3W

WCS ID	ADDRESS	LOC	CPS TYPE
44	CONSTITUTION DR & N CANYONS PKWY	NW	L2W
45	3142 N CANYONS PKWY		3W
46	455 NORTH CANYONS PKWY	ACROSS	R2W
47	NORTH CANYONS PKWY & INDEPENDENCE DR	WN	LA1W
48	455 NORTH CANYONS PKWY		R2W
49	2854 INDEPENDENCE DR		RA2W
50	INDEPENDENCE DR & COLLIER CANYON	NW	R2W
51	INDEPENDENCE DR & COLLIER CANYON	NE	3W
52	COLLIER CANYON & INDEPENDENCE DR	WN	R2W
53	COLLIER CANYON & INDEPENDENCE DR	WN2	RA2W
54	COLLIER CANYON & INDEPENDENCE DR	WN3	3W

WCS ID	ADDRESS	LOC	CPS TYPE
55	COLLIER CANYON & INDEPENDENCE DR	WS	RA1W
56	445 COLLIER CANYON		1W
57	444 COLLIER CANYON		1W
58	467 COLLIER CANYON		LA1W
59	466 COLLIER CANYON		RA1W
60	2801 CONSTITUTION DR		LA1W
61	2645 CONSTITIUTION DR		LA1W
62	2929 CONSTITUTION DR		LA1W
63	2929 CONSTITUTION DR	ACROSS	L2W
64	2882 CONSTITUTION DR		L2W
65	2850 CONSTITUTION DR		1W
66	KITTY HAWK RD & AIRWAY BLVD	ES	RA1W
67	KITTY HAWK RD & AIRWAY BLVD	EN2	LA2W
68	KITTY HAWK RD & AIRWAY BLVD	EN	3W

WCS ID	ADDRESS	LOC	CPS TYPE
69	2383 NISSEN DR	E	RA1W
70	2333 NISSEN DR		LA1W
71	419 EARHART WAY		L2W
72	EARHART WAY & NISSEN DR	EN	RA2W
73	AIRWAY BLVD & KITTY HAWK RD	SE	3W
74	AIRWAY BLVD & KITTY HAWK RD	SE2	R2W
75	AIRWAY BLVD & KITTY HAWK RD	SW	3W
76	AIRWAY BLVD & KITTY HAWK RD	NE	3W
77	AIRWAY BLVD & KITTY HAWK RD	NE2	3W
78	ARROYO VISTA & LAS POSITAS RD	NE	LA1W
79	4747 ARROYO VISTA		1W
80	4771 ARROYO VISTA		R2W
81	4676 LAS POSITAS RD		1W CORNER
82	4676 LAS POSITAS RD	ACROSS	LA1W
83	4555 LAS POSITAS RD		LA1W
84	4569 LAS POSITAS RD		R2W
85	LAS POSITAS AND ARROYO VISTA	EN	L2W
86	LAS POSITAS BLVD & FIRST ST	ES	RA2W

WCS ID	ADDRESS	LOC	CPS TYPE
87	LAS POSITAS BLVD & FIRST ST	EN	RA2W
88	4707 FIRST ST		3W
89	SOUTH FRONT LN & FIRST ST	EN	L2W
90	4849 SOUTH FRONT RD	ACROSS	R2W
91	4849 SOUTH FRONT RD		3W
92	SOUTH FRONT LN & FIRST ST	EN	R2W
93	4700 FIRST ST		RA2W
94	FIRST ST & SOUTHFRONT	SW	3W
95	FIRST ST & LAS POSITAS RD	NW	LW2
96	LAS POSITAS RD & FIRST ST	WN	3W
97	LAS POSITAS RD & FIRST ST	WN2	3W
98	4514 LAS POSITAS RD		R2W
99	4300 LAS POSITAS RD		3W
100	4300 LAS POSITAS RD	ACROSS	LA2W
101	4290 LAS POSITAS RD		RA1W
102	4290 LAS POSITAS RD	ACROSS	L2W
103	4440 LAS POSITAS RD	ACROSS	1W
104	4526 LAS POSITAS RD	ACROSS	LA1W

WCS ID	ADDRESS	LOC	CPS TYPE
105	LAS POSITAS RD & FIRST ST	WS	L2W
106	FIRST ST & LAS POSITAS RD	SW	LA2W
107	FIRST ST & BELLMAWR DR	SW	R2W
108	BELLMAWR DR & FIRST ST	WS	L2W
109	BELLMAWR DR & FIRST ST	WN	RA2W
110	4250 FIRST ST		R2W
111	N MINES RD & TECHNOLOGY DR	WS	R2W
112	N MINES RD & TECHNOLOGY DR	ES	RA1W
113	N MINES RD & TECHNOLOGY DR	EN	LA2W
114	TECHNOLOGY DR & N MINES RD	NE	R2W
115	TECHNOLOGY DR & N MINES RD	NW	LA1W
116	4350 TECHNOLOGY DR		RA2W
117	N MINES RD & TECHNOLOGY DR	WN	L2W
118	N MINES RD & TECHNOLOGY DR	WN2	LA1W
119	FIRST ST & N MINES RD	NE	1W
120	4273 FIRST ST		3W
121	FIRST ST & BELLMAWR DR	NE	3W
122	AIRWAY BLVD & CLUBHOUSE DR	NE	RA1W
123	550 AIRWAY BLVD		LA2W

WCS ID	ADDRESS	LOC	CPS TYPE
124	464 AIRWAY BLVD		RA2W
125	448 AIRWAY BLVD		LA1W
126	465 AIRWAY BLVD		R2W
127	550 AIRWAY BLVD	ACROSS	RA2W
128	349 EARHART WAY		RA1W
129	335 LINDBERGH AVE		RA1W
130	405 LINDBERGH AVE		RA2W
131	LINDBERGH AVE & NISSEN DR	EN	RA2W
132	472 LINDBERGH AVE	SW	L2W
133	LINDBERGH AVE & ARMSTRONG ST	EN	R2W
134	LINDBERGH AVE & ARMSTRONG ST	SW	1W
135	274 LINDBERGH AVE	ACROSS	R2W
136	201 LINDBERGH AVE		RA2W
137	170 LINDBERGH AVE		3W
138	135 LINDBERGH AVE		1W CORNER
139	122 LINDBERGH AVE	ACROSS	1W
140	ARMSTRONG ST & EARHART WAY	SE	1W
141	901 N CANYON PKWY		RA1W

WCS ID	ADDRESS	LOC	CPS TYPE
142	N CANYON PKWY & DOOLAN RD	EN	RA1W
143	1815 DOOLAN RD		3W
144	DOOLAN RD & COLLIER CYN	E	1W
145	DOOLAN RD & COLLIER CYN	NE	1W
146	DOOLAN RD & N CANYONS PKWY	SE	RA1W
147	952 N CANYONS PKWY		LA1W
148	N CANYONS PKWY & REPUBLIC DR	ES	1W
149	CONSTITUTION DR & N CANYONS PKWY	NW2	3W
150	477 INDEPENDENCE DR		RA1W
151	COLLIER CYN RD & GATEWAY AVE	NW	3W
152	COLLIER CYN RD & GATEWAY AVE	NE	3W
153	2694 GATEWAY AVE		LA1W
154	2694 GATEWAY AVE	ACROSS	3W
155	GATEWAY AVE & SHEA CENTER DR	WS	R2W
156	2580 SHEA CENTER DR		R2W
157	CONSTITUTION DR & SHEA CENTER DR	WS	RA2W

WCS ID	ADDRESS	LOC	CPS TYPE
158	CONSTITUTION DR & SHEA CENTER DR	WN	RA2W
159	CONSTITUTION DR & SHEA CENTER DR	WS2	3W
160	CONSTITUTION DR & SHEA CENTER DR	WN2	3W
161	CONSTITUTION DR & SHEA CENTER DR	WS3	3W
162	COLLIER CYN RD & CONSTITUTION DR	NE	3W
163	COLLIER CANYON RD & CONSTITUTION DR	NW	R2W
164	COLLIER CANYON RD & CONSTITUTION DR	WN	R2W
165	COLLIER CANYON RD & CONSTITUTION DR	WS	3W
166	2649 COLLIER CYN RD		3W
167	2648 COLLIER CYN RD		3W
168	4749 BENNETT DR	ACROSS	RA1W
169	4749 BENNETT DR		3W

WCS ID	ADDRESS	LOC	CPS TYPE
170	4749 BENNETT DR	ACROSS	RA2W
171	4749 BENNETT DR		3W
172	4740 BENNETT DR		L2W
173	4741 BENNETT DR		R2W
174	4730 BENNETT DR		LA1W
175	4731 BENNETT DR		3W
176	4671 LAS POSITAS RD	ACROSS	1W
177	LAS POSITAS RD & BENNETT DR	WS	RA1W
178	4659 C LAS POSITAS RD	ACROSS	3W
179	4647 C LAS POSITAS RD		L2W
180	4647 A LAS POSITAS RD	ACROSS	1W
181	4647 A LAS POSITAS RD	BLD A	L2W

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)
Arroyo Mocho-Stanley Bridge-Pedestrian Bridge AM-SB-PB #1	09/21/2011	2.5 Cubic Yards	Fast food containers, wrappers/snack food wrappers	Trail Pedestrians/Nearby commercial businesses
Arroyo Las Positas @ Livermore Avenue Bridge ALP@Livermore Bridge #2	09/22/2011	0.25 Cubic Yards	Fast food containers, wrappers/snack food wrappers	Transients/Nearby commercial businesses/Highway 580
Arroyo Mocho-Homes-Mocho Park AM-H-MP #3	09/21/2011	0.25 Cubic Yards	Fast food containers, wrappers/snack food wrappers	Trail Pedestrians/Nearby commercial businesses
Arroyo Las Positas-Northfront Trailhead Park	09/22/2011	1.5 Cubic Yards	Fast food containers, wrappers/snack food wrappers	Trail Pedestrians/Nearby commercial businesses

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.

New or Enhanced Trash Load Reduction Action	Description of New or Enhanced Action Implemented in FY 11-12	Estimated Trash Load Removed in FY 11-12 (Gallons)[28]	Estimated Percent Reduction as of FY 11-12[58]	Estimated Dominant Types of Trash Removed in FY 11-12
Existing Enhanced Street Sweeping				
Single-Use Carryout Bag Policies	In January 2012, the Alameda County Waste Management Authority adopted an ordinance to reduce the use of single-use carryout bags and promote the use of reusable bags. As of January 1, 2013, grocery stores and other stores in Alameda County that sell packaged food can no longer provide single-use plastic carryout bags, nor can they distribute paper bags or reusable bags for free at checkout. Single-use carryout bags are bags provided at check-out for transporting food or merchandise out of the store. Affected stores are those in Alameda County selling packaged food. Consumers have the option to bring their own bags or pay for bags made from recycled paper or reusable bags.	1,582	6%	Litter Prevention

[28]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.

New or Enhanced Trash Load Reduction Action	Description of New or Enhanced Action Implemented in FY 11-12	Estimated Trash Load Removed in FY 11-12 (Gallons)[28]	Estimated Percent Reduction as of FY 11-12[58]	Estimated Dominant Types of Trash Removed in FY 11-12
Polystyrene Foam Food Service Ware Policies	To promote environmental and economic health in the city of Livermore, it is essential that the city take steps to reduce litter and harmful materials from the environment. An immediate and meaningful way to do this is to prohibit the use of expanded polystyrene disposable foodservice ware by food vendors, and to require food vendors to use disposable foodservice ware that is either recyclable or compostable. (Ord. 1919 § 1 (Exh. A), 2010) Source Control Inspection Staff performed inspections of all Food Service Facilities during this reporting period. During Fiscal Year 2011-12, 45 of the 216+ Food Service Establishments inspected (approximately 20.8%) had Styrofoam. Therefore, during the first year of implementation, the City has confirmed an almost 80% compliance rate with the Styrofoam ordinance.	2,109	8%	Litter Prevention
Public Education and Outreach Programs Public Education and	During this reporting period the City of Livermore began development of an "Adopt a Creek Program". This program engages the community and involves them in taking an active, on-going role in maintaining creeks and litter removal. The following provides an overview of the Adopt a Creek Spot Program: This program is one of the activities envisioned by the Alameda Creek Watershed Council of which the City is a part of. This benefits the City of Livermore more particularly by helping the City of Livermore meet Sections C.10 and C.7.g. of its Municipal Regional Stormwater Permit from the Regional Water Quality Control Board. The City of Livermore Water Resources Division is leading the partnership with Zone 7 Water Agency, Livermore Area Recreation and Park District (LARPD), Alameda County Resource Conservation District (ACRCD) and Friends of the	2,109	8%	Litter Prevention

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.

New or Enhanced Trash Load Reduction Action	Description of New or Enhanced Action Implemented in FY 11-12	Estimated Trash Load Removed in FY 11-12 (Gallons)[28]	Estimated Percent Reduction as of FY 11-12[58]	Estimated Dominant Types of Trash Removed in FY 11-12
Outreach Programs (continued)	Arroyos (FOTA) to develop and implement an Adopt a Creek Spot Program. This Program would provide individuals, groups and organizations an unique opportunity to take an active role in cleaning, greening and maintaining neighborhood creeks, while helping the City "reduce trash loads from the municipal storm sewer system by 40% by 2014" and "support citizen involvement events" that improve "water quality and aquatic habitat". Adopt a Creek Spot participants may make a commitment to regularly clean and beautify a creek spot on City, Zone 7, LARPD and LVJUSD properties along the Arroyo Mocho, Arroyo Las Positas and Arroyo Seco. Beautifying a spot might include: regularly picking up trash and other debris, removing weeds and other unwanted vegetation, painting over graffiti, marking storm drains, photography and/or sketch mapping spots for changes, and planting site-appropriate plants. Partnering agencies will provide the following: • Supplies: clean-up kits, graffiti removal kits, storm drain marking kits, and gardening tools for enhancement/restoration projects • Services: guidance with clean-up planning, trash and recyclables disposal, technical assistance for enhancement/restoration projects, and educational presentations and activities Incentives to joining the Adopt a Creek Spot Program will include signs at adopted creek/arroyo spots, website recognition and personal satisfaction. Partnering agencies will kick-off the Adopt a Creek Spot Program			

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.

New or Enhanced Trash Load Reduction Action	Description of New or Enhanced Action Implemented in FY 11-12	Estimated Trash Load Removed in FY 11-12 (Gallons)[28]	Estimated Percent Reduction as of FY 11-12[58]	Estimated Dominant Types of Trash Removed in FY 11-12
Public Education and Outreach Programs (continued)	at an annual, creek spot clean-up event on City, Zone 7 and LARPD properties in September 2012. The purpose of this annual event is to maintain interest in the Program, and provide residents who are not in the Program an opportunity to beautify a section of creek. Additional information about the program is available at http://www.trivalleycreeks.org/events/creeks-to-bay-cleanup or see document attached to this report.			
Activities to Reduce Trash from Uncovered Loads				

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.

New or Enhanced Trash Load Reduction Action	Description of New or Enhanced Action Implemented in FY 11-12	Estimated Trash Load Removed in FY 11-12 (Gallons)[28]	Estimated Percent Reduction as of FY 11-12[58]	Estimated Dominant Types of Trash Removed in FY 11-12
Anti-littering and Illegal Dumping Enforcement Activities	Trash Removal from Receptacles – Franchise agreement between waste hauler and City requires drivers to clean up any litter resulting from the emptying of containers. Free on-call trash pick-ups – Single family residents are entitled to three free on-call clean-ups per year. Service helps to prevent illegal dumping. The City of Livermore Police Department hosts a "Litter-Bug Hotline" where individuals can report incidents of littering and illegal dumping. During this reporting period, the litterbug hotline generated three letters on 7/21/11, 7/29/11 and 8/16/11 in response to reports of littering. There were also two additional calls, one which the registered owner lived in Southern California and one other in which, the vehicle license plate provided was incorrect as no vehicle with license exists.	1,054	4%	Unknown
Improved Trash Bins/Container Management				
Single-use Food and Beverage Ware Ordinance				

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.

New or Enhanced Trash Load Reduction Action	Description of New or Enhanced Action Implemented in FY 11-12	Estimated Trash Load Removed in FY 11-12 (Gallons)[28]	Estimated Percent Reduction as of FY 11-12[58]	Estimated Dominant Types of Trash Removed in FY 11-12
On-land Trash Cleanups				
Additional Enhanced Street Sweeping (Beyond Existing Enhanced)				
Partial-Capture Treatment Devices				
Enhanced Storm Drain Inlet Maintenance				
Full-Capture Treatment Devices	Installed 181Connector Pipe Screen Devices in 181 storm drain inlets. See table C.10.a.iii	4,810	18.2%	Devices installed in June/July 2012. Scheduled to be serviced prior to Rainy Season.
Creek/Channel/Shoreline Cleanups	Annual Creek Clean-up performed in September 2011 at Arroyo Mocho-Stanley, Arroyo Las Positas-Livermore Avenue Bridge, Arroyo Mocho-Holmes, Mocho Park, and Arroyo Las Positas-North Trailhead Park.	1,205	4.6%	Fast food containers, wrappers/snack food wrappers
Preliminary Estimate of Trash Load Removed (Gallons) in FY 2011-12		**12,868**		

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.

New or Enhanced Trash Load Reduction Action	Description of New or Enhanced Action Implemented in FY 11-12	Estimated Trash Load Removed in FY 11-12 (Gallons)[28]	Estimated Percent Reduction as of FY 11-12[58]	Estimated Dominant Types of Trash Removed in FY 11-12
Preliminary Baseline Trash Load Estimate (Gallons)		**26,359**		
Total Percentage Reduction in FY 2011-12 (Compared to Baseline Trash Load)		**48.8%**		

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).

Refer to FY 11-12 Program Annual Report for a list of mercury collection and recycling efforts conducted countywide and regionally. Additionally, the City of Livermore continues to operate its mercury thermometer exchange program.

C.11.a.ii ►Mercury Collection

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

Please refer to the FY 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.

Additionally, the City of Livermore collected the estimated mass of mercury by recycling bulbs/tubes used in municipally owned facilities as detailed in the table below.

Mercury Containing Device/Equipment	Total Amount of Devices Collected	Estimated Mass of Mercury Collected
Fluorescent Lamps[29] (linear feet)	1,724	.0035773
CFLs[30] (each)	34	.000153
Thermostats[31] (each)		
Thermostats (lbs)		
Thermometers (each)		
Switches (lbs)		
Total Mass of Mercury Collected During FY 2011-2012:		.0037303

[29] Only linear fluorescent lamps should be included

[30] Only compact fluorescent lamps should be included

[31] Thermostats can be reported by quantity or by pounds. Whichever unit is used, please avoid double-counting.

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

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

Summary

A summary of countywide Program and regional accomplishments for these sub-provisions are included within the C.11 Mercury Controls section of Program's FY 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 Program Annual Report for a description of training provided countywide and/or regionally.

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

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

Summary

A summary of countywide Program and regional accomplishments for these sub-provisions are included within the C.12 PCB Controls section of Program's FY 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 Livermore distributes the applicable BMP brochures developed by BAPPG to contractors as necessary. These BMPs cover proper coper pipe installation, treating of architectural features, etc.

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?	x	**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 countywide Program's participation with the Brake Pad Partnership (BPP) is included within the C.13 Copper Controls section of Program'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 activites 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

The City of Livermore owns and operates a POTW, and maintains an active Pretreatment Program. Under this program, the City regulates industrial dischargers with potential sources of copper under its Pretreatment Permitting Program. Under this program, the City requires any facility that washes vehicles and or equipment to have a designated wash pad area that is plumbed to the sanitary sewer via an oil water separator. This requirement has been in place and enforced since the late 1980s. All of these industrial and commercial users are inspected on an annual basis for compliance with stormwater requirements. The following is a list of these industrial/commercial sites:

Pretreatment Program Permitted Industrial Users with significant volume Cooling Towers:

Permit	Facility	Address
1251	Sandia National Laboratories/CA	7011 East Avenue
1350	Form Factor-501 Lawrence	501 Lawrence Drive
1348	Form Factor-7545 Longard	7545 Longard Road
1272	InPhenix, Inc.	250 North Mines Road
1250	Lawrence Livermore National Laboratory	7000 East Avenue

Pretreatment Program Permitted Industrial Users: Printers

Permit	Facility	Address
1281	Schiffenhaus	7041 Las Positas Avenue,Suite A
1261	Packaging Innovators	6650 National Drive
1374	Golden Bear Packaging	6645 Los Positas Road
1258	Heritage Paper	6850 Brisa Street

Pretreatment Program Permitted Industrial Users: Vehicle/Equipment Wash Racks

Permit	Facility	Address
1331	B & S Hacienda	6219 Southfront Road
1288	Bernard's Mini Mart	1501 Airway Boulevard
1364	Boatmasters	5162 Preston Avenue
1284	Budget Car and Truck Rental	3841 First Street
1303	Cactus Car Wash	2153 Portola Avenue
1296	Cal Trans	6153 Southfront Road
1290	California Landscape Dimensions	5781 Preston Avenue
1338	Clark Pest Control	2313 Research Drive
1278	Cresco Equipment	800 E. Airway Boulevard
1362	Dun-Rite Excavating	5382 Brisa Street
1334	Enterprise Rent-A-Car	3569 First Street
1322	First Street-Henderlong	3560 First Street
1264	Groth Brothers	59 South L Street
1309	Harris Salinas Reinforcing	355 South Vasco Road
1342	Hawthorne LLC	7770 Hawthorne Road
1325	Hertz Equipment Rental	5237 Southfront Road
1311	JCs RVs	958 E. Airway Boulevard
1256	L Street Car Wash	220 North L Street
1313	Las Positas Shell	4530 Las Positas Road
1356	Lassiter Excavating	7000 National Drive
1294	LAVTA	1362 Rutan Court
1368	Las Positas Golf Course	909 Clubhouse Drive
1343	Les Schwab Tire Center #647	2650 Las Positas Road
1341	Livermore Audi	3400 Las Positas Road
1355	Livermore Auto Group-2232 Kitty Hawk	2232 Kitty Hawk Road
1292	Livermore Auto Group-2266 Kitty Hawk	2266 Kitty Hawk Road

	1328	Livermore Auto Group-2304 Kitty Hawk	2304 Kitty Hawk Road	
	1259	Livermore Car Wash	2855 Old First Street	
	1317	Livermore Chevron	2186 Las Positas Road	
	1276	Livermore Dublin Disposal	6175 Southfront Road	
	1340	Livermore Honda	3200 Las Positas Road	
	1349	Livermore Jaguar	3500 Las Positas Road	
	1369	Livermore Maintenance Service Center	3500 Robertson Park Road	
	1366	Livermore Municipal Airport	636 Terminal Circle	
	1365	Livermore Police Department	1110 S. Livermore Avenue	
	1361	Livermore Porsche	3100 Las Positas Road	
	1353	Livermore Subaru	3600 Las Positas Road	
	1370	LPFD Fire Station #6	4550 East Avenue	
	Permit	Facility	Address	
	1371	LPFD Fire Station #7	951 Rincon Avenue	
	1372	LPFD Fire Station #8	5750 Scenic Avenue	
	1373	LPFD Fire Station #10	330 Airway Boulevard	
	1254	Mathew's Machinery	5340 Brisa Street	
	1293	MidCoast Transportation	5715 Preston Avenue	
	1323	Mountain Cascade	555 Exchange Court	
	1333	AuctionisNow.com	5187 Southfront Road	
	1301	Penske Truck Leasing	6215 Las Positas Road	
	1346	Power Washing Services	35 Rickenbacker Circle	
	1344	Quentin Bammer/Moeller Brothers	539 Lewelling Boulevard	
	1262	R. Lance & Sons	6776 Patterson Pass Road	
	1289	SAB Stanley Shell	809 East Stanley Boulevard	
	1263	SpeeDee Wash	2645 Old First Street	
	1329	Sunbelt Rentals	4977 Southfront Road	

1335	Top Grade Construction	50 Contractors Street
1300	U.S. Foodservice	300 Lawrence Drive
1326	Western Traction II	5717 Brisa Street
1307	*Vacant*	*3737 First Street*
1359	Vasco 76	816 N. Vasco Road
1282	Vasco Road Chevron	1025 N. Vasco Road
1304	Wal-Mart Tire & Lube Express	2700 Las Positas Road
1357	WB Equipment	5162 Preston Avenue
1308	White Oak Landscaping	5552 La Ribera Street
1285	Yamaha Golf Cars of CA	5605 Southfront Road
1351	Zone 7 Water Agency	100 North Canyons Parkway
1376	Interstate Storage	1800 Sutter Street

The City's current mechanism of reporting facilities that are in noncompliance already exists and satisfies this requirement. The City, has therefore, not taken any additional steps to comply with the reporting requirements under C.13.d.iii to "highlight copper reduction results in the industrial inspection component in the C.13 portion of each Annual Report beginning September 2010". Businesses are either in compliance with stormwater requirements and are implementing the required best management practices or they are not in compliance.

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

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

Summary

A summary of the countywide Program and/or regional efforts to develop regional studies to reduce copper pollutant impact uncertainties is included within the C.13 Copper Controls section of Program's FY 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 the countywide Program and regional efforts related to the Control Program for PBDEs, Legacy Pesticides and Selenium is included within the C.14 PBDE, Legacy Pesticides and Selenium section of Program's FY 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:
The City of Livermore has two water purveyors, which are the City of Livermore and The California Water Company, in its service area. This report only includes information pertaining to potable water discharges from the City of Livermore's system.

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

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

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

Summary:
The City has part of its requirements for New Development include the following requirements of new development:
All new development projects are required to address the following, and implement when feasible, the following:

Landscaping shall be designed to both minimize irrigation and the runoff of irrigation waters. It shall also be designed to promote surface infiltration where appropriate. Landscaping plans should also consider measures and/or planting selections, which serve to minimize the use of fertilizers and pesticides that can contribute to stormwater pollution.

If a landscaping plan is required as part of a development project application, the plan shall meet the following conditions related to reduction of pesticide use on the project site:

a. Where feasible, landscaping shall be designed and operated to treat stormwater runoff by incorporating elements that collect, detain, and infiltrate runoff. In areas that provide detention of water, plants that are tolerant of saturated soil conditions and prolonged exposure to water shall be specified.

b. Plant materials selected shall be appropriate to site specific characteristics such as soil type, topography, climate, amount and timing of sunlight, prevailing winds, rainfall, air movement, patterns of land use, ecological consistency and plant interactions to ensure successful establishment.

c. Existing native trees, shrubs, and ground cover shall be retained and incorporated into the landscape plan to the maximum extent practicable.

d. Unless otherwise specified, proper maintenance of landscaping shall be the responsibility of the property owner.

e. Integrated pest management (IPM) principles and techniques shall be encouraged as part of the landscaping design. Some examples of IPM principles and techniques include the following:
   i. Select plants that are well adapted to soil conditions at the site.
   ii. Select plants that are well adapted to sun and shade conditions at the site. Consider future conditions when plants reach maturity. Consider seasonal changes and time of day.
   iii. Provide irrigation appropriate to the water requirements of the selected plants.
   iv. Select pest and disease resistant plants.
   v. Plant a diversity of species to prevent a potential pest infestation from affecting the entire landscaping plan.
   vi. Use "insectary" plants in the landscaping to attract and keep beneficial insects.

Landscaping shall also comply with City of Livermore's "Water Efficient Landscape Ordinance". However, areas of a site used for bioswales or other landscaped areas that function as a stormwater treatment measure shall be exempt from the Water Efficient Landscaping requirements.

The City as part of its Public Outreach events provides and promotes the following information to the public:

a. Promotional items and informational materials described IPM and its controls mechanisms, the benefits of using IPM products, and the OWOW Program. The product included labels that identified the control mechanism, active ingredient(s), and the OWOW local store of purchase
b. Stormwater Pollution Brochure, Bay Begins Brochure, Home Maintenance Tips for a Cleaner Bay Brochure, Grow It! Guides, Control It! Guides, Healthy Home and Garden Booklet, Pest Bugging You? Pocket Guides, The 10 Most Wanted Bugs in Your Garden Brochure, A Kid's Guide to Backyard Bug Guides, and Pest or Pal? Activity Guides.

The information detailed below summarizes The City of Livermore's Water Conservation efforts:

Conservation Program	Description	Implemented	Terminated
ULF/HET Rebates	Current program offers a rebate of up to $150 for replacement of 3.5 gpf toilet with a HET. This program replaced ULF program.	1994(updated 2008)	On-going
HEW Rebates	Rebate program in conjunction with Z7 & PG&E. Rebate amounts have ranged from $50-$100 for water portion of rebate. Rebate is dependent on many factors, including model and water efficiency level.	1999	On-going
Conservation Pricing	The City currently has in place an inverted tiered rate structure to encourage water conservation.	1991	On-going
School Education-COL	Educational programs are offered to the schools in the Livermore Municipal Water service area. This includes support of the Z7 School program and classroom presentations provided by City of Livermore Water Resources Division (WRD) staff.	2005-06	On-going
Conservation Coordinator	The City has designated one or more staff to meet the function of Conservation Coordinator since 1988. Currently three staff members play key roles in the City's conservation efforts.	1988	On-going
Water Waste Prohibition/Water Shortage Contingency Plan	The plan includes water conservation stages of action in response to shortages up to 50%, estimates of minimum 3-year available water supply, preparations for water during catastrophic supply interruptions, mandatory prohibitions and consumption reduction methods, penalties and charges for excessive use, analysis of potential revenue impacts from Plan implementation, and mechanisms for determining water use reductions. A comprehensive revision of the Plan was included as part of the 2010 UWMP.	1992	On-going
Water Use Reduction Plan	Part of the 1990 UWMP. Enacted water conservation measures to address the 20 percent reduction in per capita water use required by the Water Conservation Bill of 2009. Also establishes voluntary and mandatory water conservation practices to address water supply shortages and required demand reductions.	1990	On-going
Public Outreach	Methods include, but are not limited to, Earth Day, Livermore Wine Country Festival, Plant tours, Farmer's Market, Safety Fair, advertising, bill inserts, brochures, notices and dedicated web pages on City website.	1989	On-going

Conservation Program	Description	Implemented	Terminated
WELO	Establishes standards and specifications for all landscaping and landscape irrigation to encourage conservation and limit water use. Updated in 2012.	1992	On-going
Water leak audits	Water resources staff monitors monthly water purchases and monthly water sales in order to quickly detect any system irregularities or excessive water loss. The Water Resources Division contracts with outside vendors for emergency repairs, including leaks, with a 24 hour response time. Smaller leaks are assessed on a case by case basis and repaired by Water Resource Division staff.	1990's	On-going
Large Landscape Irrigation Survey	The highest 20% of non-residential water users are indentified and offered a free irrigation survey on their existing landscape. A list of recommended improvements is provided to the customer along with an offer of up to $5,000 in matching funds as an incentive to implement the recommendations.	2009	On-going
Calif. Youth Energy Svcs.(CYES)	Residents are offered a free CYES house call providing renters and homeowners with a free energy and water conservation assessment, education and mini-retrofit. WRD provides kitchen and bathroom aerators and low flow shower heads for Livermore Municipal Water customers.	2009	On-going
Water Efficient Lawn Rebates	Offering up to $500 in rebates to replace lawn with water-wise alternatives.	2012	On-going
Schools Program-Indoor Outdoor	Provides 100% funding for large landscape surveys, irrigation hardware replacement, indoor water use surveys, and plumbing fixture replacement for schools in the Tri-Valley water retailers' service area.	2010	On-going
Eco Blue Cube	This program is offered to qualifying CII customers to implement this water conservation strategy by converting their water-using urinals to waterless using the Ecoblue Cube microbial technology.	2009	On-going
Direct Install Toilet	This program is offered to residential, commercial and industrial customers. The program includes the direct installation and replacement of older high volume toilets with a HET and/or HEU.	2012	On-going

Conservation Program	Description	Implemented	Terminated
Civic Bay Friendly Landscape Ordinance	This ordinance requires civic projects to incorporate guidelines to achieve the benefits of a Bay-Friendly landscaping including the promotion of water and resource efficiency.	2009	On-going
Recycled water for irrigation	The City has been producing and distributing recycled water and since 1963 and has a relatively well-developed recycled water program that currently distributes an average of about 2 million gallons of recycled water per day.	1963	On-going
Tri-Valley Water Conservation Group	City staff actively participates in this group that provides planning and direction for a variety of regional public outreach efforts.	1980's	On-going
Water Supplier Nursery Council	This committee was created by Stopwaste.org with the goal to encourage residential water conservation by expanding point-of-purchase awareness of comprehensive Bay-Friendly practices and related products and to expand recycled content supply channels for compost and mulch.	2010	On-going
Monthly billings	Monthly bills provide another method for the City to reach out to its water customers with information about their water use and to promote water conservation. The monthly bills include a graph comparing current to previous year consumption and water conservation related notices.	1991	On-going
Water-Wise Gardening Website	Website to promote and encourage water-wise landscaping practices.	2005-06	On-going
Weather Based Irrigation	Rebates of $75 for single-family homes, $100 for multi-family and $3,000 for CII properties to replace standard clock-type controllers with qualifying, self adjusting weather based "smart" controllers.	2011	On-going
Centralized Computer Irrigation System	WRD encourages water-efficient landscape irrigation by utilizing a centralized computer irrigation system.	1998	On-going
Residential Water Audits	WRD staff is currently working to create a self-water audit residential program.	In progress	

C.15.b.iii.(1) ►Planned Discharges of the Potable Water System – City of Livermore Flushing Summary Report

Site/ Location	Discharge Type	Receiving Waterbody(ies)	Date of Discharge	Duration of Discharge (in minutes)	Estimated Volume (gallons)	Estimated Flow Rate (gallons/minute)	Chlorine Residual (mg/L)	pH (standard units)	Discharge Turbidity[32] (NTU)	Implemented BMPs & Corrective Actions
3G2	Flushing	Altamont Creek	11/7/2011	237	193,278	815 GPM	0.01	7.23	N/A	Dechlorination/Inlet protection
2G4/3G2	Flushing	Altamont Creek	11/3/2011	315	248,997	790 GPM	0.01	6.84	N/A	Dechlorination/Inlet protection
3G3/3H3	Flushing	Altamont Creek	9/13/2011	4	3,706	926 GPM	0.01	7.12	N/A	Dechlorination/Inlet protection
2G2/2G4	Flushing	Altamont Creek	11/2/2011	269	227,283	845 GPM	0.00	6.57	N/A	Dechlorination/Inlet protection
3G/3F	Flushing	Altamont Creek	11/29/2011	345	311,645	903 GPM	0.00	6.8	N/A	Dechlorination/Inlet protection
2H/3H	Flushing	Altamont Creek	12/1/2011	270	259,425	961 GPM	0.00	6.85	N/A	Dechlorination/Inlet protection
3F	Flushing	Altamont Creek	11/30/2011	245	196,850	803 GPM	0.00	7.15	N/A	Dechlorination/Inlet protection
2H/3H	Flushing	Altamont Creek	12/5/2011	265	271,730	1,025 GPM	0.00	6.85	N/A	Dechlorination/Inlet protection
3G/3H	Flushing	Altamont Creek	12/6/2011	310	279,390	901 GPM	0.00	6.96	N/A	Dechlorination/Inlet protection
4G	Flushing	Arroyo Seco	12/19/2011	425	424,330	998 GPM	0.00	7.31	N/A	Dechlorination/Inlet protection
4H/4I	Flushing	Arroyo Seco	12/14/2011	195	207,715	1,065 GPM	0.00	7.34	N/A	Dechlorination/Inlet protection
3H	Flushing	Arroyo Seco	12/14/2011	115	124,045	1,078 GPM	0.00	7.2	N/A	Dechlorination/Inlet protection

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

C.15.b.iii.(1) ►Planned Discharges of the Potable Water System – City of Livermore Flushing Summary Report

Site/ Location	Discharge Type	Receiving Waterbody(ies)	Date of Discharge	Duration of Discharge (in minutes)	Estimated Volume (gallons)	Estimated Flow Rate (gallons/minute)	Chlorine Residual (mg/L)	pH (standard units)	Discharge Turbidity[32] (NTU)	Implemented BMPs & Corrective Actions
3H/4H	Flushing	Altamont Creek/Arroyo Seco	12/15/2011	190	217,625	1,145 GPM	0.00	6.96	N/A	Dechlorination/Inlet protection
5H/5I	Flushing	Arroyo Seco	12/8/2011	110	128,190	1,165 GPM	0.00	6.09	N/A	Dechlorination/Inlet protection
5H	Flushing	Arroyo Seco	1/3/2012	105	90,440	861 GPM	0.00	7.25	N/A	Dechlorination/Inlet protection
5G	Flushing	Arroyo Seco	2/21/2012	115	49,300	428 GPM	0.00	7.15	N/A	Dechlorination/Inlet protection
5G/7H	Flushing	Arroyo Seco	2/22/2012	200	87,020	435 GPM	0.00	7.2	N/A	Dechlorination/Inlet protection
6H	Flushing	Arroyo Seco	2/27/2012	190	72,950	190 GPM	0.00	7.2	N/A	Dechlorination/Inlet protection
6G	Flushing	Arroyo Seco	2/23/2012	85	28,900	340 GPM	0.00	7.1	N/A	Dechlorination/Inlet protection
5G	Flushing	Arroyo Seco	1/4/2012	363	389,455	363 GPM	0.00	7.2	N/A	Dechlorination/Inlet protection
5 G	Flushing	Arroyo Seco	2/14/2012	45	48,375	1,075 GPM	0.00	7.2	N/A	Dechlorination/Inlet protection
6G	Flushing	Arroyo Seco	2/15/2012	117	62,625	535 GPM	0.01	7.1	N/A	Dechlorination/Inlet protection

c.15.b.iii(1): City of Livermore Detailed Potable Flushing Report/ Total Annual Flusing =3,637,084 Gallons

Hydrant Number	Area	Date	Name Int	Blow Off	Min	Gal/MIN	Total Gal
2G1WFH-101	4	02-Nov-11	MD/KL	N/A	10	760	7,600
2G2WFH-102	4	02-Nov-11	MD/KL	N/A	10	961	9,610
2G2WFH-203	4	02-Nov-11	MD/KL	N/A	10	961	9,610
2G2WFH-303	4	02-Nov-11	MD/KL	N/A	10	961	9,610
2G1WFH-401	4	02-Nov-11	MD/KL	N/A	10	1020	10,200
2G2WFH-403	4	02-Nov-11	MD/KL	N/A	15	961	14,415
2G2WFH-502	4	02-Nov-11	MD/KL	N/A	15	961	14,415
2G3WFH-101	4	02-Nov-11	MD/KL	N/A	15	961	14,415
2G3WFH-301	4	02-Nov-11	MD/KL	N/A	6	961	5,766
3G1WFH-104	4	02-Nov-11	MD/KL	N/A	5	1020	5,100
3G1WFH-214	4	02-Nov-11	MD/KL	N/A	5	961	4,805
2G4WFH-506	4	02-Nov-11	MD/KL	N/A	8	1020	8,160
3G2WFH-101	4	02-Nov-11	MD/KL	N/A	10	961	9,610
2G2WFH-505	4	02-Nov-11	MS/KR	N/A	5	975	4,875
2G2WBO (BRIDLE CT)	4	02-Nov-11	MS/KR	YES	15	340	5,100

Hydrant Number	Area	Date	Name Int	Blow Off	Min	Gal/MIN	Total Gal
2G2WBO-100	4	02-Nov-11	MS/KR	YES	10	340	3,400
2G2WBO-101	4	02-Nov-11	MS/KR	YES	10	340	3,400
2G2WBO-202	4	02-Nov-11	MS/KR	YES	10	340	3,400
2G2WFH-308	4	02-Nov-11	MS/KR	N/A	5	1050	5,250
2G2WBO-307	4	02-Nov-11	MS/KR	YES	5	340	1,700
2G2WBO-306	4	02-Nov-11	MS/KR	YES	5	340	1,700
2G2WFH-305	4	02-Nov-11	MS/KR	N/A	7	1050	7,350
2G2WFH-309	4	02-Nov-11	MS/KR	N/A	8	974	7,792
2G4WFH-102	4	02-Nov-11	MS/KR	N/A	5	974	4,870
2G4WFH-204	4	02-Nov-11	MS/KR	N/A	15	974	14,610
2G4WFH-312	4	02-Nov-11	MS/KR	N/A	5	1026	5,130
2G4WFH-307	4	02-Nov-11	MS/KR	N/A	15	1026	15,390
2G4WFH-403	4	02-Nov-11	MS/KR	N/A	10	1026	10,260
2G4WFH-501	4	02-Nov-11	MS/KR	N/A	10	974	9,740
2G2WFH311	4	03-Nov-11	MS/KR	N/A	5	974	4,870
2G2WFH407	4	03-Nov-11	MS/KR	N/A	5	974	4,870
2G2WBO301	4	03-Nov-11	MS/KR	YES	20	340	6,800

Hydrant Number	Area	Date	Name Int	Blow Off	Min	Gal/MIN	Total Gal
2G2WFH505	4	03-Nov-11	MS/KR	N/A	15	1026	15,390
2G4WFH107	4	03-Nov-11	MS/KR	N/A	10	1026	10,260
2G4WFH209	4	03-Nov-11	MS/KR	N/A	10	1000	10,000
2G4WFH201	4	03-Nov-11	MS/KR	N/A	20	1000	20,000
2G4WFH204	4	03-Nov-11	MS/KR	N/A	20	1026	20,520
2G4WFH402	4	03-Nov-11	MS/KR	N/A	5	914	4,570
3G1WFH203	4	03-Nov-11	MS/KR	N/A	10	340	3,400
3G2WFH-***	4	03-Nov-11	MS/KR	N/A	5	1026	5,130
3G2WFH102	4	03-Nov-11	MS/KR	N/A	10	340	3,400
2G4WFH***	4	03-Nov-11	MS/KR	N/A	5	1026	5,130
3G2WFH215	4	03-Nov-11	MS/KR	N/A	30	1026	30,780
3G2WFH315	4	03-Nov-11	MS/KR	N/A	5	1000	5,000
3G2WBO310	4	03-Nov-11	MS/KR	YES	10	340	3,400
3G2WFH402	4	03-Nov-11	MS/KR	N/A	8	1050	8,400
3G2WBO317	4	03-Nov-11	MS/KR	YES	10	340	3,400
2G2WBO303	4	03-Nov-11	MD/KL	YES	10	340	3,400
2G2WFH402	4	03-Nov-11	MD/KL	N/A	12	961	11,532

Hydrant Number	Area	Date	Name Int	Blow Off	Min	Gal/MIN	Total Gal
2G2WFH503	4	03-Nov-11	MD/KL	N/A	7	899	6,293
2G2WFH210	4	03-Nov-11	MD/KL	N/A	10	961	9,610
2G2WFH310	4	03-Nov-11	MD/KL	N/A	8	899	7,192
2G4WFH304	4	03-Nov-11	MD/KL	N/A	10	832	8,320
3G2WBO212	4	03-Nov-11	MD/KL	YES	5	340	1,700
3G2WBO208	4	03-Nov-11	MD/KL	YES	5	340	1,700
3G2WBO207	4	03-Nov-11	MD/KL	YES	5	340	1,700
2G4WFH505	4	03-Nov-11	MD/KL	N/A	20	961	19,220
3G1WBO301	4	03-Nov-11	MD/KL	YES	10	340	3,400
3G2WFH308	4	03-Nov-11	MD/KL	N/A	10	961	9,610
3G2WFH302	4	07-Nov-11	MS/KR	N/A	15	1026	15,390
3G2WFH206	4	07-Nov-11	MS/KR	YES	10	340	3,400
3G2WFH203	4	07-Nov-11	MS/KR	N/A	5	1026	5,130
3G2WFH204	4	07-Nov-11	MS/KR	YES	10	340	3,400
3G2WFH311	4	07-Nov-11	MS/KR	N/A	5	1026	5,130
3G2WFH415	4	07-Nov-11	MS/KR	N/A	10	950	9,500
3G2WFH470	4	07-Nov-11	MS/KR	YES	5	340	1,700

Hydrant Number	Area	Date	Name Int	Blow Off	Min	Gal/MIN	Total Gal
3G2WFH (1148 CENTRAL AVE)	4	07-Nov-11	MS/KR	N/A	5	674	3,370
3G2WFH411	4	07-Nov-11	MS/KR	N/A	10	950	9,500
3G2WBO410	4	07-Nov-11	MS/KR	YES	5	340	1,700
3G2WBO506	4	07-Nov-11	MS/KR	YES	5	340	1,700
3G4WFH305	4	07-Nov-11	MS/KR	N/A	5	914	4,570
3G4WFH307	4	07-Nov-11	MS/KR	N/A	7	914	6,398
3G3WFH403	4	07-Nov-11	MS/KR	N/A	5	914	4,570
3G4WFH407	4	07-Nov-11	MS/KR	N/A	5	914	4,570
3G3WFH506	4	07-Nov-11	MS/KR	N/A	5	914	4,570
3G3WFH504	4	07-Nov-11	MS/KR	N/A	20	852	17,040
4G2WFH105	4	07-Nov-11	MS/KR	N/A	5	1050	5,250
4G2WFH101	4	07-Nov-11	MS/KR	N/A	5	914	4,570
4G2WFH103	4	07-Nov-11	MS/KR	N/A	5	974	4,870
3G2WFH408	4	07-Nov-11	KL/MD	N/A	5	961	4,805
3G2WFH401	4	07-Nov-11	KL/MD	N/A	5	1075	5,375
3G2WFH413	4	07-Nov-11	KL/MD	N/A	5	1075	5,375
3G2WFH101	4	07-Nov-11	KL/MD	N/A	5	961	4,805

Hydrant Number	Area	Date	Name Int	Blow Off	Min	Gal/MIN	Total Gal
3G2WFH102	4	07-Nov-11	KL/MD	N/A	10	961	9,610
3G4WFH205	4	07-Nov-11	KL/MD	N/A	5	832	4,160
3G4WFH104	4	07-Nov-11	KL/MD	N/A	10	899	8,990
3G2WFH504	4	07-Nov-11	KL/MD	N/A	10	961	9,610
3G2WFH302	4	07-Nov-11	KL/MD	N/A	5	899	4,495
3G4WBO (MOLLIE CT)	4	07-Nov-11	KL/MD	YES	15	340	5,100
3G4WFH306	4	07-Nov-11	KL/MD	N/A	5	899	4,495
3G4WFH405	4	07-Nov-11	KL/MD	N/A	5	1127	5,635
3G4WFH502	4	07-Nov-11	KL/MD	N/A	5	899	4,495
3G1WFH302	5	14-Nov-11	KL/MD	N/A	8	899	7,192
3G1WFH201	5	14-Nov-11	KL/MD	N/A	10	961	9,610
3G1WFH206	5	14-Nov-11	KL/MD	N/A	8	899	7,192
2G3WFH501	5	14-Nov-11	KL/MD	N/A	6	899	5,394
3G1WFH205	5	14-Nov-11	KL/MD	N/A	5	1020	5,100
3F2WBO (1932 Parkside ct)	5	14-Nov-11	KL/MD	N/A	8	340	2,720
2F4WFH301	5	14-Nov-11	KL/MD	N/A	5	899	4,495
2F4WBO202	5	14-Nov-11	KL/MD	YES	10	340	3,400

Hydrant Number	Area	Date	Name Int	Blow Off	Min	Gal/MIN	Total Gal
2F4WFH104	5	14-Nov-11	KL/MD	N/A	8	899	7,192
2F4WFH106	5	14-Nov-11	KL/MD	N/A	5	899	4,495
2F4WBO107	5	14-Nov-11	KL/MD	YES	10	340	3,400
4F2WFH203	5	14-Nov-11	KL/MD	N/A	8	832	6,656
4F2WFH103	5	14-Nov-11	KL/MD	N/A	7	832	5,824
3F4WFH508	5	14-Nov-11	KL/MD	N/A	5	832	4,160
3F4WFH409	5	14-Nov-11	KL/MD	N/A	5	832	4,160
3G1WFH107	5	14-Nov-11	MS/KR	N/A	8	1026	8,208
3G1WBO101	5	14-Nov-11	MS/KR	YES	15	340	5,100
3G1WFH102	5	14-Nov-11	MS/KR	N/A	5	1026	5,130
2G3WBO502	5	14-Nov-11	MS/KR	YES	10	340	3,400
2G3WFH505	5	14-Nov-11	MS/KR	N/A	15	1026	15,390
2G3WBO503	5	14-Nov-11	MS/KR	YES	15	340	5,100
3F2WFH108	5	14-Nov-11	MS/KR	N/A	10	1121	11,210
2F4WFH509	5	14-Nov-11	MS/KR	N/A	5	1026	5,130
2F4WFH307	5	14-Nov-11	MS/KR	N/A	10	1026	10,260
2F4WFH101	5	14-Nov-11	MS/KR	N/A	10	1026	10,260

Hydrant Number	Area	Date	Name Int	Blow Off	Min	Gal/MIN	Total Gal
2F4WFH510	5	14-Nov-11	MS/KR	N/A	10	1077	10,770
2F4WFH305	5	14-Nov-11	MS/KR	N/A	5	1026	5,130
2F4WFH302	5	14-Nov-11	MS/KR	N/A	5	1026	5,130
2F4WBO109	5	14-Nov-11	MS/KR	YES	30	340	10,200
4F2WFH302	5	14-Nov-11	MS/KR	N/A	15	974	14,610
4G1WFH205	5	14-Nov-11	MS/KR	N/A	10	1050	10,500
4F2WFH106	5	14-Nov-11	MS/KR	N/A	6	1026	6,156
3G3WFH501	5	14-Nov-11	MS/KR	N/A	20	914	18,280
3G1WBO (5110 QUINCE CT)	5	29-Nov-11	MS/KR	YES	15	340	5,100
3G1WFH405	5	29-Nov-11	MS/KR	N/A	10	914	9,140
3G1WFH403	5	29-Nov-11	MS/KR	N/A	10	1100	11,000
3G1WFH406	5	29-Nov-11	MS/KR	N/A	5	1077	5,385
3G1WFH303	5	29-Nov-11	MS/KR	N/A	5	1140	5,700
3G1WFH409	5	29-Nov-11	MS/KR	N/A	10	1027	10,270
3G3WFH107	5	29-Nov-11	MS/KR	N/A	10	1121	11,210
3G3WFH304	5	29-Nov-11	MS/KR	N/A	10	1050	10,500
3G3WFH205	5	29-Nov-11	MS/KR	N/A	10	1050	10,500

Hydrant Number	Area	Date	Name Int	Blow Off	Min	Gal/MIN	Total Gal
3G3WFH404	5	29-Nov-11	MS/KR	N/A	10	974	9,740
3G3WFH507	5	29-Nov-11	MS/KR	N/A	35	1026	35,910
3F4WFH511	5	29-Nov-11	MS/KR	N/A	10	974	9,740
3F4WFH307	5	29-Nov-11	MS/KR	N/A	10	1026	10,260
3F4WFH309	5	29-Nov-11	MS/KR	N/A	5	1077	5,385
3F4WFH403	5	29-Nov-11	MS/KR	N/A	15	1026	15,390
3F4WFH212	5	29-Nov-11	MS/KR	N/A	10	1026	10,260
3F4WFH119	5	29-Nov-11	MS/KR	N/A	10	1077	10,770
3F4WFH414	5	29-Nov-11	MS/KR	N/A	20	1077	21,540
3G1WFH (1596 HEATHER LN)	5	29-Nov-11	MD/KL	N/A	5	1020	5,100
3G1WFH501	5	29-Nov-11	MD/KL	N/A	10	1020	10,200
3G3WFH110	5	29-Nov-11	MD/KL	N/A	5	1020	5,100
3G1WFH502	5	29-Nov-11	MD/KL	N/A	5	1020	5,100
3G3WBO (5371 AZALEA CT)	5	29-Nov-11	MD/KL	YES	10	340	3,400
3G1WBO506	5	29-Nov-11	MD/KL	YES	10	340	3,400
3G3WFH108	5	29-Nov-11	MD/KL	N/A	5	1020	5,100
3G3WBO (5132 TULIP CT)	5	29-Nov-11	MD/KL	YES	5	340	1,700

Hydrant Number	Area	Date	Name Int	Blow Off	Min	Gal/MIN	Total Gal
3G3WFH309	5	29-Nov-11	MD/KL	N/A	5	1020	5,100
3G3WFH303	5	29-Nov-11	MD/KL	N/A	5	1020	5,100
3F4WFH411	5	29-Nov-11	MD/KL	N/A	5	899	4,495
3F4WFH204	5	29-Nov-11	MD/KL	N/A	10	899	8,990
3F4WFH415	5	29-Nov-11	MD/KL	N/A	5	899	4,495
3F4WFH308	5	29-Nov-11	MD/KL	N/A	10	899	8,990
3F4WFH206	5	29-Nov-11	MD/KL	N/A	5	899	4,495
3F4WFH106	5	29-Nov-11	MD/KL	N/A	5	899	4,495
3F4WFH105	5	29-Nov-11	MD/KL	N/A	10	899	8,990
3F4WFH504	5	29-Nov-11	MD/KL	N/A	5	899	4,495
3F2WBO513	5	29-Nov-11	MD/KL	YES	15	340	5,100
3F4WFH306	5	30-Nov-11	MS/KL	N/A	10	1026	10,260
3F4WBO207	5	30-Nov-11	MS/KL	YES	20	340	6,800
3F4WBO205	5	30-Nov-11	MS/KL	YES	10	340	3,400
3F4WFH112	5	30-Nov-11	MS/KL	N/A	10	1026	10,260
3F2WFH512	5	30-Nov-11	MS/KL	N/A	10	1055	10,550
3F2WFH502	5	30-Nov-11	MS/KL	N/A	15	1026	15,390

Hydrant Number	Area	Date	Name Int	Blow Off	Min	Gal/MIN	Total Gal
3F2WFH403	5	30-Nov-11	MS/KL	N/A	10	1026	10,260
3F2WFH304	5	30-Nov-11	MS/KL	N/A	5	1026	5,130
2F4WFH508	5	30-Nov-11	MS/KL	N/A	15	1100	16,500
2F4WBO304	5	30-Nov-11	MS/KL	YES	10	340	3,400
4G1WFH201	5	30-Nov-11	MS/KL	N/A	5	1000	5,000
3F2WFH406	5	30-Nov-11	MD	N/A	5	914	4,570
3F2WBO407	5	30-Nov-11	MD	YES	10	340	3,400
3F2WFH301	5	30-Nov-11	MD	N/A	5	914	4,570
3F2WFH413	5	30-Nov-11	MD	N/A	10	914	9,140
3F2WFH510	5	30-Nov-11	MD	N/A	10	914	9,140
3F2WFH408	5	30-Nov-11	MD	N/A	10	914	9,140
3F2WFH402	5	30-Nov-11	MD	N/A	10	914	9,140
3F2WFH303	5	30-Nov-11	MD	N/A	10	914	9,140
3F2WFH411	5	30-Nov-11	MD	N/A	10	914	9,140
3F2WBO305	5	30-Nov-11	MD	YES	10	340	3,400
3F2WFH104	5	30-Nov-11	MD	N/A	10	914	9,140
3F2WBO103	5	30-Nov-11	MD	YES	5	340	1,700

Hydrant Number	Area	Date	Name Int	Blow Off	Min	Gal/MIN	Total Gal
2F4WFH404	5	30-Nov-11	MD	N/A	10	914	9,140
4G1WFH305	5	30-Nov-11	MD	N/A	10	914	9,140
3H1WFH103	3	01-Dec-11	MS/KR	N/A	10	1238	12,380
2H4WBO503	3	01-Dec-11	MS/KR	YES	10	340	3,400
2H4WBO504	3	01-Dec-11	MS/KR	YES	10	340	3,400
2H3WFH508	3	01-Dec-11	MS/KR	N/A	10	1238	12,380
2H3WBO411	3	01-Dec-11	MS/KR	YES	5	340	1,700
2H3WFH410	3	01-Dec-11	MS/KR	N/A	10	1238	12,380
3H1WFH105	3	01-Dec-11	MS/KR	N/A	10	1238	12,380
3H1WBO118	3	01-Dec-11	MS/KR	N/A	5	340	1,700
3H1WFH106	3	01-Dec-11	MS/KR	N/A	10	1238	12,380
3H1WBO119	3	01-Dec-11	MS/KR	YES	5	340	1,700
2H3WFH413	3	01-Dec-11	MS/KR	N/A	10	1238	12,380
2H3WBO414	3	01-Dec-11	MS/KR	YES	5	340	1,700
3H1WFH107	3	01-Dec-11	MS/KR	N/A	10	1238	12,380
3H1WFH204	3	01-Dec-11	MS/KR	N/A	10	1238	12,380
3H1WBO109	3	01-Dec-11	MS/KR	YES	5	340	1,700

Hydrant Number	Area	Date	Name Int	Blow Off	Min	Gal/MIN	Total Gal
3H1WFH205	3	01-Dec-11	MS/KR	N/A	10	1238	12,380
3H1WBO108	3	01-Dec-11	MS/KR	YES	5	340	1,700
2H3WFH506	3	01-Dec-11	MS/KR	N/A	10	1238	12,380
3H1WFH208	3	01-Dec-11	MS/KR	N/A	10	1238	12,380
2H3WFH202	3	01-Dec-11	MS/KR	N/A	10	1238	12,380
3H2WFH	3	01-Dec-11	KL	N/A	5	1225	6,125
2H1WFH402	3	01-Dec-11	KL	N/A	5	1316	6,580
2H1WFH201	3	01-Dec-11	KL	N/A	5	1316	6,580
2H2WFH501	3	01-Dec-11	KL	N/A	10	1316	13,160
2H2WFH (LAUGHLIN AND BLUFFS DR)	3	01-Dec-11	KL	N/A	5	1316	6,580
2H1WFH103	3	01-Dec-11	KL	N/A	5	1316	6,580
1H3WFH513	3	01-Dec-11	KL	N/A	5	1316	6,580
1H3WBO512	3	01-Dec-11	KL	YES	5	589	2,945
1H3WFH (HILLSTONE CT)	3	01-Dec-11	KL	N/A	10	1223	12,230
1H3WBO501	3	01-Dec-11	KL	YES	45	589	26,505

Hydrant Number	Area	Date	Name Int	Blow Off	Min	Gal/MIN	Total Gal
2H1WFH105	3	05-Dec-11	KL/MD	N/A	10	1316	13,160
2H1WFH204	3	05-Dec-11	KL/MD	N/A	15	1272	19,080
2H1WFH206	3	05-Dec-11	KL/MD	N/A	10	1272	12,720
2H1WFH402	3	05-Dec-11	KL/MD	N/A	10	1316	13,160
3H1WBO410	3	05-Dec-11	KL/MD	YES	20	481	9,620
3H1WBO405	3	05-Dec-11	KL/MD	YES	20	481	9,620
3H1WBO406	3	05-Dec-11	KL/MD	YES	20	481	9,620
2H3WFH207	3	05-Dec-11	MS/KR	N/A	10	1150	11,500
2H3WFH104	3	05-Dec-11	MS/KR	N/A	10	1150	11,500
2H3WBO105	3	05-Dec-11	MS/KR	YES	10	340	3,400
2H2WFH501	3	05-Dec-11	MS/KR	N/A	10	1238	12,380
3G2WFH527	3	05-Dec-11	MS/KR	N/A	70	1201	84,070
2H3WFH303	3	05-Dec-11	MS/KR	N/A	15	1238	18,570
2H3WFH305	3	05-Dec-11	MS/KR	N/A	10	1238	12,380
2H3WFHADD (ALTAMONT CIR)	3	05-Dec-11	MS/KR	N/A	5	1238	6,190
2H3WFHADD (ALTAMONT CIR)	3	05-Dec-11	MS/KR	N/A	10	1238	12,380

Hydrant Number	Area	Date	Name Int	Blow Off	Min	Gal/MIN	Total Gal
2H3WFHADD (BLACKOAK CT)	3	05-Dec-11	MS/KR	N/A	10	1238	12,380
3H2WFH423	3	06-Dec-11	MS	N/A	15	1238	18,570
3G2WFH418	3	06-Dec-11	MS	N/A	10	1238	12,380
3G2WBO220	3	06-Dec-11	MS	YES	10	493	4,930
3G2WBO219	3	06-Dec-11	MS	YES	10	493	4,930
3G2WFH319	3	06-Dec-11	MS	N/A	10	1238	12,380
3G2WBO216	3	06-Dec-11	MS	YES	10	493	4,930
3H1WFH202	3	06-Dec-11	MS	N/A	10	1238	12,380
3H1WFHADD (ASPENWOOD)	3	06-Dec-11	MS	N/A	20	1238	24,760
3G2WBO105	3	06-Dec-11	MS	YES	10	493	4,930
3G2WFH104	3	06-Dec-11	MS	N/A	10	1238	12,380
3G2WFHADD (CARSON PASS)	3	06-Dec-11	MS	N/A	10	1238	12,380
2G4WFH314	3	06-Dec-11	MS	N/A	10	1238	12,380
2G4WFH316	3	06-Dec-11	MS	YES	10	493	4,930
2G4WFH212	3	06-Dec-11	MS	N/A	10	1238	12,380
3H1WBO526	3	06-Dec-11	KL	YES	5	340	1,700

Hydrant Number	Area	Date	Name Int	Blow Off	Min	Gal/MIN	Total Gal
3H3WFH106	3	06-Dec-11	KL	N/A	15	1359	20,385
3H1WBO302	3	06-Dec-11	KL	YES	20	340	6,800
3H1WFHADD (ASPENWOOD)	3	06-Dec-11	KL	N/A	10	1359	13,590
3H1WBO116	3	06-Dec-11	KL	YES	10	340	3,400
2H3WBO516	3	06-Dec-11	KL	YES	20	340	6,800
2G4WFH509	3	06-Dec-11	KL	N/A	5	1375	6,875
2H3WFH402	3	06-Dec-11	KL	N/A	10	1375	13,750
2H3WBO306	3	06-Dec-11	KL	YES	20	340	6,800
2H3WBO316	3	06-Dec-11	KL	YES	10	340	3,400
2H3WFH361	3	06-Dec-11	KL	N/A	10	1375	13,750
2H3WFH205	3	06-Dec-11	KL	N/A	20	1375	27,500
4I3WFH402	1	08-Dec-11	MS/KR	N/A	10	1121	11,210
4H4WFH401	1	08-Dec-11	MS/KR	N/A	10	1121	11,210
5H2WFH107	1	08-Dec-11	MS/KR	N/A	10	1121	11,210
5I1WFH101	1	08-Dec-11	MD/KL	N/A	10	1163	11,630
5I1WFH103	1	08-Dec-11	MD/KL	N/A	10	1163	11,630
5H2WFH107	1	08-Dec-11	MD/KL	N/A	10	1163	11,630

Hydrant Number	Area	Date	Name Int	Blow Off	Min	Gal/MIN	Total Gal
5H2WFH111	1	08-Dec-11	MD/KL	N/A	10	1163	11,630
4H4WFH506	1	08-Dec-11	MD/KL	N/A	10	1201	12,010
5H1WFH108	1	08-Dec-11	MD/KL	N/A	10	1201	12,010
5H1WFH110	1	08-Dec-11	MD/KL	N/A	10	1201	12,010
5H1WFH102	1	08-Dec-11	MD/KL	N/A	10	1201	12,010
4I3WFH502	1	14-Dec-11	MS/KL	N/A	10	1075	10,750
4I1WFH206	1	14-Dec-11	MS/KL	N/A	10	1075	10,750
4H2WFH306	1	14-Dec-11	MS/KL	N/A	10	1075	10,750
4H2WFH528	1	14-Dec-11	MS/KL	N/A	10	1075	10,750
4H4WFH102	1	14-Dec-11	MS/KL	N/A	10	1075	10,750
4H2WFH404	1	14-Dec-11	MS/KL	N/A	10	1127	11,270
4H1WFH502	1	14-Dec-11	MS/KL	N/A	10	1127	11,270
4H3WFH104	1	14-Dec-11	MS/KL	N/A	20	1127	22,540
4I1WFH409	1	14-Dec-11	MD	N/A	5	1201	6,005
4I1WFH203	1	14-Dec-11	MD	N/A	10	1201	12,010
4I1WFH302	1	14-Dec-11	MD	N/A	5	1201	6,005
4H2WFH520	1	14-Dec-11	MD	N/A	10	1201	12,010

Hydrant Number	Area	Date	Name Int	Blow Off	Min	Gal/MIN	Total Gal
4H2WFH408	1	14-Dec-11	MD	N/A	10	1201	12,010
4H4WFH224	1	14-Dec-11	MD	N/A	20	1201	24,020
4H3WFH205	1	14-Dec-11	MD	N/A	15	1201	18,015
3H3WBO326	1	14-Dec-11	MD	YES	20	340	6,800
4H3WFH102	1	14-Dec-11	MD	N/A	10	1201	12,010
3I3WFH104	2	14-Dec-11	MD	N/A	10	1201	12,010
3H2WFH503	2	14-Dec-11	MD	N/A	10	1201	12,010
3H4WFH204	2	14-Dec-11	MD	N/A	10	1201	12,010
3H4WFH402	2	14-Dec-11	MD	N/A	15	1201	18,015
3H4WFH501	2	14-Dec-11	MD	N/A	10	1000	10,000
3H2WFH409	2	14-Dec-11	MS/KL	N/A	10	1200	12,000
3H2WFH412	2	14-Dec-11	MS/KL	N/A	10	1200	12,000
3H2WFH501	2	14-Dec-11	MS/KL	N/A	10	1200	12,000
3H4WFH101	2	14-Dec-11	MS/KL	N/A	10	1200	12,000
3H1WFH501	2	14-Dec-11	MS/KL	N/A	10	1200	12,000
3H3WFH135	2	15-Dec-11	MS/KL	N/A	15	1200	18,000
3H3WFH209	2	15-Dec-11	MS/KL	N/A	40	1200	48,000

Hydrant Number	Area	Date	Name Int	Blow Off	Min	Gal/MIN	Total Gal
3H3WFH302	2	15-Dec-11	MS/KL	N/A	15	1200	18,000
3G4WFH410	2	15-Dec-11	MS/KL	N/A	10	1200	12,000
3H3WFH404	2	15-Dec-11	MS/KL	N/A	15	1200	18,000
3H3WFH303	2	15-Dec-11	MS/KL	N/A	10	1200	12,000
3H3WFH402	2	15-Dec-11	MS/KL	N/A	10	1175	11,750
4H1WFH105	2	15-Dec-11	MS/KL	N/A	15	1175	17,625
3H4WFHADD (LAS POSITAS & LAWRENCE)	2	15-Dec-11	MS/KL	N/A	15	1200	18,000
3H4WFH501	2	15-Dec-11	MS/KL	N/A	10	1125	11,250
4H1WFH203	2	15-Dec-11	MS/KL	N/A	10	1500	15,000
4H1WFH303	2	15-Dec-11	MS/KL	N/A	5	1200	6,000
4H1WFH403	2	15-Dec-11	MS/KL	N/A	10	1200	12,000
4H3WFH304	6	19-Dec-11	MS/KR	N/A	10	1026	10,260
4G4WFH303	6	19-Dec-11	MS/KR	N/A	10	1026	10,260
4G4WFH402	6	19-Dec-11	MS/KR	N/A	15	1026	15,390
4G4WFH508	6	19-Dec-11	MS/KR	N/A	15	1026	15,390
4G4WFH501	6	19-Dec-11	MS/KR	N/A	30	1026	30,780

Hydrant Number	Area	Date	Name Int	Blow Off	Min	Gal/MIN	Total Gal
4G2WFHADD (PRESTON & SOUTHFRONT W.)	6	19-Dec-11	MS/KR	N/A	5	1026	5,130
4G2WFH110	6	19-Dec-11	MS/KR	N/A	10	974	9,740
4G2WFH202	6	19-Dec-11	MS/KR	N/A	10	974	9,740
4G3WFH215	6	19-Dec-11	MS/KR	N/A	10	974	9,740
4G1WFH401	6	19-Dec-11	MS/KR	N/A	10	974	9,740
4G3WFH105	6	19-Dec-11	MS/KR	N/A	10	974	9,740
4G3WFH216	6	19-Dec-11	MS/KR	N/A	10	1050	10,500
4F4WFH406	6	19-Dec-11	MS/KR	N/A	10	1050	10,500
5G1WFH101	6	19-Dec-11	MS/KR	N/A	25	1050	26,250
4G3WFH502	6	19-Dec-11	MS/KR	N/A	15	1050	15,750
4G3WFH505	6	19-Dec-11	MS/KR	N/A	10	1050	10,500
4G4WFH105	6	19-Dec-11	MD/KL	N/A	10	1100	11,000
4G2WFH515	6	19-Dec-11	MD/KL	N/A	10	1127	11,270
4G4WFH103	6	19-Dec-11	MD/KL	N/A	5	1100	5,500
4G4WFH218	6	19-Dec-11	MD/KL	N/A	10	1127	11,270
4G4WFH306	6	19-Dec-11	MD/KL	N/A	5	1127	5,635

Hydrant Number	Area	Date	Name Int	Blow Off	Min	Gal/MIN	Total Gal
4G4WFH414	6	19-Dec-11	MD/KL	N/A	5	1127	5,635
4G4WFH504	6	19-Dec-11	MD/KL	N/A	15	1127	16,905
3G4WFH501	6	19-Dec-11	MD/KL	N/A	20	1075	21,500
4G1WFH504	6	19-Dec-11	MD/KL	N/A	10	1075	10,750
4G3WFH108	6	19-Dec-11	MD/KL	N/A	20	1075	21,500
4G1WBO303	6	19-Dec-11	MD/KL	YES	10	340	3,400
4G1WFH502	6	19-Dec-11	MD/KL	N/A	10	1075	10,750
4G3WFH205	6	19-Dec-11	MD/KL	N/A	5	1020	5,100
4G3WBO304	6	19-Dec-11	MD/KL	YES	20	340	6,800
4G3WFH411	6	19-Dec-11	MD/KL	N/A	15	1127	16,905
4G3WFH204	6	19-Dec-11	MD/KL	N/A	10	1020	10,200
4G3WFH101	6	19-Dec-11	MD/KL	N/A	10	1020	10,200
4G3WFH412	6	19-Dec-11	MD/KL	N/A	10	1020	10,200
4G3WFH402	6	19-Dec-11	MD/KL	N/A	10	1020	10,200
4G3WFH501	6	19-Dec-11	MD/KL	N/A	10	1020	10,200
5H1WBO112	7	03-Jan-12	MS/MD	YES	10	1000	10,000
5G2WFH212	7	03-Jan-12	MS/MD	N/A	10	1020	10,200

Hydrant Number	Area	Date	Name Int	Blow Off	Min	Gal/MIN	Total Gal
5G2WFBO203	7	03-Jan-12	MS/MD	YES	5	340	1,700
5H1WFH303	7	03-Jan-12	KL	N/A	10	1026	10,260
5H1WFH401	7	03-Jan-12	KL	N/A	30	1026	30,780
5G2WFH413	7	03-Jan-12	KL	N/A	20	1026	20,520
5H1WBO501	7	03-Jan-12	KL	YES	20	349	6,980
5G2WBO301	7	04-Jan-12	MS/KR	YES	18	340	6,120
5G2WBO402	7	04-Jan-12	MS/KR	YES	20	340	6,800
5G2WFH409	7	04-Jan-12	MS/KR	N/A	90	1100	99,000
5G2WBO502	7	04-Jan-12	MS/KR	YES	30	340	10,200
5G2WFH505	7	04-Jan-12	MS/KR	N/A	15	1100	16,500
5G4WFH103	7	04-Jan-12	MS/KR	N/A	15	1100	16,500
5G4WFBO102	7	04-Jan-12	MS/KR	YES	15	340	5,100
5G4WBO210	7	04-Jan-12	MS/KR	YES	10	340	3,400
5H3WFH101	7	04-Jan-12	MD/KL	N/A	10	1077	10,770
5G4WFH108	7	04-Jan-12	MD/KL	N/A	15	1077	16,155
5G4WFH309	7	04-Jan-12	MD/KL	N/A	20	974	19,480
5G4WFH411	7	04-Jan-12	MD/KL	N/A	10	914	9,140

Hydrant Number	Area	Date	Name Int	Blow Off	Min	Gal/MIN	Total Gal
5H3WFH407	7	04-Jan-12	MD/KL	N/A	10	914	9,140
5G4WFH409	7	04-Jan-12	MD/KL	N/A	10	974	9,740
5G4WFH412	7	04-Jan-12	MD/KL	N/A	15	950	14,250
5H3WFH504	7	04-Jan-12	MD/KL	N/A	10	914	9,140
6H1WFH204	7	04-Jan-12	MD/KL	N/A	20	914	18,280
6G2WFH111	7	04-Jan-12	MD/KL	N/A	10	974	9,740
5G2WFH206	7	14-Feb-12	MS	N/A	25	1075	26,875
5G2WFH204	7	14-Feb-12	MS	N/A	20	1075	21,500
5G3WFH404	7	15-Feb-12	MS / KL	N/A	15	1075	16,125
5G4WFH508	7	15-Feb-12	MS / KL	N/A	10	1050	10,500
5G4WFH508	7	15-Feb-12	MS / KL	N/A	10	500	5,000
6G2WFH102	7	15-Feb-12	MS / KL	N/A	10	460	4,600
6G2WFH303	7	15-Feb-12	MS / KL	N/A	12	500	6,000
6G2WBO407	7	15-Feb-12	MS / KL	YES	20	340	6,800
6G2WBO411	7	15-Feb-12	MS / KL	YES	20	340	6,800
6G2WBO403	7	15-Feb-12	MS / KL	YES	20	340	6,800
5G1WFH309	9	21-Feb-12	MS,KL,KR	N/A	15	1020	15,300

Hydrant Number	Area	Date	Name Int	Blow Off	Min	Gal/MIN	Total Gal
5G1WBO307	9	21-Feb-12	MS,KL,KR	YES	20	340	6,800
5G1WBO533	9	21-Feb-12	MS,KL,KR	YES	20	340	6,800
5G1WBO406	9	21-Feb-12	MS,KL,KR	YES	20	340	6,800
5G1WBO414	9	21-Feb-12	MS,KL,KR	YES	20	340	6,800
5G3WBO101	9	21-Feb-12	MS,KL,KR	YES	20	340	6,800
5G3WBO409	9	22-Feb-12	MS, MD, KL	YES	20	340	6,800
5G3WBO410	9	22-Feb-12	MS, MD, KL	YES	20	340	6,800
7H1WBO501	8	22-Feb-12	MS, MD, KL	YES	15	340	5,100
7H1WBO424	8	22-Feb-12	MS, MD, KL	YES	15	340	5,100
7H1WBO217	8	22-Feb-12	MS, MD, KL	YES	20	340	6,800
6G4WFH203	8	22-Feb-12	MS, MD, KL	N/A	30	974	29,220
6H3WBO521	8	22-Feb-12	MS, MD, KL	YES	20	340	6,800
7H1WBO123	8	22-Feb-12	MS, MD, KL	YES	60	340	20,400
7H3WBO204	8	23-Feb-12	MS, MD, KL	YES	25	340	8,500
7H3WBO212	8	23-Feb-12	MS, MD, KL	YES	25	340	8,500
6H1WBO503	8	23-Feb-12	MS, MD, KL	YES	10	340	3,400
6H1WBO502	8	23-Feb-12	MS, MD, KL	YES	10	340	3,400

Hydrant Number	Area	Date	Name Int	Blow Off	Min	Gal/MIN	Total Gal
6H1WBO501	8	23-Feb-12	MS, MD, KL	YES	10	340	3,400
6H1WBO517	8	23-Feb-12	MS, MD, KL	YES	10	340	3,400
6H1WBO404	8	23-Feb-12	MS, MD, KL	YES	10	340	3,400
6H1WBO523	8	23-Feb-12	MS, MD, KL	YES	10	340	3,400
6H1WBO518	8	23-Feb-12	MS, MD, KL	YES	10	340	3,400
6H1WBO528	8	23-Feb-12	MS, MD, KL	YES	10	340	3,400
6H1WBO524	8	23-Feb-12	MS, MD, KL	YES	10	340	3,400
6H3WFH302	8	23-Feb-12	MS, MD, KL	N/A	10	1175	11,750
7G4WBO102	8	23-Feb-12	MS, MD, KL	YES	25	340	8,500
7G4WBO101	8	23-Feb-12	MS, MD, KL	YES	15	340	5,100
7G4WFH105	8	27-Feb-12	MD, KL	N/A	15	340	5,100
7G4WFH106	8	27-Feb-12	MD, KL	N/A	15	340	5,100
6G4WBO107	8	27-Feb-12	MD, KL	YES	15	340	5,100
6G4WBO313	8	27-Feb-12	MD, KL	YES	10	340	3,400
6G4WBO220	8	27-Feb-12	MD, KL	YES	10	340	3,400
6G4WBO502	8	27-Feb-12	MD, KL	YES	10	340	3,400
6G4WBO302	8	27-Feb-12	MD, KL	YES	10	340	3,400

C.15.b.iii.(2) ▶ Unplanned Discharges of the Potable Water System[33]

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)[34]	pH (standard units) [52]	Discharge Turbidity (Visual) [52]	Implemented BMPs & Corrective Actions	Time of discharge discovery	Regulatory Agency Notification Time[35]	Inspector arrival time	Responding crew arrival time
Southfront Rd. and Mountian Vista Parkway	Emergency Flushing	Altamont Creek	07/27/2012		245,000	245,000 GPD	0.05	9.1	0.110	Inlet Protection	07/27/11	Fax RWQCB 07/28/2011	N/A	N/A
7364 Patterson Pass Road	Theft of Brass Fire System Parts	Arroyo Seco	10/29/2011	Unknown	180,000	Unknown	Not Reported	Not Reported	Not Reported	None	0820	Fax RWQB 10/31/11	0850	0850

[33] This table contains all of the unplanned discharges that occurred in this FY.
[34] 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.
[35]. 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.

[i] Include cross streets
[ii] 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".
[iii] 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.
[iv] State the watershed(s) in which the Regulated Project is located. Optional but recommended: Also state the downstream watershed(s).
[v] For redevelopment projects, state the pre-project impervious surface area.
[vi] For redevelopment projects, state the post-project impervious surface area.
[vii] For private projects, state project application deemed complete date and final discretionary approval date.
[viii] List appropriate source control measures approved for the project below:

A. On-site storm drains inlets/waterways shall be clearly marked with the worlds "No Dumping! Flows to Bay" with a two-piece thermoplastic marker.
B. Interior floor drains shall be plumbed to the sanitary sewer and shall not be connected to storm drain system.
C. Interior level parking garage floor drains shall be connected to a sand/oil interceptor or equivalent water treatment device prior to discharging to the sanitary sewer system.
D. Pesticide/Fertilizer Application and Irrigation on a landscaping plan as a part of a development project shall meet the following conditions:
   a. Where feasible, landscaping shall be designed and operated to treat stormwater runoff by incorporating elements that collect, detain, and infiltrate runoff. In areas that provide detention of water, plants that are tolerant of saturated soil conditions and prolonged exposure to water shall be specified.
   b. Plant materials selected shall be appropriate to site specific characteristics such as soil type, topography, climate, amount and timing of sunlight, prevailing winds, rainfall, air movement, patterns of land use, ecological consistency and plant interactions to ensure successful establishment.
   c. Existing native trees, shrubs, and ground level shall be retained and incorporated into landscape plan to the maximum extent practicable.
   d. Unless otherwise specified, proper maintenance of landscaping shall be the responsibility of the property owner.
   e. Integrated pest management (IPM) principles and techniques shall be encouraged as part of the landscaping design.
   f. Landscaping shall comply with City of Livermore's "Water Efficient Landscape Ordinance". However, areas of a site used for bioswales or other landscaped areas that function as a stormwater treatment measure shall be exempt from the Water Efficient Landscaping requirements.
   g. An efficient Irrigation system shall be installed in areas requiring irrigation.
E. Pool, Spa, and Fountain Discharges: new or rebuilt swimming pools, hot tubs, spas and fountains must have a connection to the sanitary sewer to facilitate draining. When draining is necessary, a hose or other temporary system shall be directed into a sanitary sewer cleanout, or vegetated areas that are large enough to accommodate the volume without allowing the discharged water to flow to the storm drain system or receiving water body.
F. Food Service Facilities (including restaurants and grocery stores) shall have a sink or other container for cleaning floor mats, equipment, and hood filters which is connected to an oil and grease interceptor with a minimum size of 750 gallons prior to discharging to the sanitary sewer system. Facilities that do not have any cooking or any other grease generating processes may request an exemption from this requirement.
G. Refuse Areas: new or redevelopment projects shall provide a roofed and enclosed area for dumpsters, recycling containers, compactors, and food waste containers. Water run-off from the refuse areas or similar facilities shall not discharge to the storm drain system. Dumpster leakage from covered trash and food compactor enclosures shall drain to the sanitary sewer via connection to an approved oil and grease interceptor device.
H. Outdoor Process Activities/Equipment: process activities shall be performed either indoors or in roofed outdoor areas which are designed to prevent the run-on of stormwater drainage as well as the runoff from the area. The areas shall drain to the sanitary sewer system.
I. Outdoor Equipment/Materials Storage:
   a. All outdoor equipment and materials storage areas shall be covered and/or bermed, or shall be designed with Best Management Practices (BMP) that effectively minimize the potential runoff and contact of stormwater to pollutants.
   b. Storage areas containing non-hazardous liquid shall be covered by a roof and be contained by berms, dikes, liners, vaults or similar spill containment devices.
   c. All on-site hazardous materials and wastes, as defined and/or regulated by the California Public Health Code must be used, managed, and stored in compliance with the applicable Livermore Pleasanton Fire Department's requirements and regulations.
J. Vehicle/Equipment and Commercial/Industrial Cleaning: all facilities which discharge waste water generated from vehicle or equipment washing must obtain a wastewater discharge permit from the City of Livermore's Water Resources Division prior to the commencement of the discharge:
   a. Wastewater from vehicle and equipment washing operations shall not be discharged to the storm drain system.
   b. Commercial/industrial facilities having vehicle/equipment cleaning needs shall either provide a roofed, bermed area for washing activities or discourage vehicle/equipment washing by removing hose bibs (faucets) and installing signs prohibiting such uses.
   c. Vehicle/equipment washing areas shall be designed and operated such that no run off is discharged to the storm drain system, and plumbed to drain to the sanitary sewer via an oil water separator with a minimum size of 750-gallons or an approved equivalent pretreatment device.
K. Vehicle/Equipment Repair and Maintenance:
   a. Vehicle/equipment repair and maintenance shall be performed in a designated area indoors, or if such services must be performed outdoors, in an area designed to prevent the run-on and runoff of stormwater. Oil and other automotive fluid change service must always be performed indoors. Vehicle service facilities shall not contain floor drains.
   b. Secondary containment shall be provided for exterior work areas where hazardous materials or hazardous wastes are used or stored. Drains shall not be installed within the secondary containment areas.
   c. Tanks, containers, or sinks used for parts cleaning or rinsing or used for such purposes shall not be connected to the storm drain system and the sanitary sewer. Discharges to the sanitary sewer from such operations require prior approval from the Water Resources Division.
L. Fuel Dispensing Areas
   a. Fueling areas shall have impermeable surfaces which are a) graded at the minimum slope to prevent ponding; b) a grade break prevents run-on of stormwater to maximum extent practicable
   b. Fueling areas shall be covered by a canopy or roof that extends a minimum of ten feet in each direction from each pump (Roof downspouts from the canopy shall not drain onto the fueling area)
M. Loading Docks
   a. Loading docks shall be graded to minimize run-on to and runoff from the loading area
   b. Door skirts between the trailers and the building shall be installed to prevent exposure of loading activities to rain, unless one of the following conditions applies: the loading dock is covered, or the applicant demonstrates that rainfall will not result in an exposure of stormwater to pollutants
N. Fire Sprinkler Test Water: Provisions shall be made in the project design and construction to allow for the discharge of fire sprinkler test water to an onsite vegetated area
O. Miscellaneous Drain or Wash Water
   a. Boiler drain lines shall be connected to the sanitary sewer system and may not discharge to the storm drain system
   b. For small air conditioning units, air conditioning condensate shall be directed to landscaped areas as a minimum BMP
   c. Roof drains shall discharge and drain away from the building foundation to landscaped areas wherever feasible
   d. Washing and/or steam cleaning activities must be performed at an appropriately equipped facility that drains to the sanitary sewer as specified in Section J
P. Paved Sidewalks and Parking Lots: Sidewalks and parking lots shall be swept regularly to minimize the accumulation of litter and debris
Q. Private Streets, Utilities and Common Areas
   a. The owner of private streets and storm drains shall prepare and implement a plan for street sweeping of paved private roads and cleaning of all storm drain inlets
   b. For residential developments, where other maintenance mechanisms are not applicable or otherwise in place, a Property Owners Association, Landscape& Lighting District, or an equivalent mechanism shall be created and shall be responsible for maintaining all private streets and private utilities and other privately owned common areas and facilities on the site including landscaping
R. Vehicle/Equipment Repair and Maintenance
   a. No person shall dispose of, or permit the disposal, directly or indirectly, of vehicle fluids, hazardous materials, or rinse water from parts cleaning operations into storm drains
   b. No vehicle fluid removal shall be performed outside a building, or on asphalt or ground surfaces, whether Inside or outside a building.
   c. No person shall leave unattended drip parts or other open containers containing vehicle fluid, unless such containers are in use or in an area that cannot discharge to the storm drain
S. Fueling Areas:The property owner shall dry sweep the fueling area and spot clean leaks and drips on a routine basis
T. Loading Docks:The property owner shall ensure that BMPs are implemented to prevent potential stormwater pollution
U. On-site Storm Drain: All on-site storm drains must be inspected and, if necessary, cleaned at least once a year immediately prior to the rainy season

[ix] List site design measures approved for the project.

a. Minimize Impervious surfaces
b. Conserve natural areas, including existing trees or other vegetation, and soils
c. Construct sidewalks, walkways, and/or patios with permeable surfaces
d. Other:_____

[x] 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.).
[xi] 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.
[xii] 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).
[xiii] 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.
[xiv] 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.
[xv] Note whether a third party was used to certify the project design complies with Provision C.3.d.
[xvi] If HM control is not required, state why not.
[xvii] 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).
[xviii] For public projects, enter "Yes" or "No" under "Is Funding Committed?" and enter a date under "Date Construction Scheduled to Begin".
[xix] List source control measures approved for the project. (Same as Endnote 8)
[xx] List site design measures approved for the project. (Same as endnote 9)
[xxi] 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.).
[xxii] 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.
[xxiii] 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).
[xxiv] 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.
[xxv] 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.
[xxvi] Note whether a third party was used to certify the project design complies with Provision C.3.d.
[xxvii] If HM control is not required, state why not.
[xxviii] 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.2. Attachments

LIVERMORE WATER RECLAMATION PLANT

RECORD OF CLIMATOLOGICAL OBSERVATIONS

October 2011

Station No. : E50-4996-00

Alameda County

SCADA system updates data at 23:45 hrs.

DATE		Temperature Degree Fahrenheit Max.	Min.	At Obsn.	Precipitation Inch At Obsn.	Evaporation Inch At Obsn.	Wind Speed.(MPH) Max.	Min.	At Obsn.	Direction Deg	Humidity (Relative) % Max.	Min.	At Obsn.	Barometric Pressure mBar	Important weather conditions,remarks,etc.
01-Oct	S	75.9	60.6	62.2	0.000	0.136	18	0	1	WSW	77	44	77	1003	
02-Oct	S	75.1	56.9	58.9	0.000	0.124	16	0	1	W	81	31	72	1002	
03-Oct	M	68.6	53.4	60.1	0.000	0.000	14	0	2	SE	85	41	83	998	
04-Oct	T	67.1	57.8	57.8	0.010	0.083	16	0	2	S	84	51	75	993	
05-Oct	W	62.8	53.1	53.1	0.000	0.000	22	0	1	WNW	83	51	81	998	
06-Oct	T	62.4	50.9	51.2	0.000	0.000	12	0	0	NNW	85	56	83	1005	
07-Oct	F	72.9	46.8	56.3	0.000	0.090	12	0	0	ENE	87	33	74	1006	
08-Oct	S	77.2	50.2	56.3	0.000	0.100	14	0	0	NNW	86	34	85	1003	
09-Oct	S	78.5	53.1	59.9	0.000	0.087	15	0	0	WNW	88	37	76	1000	
10-Oct	M	69.0	32.0	64.1	0.000	0.000	12	0	1	SW	87	0	87	1001	
11-Oct	T	77.1	32.0	62.4	0.000	0.080	14	0	0	ENE	88	0	81	1004	
12-Oct	W	83.0	55.7	63.4	0.000	0.146	10	0	0	SSW	87	25	57	1002	
13-Oct	T	87.7	55.8	64.6	0.000	0.158	15	0	2	ENE	71	19	53	996	
14-Oct	F	87.4	57.9	68.2	0.000	0.124	8	0	0	NW	72	26	64	996	
15-Oct	S	82.5	59.2	62.9	0.000	0.143	19	0	3	W	78	36	77	1000	
16-Oct	S	75.8	61.3	61.8	0.000	0.105	15	0	1	NW	79	50	76	1005	
17-Oct	M	86.8	55.4	64.4	0.000	0.131	15	0	0	NNE	84	27	61	1002	
18-Oct	T	87.3	58.1	60.1	0.000	0.148	21	0	9	W	86	26	80	1002	
19-Oct	W	69.6	57.5	57.7	0.000	0.124	17	0	0	SSW	83	53	80	1002	
20-Oct	T	75.3	55.2	57.4	0.000	1.240	13	0	1	NW	87	47	81	1005	
-Oct	F	81.4	51.6	60.9	0.000	0.000	10	0	0	NE	85	39	73	1006	
-2-Oct	S	84.5	52.8	60.6	0.000	0.126	12	0	1	ENE	81	23	61	1002	
23-Oct	S	85.0	52.7	63.1	0.000	0.114	10	0	1	NE	72	31	67	1000	
24-Oct	M	76.2	55.9	56.1	0.000	0.102	20	0	6	W	82	41	82	1003	
25-Oct	T	72.7	53.1	53.1	0.000	0.092	15	0	1	SSE	84	36	79	1004	
26-Oct	W	75.2	46.6	50.6	0.000	0.121	12	0	1	ENE	85	10	42	1005	
27-Oct	T	74.3	42.8	54.3	0.000	0.102	10	0	2	SSE	60	18	49	1004	
28-Oct	F	76.9	46.4	53.3	0.000	0.095	9	0	1	NE	66	22	57	1006	
29-Oct	S	81.1	45.3	57.9	0.000	0.102	12	0	0	NE	71	15	48	1005	
30-Oct	S	80.3	49.0	58.4	0.000	0.107	11	0	1	NE	67	23	54	1004	
31-Oct	M	81.6	51.1	59.6	0.000	0.097	10	0	1	SSE	72	27	72	1002	
					(NO RAINFALL)										
TOTAL					0.010	4.082			40				2186		
AVERAGE					0.000	0.132			1				71	1002	
MAXIMUM		87.7			0.010	1.240	22		9		88		87	1006	
MINIMUM			32.0		0.000	0.000		0	0			0	42	993	

LIVERMORE WATER RECLAMATION PLANT

RECORD OF CLIMATOLOGICAL OBSERVATIONS

November 2011

Station No. : E50-4996-00

Alameda County

SCADA system updates data at 23:45 hrs.

DATE		Temperature Degree Fahrenheit Max.	Min.	At Obsn.	Precipitation Inch At Obsn.	Evaporation Inch At Obsn.	Wind Speed.(MPH) Max.	Min.	At Obsn.	Direction Deg	Humidity (Relative) % Max.	Min.	At Obsn.	Barometric Pressure mBar	Important weather conditions,remarks,etc.
01-Nov	T	73.4	54.4	64.9	0.000	0.238	28	0	3	S	75	9	12	1004	
02-Nov	W	75.0	52.8	53.1	0.000	0.153	13	0	2	ENE	43	10	43	1003	
03-Nov	T	63.8	42.8	49.6	0.000	0.054	25	0	3	WNW	81	37	78	996	
04-Nov	F	59.2	43.1	44.1	0.000	0.000	15	0	2	NE	86	38	79	1000	
05-Nov	S	56.3	40.3	51.1	0.000	0.000	14	0	3	SSW	83	51	80	999	
06-Nov	S	58.2	45.0	46.9	0.000	0.041	12	0	3	NNE	87	47	82	1007	
07-Nov	M	62.5	40.2	44.1	0.000	0.056	13	0	2	ENE	86	38	80	1012	
08-Nov	T	61.4	39.3	45.1	0.000	0.063	12	0	1	ESE	83	39	79	1013	
09-Nov	W	61.9	38.9	46.6	0.000	0.061	18	0	0	NNW	85	49	76	1008	
10-Nov	T	66.2	39.1	46.2	0.000	0.054	13	0	0	WNW	84	40	72	1000	
11-Nov	F	60.2	43.5	52.1	0.000	0.005	15	0	2	N	86	46	83	996	
12-Nov	S	62.4	48.2	48.3	0.000	0.027	8	0	1	SSE	88	56	82	1002	
13-Nov	S	67.9	45.7	51.4	0.000	0.049	9	0	3	SE	86	45	86	1002	
14-Nov	M	63.8	48.1	48.1	0.000	0.056	14	0	2	NE	88	51	81	1005	
15-Nov	T	70.3	32.0	48.2	0.000	0.134	7	0	2	NE	86	0	72	1008	
16-Nov	W	71.7	42.3	49.0	0.000	0.058	9	0	1	E	82	31	80	1010	
17-Nov	T	61.1	47.2	54.1	0.000	0.036	15	0	7	WSW	90	64	81	1004	
18-Nov	F	56.9	48.2	48.8	0.000	0.019	16	0	2	SW	86	59	82	1002	
19-Nov	S	57.0	41.5	48.8	0.000	0.000	15	0	3	ESE	87	38	78	993	
20-Nov	S	57.7	46.1	48.4	0.000	0.000	14	0	0	ESE	84	52	84	1003	
Nov	M	60.2	44.6	45.8	0.000	0.039	10	0	0	W	87	51	78	1011	
-Nov	T	64.4	40.2	46.3	0.000	0.036	9	0	2	N	86	44	81	1006	
23-Nov	W	60.6	42.3	51.6	0.000	0.036	15	0	1	E	84	49	75	998	
24-Nov	T	58.4	48.3	49.0	0.000	0.007	15	0	0	N	84	69	79	1011	
25-Nov	F	63.2	45.4	51.6	0.000	0.030	11	0	1	NNE	84	63	78	1015	
26-Nov	S	57.7	45.2	55.7	0.000	0.030	18	0	10	ENE	85	69	76	1013	
27-Nov	S	62.6	47.3	47.6	0.000	0.029	10	0	1	N	88	62	84	1012	
28-Nov	M	48.8	44.1	44.3	0.000	0.029	5	0	1	SSW	91	82	91	1012	
29-Nov	T	65.2	40.1	45.2	0.000	0.044	13	0	0	S	78	0	74	1009	
30-Nov	W	65.8	38.8	57.4	0.000	0.122	32	0	6	SSE	90	18	25	1009	
er adjustn ##															
					(NO RAINFALL)										
TOTAL					0.000	1.508			65				2229		
AVERAGE					0.000	0.050			2				74	1005	
MAXIMUM		75.0			0.000	0.238	32		10		91		91	1015	
MINIMUM			32.0		0.000	0.000		0	0			0	12	993	

LIVERMORE WATER RECLAMATION PLANT

RECORD OF CLIMATOLOGICAL OBSERVATIONS

December 2011

Station No. : E50-4996-00

Alameda County

SCADA system updates data at 23:45 hrs.

DATE		Temperature Degree Fahrenheit Max.	Min.	At Obsn.	Precipitation Inch At Obsn.	Evaporation Inch At Obsn.	Wind Speed.(MPH) Max.	Min.	At Obsn.	Direction Deg	Humidity (Relative) % Max.	Min.	At Obsn.	Barometric Pressure mBar	Important weather conditions,remarks,etc.
01-Dec	T	65.9	54.6	61.5	0.000	0.226	32	0	15	N	27	13	14	1003	
02-Dec	F	71.8	52.9	59.0	0.000	0.144	24	0	5	NNE	39	11	17	1004	
03-Dec	S	61.5	46.4	51.0	0.000	0.202	31	0	6	ESE	38	13	25	1011	
04-Dec	S	66.3	36.8	41.4	0.000	0.066	8	0	3	NE	62	17	57	1009	
05-Dec	M	54.1	38.6	39.0	0.000	0.088	11	0	0	ENE	62	28	60	1014	
06-Dec	T	61.4	32.4	39.2	0.000	0.046	10	0	0	ENE	76	26	62	1015	
07-Dec	W	59.2	33.5	38.4	0.000	0.044	10	0	0	ENE	76	31	65	1009	
08-Dec	T	58.6	33.1	38.2	0.000	0.060	12	0	2	S	78	35	66	1009	
09-Dec	F	60.2	32.5	39.9	0.000	0.070	13	0	0	E	79	30	66	1009	
10-Dec	S	60.7	35.0	39.0	0.000	0.048	8	0	1	S	77	34	74	1004	
11-Dec	S	53.8	39.0	46.9	0.000	0.045	14	0	0	NNW	84	50	77	997	
12-Dec	M	51.6	38.6	39.1	0.000	0.032	12	0	0	NE	83	64	80	1000	
13-Dec	T	58.6	34.4	39.1	0.000	0.042	14	0	0	NNE	85	39	83	1008	
14-Dec	W	60.4	36.3	46.1	0.000	0.051	11	0	3	W	85	41	77	1012	
15-Dec	T	51.6	38.7	38.9	0.000	0.000	14	0	2	E	87	65	84	1011	
16-Dec	F	63.0	37.2	44.1	0.000	0.083	15	0	0	ENE	85	27	63	1008	
17-Dec	S	65.5	33.9	40.6	0.000	0.054	7	0	0	NNE	87	31	70	1008	
18-Dec	S	54.9	34.9	46.0	0.000	0.048	13	0	1	S	82	60	81	1006	
19-Dec	M	64.1	42.4	47.2	0.000	0.099	13	0	4	NE	83	26	45	1005	
20-Dec	T	62.9	35.8	39.8	0.000	0.074	8	0	0	E	70	32	66	1005	
Dec	W	60.4	34.5	55.3	0.000	0.167	23	0	8	ENE	75	11	13	1008	
22-Dec	T	57.7	32.0	39.8	0.000	1.500	21	0	0	S	45	0	39	1019	
23-Dec	F	63.0	30.4	34.7	0.000	0.071	6	0	0	S	60	13	49	1021	
24-Dec	S	55.2	29.8	36.6	0.000	0.077	16	0	0	ENE	72	31	67	1017	
25-Dec	S	59.8	30.0	35.8	0.000	0.039	7	0	0	ESE	74	27	69	1014	
26-Dec	M	60.2	30.6	39.4	0.000	0.042	11	0	3	ESE	86	32	86	1016	
27-Dec	T	63.7	38.5	42.7	0.000	0.058	10	0	0	NE	89	28	60	1015	
28-Dec	W	68.9	39.0	51.3	0.000	0.074	7	0	0	ENE	71	25	67	1012	
29-Dec	T	63.6	32.0	53.0	0.000	0.051	9	0	0	W	88	0	86	1007	
30-Dec	F	60.7	50.0	51.0	0.000	0.029	12	0	4	WNW	88	71	86	1009	
31-Dec	S	58.4	39.9	49.2	0.000	0.103	18	0	5	ENE	90	37	79	1008	
					#2 RAINFALL										
TOTAL					0.000	3.730			64				1934		
AVERAGE					0.000	0.120			2				62	1010	
MAXIMUM		71.8			0.000	1.500	32		15		90		86	1021	
MINIMUM			29.8		0.000	0.000		0	0			0	13	997	

LIVERMORE WATER RECLAMATION PLANT

RECORD OF CLIMATOLOGICAL OBSERVATIONS

January 2012

Station No. : E50-4996-00

Alameda County

SCADA system updates data at 23:45 hrs.

DATE		Temperature Degree Fahrenheit Max.	Min.	At Obsn.	Precipitation Inch At Obsn.	Evaporation Inch At Obsn.	Wind Speed.(MPH) Max.	Min.	At Obsn.	Direction Deg	Humidity (Relative) % Max.	Min.	At Obsn.	Barometric Pressure mBar	Important weather conditions,remarks,etc.
01-Jan	S	60.5	39.7	44.0	0.000	0.067	15	0	0	S	89	53	79	1009	
02-Jan	M	59.8	40.1	45.1	0.000	0.026	7	0	0	SE	86	57	82	1013	
03-Jan	T	63.9	41.1	45.2	0.000	1.644	11	0	0	NE	89	44	76	1014	
04-Jan	W	68.7	40.0	48.8	0.000	0.071	11	0	1	ENE	85	32	66	1013	
05-Jan	T	69.5	39.2	45.2	0.000	0.070	11	0	1	ENE	83	31	82	1009	
06-Jan	F	63.1	42.2	42.3	0.000	0.112	7	0	2	NNE	90	46	79	1009	
07-Jan	S	67.5	35.8	58.8	0.000	0.128	22	0	6	SE	86	15	21	1009	
08-Jan	S	65.9	42.6	42.6	0.000	0.141	15	0	3	NW	55	15	50	1011	
09-Jan	M	63.1	35.7	41.8	0.000	0.090	13	0	0	ENE	73	37	73	1009	
10-Jan	T	64.2	36.6	42.6	0.000	0.077	11	0	0	ENE	78	34	64	1007	
11-Jan	W	70.7	36.9	41.8	0.000	0.087	9	0	2	NNE	70	20	47	1006	
12-Jan	T	63.0	35.4	41.9	0.000	0.100	13	0	0	ENE	67	23	52	1008	
13-Jan	F	64.5	35.0	42.2	0.000	0.093	15	0	0	E	70	31	69	1010	
14-Jan	S	68.0	34.5	41.1	0.000	0.067	11	0	0	NE	75	25	63	1006	
15-Jan	S	53.4	34.2	40.4	0.000	0.077	27	0	0	SSW	79	56	61	1009	
16-Jan	M	51.9	28.8	33.8	0.000	0.067	10	0	0	NE	77	16	63	1015	
17-Jan	T	54.1	28.5	38.0	0.000	0.038	9	0	1	NE	74	18	67	1016	
18-Jan	W	57.9	30.1	38.6	0.000	0.051	8	0	0	NE	79	40	72	1013	
19-Jan	T	52.1	33.3	49.9	0.020 R	0.000	8	0	0	E	83	56	82	1005	
20-Jan	F	62.0	32.0	57.9	0.740	0.000	27	0	16	S	87	0	83	993	
21-Jan	S	58.2	41.7	41.8	0.320	0.000	27	0	2	NNE	87	51	81	1009	
22-Jan	S	56.3	40.5	56.1	0.010	0.000	20	0	3	S	83	57	70	996	
23-Jan	M	57.0	32.0	48.7	0.310	0.000	24	0	1	WSW	88	0	85	1008	
24-Jan	T	61.5	46.7	48.4	0.000	0.051	8	0	1	ENE	86	54	82	1017	
25-Jan	W	64.4	44.1	52.5	0.000	0.067	10	0	1	ESE	86	55	80	1015	
26-Jan	T	63.9	51.4	51.9	0.000	0.067	16	0	2	ENE	89	71	89	1012	
27-Jan	F	64.8	48.6	49.3	0.000	0.183	23	0	5	SSE	89	15	39	1012	
28-Jan	S	62.7	40.6	44.1	0.000	0.183	15	0	0	SSE	77	26	77	1013	
29-Jan	S	66.2	38.6	48.0	0.000	0.115	12	0	1	NE	82	41	76	1008	
30-Jan	M	62.0	45.7	49.8	0.000	0.058	14	0	2	W	86	37	84	1005	
31-Jan	T	63.9	47.0	47.3	0.000	0.086	14	0	1	NW	85	50	79	1009	
TOTAL					1.400	3.817			51				2172		
AVERAGE					0.045	0.123			2				70	1009	
MAXIMUM		70.7			0.740	1.644	27		16		90		89	1017	
MINIMUM			28.5		0.000	0.000		0	0			0	21	993	

LIVERMORE WATER RECLAMATION PLANT

RECORD OF CLIMATOLOGICAL OBSERVATIONS

February 2012

Station No. : E50-4996-00

Alameda County

SCADA system updates data at 23:45 hrs.

DATE	Temperature Degree Fahrenheit Max.	Min.	At Obsn.	Precipitation Inch At Obsn.	Evaporation Inch At Obsn.	Wind Speed.(MPH) Max.	Min.	At Obsn.	Direction Deg	Humidity (Relative) % Max.	Min.	At Obsn.	Barometric Pressure mBar	Important weather conditions,remarks,etc.
01-Feb W	61.0	43.1	44.5	0.000	0.086	12	0	1	ENE	87	50	80	1012	
02-Feb T	66.7	39.6	44.9	0.000	0.115	14	0	1	SE	85	19	62	1003	
03-Feb F	58.9	38.6	45.4	0.000	0.115	17	0	0	WNW	78	42	76	1005	
04-Feb S	64.5	38.9	44.8	0.000	0.093	10	0	1	NNE	85	35	70	1007	
05-Feb S	65.0	38.7	47.0	0.000	0.089	12	0	0	SSE	78	25	65	1003	
06-Feb M	68.1	42.0	59.5	0.000	0.089	13	0	0	W	80	24	51	995	
07-Feb T	61.3	52.3	52.5	0.120	0.074	20	0	2	SSW	85	36	84	1006	
08-Feb W	65.8	32.0	49.6	0.000	0.087	14	0	1	ENE	88	0	79	1012	
09-Feb T	68.9	43.6	52.4	0.000	0.087	10	0	2	S	83	40	78	1009	
10-Feb F	66.2	44.0	52.5	0.000	0.086	17	0	3	SSW	86	41	80	1005	
11-Feb S	57.7	49.4	49.4	0.010	0.083	13	0	6	SSW	87	66	78	1005	
12-Feb S	61.1	46.9	48.1	0.010	0.064	17	0	4	SSW	82	49	81	1002	
13-Feb M	52.5	40.7	41.0	0.040	0.064	22	0	0	E	86	61	86	1004	
14-Feb T	59.4	35.6	48.8	0.000	0.080	12	0	4	SW	92	40	77	1005	
15-Feb W	57.0	40.7	51.8	0.070	0.080	21	0	10	NNE	87	22	31	1008	
16-Feb T	67.0	43.3	43.4	0.000	0.154	17	0	1	NE	63	15	63	1011	
17-Feb F	68.1	38.5	51.6	0.000	0.154	15	0	2	SSW	87	30	86	1010	
18-Feb S	60.8	43.7	43.8	0.000	0.097	14	0	1	ENE	87	48	77	1008	
19-Feb S	56.6	38.1	46.3	0.000	0.083	15	0	0	NNW	82	31	78	1007	
20-Feb M	59.4	44.1	46.5	0.000	0.048	10	0	0	SE	80	57	77	1010	
21-Feb T	70.3	41.9	52.8	0.000	0.067	7	0	1	SE	83	37	73	1012	
22-Feb W	78.7	50.3	52.7	0.000	0.170	18	0	1	NW	77	16	70	1006	
23-Feb T	77.2	46.4	65.5	0.000	0.228	20	0	4	ENE	85	8	13	1002	
24-Feb F	76.0	50.6	50.6	0.000	0.254	22	0	7	SW	77	12	77	1009	
25-Feb S	62.7	44.0	44.7	0.000	0.138	15	0	0	ENE	80	26	66	1010	
26-Feb S	60.1	40.2	44.3	0.000	0.115	18	0	3	SSW	70	17	67	999	
27-Feb M	54.2	39.9	43.8	0.000	0.115	14	0	2	SW	75	40	75	1003	
28-Feb T	55.0	40.2	49.3	0.000	0.125	18	0	16	SSW	78	37	62	1007	
29-Feb W	54.2	45.0	45.1	0.250	0.000	27	0	2	SSW	88	52	84	1012	
TOTAL				0.500	3.042			76				2044		
AVERAGE				0.017	0.105			3				70	1006	
MAXIMUM	78.7			0.250	0.254	27		16		92		86	1012	
MINIMUM		32.0		0.000	0.000		0	0			0	13	995	

LIVERMORE WATER RECLAMATION PLANT

RECORD OF CLIMATOLOGICAL OBSERVATIONS

March 2012

Station No. : E50-4996-00

Alameda County

SCADA system updates data at 23:45 hrs.

DATE		Temperature Degree Fahrenheit Max.	Min.	At Obsn.	Precipitation Inch At Obsn.	Evaporation Inch At Obsn.	Wind Speed.(MPH) Max.	Min.	At Obsn.	Direction Deg	Humidity (Relative) % Max.	Min.	At Obsn.	Barometric Pressure mBar	Important weather conditions,remarks,etc.
01-Mar	T	55.7	42.7	42.7	0.010	0.023	18	0	1	ESE	85	65	81	1012	
02-Mar	F	62.3	38.5	45.0	0.000	0.141	17	0	0	ENE	85	19	63	1015	
03-Mar	S	67.9	39.0	49.8	0.000	0.118	14	0	0	NE	74	32	66	1012	
04-Mar	S	73.5	42.2	52.4	0.000	0.125	11	0	0	ESE	77	32	69	1006	
05-Mar	M	73.4	44.0	49.0	0.000	0.180	18	0	3	SW	82	18	81	1003	
06-Mar	T	58.4	44.7	47.7	0.020	0.167	25	0	6	W	89	13	27	1004	
07-Mar	W	62.9	43.2	45.2	0.000	0.199	17	0	0	W	46	13	43	1009	
08-Mar	T	70.8	39.0	49.5	0.000	0.135	9	0	0	NE	62	18	55	1014	
09-Mar	F	76.3	40.9	48.4	0.000	0.154	12	0	0	E	68	12	59	1007	
10-Mar	S	62.6	41.1	49.3	0.000	0.128	21	0	4	WNW	84	53	73	1004	
11-Mar	S	58.8	46.7	46.8	0.000	0.087	18	0	0	SSW	78	52	77	1004	
12-Mar	M	62.8	38.8	54.1	0.000	0.141	19	0	9	SSW	82	37	61	1001	
13-Mar	T	57.5	52.9	56.6	0.110	0.000	19	0	3	WSW	80	62	73	1002	
14-Mar	W	60.8	55.3	58.8	0.040	0.000	14	0	3	WSW	80	67	72	1006	
15-Mar	T	64.2	32.0	56.5	0.000	0.042	14	0	4	W	86	0	85	1005	
16-Mar	F	62.0	47.3	48.3	0.580	0.000	27	0	7	WSW	86	64	77	994	
17-Mar	S	50.4	41.4	45.6	0.020	0.039	20	0	7	WSW	88	57	69	991	
18-Mar	S	52.0	43.4	44.4	0.000	0.141	28	1	5	WSW	75	40	60	1001	
19-Mar	M	57.4	37.0	50.1	0.000	0.096	9	0	0	W	74	26	55	1006	
20-Mar	T	69.1	48.9	51.8	0.000	0.100	10	0	0	N	68	38	68	1008	
Mar	W	71.8	32.0	55.0	0.000	0.141	16	0	1	SW	84	37	82	1003	
-2-Mar	T	58.5	44.9	45.0	0.000	0.112	19	0	3	SSW	85	26	70	1004	
23-Mar	F	65.7	39.5	52.4	0.000	0.122	16	0	1	SSW	81	22	43	999	
24-Mar	S	53.7	44.2	44.5	0.420	0.000	17	0	3	NW	88	38	88	997	
25-Mar	S	55.8	42.2	47.2	0.540	0.000	13	0	2	SSW	89	61	81	1000	
26-Mar	M	59.7	43.8	51.5	0.000	0.135	18	0	3	SSW	84	36	55	1004	
27-Mar	T	60.5	50.1	54.8	0.350	0.000	26	0	3	S	82	51	80	1001	
28-Mar	W	65.9	52.5	52.5	0.010	0.077	15	0	2	S	82	44	80	1007	
29-Mar	T	65.9	46.5	54.5	0.000	0.109	17	0	4	NNW	86	39	80	1006	
30-Mar	F	68.1	52.2	60.0	0.000	0.138	17	0	1	SSE	84	52	65	999	
31-Mar	S	60.8	47.7	47.9	0.250	0.000	37	1	11	W	86	49	78	1004	
TOTAL					2.350	2.848			89				2117		
AVERAGE					0.076	0.092			3				68	1004	
MAXIMUM		76.3			0.580	0.199	37		11		89		88	1015	
MINIMUM			32.0		0.000	0.000		0	0			0	27	991	

LIVERMORE WATER RECLAMATION PLANT

RECORD OF CLIMATOLOGICAL OBSERVATIONS

April 2012

Station No. : E50-4996-00

Alameda County

SCADA system updates data at 23:45 hrs.

DATE		Temperature Degree Fahrenheit Max.	Min.	At Obsn.	Precipitation Inch At Obsn.	Evaporation Inch At Obsn.	Wind Speed.(MPH) Max.	Min.	At Obsn.	Direction Deg	Humidity (Relative) % Max.	Min.	At Obsn.	Barometric Pressure mBar	Important weather conditions,remarks,etc.
01-Apr	S	60.4	44.3	48.3	0.000	0.128	17	0	1	WNW	82	31	75	1011	
02-Apr	M	68.4	41.3	50.9	0.000	0.125	18	0	1	NW	82	28	73	1005	
03-Apr	T	66.1	47.8	50.5	0.020	0.119	19	0	8	WSW	86	37	80	1006	
04-Apr	W	59.5	42.5	47.1	0.000	0.170	20	0	7	WSW	85	29	61	1008	
05-Apr	T	57.3	39.0	45.3	0.000	0.151	21	0	4	SSW	75	31	69	1009	
06-Apr	F	64.1	39.0	49.2	0.000	0.125	10	0	0	N	80	23	59	1009	
07-Apr	S	70.9	38.5	52.3	0.000	0.147	13	0	1	NNE	74	25	60	1005	
08-Apr	S	74.5	43.1	49.2	0.000	0.176	20	0	0	SSW	75	18	69	1004	
09-Apr	M	72.3	43.6	53.5	0.000	0.131	18	0	8	WNW	74	13	55	999	
10-Apr	T	57.8	32.0	53.0	0.190	0.000	11	0	4	W	86	0	84	997	
11-Apr	W	59.3	49.8	53.1	0.090	0.003	21	0	2	S	87	51	69	1003	
12-Apr	T	62.9	45.9	46.8	0.710	0.000	22	0	4	ESE	89	33	88	998	
13-Apr	F	56.4	45.0	47.4	0.390	0.000	26	0	5	W	89	52	74	999	
14-Apr	S	63.8	45.7	50.4	0.000	0.154	15	0	1	NW	80	38	79	1007	
15-Apr	S	70.9	47.2	51.5	0.000	0.150	16	0	2	W	84	36	78	1010	
16-Apr	M	69.5	46.8	54.8	0.000	0.199	18	0	3	WNW	83	17	72	1009	
17-Apr	T	70.2	50.2	52.2	0.000	0.198	20	0	1	SW	83	34	75	1007	
Apr	W	70.6	50.4	56.4	0.000	0.167	17	0	3	WSW	81	39	80	1008	
-Apr	T	78.7	55.2	64.5	0.000	0.522	11	0	1	NE	84	46	73	1005	
20-Apr	F	88.5	58.2	67.7	0.000	0.234	11	0	2	NE	82	24	63	1001	
21-Apr	S	92.5	58.9	71.7	0.000	0.244	11	0	0	NE	74	23	63	997	
22-Apr	S	88.0	56.1	56.3	0.000	0.289	17	0	6	WNW	83	35	83	999	
23-Apr	M	72.0	55.9	59.8	0.000	0.231	21	2	4	SSW	85	46	70	1002	
24-Apr	T	73.9	56.8	59.7	0.000	0.151	17	0	4	WNW	76	46	72	1003	
25-Apr	W	74.5	58.4	58.9	0.140	0.000	16	0	2	SW	87	42	84	995	
26-Apr	T	61.8	50.7	51.1	0.050	0.115	23	0	2	SW	87	42	73	1009	
27-Apr	F	69.5	44.7	53.3	0.000	0.167	15	0	3	NW	79	28	75	1007	
28-Apr	S	75.7	49.0	56.2	0.000	0.192	16	0	4	WNW	82	36	76	999	
29-Apr	S	85.9	51.6	63.1	0.000	0.212	13	0	2	NW	80	24	64	999	
30-Apr	M	82.5	53.4	53.4	0.000	0.272	19	0	4	SSW	80	0	80	1001	
TOTAL					1.590	4.773			93				2176		
AVERAGE					0.053	0.159			3				73	1004	
MAXIMUM		92.5			0.710	0.522	26		8		89		88	1011	
MINIMUM			32.0		0.000	0.000		0	0			0	55	995	

C.4. Attachments

Stormwater Industrial and Commercial Inspection Plan

I. On an annual basis, the City shall performs stormwater inspections of all NOI facilities, Categorical Industrial Users permitted under the City's Pretreatment Program (CIU), General Industrial/Commercial Users permitted under the City's Pretreatment Program (GEN), Photo Processor Users permitted under the City's Pretreatment Program (PHOTO), and Wash Rack User permitted under the City's Pretreatment Program. The following table provides a specific list of these facilities:

Table 1.0

Facility Name	Type	Frequency
Harris Salinas Rebar	NOI/CIU	Annually
Inphenix	NOI/CIU	Annually
Packaging Innovators	NOI/CIU	Annually
Livermore Dublin Disposal	NOI/CIU	Annually
Livermore Municipal Airport	NOI/WR	Annually
Livermore Transit Authority	NOI/WR	Annually
Fenestra Winery	NOI	Annually
FormFactor	NOI/CIU	Annually
FormFactor	NOI/CIU	Annually
Wente Vineyards Estate Winery	NOI	Annually
Fabco Automotive Corporation	NOI	Annually
Schiffenhaus CA	NOI/GEN	Annually
U.S. Foods Service	NOI/WR	Annually
USP Structural Connectors	NOI	Annually
Integrated Manufacturing Group	NOI	Annually
Sanmina SCI	NOI	Annually

Facility Name	Type	Frequency
Ames Taping Tool Systems	GEN	Annually
Astro Pak	GEN	Annually
Culligan Water	GEN	Annually
Arrowhead Mountain Springs	GEN	Annually
Heritage Paper	GEN	Annually
National Food Laboratory	GEN	Annually
Packaging Innovators	GEN	Annually
Protein Research	GEN	Annually
E. Turman & Company	GEN	Annually
Golden Bear Packaging	GEN	Annually
Schiffenhaus	GEN	Annually
Costco	PHOTO	Annually
Rite Aid-1350 N. Vasco Rd.	PHOTO	Annually
SAVE Mart	PHOTO	Annually
Budget Car and Truck Rental	WR	Annually
California Landscape Dimensions, Inc.	WR	Annually
Clark Pest Control	WR	Annually
Cresco Equipment	WR	Annually
Enterprise Rent-A-Car	WR	Annually
Lassiter Excavating	WR	Annually
LAVTA	WR	Annually

Facility Name	Type	Frequency
Las Positas Golf Course	WR	Annually
Les Schwab Tire Center #647	WR	Annually
Livermore Chevron	WR	Annually
Livermore Municipal Airport	WR	Annually
MidCoast Transportation	WR	Annually
Penske Truck Leasing	WR	Annually
Power Washing Services	WR	Annually
Top Grade Construction	WR	Annually
Wal-Mart Tire & Lube Express	WR	Annually
Yamaha Golf Cars of CA	WR	Annually
Zone 7 Water Agency	WR	Annually
B & S Hacienda	WR	Annually
Bernard's Mini Mart	WR	Annually
Cactus Car Wash	WR	Annually
Cal Trans	WR	Annually
First Street-Henderlong	WR	Annually
Groth Brothers	WR	Annually
Harris Salinas Reinforcing	WR	Annually
Hawthorne LLC	WR	Annually
LPFD Fire Station 6	WR	Annually
LPFD Fire Station 7	WR	Annually

Facility Name	Type	Frequency
LPFD Fire Station 8	WR	Annually
LPFD Fire Station 10	WR	Annually
L Street Car Wash	WR	Annually
Las Positas Shell	WR	Annually
Livermore Audi	WR	Annually
Livermore Car Wash	WR	Annually
Livermore Dublin Disposal	WR	Annually
Livermore Honda	WR	Annually
Livermore Jaguar	WR	Annually
Livermore Porsche	WR	Annually
Livermore Subaru	WR	Annually
Livermore Police Department	WR	Annually
Mathew's Machinery	WR	Annually
Boat Masters	WR	Annually
City of Livermore, MSC	WR	Annually
Dun-Rite	WR	Annually
Hertz Equipment Rental	WR	Annually
Interstate Storage	WR	Annually
JCs RVs	WR	Annually
Livermore Auto Group-2232 Kitty Hawk	WR	Annually
Livermore Auto Group-2266 Kitty Hawk	WR	Annually

Facility Name	Type	Frequency
Livermore Auto Group-2304 Kitty Hawk	WR	Annually
Mountain Cascade	WR	Annually
Olympic Boat Centers	WR	Annually
Quentin Bammer/Moeller Bros.	WR	Annually
R. Lance & Sons	WR	Annually
SAB Stanley Shell	WR	Annually
SpeeDee Wash	WR	Annually
Sunbelt Rentals	WR	Annually
U.S. Foodservice	WR	Annually
Vasco 76	WR	Annually
Vasco Road Chevron	WR	Annually
White Oak Landscaping	WR	Annually

II. The 5-Year inspection plan detailed below outlines how the City of Livermore will prioritize it's inspection to adequately address the requirements of Provision C.4.b.:

Fiscal Year 2009/2010: All Pretreatment and NOI Facilities identified in Table 1.0 (91 Facilities)

All Facilities Listed under SIC 3599, Industrial and Commercial Machinery and Equipment (19 Facilities)

All Facilities Listed under SIC 3679, Electronic Components Manufacturing (5 Facilities)

All Facilities Listed under SIC 3089, Plastic Products (3 Facilities)

FY 2009/2010: Goal-99 Facility Inspections

Fiscal Year 2010/2011: All Pretreatment and NOI Facilities identified in Table 1.0 (91 Facilities)

All Facilities Listed under SIC 7532, Automotive Body Shops, and

All Facilities Listed under SIC 7538, Automotive Repair Shops (47 Facilities)

All Facilities Listed under SIC 5541, Gasoline Service Stations (27 Facilities)

FY 2010/2011- 165 Facility Inspections

Fiscal Year 2011/2012: All Pretreatment and NOI Facilities identified in Table 1.0 (91 Facilities)

All Facilities Listed under SIC 5812, (149 Facilities)

FY 2011/2012- 240 Facility Inspections

Fiscal Year 2012/2013: All Pretreatment and NOI Facilities identified in Table 1.0 (91 Facilities)

All Facilities Listed under SIC 8711, Engineering Services (17 Facilities)

All Facilities Listed under SIC 8731, R&D Labs-Commercial (5 Facilities)

All Facilities Listed under SIC 8734, Testing Labs (2 Facilities)

All Facilities Listed under SIC 5093, Scrap & Waste Materials (2 Facilities)

All Facilities Listed under SIC 4212, Local Trucking (5 Facilities)

All Facilities Listed under SIC 5261, Retail Nurseries (4 Facilities)

All Facilities Lister under SIC 5211, Lumber and Other Building Material Dealers (7 Facilities)

FY 2012/2013- 133 Facility Inspections

Fiscal Year 2013/2014: All Pretreatment and NOI Facilities identified in Table 1.0 (91 Facilities)

All Facilities Listed under SIC, Restaurant with a Grease Trap or No Grease Removal Device (102 Facilities)

FY 2013/2014- 193 Facility Inspections

The "number" of facilities listed under each SIC in this 5-Year Inspection plan is based upon a query of the City's Business License Database performed in January 2010. Prior to each fiscal year, a new query of the database shall be performed to get the most updated figure for that year's facility type scheduled to be inspected.

C.9. Attachments

ORKIN
COMMERCIAL SERVICES

Orkin Integrated Pest Management Program

Orkin Commercial Services understands your strict need for highly effective *and* environmentally responsible pest control. While other pest control companies may only respond to problems, we take a proactive approach to help keep pests out. Here's a summary of our proposed program, which can help you achieve pest management excellence:

Service: Interior and exterior[1] pest management in accordance with the principles of Integrated Pest Management (IPM). IPM is an environmentally responsible approach to pest management that relies on a combination of practices. By taking advantage of all pest management options, starting with non-chemical techniques, IPM programs proactively manage pests and help minimize any hazard to people, property or the environment.

Service Frequency: An Orkin Commercial Pest Specialist will service your location (checked): x□ 1 time □ 2 times □ 3 times □ 4 times per □ day □ week ⊟ **monthly service for 12 months**

Pest Coverage: Rats, mice, cockroaches, ants and occasional invaders (e.g., beetles, centipedes, slugs). Coverage excludes: flies, fire ants, pharaoh ants, carpenter ants, birds, bed bugs, termites and fumigation treatments. (Excluded pests can be serviced under separate contracts with unique guarantees and service protocols.)

Documentation: Written reports and recommendations will be provided and reviewed with the designated facility representative following each regular service visit. Additional copies will be filed at your local Orkin branch office.

Quality Assurance: Orkin's IPM program is backed by our Quality Assurance program, which guarantees the service you receive meets Orkin's high quality standards – and your own. A follow-up visit by your Orkin Account Manager will be scheduled within 60 days of your initial service. In addition, Orkin's independent Pest and Termite Control Quality Assurance Department regularly audits the services provided by our branch locations to ensure they meet the Orkin standard.

Emergency Service: Included at no extra charge and guaranteed within 24 hours of your call to Orkin, 365 days per year.

Materials: All forms of monitor boards and product formulations, as required, are included.

Insurance: Orkin Commercial Services is fully insured with personal liability and property damage to a limit of $10,000,000.

Triple Guarantee:

- *24-Hour Response Guarantee* – Your request will be responded to within 24 hours, 365 days per year.
- *Satisfaction Guarantee* – Total satisfaction or you don't pay. We'll pay the reasonable cost of initial service by another provider if you're still not satisfied after 60 days of service.
- *Reimbursement Guarantee*[2] – Should your company be fined by a regulatory agency due solely to a pest infestation, Orkin will reimburse you for any fines paid, up to $50,000.

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[1] Exterior coverage extends to property boundaries unless otherwise indicated.

[2] Your account must be current, under contract over 60 days, and your business must be compliant with sanitation and structural requests as noted on Orkin Service Reports.

GREEN PRO CERTIFIED Eco-Effective Pest Control

GREENPRO

Eco-Effective Pest Control

Presenting this certificate of excellence to

Orkin Pest Control

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

Orkin Commercial Services understands your strict need for highly effective and environmentally responsible pest control. We take a proactive approach to help keep pests out. Here is a summary of our proposed program, which can help you achieve pest management excellence:

Services: Interior and exterior pest management in accordance with the principles of Integrated Pest Management (IPM). Including attention to the Stipulated Injunction ordered by the U.S. District Court for the Northern District of California, restricting the use of 75 pesticides in eight San Francisco Bay area counties to protect 11 federally listed threatened or endangered species. IPM is an environmentally responsible approach to pest management that relies on a combination of practices, starting with non-chemical techniques (minimizing any hazards to people, property, or the environment). Orkin will inspect the property and work with the designated property manager to investigate the source of the problem – and eliminate it – before applying pesticides by providing recommendations to address education, sanitation/maintenance, exclusion, and trapping where needed. This approach is in accordance with EcoWise, Greenshield, and GreenPro strategies for managing specific pests.

Pesticides: In the rare event that all other methods of pest control have been exhausted and a pesticide must be utilized to eliminate an infestation, pesticides that may be used are in accordance to the San Francisco Reduced Risk Pesticide List, Tier III (least toxic). A list of these pesticides is included below for your reference. All pesticides are applied according to the product label and any pertinent state and federal regulations. Pesticide products are the responsibility of Orkin and are not stored at any client location. At no time shall a pesticide be applied in a waterway or within 100 ft. of a waterway that may subject the waterway to become contaminated by drift or runoff.

Quality Assurance: Orkin's IPM program is backed by our Quality Assurance program, which guarantees the service you receive meets Orkin's high quality standards, GreenPro program standards – and your own. Our service specialists and operations management are licensed by the State of California Structural Pest Control Board. Orkin is certified under the Greenpro standard and is a gold member of the US EPA Pesticide Environmental Stewardship Program. Service specialists at our location are in the process of completing their individual Greenpro certifications at this time.

Documentation: Orkin will provide a copy of a Service Report at each service. This report will include all of the details of the service performed (actions taken, pesticides applied (if any), structural/maintenance/sanitation recommendations to address pest conducive conditions, etc.). We will also provide a quarterly summary of the pesticides used at the following service locations:

Livermore Public Library
1188 S. Livermore Ave.
Livermore, CA 94550

Livermore Police Department
1110 S. Livermore Ave.
Livermore, CA 94550

Livermore City Hall
1052 S. Livermore Ave
Livermore, CA 94550

Livermore Water Treatment Plant
101 W. Jack London Blvd.
Livermore, CA 94551

Fire Station #6
4550 East Ave.
Livermore, CA 94550

Livermore Airport
636 Terminal Circle
Livermore, CA 94551

Livermore Chamber of Commerce
2157 1st St.
Livermore, CA 94550

Fire Station #9
1919 Cordoba St.
Livermore, CA 94550

Springtown Library
998 Bluebell Dr.
Livermore, CA 94551

Old Public Library
1000 S. Livermore Ave.
Livermore, CA 94550

Maintenance Service Center
3500 Robertson Park Rd.
Livermore, CA 94550

City of Livermore
2388 2nd St.
Livermore, CA 94550

City of Livermore
725 Rincon Ave.
Livermore, CA 94550

Fire Station #7
951 Rincon Ave.
Livermore, CA 94550

Fire Station #8
5750 Scenic Ave.
Livermore, CA 94551

Fire Station #10
330 Airway Blvd.
Livermore, CA 94551

Council Chambers
3575 Pacific Ave.
Livermore, CA 94550

Multi Service Center
3311 Pacific Ave.
Livermore, CA 94550

Livermore Gateway Business
101 Pullman St.
Livermore, CA 94551

San Francisco Reduced Risk Pesticide List, Tier III

- **Dupont Advion Ant Bait Arena**, Indoxacarb 0.1%, EPA: 352-664
- **Dupont Advion Ant Gel**, Indoxacarb 0.05%, EPA: 352-746
- **Dupont Advion Cockroach Bait Arena**, Indoxacarb 0.5%, EPA: 352-668
- **Dupont Advion Cockroach Gel Bait**, Indoxacarb 0.6%, EPA: 352-652
- **Prentiss EcoExempt G**, Eugenol (clove oil) 2.9%, EPA: exempt
- **Wellmark Gentrol Point Source Roach Control Device**, Hydroprene 96%, EPA: 2724-469
- **Bayer Maxforce FC Professional Insect Control Roach Killer Bait Gel**, Fipronil 0.01%, EPA: 432-1259
- **Nisus Niban Granular Bait**, Boric Acid 5%, EPA: 64405-2
- **Victor Poison Free Flying Insect Killer**, Mint Oil 4.0%, Sodium Lauryl Sulfate 0.1%, EPA: exempt
- **Victor Poison Free Wasp and Hornet Killer**, Mint Oil 8.0%, Sodium Lauryl sulfate 1.0%, EPA: exempt
- **Zoecon Gentrol IGR Concentrate**, Hydroprene 9%, EPA: 2724-351

State of California
PR-ENF-060

Yearly Summary Pesticide Use Report
Maintenance Division -City of Livermore

01-10-017077R	80257 D.Lara	Alameda	01	FY 09/10	1327
Operator ID/Permit #	License Number	County	County #	Month/Year of Use	Total # of Applications

Manufacturer and Name of Product	EPA #	Total Product Used	Unit of Measure (LB, OZ, GA, PT, QT)	# of Applications	Code
Round up	524-475	249.59	GA	916	30
Fusilade	100-1084	22.82	OZ	22	30
Turflon	62719-258	20.57	OZ	56	30
Merit 75	432-1314	3.61	LBS	39	30
Merit	3125-421	0.17	OZ	1	30
Aquamaster	524-343	37.50	OZ	3	30
Atrimmec	2217-776	11.02	GA	11	30
Gallery	62719-145	194.30	LBS	129	30
Surflan A.S.	70506-44	34.86	GA	150	30
Tank Mix					

Report Prepared By

Date

State of California
PR-ENF-060

Yearly Summary Pesticide Use Report
Maintenance Division -City of Livermore

01-12-017077R	80257 D.Lara	Alameda	01	FY 11/12	1372
Operator ID/Permit #	License Number	County	County #	Month/Year of Use	Total # of Applications

Manufacturer and Name of Product	EPA #	Total Product Used	Unit of Measure (LB, OZ, GA, PT, QT)	# of Applications	Code
Turflon	62719-566	1.97	GA	93	30
Fusilade II	100-1084	0.07	OZ	2	30
Merit 75	432-1314	2.23	LBS	19	30
Roundup ProMax	524-579	198.20	GA	1000	30
Atrimmec	2217-776	4.69	GA	4	30
Gallery 75	62719-145	325.95	LBS	143	30
Surflan AS	70506-44	114.90	GA	109	30
Safari 20 SG	86203-11	12.00	LBS	2	30
					30
		Tank Mix			

Kathy Hughes
Report Prepared By

Date

State of California
PR-ENF-060

Yearly Summary Pesticide Use Report
Maintenance Division -City of Livermore

01-11-017077R	80257 D.Lara	Alameda	01	FY 10/11	1428
Operator ID/Permit #	License Number	County	County #	Month/Year of Use	Total # of Applications

Manufacturer and Name of Product	EPA #	Total Product Used	Unit of Measure (LB, OZ, GA, PT, QT)	# of Applications	Code
Round up	524-475	27.04	GA	257	30
Roundup Promax	524-579	218.38	OZ	647	30
Turflon	62719-258	4.78	OZ	97	30
Fusilade II	100-1084	17.84	OZ	39	30
Merit 75	432-1314	0.29	LBS	9	30
Aquamaster	524-343	9.00	OZ	1	30
Gallery	62719-145	294.79	LBS	318	30
Atrimmec	2217-776	6.55	GA	21	30
Surflan A.S.	70506-44	3.20	GA	21	30
Tank Mix					
Gallery	524-579	3.16	LBS	18	
Roundup ProMax	62719-145	3.70	GA		

Kathy Hughes
Report Prepared By

Date

FY 201/2011 Total Usage- Orkin

Location	Address	City	AVERT DRY BAIT Abamectin 0.050%	BORID Orthoboric Acid 99%	CONTRAC BLOX Bromadiolone .005%	Eco Exempt-D 2Phenethyl Propionate 4.5% Clove oil 1.75%	Eco Exempt 1-C Rosemary oil 10.0%	Gentrol IGR Concentrate Hydroprene 9%	Maxforce Ant Bait Stations Fipronil 0.01%	Maxforce Ant Bait Gel Fipronil 0.001%	Maxforce Roach Bait Gel Hydramethylnon 2.15%	Maxforce Roach Bait Stations Hydramethylnon 2.0%	Niban F-G Orthoboric Acid 5.0%	Perma-Dust Boric Acid 35.5%	Victor Wasp-Hornet Killer Mint oil 8.0%	Trapper rat glue Board	Glue mouse Board	EcoPco Acu 2- phenethly Propionate 0.10%	fly glue Board	Talstar Professional Bifenthrin 7.9%	CyCick Aeresol Cyfluthrin .1%	CyCick CS Cyfluthrin 6%	LarvaLur Phenyl Methylcarbamate 2%	Talstar Granuals Bifenthrin .2%
			GR	OZ	OZ	OZ	OZ	OZ	EA	GR	GR	EA	OZ	OZ	OZ	EA	EA	OZ	EA	OZ	OZ	OZ	OZ	OZ
Livermore Public Library	1188 S. Livermore Ave.	Livermore	0	0	24	0	7.5	0	0	0	0	0	0	0	0	0	36	0	0	0	0	0	0	0
Livermore Police Department	1110 S. Livermore Ave.	Livermore	0	0	108	0	16	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	16
Livermore City Hall	1052 S. Livermore Ave.	Livermore	0	0	80	0	7	0	0	0	0	0	0	0	0	0	33	0	0	0	0	0	0	0
Livermore Water Treatment Plant	101 W. Jack London Blvd.	Livermore	5	0	116	0	51	0	1	0	0	0	0	0	0	28	124	0	0	2	0	0	10	0
Fire Station #6	4550 East Ave.	Livermore	0	0	22	0	11.5	0	0	0	0	0	0	0	0	4	5	0	0	0.5	0	0	0	0
Livermore Airport	636 Terminal Circle	Livermore	0	0	79	0	7.5	0	0	0	0	0	0	0	0	2	69	0	0	0	4.5	1	0	0
Livermore Chamber of Commerce	2157 1st St.	Livermore	0	0	0	0	1	0	0	0	0	0	1	0	0	0	39	0	0	2	0	1	3.5	0
Fire Station #9	1919 Cordoba St.	Livermore	0	0	26	0	9	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
Springtown Library	998 Bluebell Dr.	Livermore	0	0	10	0	8	0	0	1	0	0	0	0	0	0	28	0	0	0	0	0	0	0
Old Public Library	1000 S. Livermore Ave.	Livermore	0	0	36	0	12	0	0	0	0	0	0	0	0	2	10	0	0	0	4	0	0	0
Maintenance Service Center	3500 Robertson Park Rd.	Livermore	0	0	103	0	17	0	0	0	0	0	0	4	0	0	46	0	0	0	0	0	0	0
City of Livermore	2388 2nd St.	Livermore	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	1.5	1	1	0	0
City of Livermore Library	725 Rincon Ave.	Livermore	0	0	22	0	6	0	0	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0
Fire Station #7	951 Rincon Ave.	Livermore	0	0	8	0	11	0	0	0	0	0	0	0	0	0	13	6	0	0.5	0	0	6	0
Fire Station #8	5750 Scenic Ave.	Livermore	0	0	44	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fire Station #10	330 Airway Blvd.	Livermore	0	0	34	0	9.5	0	0	0	0	0	0	0	0	14	36	6	0	0	6	0	0	0
Council Chambers	3575 Pacific Ave.	Livermore	0	0	62	0	6.5	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	8
Multi Service Center	3311 Pacific Ave.	Livermore	0	0	66	0	8.5	0	0	0	0	0	0	0	0	0	19	4	0	0	0	0	0	8
Livermore Parking Garage	2350 Railroad Ave.	Livermore	0	0	43	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Totals:	5	0	840	0	204	0	1	1	0	0	1	4	0	50	513	16	0	7	15.5	3	19.5	32

Location	Address	City	AVERT DRY BAIT Abamectin 0.050%	BORID Orthoboric Acid 99%	CONTRAC BLOX Bromadiolone .005%	Eco Exempt-D 2Phenethyl Propionate 4.5% Clove oil 1.75%	Eco Exempt 1-C Rosemary oil 10.0%	Gentrol IGR Concentrate Hydroprene 9%	Maxforce Ant Bait Stations Fipronil 0.01%	Maxforce Ant Bait Gel Fipronil 0.001%	Maxforce Roach Bait Gel Hydramethylnon 2.15%	Maxforce Roach Bait Stations Hydramethylnon 2.0%	Niban F-G Orthoboric Acid 5.0%	Perma-Dust Boric Acid 35.5%	Victor Wasp-Hornet Killer Mint oil 8.0%	Trapper rat glue Board	Glue mouse Board	EcoPco Acu 2- phenethly Propionate 0.10%	fly glue Board	Talstar Professional Bifenthrin 7.9%	CyCick Aeresol Cyfluthrin .1%	CyCick CS Cyfluthrin 6%	LarvaLur Phenyl Methylcarbamate 2%	Talstar Granuals Bifenthrin .2%
			GR	OZ	OZ	OZ	OZ	OZ	EA	GR	GR	EA	OZ	OZ	OZ	EA	EA	OZ	EA	OZ	OZ			
Livermore Public Library	1188 S. Livermore Ave.	Livermore			2		1										4							
Livermore Police Department	1110 S. Livermore Ave.	Livermore			14		1										5							
Livermore City Hall	1052 S. Livermore Ave.	Livermore			8		1										3							
Livermore Water Treatment Plant	101 W. Jack London Blvd.	Livermore			18		8									6	9			2				
Fire Station #6	4550 East Ave.	Livermore			2		1																	
Livermore Airport	636 Terminal Circle	Livermore			6		1									2	4				0.5			
Livermore Chamber of Commerce	2157 1st St.	Livermore					1										3							
Fire Station #9	1919 Cordoba St.	Livermore			4		1																	
Springtown Library	998 Bluebell Dr.	Livermore			2		0.5										2							
Old Public Library	1000 S. Livermore Ave.	Livermore			2		2																	
Maintenance Service Center	3500 Robertson Park Rd.	Livermore			14		4							4			5							
City of Livermore	2388 2nd St.	Livermore																			1			
City of Livermore Library	725 Rincon Ave.	Livermore			2		1										2							
Fire Station #7	951 Rincon Ave.	Livermore			2		3										4	6						
Fire Station #8	5750 Scenic Ave.	Livermore			4		2																	
Fire Station #10	330 Airway Blvd.	Livermore					1																	
Council Chambers	3575 Pacific Ave.	Livermore			8		1																	
Multi Service Center	3311 Pacific Ave.	Livermore			5		2																	
Livermore Parking Garage	2350 Railroad Ave.	Livermore			10		0.5																	
		Totals:	0	0	103	0	32	0	0	0	0	0	0	4	0	8	41	6	0	2	1.5			

Location	Address	City	AVERT DRY BAIT Abamectin 0.050%	BORID Orthoboric Acid 99%	CONTRAC BLOX Bromadiolone .005%	Eco Exempt-D 2Phenethyl Propionate 4.5% Clove oil 1.75%	Eco Exempt 1-C Rosemary oil 10.0%	Gentrol IGR Concentrate Hydroprene 9%	Maxforce Ant Bait Stations Fipronil 0.01%	Maxforce Ant Bait Gel Fipronil 0.001%	Maxforce Roach Bait Gel Hydramethylnon 2.15%	Maxforce Roach Bait Stations Hydramethylnon 2.0%	Niban F-G Orthoboric Acid 5.0%	Perma-Dust Boric Acid 35.5%	Victor Wasp-Hornet Killer Mint oil 8.0%	Trapper rat glue Board	Glue mouse Board	EcoPco Acu 2- phenethly Propionate 0.10%	fly glue Board	Talstar Professional Bifenthrin 7.9%	CyCick Aeresol Cyfluthrin .1%	CyCick CS Cyfluthrin 6%	LarvaLur Phenyl Methylcarbamate 2%	Talstar Granuals Bifenthrin .2%
			GR	OZ	OZ	OZ	OZ	OZ	EA	GR	GR	EA	OZ	OZ	OZ	EA	EA	OZ	EA	OZ	OZ	OZ		
Livermore Public Library	1188 S. Livermore Ave.	Livermore			4		2										4							
Livermore Police Department	1110 S. Livermore Ave.	Livermore			8		2										7							
Livermore City Hall	1052 S. Livermore Ave.	Livermore			10		1										3							
Livermore Water Treatment Plant	101 W. Jack London Blvd.	Livermore			12		11										9							
Fire Station #6	4550 East Ave.	Livermore			2		2																	
Livermore Airport	636 Terminal Circle	Livermore			14		1										6			4				
Livermore Chamber of Commerce	2157 1st St.	Livermore															3		0.5					
Fire Station #9	1919 Cordoba St.	Livermore			3		1																	
Springtown Library	998 Bluebell Dr.	Livermore			2		1										3							
Old Public Library	1000 S. Livermore Ave.	Livermore			4		2																	
Maintenance Service Center	3500 Robertson Park Rd.	Livermore			12		5										6							
City of Livermore	2388 2nd St.	Livermore																	1					
City of Livermore Library	725 Rincon Ave.	Livermore			2		1										2							
Fire Station #7	951 Rincon Ave.	Livermore																						
Fire Station #8	5750 Scenic Ave.	Livermore			6		2																	
Fire Station #10	330 Airway Blvd.	Livermore			4		1										6							
Council Chambers	3575 Pacific Ave.	Livermore			8		1																	
Multi Service Center	3311 Pacific Ave.	Livermore			8		1										3							
Livermore Parking Garage	2350 Railroad Ave.	Livermore																						
		Totals:	0	0	99	0	34	0	0	0	0	0	0	0	0	0	52	0	0	1.5	4	0		

Location	Address	City	AVERT DRY BAIT Abamectin 0.050%	BORID Orthoboric Acid 99%	CONTRAC BLOX Bromadiolone .005%	Eco Exempt-D 2Phenethyl Propionate 4.5% Clove oil 1.75%	Eco Exempt 1-C Rosemary oil 10.0%	Gentrol IGR Concentrate Hydroprene 9%	Maxforce Ant Bait Stations Fipronil 0.01%	Maxforce Ant Bait Gel Fipronil 0.001%	Maxforce Roach Bait Gel Hydramethylnon 2.15%	Maxforce Roach Bait Stations Hydramethylnon 2.0%	Niban F-G Orthoboric Acid 5.0%	Perma-Dust Boric Acid 35.5%	Victor Wasp-Hornet Killer Mint oil 8.0%	Trapper rat glue Board	Glue mouse Board	EcoPco Acu 2- phenethly Propionate 0.10%	fly glue Board	Talstar Professional Bifenthrin 7.9%	CyCick Aeresol Cyfluthrin .1%	CyCick CS Cyfluthrin 6%	LarvaLur Phenyl Methylcarbamate 2%	Talstar Granuals Bifenthrin .2%
			GR	OZ	OZ	OZ	OZ	OZ	EA	GR	GR	EA	OZ	OZ	OZ	EA	EA	OZ	EA	OZ	OZ	OZ		
Livermore Public Library	1188 S. Livermore Ave.	Livermore																						
Livermore Police Department	1110 S. Livermore Ave.	Livermore			12		3																	
Livermore City Hall	1052 S. Livermore Ave.	Livermore			10		2										3							
Livermore Water Treatment Plant	101 W. Jack London Blvd.	Livermore			6		8		1								8							
Fire Station #6	4550 East Ave.	Livermore					2																	
Livermore Airport	636 Terminal Circle	Livermore			10		1										7					0.5		
Livermore Chamber of Commerce	2157 1st St.	Livermore															3					0.5		
Fire Station #9	1919 Cordoba St.	Livermore			2		1																	
Springtown Library	998 Bluebell Dr.	Livermore			2		1										3							
Old Public Library	1000 S. Livermore Ave.	Livermore			4											2					4			
Maintenance Service Center	3500 Robertson Park Rd.	Livermore			10		2										4							
City of Livermore	2388 2nd St.	Livermore																				0.5		
City of Livermore Library	725 Rincon Ave.	Livermore			2		1										2							
Fire Station #7	951 Rincon Ave.	Livermore					1																	
Fire Station #8	5750 Scenic Ave.	Livermore			4		1																	
Fire Station #10	330 Airway Blvd.	Livermore			4		0.5										6							
Council Chambers	3575 Pacific Ave.	Livermore			4		1																	
Multi Service Center	3311 Pacific Ave.	Livermore			6		1																	
Livermore Parking Garage	2350 Railroad Ave.	Livermore			8		1																	
		Totals:	0	0	84	0	26.5	0	1	0	0	0	0	0	0	2	36	0	0	0	4	1.5		

Location	Address	City	AVERT DRY BAIT Abamectin 0.050%	BORID Orthoboric Acid 99%	CONTRAC BLOX Bromadiolone .005%	Eco Exempt-D 2Phenethyl Propionate 4.5% Clove oil 1.75%	Eco Exempt 1-C Rosemary oil 10.0%	Gentrol IGR Concentrate Hydroprene 9%	Maxforce Ant Bait Stations Fipronil 0.01%	Maxforce Ant Bait Gel Fipronil 0.001%	Maxforce Roach Bait Gel Hydramethylnon 2.15%	Maxforce Roach Bait Stations Hydramethylnon 2.0%	Niban F-G Orthoboric Acid 5.0%	Perma-Dust Boric Acid 35.5%	Victor Wasp-Hornet Killer Mint oil 8.0%	Trapper rat glue Board	Glue mouse Board	EcoPco Acu 2- phenethly Propionate 0.10%	fly glue Board	Talstar Professional Bifenthrin 7.9%	CyCick Aeresol Cyfluthrin .1%	CyCick CS Cyfluthrin 6%	LarvaLur Phenyl Methylcarbamate 2%	Talstar Granuals Bifenthrin .2%
			GR	OZ	OZ	OZ	OZ	OZ	EA	GR	GR	EA	OZ	OZ	OZ	EA	EA	OZ	EA	OZ	OZ	OZ	OZ	
Livermore Public Library	1188 S. Livermore Ave.	Livermore			2		1										4							
Livermore Police Department	1110 S. Livermore Ave.	Livermore			14		2																	
Livermore City Hall	1052 S. Livermore Ave.	Livermore			10		1										2							
Livermore Water Treatment Plant	101 W. Jack London Blvd.	Livermore			18		5										11							
Fire Station #6	4550 East Ave.	Livermore			2		1																	
Livermore Airport	636 Terminal Circle	Livermore			10		1.5										7							
Livermore Chamber of Commerce	2157 1st St.	Livermore															3						1	
Fire Station #9	1919 Cordoba St.	Livermore					1																	
Springtown Library	998 Bluebell Dr.	Livermore					1										2							
Old Public Library	1000 S. Livermore Ave.	Livermore			6		1										3							
Maintenance Service Center	3500 Robertson Park Rd.	Livermore			12		2										4							
City of Livermore	2388 2nd St.	Livermore																	0.5					
City of Livermore Library	725 Rincon Ave.	Livermore			2		1										2							
Fire Station #7	951 Rincon Ave.	Livermore			2		1										2							
Fire Station #8	5750 Scenic Ave.	Livermore			4		1																	
Fire Station #10	330 Airway Blvd.	Livermore			6											2	5							
Council Chambers	3575 Pacific Ave.	Livermore			8		1																	
Multi Service Center	3311 Pacific Ave.	Livermore			8		1										2							
Livermore Parking Garage	2350 Railroad Ave.	Livermore																						
		Totals:	0	0	104	0	21.5	0	0	0	0	0	0	0	0	2	47	0	0	0.5	0	0	1	

Location	Address	City	AVERT DRY BAIT Abamectin 0.050%	BORID Orthoboric Acid 99%	CONTRAC BLOX Bromadiolone .005%	Eco Exempt-D 2Phenethyl Propionate 4.5% Clove oil 1.75%	Eco Exempt 1-C Rosemary oil 10.0%	Gentrol IGR Concentrate Hydroprene 9%	Maxforce Ant Bait Stations Fipronil 0.01%	Maxforce Ant Bait Gel Fipronil 0.001%	Maxforce Roach Bait Gel Hydramethylnon 2.15%	Maxforce Roach Bait Stations Hydramethylnon 2.0%	Niban F-G Orthoboric Acid 5.0%	Perma-Dust Boric Acid 35.5%	Victor Wasp-Hornet Killer Mint oil 8.0%	Trapper rat glue Board	Glue mouse Board	EcoPco Acu 2- phenethly Propionate 0.10%	fly glue Board	Talstar Professional Bifenthrin 7.9%	CyCick Aeresol Cyfluthrin .1%	CyCick CS Cyfluthrin 6%	LarvaLur Phenyl Methylcarbamate 2%	Talstar Granuals Bifenthrin .2%
			GR	OZ	OZ	OZ	OZ	OZ	EA	GR	GR	EA	OZ	OZ	OZ	EA	EA	OZ	EA	OZ	OZ	OZ	OZ	OZ
Livermore Public Library	1188 S. Livermore Ave.	Livermore			2		1										3							
Livermore Police Department	1110 S. Livermore Ave.	Livermore			2		1										4							
Livermore City Hall	1052 S. Livermore Ave.	Livermore			10												2							
Livermore Water Treatment Plant	101 W. Jack London Blvd.	Livermore			8		5									2	9							
Fire Station #6	4550 East Ave.	Livermore			2		1																	
Livermore Airport	636 Terminal Circle	Livermore			8		1										10							
Livermore Chamber of Commerce	2157 1st St.	Livermore											1				4			0.5				
Fire Station #9	1919 Cordoba St.	Livermore			3		1																	
Springtown Library	998 Bluebell Dr.	Livermore					1										2							
Old Public Library	1000 S. Livermore Ave.	Livermore			4		2																	
Maintenance Service Center	3500 Robertson Park Rd.	Livermore			8		1										4							
City of Livermore	2388 2nd St.	Livermore					1																	
City of Livermore Library	725 Rincon Ave.	Livermore			2		1										2							
Fire Station #7	951 Rincon Ave.	Livermore					1																	
Fire Station #8	5750 Scenic Ave.	Livermore			4		2																	
Fire Station #10	330 Airway Blvd.	Livermore			4		1									2	2							
Council Chambers	3575 Pacific Ave.	Livermore			6																			8
Multi Service Center	3311 Pacific Ave.	Livermore			4																			8
Livermore Parking Garage	2350 Railroad Ave.	Livermore			8		1																	
		Totals:	0	0	75	0	21	0	0	0	0	0	1	0	0	4	42	0	0	0.5	0	0	0	16

Location	Address	City	AVERT DRY BAIT Abamectin 0.050%	BORID Orthoboric Acid 99%	CONTRAC BLOX Bromadiolone .005%	Eco Exempt-D 2Phenethyl Propionate 4.5% Clove oil 1.75%	Eco Exempt 1-C Rosemary oil 10.0%	Gentrol IGR Concentrate Hydroprene 9%	Maxforce Ant Bait Stations Fipronil 0.01%	Maxforce Ant Bait Gel Fipronil 0.001%	Maxforce Roach Bait Gel Hydramethylnon 2.15%	Maxforce Roach Bait Stations Hydramethylnon 2.0%	Niban F-G Orthoboric Acid 5.0%	Perma-Dust Boric Acid 35.5%	Victor Wasp-Hornet Killer Mint oil 8.0%	Trapper rat glue Board	Glue mouse Board	EcoPco Acu 2- phenethly Propionate 0.10%	fly glue Board	Talstar Professional Bifenthrin 7.9%	CyCick Aeresol Cyfluthrin .1%	CyCick CS Cyfluthrin 6%	LarvaLur Phenyl Methylcarbamate 2%	Talstar Granuals Bifenthrin .2%
			GR	OZ	OZ	OZ	OZ	OZ	EA	GR	GR	EA	OZ	OZ	OZ	EA	EA	OZ	EA	OZ	OZ	OZ	OZ	OZ
Livermore Public Library	1188 S. Livermore Ave.	Livermore			2		1										3							
Livermore Police Department	1110 S. Livermore Ave.	Livermore			14																			16
Livermore City Hall	1052 S. Livermore Ave.	Livermore			8												4							
Livermore Water Treatment Plant	101 W. Jack London Blvd.	Livermore			11		2									6	11							
Fire Station #6	4550 East Ave.	Livermore			2		1																	
Livermore Airport	636 Terminal Circle	Livermore			6		0.5										4							
Livermore Chamber of Commerce	2157 1st St.	Livermore															2			0.5				
Fire Station #9	1919 Cordoba St.	Livermore			4		0.5																	
Springtown Library	998 Bluebell Dr.	Livermore					0.5										2							
Old Public Library	1000 S. Livermore Ave.	Livermore			4		1										2							
Maintenance Service Center	3500 Robertson Park Rd.	Livermore																						
City of Livermore	2388 2nd St.	Livermore					0.5																	
City of Livermore Library	725 Rincon Ave.	Livermore			2												2							
Fire Station #7	951 Rincon Ave.	Livermore					1																	
Fire Station #8	5750 Scenic Ave.	Livermore			4																			
Fire Station #10	330 Airway Blvd.	Livermore			6		1																	
Council Chambers	3575 Pacific Ave.	Livermore			4		0.5																	
Multi Service Center	3311 Pacific Ave.	Livermore			11		1.5										5							
Livermore Parking Garage	2350 Railroad Ave.	Livermore																						
		Totals:	0	0	78	0	11	0	0	0	0	0	0	0	0	6	35	0	0	0.5	0	0	0	16

Location	Address	City	AVERT DRY BAIT Abamectin 0.050%	BORID Orthoboric Acid 99%	CONTRAC BLOX Bromadiolone .005%	Eco Exempt-D 2Phenethyl Propionate 4.5% Clove oil 1.75%	Eco Exempt 1-C Rosemary oil 10.0%	Gentrol IGR Concentrate Hydroprene 9%	Maxforce Ant Bait Stations Fipronil 0.01%	Maxforce Ant Bait Gel Fipronil 0.001%	Maxforce Roach Bait Gel Hydramethylnon 2.15%	Maxforce Roach Bait Stations Hydramethylnon 2.0%	Niban F-G Orthoboric Acid 5.0%	Perma-Dust Boric Acid 35.5%	Victor Wasp-Hornet Killer Mint oil 8.0%	Trapper rat glue Board	Glue mouse Board	EcoPco Acu 2- phenethly Propionate 0.10%	fly glue Board	Talstar Professional Bifenthrin 7.9%	CyCick Aersol Cyfluthrin .1%	CyCick CS Cyfluthrin 6%	LarvaLur Phenyl Methylcarbamate 2%	Talstar Granuals Bifenthrin .2%
			GR	OZ	OZ	OZ	OZ	OZ	EA	GR	GR	EA	OZ	OZ	OZ	EA	EA	OZ	EA	OZ	OZ	OZ	OZ	OZ
Livermore Public Library	1188 S. Livermore Ave.	Livermore			2																			
Livermore Police Department	1110 S. Livermore Ave.	Livermore			10		1																	
Livermore City Hall	1052 S. Livermore Ave.	Livermore															3							
Livermore Water Treatment Plant	101 W. Jack London Blvd.	Livermore			7		2									10	8							
Fire Station #6	4550 East Ave.	Livermore			2		1																	
Livermore Airport	636 Terminal Circle	Livermore			6												6					0.5		
Livermore Chamber of Commerce	2157 1st St.	Livermore															5						1	
Fire Station #9	1919 Cordoba St.	Livermore					0.5																	
Springtown Library	998 Bluebell Dr.	Livermore															2							
Old Public Library	1000 S. Livermore Ave.	Livermore			2		1																	
Maintenance Service Center	3500 Robertson Park Rd.	Livermore			8												4							
City of Livermore	2388 2nd St.	Livermore					1																	
City of Livermore Library	725 Rincon Ave.	Livermore			2												2							
Fire Station #7	951 Rincon Ave.	Livermore			3		1																	
Fire Station #8	5750 Scenic Ave.	Livermore			4		1																	
Fire Station #10	330 Airway Blvd.	Livermore			6		1																	
Council Chambers	3575 Pacific Ave.	Livermore			4		0.5																	
Multi Service Center	3311 Pacific Ave.	Livermore			4		0.5										4							
Livermore Parking Garage	2350 Railroad Ave.	Livermore			5		1																	
		Totals:	0	0	65	0	11.5	0	0	0	0	0	0	0	0	10	34	0	0	0	0	0.5	1	0

Location	Address	City	AVERT DRY BAIT Abamectin 0.050%	BORID Orthoboric Acid 99%	CONTRAC BLOX Bromadiolone .005%	Eco Exempt-D 2Phenethyl Propionate 4.5% Clove oil 1.75%	Eco Exempt 1-C Rosemary oil 10.0%	Gentrol IGR Concentrate Hydroprene 9%	Maxforce Ant Bait Stations Fipronil 0.01%	Maxforce Ant Bait Gel Fipronil 0.001%	Maxforce Roach Bait Gel Hydramethylnon 2.15%	Maxforce Roach Bait Stations Hydramethylnon 2.0%	Niban F-G Orthoboric Acid 5.0%	Perma-Dust Boric Acid 35.5%	Victor Wasp-Hornet Killer Mint oil 8.0%	Trapper rat glue Board	Glue mouse Board	EcoPco Acu 2- phenethly Propionate 0.10%	fly glue Board	Talstar Professional Bifenthrin 7.9%	CyCick Aeresol Cyfluthrin .1%	CyCick CS Cyfluthrin 6%	LarvaLur Phenyl Methylcarbamate 2%	Talstar Granuals Bifenthrin .2%
			GR	OZ	OZ	OZ	OZ	OZ	EA	GR	GR	EA	OZ	OZ	OZ	EA	EA	OZ	EA	OZ	OZ	OZ	OZ	OZ
Livermore Public Library	1188 S. Livermore Ave.	Livermore			2												3							
Livermore Police Department	1110 S. Livermore Ave.	Livermore			6		1										4							
Livermore City Hall	1052 S. Livermore Ave.	Livermore					1										3							
Livermore Water Treatment Plant	101 W. Jack London Blvd.	Livermore			8		2										16							
Fire Station #6	4550 East Ave.	Livermore			2		0.5																	
Livermore Airport	636 Terminal Circle	Livermore			8		1										6							
Livermore Chamber of Commerce	2157 1st St.	Livermore															4						1	
Fire Station #9	1919 Cordoba St.	Livermore			4																			
Springtown Library	998 Bluebell Dr.	Livermore															2							
Old Public Library	1000 S. Livermore Ave.	Livermore			4		1																	
Maintenance Service Center	3500 Robertson Park Rd.	Livermore			8		1										4							
City of Livermore	2388 2nd St.	Livermore					0.5																	
City of Livermore Library	725 Rincon Ave.	Livermore			2												3							
Fire Station #7	951 Rincon Ave.	Livermore					1																	
Fire Station #8	5750 Scenic Ave.	Livermore			2																			
Fire Station #10	330 Airway Blvd.	Livermore														8				6				
Council Chambers	3575 Pacific Ave.	Livermore			4		0.5																	
Multi Service Center	3311 Pacific Ave.	Livermore			4		0.5																	
Livermore Parking Garage	2350 Railroad Ave.	Livermore																						
		Totals:	0	0	54	0	10	0	0	0	0	0	0	0	0	8	45	0	0	0	6	0	1	0

Location	Address	City	AVERT DRY BAIT Abamectin 0.050%	BORID Orthoboric Acid 99%	CONTRAC BLOX Bromadiolone .005%	Eco Exempt-D 2Phenethyl Propionate 4.5% Clove oil 1.75%	Eco Exempt 1-C Rosemary oil 10.0%	Gentrol IGR Concentrate Hydroprene 9%	Maxforce Ant Bait Stations Fipronil 0.01%	Maxforce Ant Bait Gel Fipronil 0.001%	Maxforce Roach Bait Gel Hydramethylnon 2.15%	Maxforce Roach Bait Stations Hydramethylnon 2.0%	Niban F-G Orthoboric Acid 5.0%	Perma-Dust Boric Acid 35.5%	Victor Wasp-Hornet Killer Mint oil 8.0%	Trapper rat glue Board	Glue mouse Board	EcoPco Acu 2- phenethly Propionate 0.10%	fly glue Board	Talstar Professional Bifenthrin 7.9%	CyClick Aeresol Cyfluthrin .1%	CyClick CS Cyfluthrin 6%	LarvaLur Phenyl Methylcarbamate 2%	Talstar Granuals Bifenthrin .2%
			GR	OZ	OZ	OZ	OZ	OZ	EA	GR	GR	EA	OZ	OZ	OZ	EA	EA	OZ	EA	OZ	OZ	OZ	OZ	OZ
Livermore Public Library	1188 S. Livermore Ave.	Livermore			2												4							
Livermore Police Department	1110 S. Livermore Ave.	Livermore			2		1																	
Livermore City Hall	1052 S. Livermore Ave.	Livermore			10		0.5										3							
Livermore Water Treatment Plant	101 W. Jack London Blvd.	Livermore			8		1.5									4	8							
Fire Station #6	4550 East Ave.	Livermore			2		1																	
Livermore Airport	636 Terminal Circle	Livermore			2		0.5										7							
Livermore Chamber of Commerce	2157 1st St.	Livermore															4					0.5		
Fire Station #9	1919 Cordoba St.	Livermore					0.5																	
Springtown Library	998 Bluebell Dr.	Livermore			2					1							2							
Old Public Library	1000 S. Livermore Ave.	Livermore			2		1.5																	
Maintenance Service Center	3500 Robertson Park Rd.	Livermore			8												4							
City of Livermore	2388 2nd St.	Livermore																				0.5		
City of Livermore Library	725 Rincon Ave.	Livermore			2												3							
Fire Station #7	951 Rincon Ave.	Livermore					0.5										3							
Fire Station #8	5750 Scenic Ave.	Livermore			4		0.5																	
Fire Station #10	330 Airway Blvd.	Livermore			2		1										5							
Council Chambers	3575 Pacific Ave.	Livermore			4		0.5																	
Multi Service Center	3311 Pacific Ave.	Livermore			4												2	4						
Livermore Parking Garage	2350 Railroad Ave.	Livermore			10		1																	
		Totals:	0	0	64	0	10	0	0	1	0	0	0	0	0	4	45	4	0	0	0	1	0	0

Location	Address	City	AVERT DRY BAIT Abamectin 0.050%	BORID Orthoboric Acid 99%	CONTRAC BLOX Bromadiolone .005%	Eco Exempt-D 2Phenethyl Propionate 4.5% Clove oil 1.75%	Eco Exempt 1-C Rosemary oil 10.0%	Gentrol IGR Concentrate Hydroprene 9%	Maxforce Ant Bait Stations Fipronil 0.01%	Maxforce Ant Bait Gel Fipronil 0.001%	Maxforce Roach Bait Gel Hydramethylnon 2.15%	Maxforce Roach Bait Stations Hydramethylnon 2.0%	Niban F-G Orthoboric Acid 5.0%	Perma-Dust Boric Acid 35.5%	Victor Wasp-Hornet Killer Mint oil 8.0%	Trapper rat glue Board	Glue mouse Board	EcoPco Acu 2- phenethly Propionate 0.10%	fly glue Board	Talstar Professional Bifenthrin 7.9%	CyCick Aeresol Cyfluthrin .1%	CyCick CS Cyfluthrin 6%	LarvaLur Phenyl Methylcarbamate 2%	Talstar Granuals Bifenthrin .2%
			GR	OZ	OZ	OZ	OZ	OZ	EA	GR	GR	EA	OZ	OZ	OZ	EA	EA	OZ	EA	OZ	OZ	OZ	OZ	OZ
Livermore Public Library	1188 S. Livermore Ave.	Livermore			2		0.5										3							
Livermore Police Department	1110 S. Livermore Ave.	Livermore			7		1																	
Livermore City Hall	1052 S. Livermore Ave.	Livermore			4		0.5										2							
Livermore Water Treatment Plant	101 W. Jack London Blvd.	Livermore			6		2										13						4	
Fire Station #6	4550 East Ave.	Livermore			2											4	1							
Livermore Airport	636 Terminal Circle	Livermore			2												5							
Livermore Chamber of Commerce	2157 1st St.	Livermore															2						0.5	
Fire Station #9	1919 Cordoba St.	Livermore			1		0.5										2							
Springtown Library	998 Bluebell Dr.	Livermore					1										2							
Old Public Library	1000 S. Livermore Ave.	Livermore															2							
Maintenance Service Center	3500 Robertson Park Rd.	Livermore			8												3							
City of Livermore	2388 2nd St.	Livermore					0.5																	
City of Livermore Library	725 Rincon Ave.	Livermore					0.5										3							
Fire Station #7	951 Rincon Ave.	Livermore			1		1																	
Fire Station #8	5750 Scenic Ave.	Livermore			2																			
Fire Station #10	330 Airway Blvd.	Livermore					0.5									2	2							
Council Chambers	3575 Pacific Ave.	Livermore			4															0.5				
Multi Service Center	3311 Pacific Ave.	Livermore			4		0.5										3							
Livermore Parking Garage	2350 Railroad Ave.	Livermore																						
		Totals:	0	0	43	0	8.5	0	0	0	0	0	0	0	0	6	43	0	0	0.5	0	0	4.5	0

Location	Address	City	AVERT DRY BAIT Abamectin 0.050%	BORID Orthoboric Acid 99%	CONTRAC BLOX Bromadiolone .005%	Eco Exempt-D 2Phenethyl Propionate 4.5% Clove oil 1.75%	Eco Exempt 1-C Rosemary oil 10.0%	Gentrol IGR Concentrate Hydroprene 9%	Maxforce Ant Bait Stations Fipronil 0.01%	Maxforce Ant Bait Gel Fipronil 0.001%	Maxforce Roach Bait Gel Hydramethylnon 2.15%	Maxforce Roach Bait Stations Hydramethylnon 2.0%	Niban F-G Orthoboric Acid 5.0%	Perma-Dust Boric Acid 35.5%	Victor Wasp-Hornet Killer Mint oil 8.0%	Trapper rat glue Board	Glue mouse Board	EcoPco Acu 2- phenethly Propionate 0.10%	fly glue Board	Talstar Professional Bifenthrin 7.9%	CyCick Aeresol Cyfluthrin .1%	CyCick CS Cyfluthrin 6%	LarvaLur Phenyl Methylcarbamate 2%	Talstar Granuals Bifenthrin .2%
			GR	OZ	OZ	OZ	OZ	OZ	EA	GR	GR	EA	OZ	OZ	OZ	EA	EA	OZ	EA	OZ	OZ	OZ	OZ	OZ
Livermore Public Library	1188 S. Livermore Ave.	Livermore			2		1										4							
Livermore Police Department	1110 S. Livermore Ave.	Livermore			8		2										2							
Livermore City Hall	1052 S. Livermore Ave.	Livermore			4												3							
Livermore Water Treatment Plant	101 W. Jack London Blvd.	Livermore			4		1.5										10						4	
Fire Station #6	4550 East Ave.	Livermore			2		1																	
Livermore Airport	636 Terminal Circle	Livermore			7												4							
Livermore Chamber of Commerce	2157 1st St.	Livermore															2							
Fire Station #9	1919 Cordoba St.	Livermore			3		1																	
Springtown Library	998 Bluebell Dr.	Livermore			2		1										3							
Old Public Library	1000 S. Livermore Ave.	Livermore			2												3							
Maintenance Service Center	3500 Robertson Park Rd.	Livermore			6		1										4							
City of Livermore	2388 2nd St.	Livermore					1																	
City of Livermore Library	725 Rincon Ave.	Livermore			2												4							
Fire Station #7	951 Rincon Ave.	Livermore					0.5																	
Fire Station #8	5750 Scenic Ave.	Livermore			2																			
Fire Station #10	330 Airway Blvd.	Livermore					1.5										4	6						
Council Chambers	3575 Pacific Ave.	Livermore			4																			
Multi Service Center	3311 Pacific Ave.	Livermore			4																			
Livermore Parking Garage	2350 Railroad Ave.	Livermore			2		0.5																	
		Totals:	0	0	54	0	12	0	0	0	0	0	0	0	0	0	43	6	0	0	0	0	4	0

Location	Address	City	AVERT DRY BAIT Abamectin 0.050%	BORID Orthoboric Acid 99%	CONTRAC BLOX Bromadiolone .005%	Eco Exempt-D 2Phenethyl Propionate 4.5% Clove oil 1.75%	Eco Exempt 1-C Rosemary oil 10.0%	Gentrol IGR Concentrate Hydroprene 9%	Maxforce Ant Bait Stations Fipronil 0.01%	Maxforce Ant Bait Gel Fipronil 0.001%	Maxforce Roach Bait Gel Hydramethylnon 2.15%	Maxforce Roach Bait Stations Hydramethylnon 2.0%	Niban F-G Orthoboric Acid 5.0%	Perma-Dust Boric Acid 35.5%	Victor Wasp-Hornet Killer Mint oil 8.0%	Trapper rat glue Board	Glue mouse Board	EcoPco Acu 2- phenethly Propionate 0.10%	fly glue Board	Talstar Professional Bifenthrin 7.9%	CyCick Aeresol Cyfluthrin .1%	CyCick CS Cyfluthrin 6%	LarvaLur Phenyl Methylcarbamate 2%	Talstar Granuals Bifenthrin .2%
			GR	OZ	OZ	OZ	OZ	OZ	EA	GR	GR	EA	OZ	OZ	OZ	EA	EA	OZ	EA	OZ	OZ	OZ	OZ	OZ
Livermore Public Library	1188 S. Livermore Ave.	Livermore			2												4							
Livermore Police Department	1110 S. Livermore Ave.	Livermore			11		1																	
Livermore City Hall	1052 S. Livermore Ave.	Livermore			6												2							
Livermore Water Treatment Plant	101 W. Jack London Blvd.	Livermore	5		10		3										12						2	
Fire Station #6	4550 East Ave.	Livermore			2												4			0.5				
Livermore Airport	636 Terminal Circle	Livermore															3							
Livermore Chamber of Commerce	2157 1st St.	Livermore															4			0.5				
Fire Station #9	1919 Cordoba St.	Livermore			2		1										2							
Springtown Library	998 Bluebell Dr.	Livermore					1										3							
Old Public Library	1000 S. Livermore Ave.	Livermore			2		0.5																	
Maintenance Service Center	3500 Robertson Park Rd.	Livermore			9		1										4							
City of Livermore	2388 2nd St.	Livermore					0.5																	
City of Livermore Library	725 Rincon Ave.	Livermore			2		0.5										2							
Fire Station #7	951 Rincon Ave.	Livermore															4			0.5			6	
Fire Station #8	5750 Scenic Ave.	Livermore			4		0.5																	
Fire Station #10	330 Airway Blvd.	Livermore			2		1										6							
Council Chambers	3575 Pacific Ave.	Livermore			4		0.5																	
Multi Service Center	3311 Pacific Ave.	Livermore			4		0.5																	
Livermore Parking Garage	2350 Railroad Ave.	Livermore																						
		Totals:	5	0	60	0	11	0	0	0	0	0	0	0	0	0	50	0	0	1.5	0	0	8	0

FY 2011/2012 Total Usage- Orkin

Location	Address	City	AVERT DRY BAIT Abamectin 0.050%	BORID Orthoboric Acid 99%	CONTRAC BLOX Bromadiolone .005%	Eco Exempt-D 2Phenethyl Propionate 4.5% Clove oil 1.75%	Eco Exempt 1-C Rosemary oil 10.0%	Gentrol IGR Concentrate Hydroprene 9%	Maxforce Ant Bait Stations Fipronil 0.01%	Maxforce Ant Bait Gel Fipronil 0.001%	Maxforce Roach Bait Gel Hydramethylnon 2.15%	Maxforce Roach Bait Stations Hydramethylno n 2.0%	Niban F-G Orthoboric Acid 5.0%	Perma-Dust Boric Acid 35.5%	Victor Wasp-Hornet Killer Mint oil 8.0%	Trapper rat glue Board	Glue mouse Board	EcoPco Acu 2- phenethly Propionate 0.10%	fly glue Board	Talstar Professional Bifenthrin 7.9%	CyCick Aeresol Cyfluthrin .1%	CyCick CS Cyfluthrin 6%	LarvaLur Phenyl Methylcarbamate 2%	Talstar Granuals Bifenthrin .2%
			GR	OZ	OZ	OZ	OZ	OZ	EA	GR	GR	EA	OZ	OZ	OZ	EA	EA	OZ	EA	OZ	OZ	OZ	OZ	OZ
Livermore Public Library	1188 S. Livermore Ave.	Livermore	0	0	22	0	1.5	0	0	0	0	0	26	0	0	0	48	0	0	0.5	0	0	0	0
Livermore Police Department	1110 S. Livermore Ave.	Livermore	0	0	83	0	3	0	0	0	0	0	28	0	0	0	14	6	0	1.5	0	0	0	0
Livermore City Hall	1052 S. Livermore Ave.	Livermore	0	0	68	0	1.5	0	0	0	0	0	8	0	0	0	38	0	0	0	0	0	8	0
Livermore Water Treatment Plant	101 W. Jack London Blvd.	Livermore	0	0	116	0	14	0	0	0	0	0	24	0	0	20	119	0	0	4.5	0	0	12	0
Fire Station #6	4550 East Ave.	Livermore	0	0	19	0	1.5	0	0	0	0	0	18	0	0	0	5	0	0	4	0	0	0	0
Livermore Airport	636 Terminal Circle	Livermore	0	0	93	0	0	0	0	0	0	0	0	0	0	2	76	0	0	4.5	0	0	0	0
Livermore Chamber of Commerce	2157 1st St.	Livermore	0.5	0	0	0	0	0	0	0	0	0	7	0	0	0	42	0	0	0.5	0	0	6	0
Fire Station #9	1919 Cordoba St.	Livermore	0	0	23	0	1.5	0	0	0	0	0	44	0	0	0	12	0	0	1.5	0	0	0	0
Springtown Library	998 Bluebell Dr.	Livermore	0	0	9	0	0.5	0	0	0	0	0	20	0	0	0	26	0	0	3	0	0	0	0
Old Public Library	1000 S. Livermore Ave.	Livermore	0	0	6	0	0	0	0	0	0	0	0	0	0	4	25	0	0	2	0	0	0	0
Maintenance Service Center	3500 Robertson Park Rd.	Livermore	0	0	78	0	2	0	0	0	0	0	8	0	0	4	58	0	0	2	0	0	0	0
City of Livermore	2388 2nd St.	Livermore	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	4.5	0	0.5	0	0
City of Livermore Library	725 Rincon Ave.	Livermore	0	0	23	0	0.5	0	0	0	0	0	8	0	0	0	37	0	0	1.5	0	0	8	0
Fire Station #7	951 Rincon Ave.	Livermore	0	0	30	0	1.5	0	0	0	0	0	8	0	0	0	25	0	0	1	0	0	0	16
Fire Station #8	5750 Scenic Ave.	Livermore	0	0	42	0	0.5	0	0	0	0	0	24	0	0	0	0	0	0	2.75	0	0	0	0
Fire Station #10	330 Airway Blvd.	Livermore	0	0	35	0	1.5	0	0	0	0	0	22	0	0	6	71	0	0	3	4	0	0	0
Council Chambers	3575 Pacific Ave.	Livermore	0	0	48	0	1	0	0	0	0	0	44	0	0	0	0	0	0	0.5	0	0	0	0
Multi Service Center	3311 Pacific Ave.	Livermore	0	0	47	0	1	0	0	0	0	0	22	0	0	0	14	0	0	1.5	0	0	0	0
Livermore Parking Garage	2350 Railroad Ave.	Livermore	0	0	46	0	1	0	0	0	0	0	6	0	0	0	0	0	0	1.5	0	0	0	0
		Totals:	0.5	0	742	0	32	0	0	0	0	0	311	0	0	36	610	6	0	38.75	4	0.5	34	16

Location	Address	City	AVERT DRY BAIT Abamectin 0.050%	BORID Orthoboric Acid 99%	CONTRAC BLOX Bromadiolone .005%	Eco Exempt-D 2Phenethyl Propionate 4.5% Clove oil 1.75%	Eco Exempt 1-C Rosemary oil 10.0%	Gentrol IGR Concentrate Hydroprene 9%	Maxforce Ant Bait Stations Fipronil 0.01%	Maxforce Ant Bait Gel Fipronil 0.001%	Maxforce Roach Bait Gel Hydramethylnon 2.15%	Maxforce Roach Bait Stations Hydramethylno n 2.0%	Niban F-G Orthoboric Acid 5.0%	Perma-Dust Boric Acid 35.5%	Victor Wasp-Hornet Killer Mint oil 8.0%	Trapper rat glue Board	Glue mouse Board	EcoPco Acu 2- phenethly Propionate 0.10%	fly glue Board	Talstar Professio nal Bifenthrin 7.9%	CyCick Aeresol Cyfluthrin .1%	CyCick CS Cyfluthrin 6%	LarvaLur Phenyl Methylcarba mate 2%	Talstar Granuals Bifenthrin .2%
			GR	OZ	OZ	OZ	OZ	OZ	EA	GR	GR	EA	OZ	OZ	OZ	EA	EA	OZ	EA	OZ	OZ			
Livermore Public Library	1188 S. Livermore Ave.	Livermore			2		1										5							
Livermore Police Department	1110 S. Livermore Ave.	Livermore			9		1											6						
Livermore City Hall	1052 S. Livermore Ave.	Livermore			6		0.5										4							
Livermore Water Treatment Plant	101 W. Jack London Blvd.	Livermore			1		4										12						6	
Fire Station #6	4550 East Ave.	Livermore			2		0.5										3							
Livermore Airport	636 Terminal Circle	Livermore			12												8							
Livermore Chamber of Commerce	2157 1st St.	Livermore	0.5														4							
Fire Station #9	1919 Cordoba St.	Livermore			2		1										2							
Springtown Library	998 Bluebell Dr.	Livermore			2		0.5										2							
Old Public Library	1000 S. Livermore Ave.	Livermore																						
Maintenance Service Center	3500 Robertson Park Rd.	Livermore			10		1										5							
City of Livermore	2388 2nd St.	Livermore																				0.5		
City of Livermore Library	725 Rincon Ave.	Livermore			2		0.5										4							
Fire Station #7	951 Rincon Ave.	Livermore			1		1										3							
Fire Station #8	5750 Scenic Ave.	Livermore			2															0.25				
Fire Station #10	330 Airway Blvd.	Livermore			6		1									2	6							
Council Chambers	3575 Pacific Ave.	Livermore			4		0.5																	
Multi Service Center	3311 Pacific Ave.	Livermore			4		0.5																	
Livermore Parking Garage	2350 Railroad Ave.	Livermore			6		1																	
		Totals:	0.5	0	71	0	14	0	0	0	0	0	0	0	0	2	58	6	0	0.25	0	0.5	6	0

Location	Address	City	AVERT DRY BAIT Abamectin 0.050%	BORID Orthoboric Acid 99%	CONTRAC BLOX Bromadiolone .005%	Eco Exempt-D 2Phenethyl Propionate 4.5% Clove oil 1.75%	Eco Exempt 1-C Rosemary oil 10.0%	Gentrol IGR Concentrate Hydroprene 9%	Maxforce Ant Bait Stations Fipronil 0.01%	Maxforce Ant Bait Gel Fipronil 0.001%	Maxforce Roach Bait Gel Hydramethylnon 2.15%	Maxforce Roach Bait Stations Hydramethylnon 2.0%	Niban F-G Orthoboric Acid 5.0%	Perma-Dust Boric Acid 35.5%	Victor Wasp-Hornet Killer Mint oil 8.0%	Trapper rat glue Board	Glue mouse Board	EcoPco Acu 2- phenethly Propionate 0.10%	fly glue Board	Talstar Professional Bifenthrin 7.9%	CyCick Aeresol Cyfluthrin .1%	CyCick CS Cyfluthrin 6%	LarvaLur Phenyl Methylcarbamate 2%	Talstar Granuals Bifenthrin .2%
			GR	OZ	OZ	OZ	OZ	OZ	EA	GR	GR	EA	OZ	OZ	OZ	EA	EA	OZ	EA	OZ	OZ	OZ		
Livermore Public Library	1188 S. Livermore Ave.	Livermore			2		0.5										4							
Livermore Police Department	1110 S. Livermore Ave.	Livermore			4		1										4							
Livermore City Hall	1052 S. Livermore Ave.	Livermore			6		1										2							
Livermore Water Treatment Plant	101 W. Jack London Blvd.	Livermore			6		4										14							
Fire Station #6	4550 East Ave.	Livermore			2		1																	
Livermore Airport	636 Terminal Circle	Livermore			10												5			1				
Livermore Chamber of Commerce	2157 1st St.	Livermore															3							
Fire Station #9	1919 Cordoba St.	Livermore			2		0.5										2							
Springtown Library	998 Bluebell Dr.	Livermore															2			0.5				
Old Public Library	1000 S. Livermore Ave.	Livermore																		0.5				
Maintenance Service Center	3500 Robertson Park Rd.	Livermore			6		1										6							
City of Livermore	2388 2nd St.	Livermore					0.5																	
City of Livermore Library	725 Rincon Ave.	Livermore			2												3						8	
Fire Station #7	951 Rincon Ave.	Livermore			2		0.5										1							
Fire Station #8	5750 Scenic Ave.	Livermore			4		0.5																	
Fire Station #10	330 Airway Blvd.	Livermore			6		0.5										4							
Council Chambers	3575 Pacific Ave.	Livermore			4		0.5																	
Multi Service Center	3311 Pacific Ave.	Livermore			4		0.5																	
Livermore Parking Garage	2350 Railroad Ave.	Livermore																						
		Totals:	0	0	60	0	12	0	0	0	0	0	0	0	0	0	50	0	0	2	0	0	8	0

Location	Address	City	AVERT DRY BAIT Abamectin 0.050%	BORID Orthoboric Acid 99%	CONTRAC BLOX Bromadiolone .005%	Eco Exempt-D 2Phenethyl Propionate 4.5% Clove oil 1.75%	Eco Exempt 1-C Rosemary oil 10.0%	Gentrol IGR Concentrate Hydroprene 9%	Maxforce Ant Bait Stations Fipronil 0.01%	Maxforce Ant Bait Gel Fipronil 0.001%	Maxforce Roach Bait Gel Hydramethylnon 2.15%	Maxforce Roach Bait Stations Hydramethylnon 2.0%	Niban F-G Orthoboric Acid 5.0%	Perma-Dust Boric Acid 35.5%	Victor Wasp-Hornet Killer Mint oil 8.0%	Trapper rat glue Board	Glue mouse Board	EcoPco Acu 2- phenethly Propionate 0.10%	fly glue Board	Talstar Professional Bifenthrin 7.9%	CyCick Aeresol Cyfluthrin .1%	CyCick CS Cyfluthrin 6%	LarvaLur Phenyl Methylcarbamate 2%	Talstar Granuals Bifenthrin .2%
			GR	OZ	OZ	OZ	OZ	OZ	EA	GR	GR	EA	OZ	OZ	OZ	EA	EA	OZ	EA	OZ	OZ	OZ		
Livermore Public Library	1188 S. Livermore Ave.	Livermore			2												5			0.5				
Livermore Police Department	1110 S. Livermore Ave.	Livermore			7															1				
Livermore City Hall	1052 S. Livermore Ave.	Livermore			8												2						8	
Livermore Water Treatment Plant	101 W. Jack London Blvd.	Livermore			12		4										16							
Fire Station #6	4550 East Ave.	Livermore															2			0.5				
Livermore Airport	636 Terminal Circle	Livermore			5												6			0.5				
Livermore Chamber of Commerce	2157 1st St.	Livermore															4							
Fire Station #9	1919 Cordoba St.	Livermore															2			0.5				
Springtown Library	998 Bluebell Dr.	Livermore			2												2			0.5				
Old Public Library	1000 S. Livermore Ave.	Livermore															2			1				
Maintenance Service Center	3500 Robertson Park Rd.	Livermore			10												8			1				
City of Livermore	2388 2nd St.	Livermore																		0.5				
City of Livermore Library	725 Rincon Ave.	Livermore			1												3			0.5				
Fire Station #7	951 Rincon Ave.	Livermore																		0.5				
Fire Station #8	5750 Scenic Ave.	Livermore			4															0.5				
Fire Station #10	330 Airway Blvd.	Livermore			2											4	4			1				
Council Chambers	3575 Pacific Ave.	Livermore			4															0.5				
Multi Service Center	3311 Pacific Ave.	Livermore			4												2			0.5				
Livermore Parking Garage	2350 Railroad Ave.	Livermore			6															0.5				
		Totals:	0	0	67	0	4	0	0	0	0	0	0	0	0	4	58	0	0	10	0	0	8	0

Location	Address	City	AVERT DRY BAIT Abamectin 0.050%	BORID Orthoboric Acid 99%	CONTRAC BLOX Bromadiolone .005%	Eco Exempt-D 2Phenethyl Propionate 4.5% Clove oil 1.75%	Eco Exempt 1-C Rosemary oil 10.0%	Gentrol IGR Concentrate Hydroprene 9%	Maxforce Ant Bait Stations Fipronil 0.01%	Maxforce Ant Bait Gel Fipronil 0.001%	Maxforce Roach Bait Gel Hydramethylnon 2.15%	Maxforce Roach Bait Stations Hydramethylnon 2.0%	Niban F-G Orthoboric Acid 5.0%	Perma-Dust Boric Acid 35.5%	Victor Wasp-Hornet Killer Mint oil 8.0%	Trapper rat glue Board	Glue mouse Board	EcoPco Acu 2- phenethly Propionate 0.10%	fly glue Board	Talstar Professional Bifenthrin 7.9%	CyClick Aeresol Cyfluthrin .1%	CyClick CS Cyfluthrin 6%	LarvaLur Phenyl Methylcarbamate 2%	Talstar Granuals Bifenthrin .2%
			GR	OZ	OZ	OZ	OZ	OZ	EA	GR	GR	EA	OZ	OZ	OZ	EA	EA	OZ	EA	OZ	OZ	OZ	OZ	
Livermore Public Library	1188 S. Livermore Ave.	Livermore			4												4							
Livermore Police Department	1110 S. Livermore Ave.	Livermore			8												2							
Livermore City Hall	1052 S. Livermore Ave.	Livermore			8												4							
Livermore Water Treatment Plant	101 W. Jack London Blvd.	Livermore			10											4	7			2				
Fire Station #6	4550 East Ave.	Livermore			2															0.5				
Livermore Airport	636 Terminal Circle	Livermore			12												5			0.5				
Livermore Chamber of Commerce	2157 1st St.	Livermore											3				3							
Fire Station #9	1919 Cordoba St.	Livermore			4															0.5				
Springtown Library	998 Bluebell Dr.	Livermore																		0.5				
Old Public Library	1000 S. Livermore Ave.	Livermore															4							
Maintenance Service Center	3500 Robertson Park Rd.	Livermore			8												6			1				
City of Livermore	2388 2nd St.	Livermore																		0.5				
City of Livermore Library	725 Rincon Ave.	Livermore			2												3			0.5				
Fire Station #7	951 Rincon Ave.	Livermore			8												3							
Fire Station #8	5750 Scenic Ave.	Livermore			4															0.5				
Fire Station #10	330 Airway Blvd.	Livermore			4												5			0.5				
Council Chambers	3575 Pacific Ave.	Livermore			4																			
Multi Service Center	3311 Pacific Ave.	Livermore			4															0.5				
Livermore Parking Garage	2350 Railroad Ave.	Livermore																						
		Totals:	0	0	82	0	0	0	0	0	0	0	3	0	0	4	46	0	0	7.5	0	0	0	0

Location	Address	City	AVERT DRY BAIT Abamectin 0.050%	BORID Orthoboric Acid 99%	CONTRAC BLOX Bromadiolone .005%	Eco Exempt-D 2Phenethyl Propionate 4.5% Clove oil 1.75%	Eco Exempt 1-C Rosemary oil 10.0%	Gentrol IGR Concentrate Hydroprene 9%	Maxforce Ant Bait Stations Fipronil 0.01%	Maxforce Ant Bait Gel Fipronil 0.001%	Maxforce Roach Bait Gel Hydramethylnon 2.15%	Maxforce Roach Bait Stations Hydramethylnon 2.0%	Niban F-G Orthoboric Acid 5.0%	Perma-Dust Boric Acid 35.5%	Victor Wasp-Hornet Killer Mint oil 8.0%	Trapper rat glue Board	Glue mouse Board	EcoPco Acu 2- phenethly Propionate 0.10%	fly glue Board	Talstar Professional Bifenthrin 7.9%	CyCick Aeresol Cyfluthrin .1%	CyCick CS Cyfluthrin 6%	LarvaLur Phenyl Methylcarbamate 2%	Talstar Granuals Bifenthrin .2%
			GR	OZ	OZ	OZ	OZ	OZ	EA	GR	GR	EA	OZ	OZ	OZ	EA	EA	OZ	EA	OZ	OZ	OZ	OZ	OZ
Livermore Public Library	1188 S. Livermore Ave.	Livermore			2								16				2							
Livermore Police Department	1110 S. Livermore Ave.	Livermore			12												4							
Livermore City Hall	1052 S. Livermore Ave.	Livermore			12												3							
Livermore Water Treatment Plant	101 W. Jack London Blvd.	Livermore			19								12			4	7							
Fire Station #6	4550 East Ave.	Livermore			1															0.5				
Livermore Airport	636 Terminal Circle	Livermore			4												8			1				
Livermore Chamber of Commerce	2157 1st St.	Livermore															4			0.5				
Fire Station #9	1919 Cordoba St.	Livermore			3								10				3							
Springtown Library	998 Bluebell Dr.	Livermore			2								6				4							
Old Public Library	1000 S. Livermore Ave.	Livermore			2												2			0.5				
Maintenance Service Center	3500 Robertson Park Rd.	Livermore			15												6							
City of Livermore	2388 2nd St.	Livermore																		0.5				
City of Livermore Library	725 Rincon Ave.	Livermore			2												3							
Fire Station #7	951 Rincon Ave.	Livermore			6												2							
Fire Station #8	5750 Scenic Ave.	Livermore			4								8											
Fire Station #10	330 Airway Blvd.	Livermore			6								12				13							
Council Chambers	3575 Pacific Ave.	Livermore			4								8											
Multi Service Center	3311 Pacific Ave.	Livermore			5								8											
Livermore Parking Garage	2350 Railroad Ave.	Livermore			10															0.5				
		Totals:	0	0	109	0	0	0	0	0	0	0	80	0	0	4	61	0	0	3.5	0	0	0	0

Location	Address	City	AVERT DRY BAIT Abamectin 0.050%	BORID Orthoboric Acid 99%	CONTRAC BLOX Bromadiolone .005%	Eco Exempt-D 2Phenethyl Propionate 4.5% Clove oil 1.75%	Eco Exempt 1-C Rosemary oil 10.0%	Gentrol IGR Concentrate Hydroprene 9%	Maxforce Ant Bait Stations Fipronil 0.01%	Maxforce Ant Bait Gel Fipronil 0.001%	Maxforce Roach Bait Gel Hydramethylnon 2.15%	Maxforce Roach Bait Stations Hydramethylnon 2.0%	Niban F-G Orthoboric Acid 5.0%	Perma-Dust Boric Acid 35.5%	Victor Wasp-Hornet Killer Mint oil 8.0%	Trapper rat glue Board	Glue mouse Board	EcoPco Acu 2- phenethly Propionate 0.10%	fly glue Board	Talstar Professional Bifenthrin 7.9%	CyCick Aeresol Cyfluthrin .1%	CyCick CS Cyfluthrin 6%	LarvaLur Phenyl Methylcarbamate 2%	Talstar Granuals Bifenthrin .2%
			GR	OZ	OZ	OZ	OZ	OZ	EA	GR	GR	EA	OZ	OZ	OZ	EA	EA	OZ	EA	OZ	OZ	OZ	OZ	OZ
Livermore Public Library	1188 S. Livermore Ave.	Livermore			2												4							
Livermore Police Department	1110 S. Livermore Ave.	Livermore			16								12											
Livermore City Hall	1052 S. Livermore Ave.	Livermore			6												2							
Livermore Water Treatment Plant	101 W. Jack London Blvd.	Livermore			8												11			0.5				
Fire Station #6	4550 East Ave.	Livermore			2								10											
Livermore Airport	636 Terminal Circle	Livermore			8											2	7							
Livermore Chamber of Commerce	2157 1st St.	Livermore															4							
Fire Station #9	1919 Cordoba St.	Livermore			4								8											
Springtown Library	998 Bluebell Dr.	Livermore			3												3							
Old Public Library	1000 S. Livermore Ave.	Livermore																						
Maintenance Service Center	3500 Robertson Park Rd.	Livermore			6												4							
City of Livermore	2388 2nd St.	Livermore																		0.5				
City of Livermore Library	725 Rincon Ave.	Livermore			4												3							
Fire Station #7	951 Rincon Ave.	Livermore			3												3							
Fire Station #8	5750 Scenic Ave.	Livermore			4								6											
Fire Station #10	330 Airway Blvd.	Livermore			6												8							
Council Chambers	3575 Pacific Ave.	Livermore			6								6											
Multi Service Center	3311 Pacific Ave.	Livermore			6								4											
Livermore Parking Garage	2350 Railroad Ave.	Livermore																						
		Totals:	0	0	84	0	0	0	0	0	0	0	46	0	0	2	49	0	0	1	0	0	0	0

Location	Address	City	AVERT DRY BAIT Abamectin 0.050%	BORID Orthoboric Acid 99%	CONTRAC BLOX Bromadiolone .005%	Eco Exempt-D 2Phenethyl Propionate 4.5% Clove oil 1.75%	Eco Exempt 1-C Rosemary oil 10.0%	Gentrol IGR Concentrate Hydroprene 9%	Maxforce Ant Bait Stations Fipronil 0.01%	Maxforce Ant Bait Gel Fipronil 0.001%	Maxforce Roach Bait Gel Hydramethylnon 2.15%	Maxforce Roach Bait Stations Hydramethylnon 2.0%	Niban F-G Orthoboric Acid 5.0%	Perma-Dust Boric Acid 35.5%	Victor Wasp-Hornet Killer Mint oil 8.0%	Trapper rat glue Board	Glue mouse Board	EcoPco Acu 2- phenethly Propionate 0.10%	fly glue Board	Talstar Professional Bifenthrin 7.9%	CyCick Aeresol Cyfluthrin .1%	CyCick CS Cyfluthrin 6%	LarvaLur Phenyl Methylcarbamate 2%	Talstar Granuals Bifenthrin .2%
			GR	OZ	OZ	OZ	OZ	OZ	EA	GR	GR	EA	OZ	OZ	OZ	EA	EA	OZ	EA	OZ	OZ	OZ	OZ	OZ
Livermore Public Library	1188 S. Livermore Ave.	Livermore			2												4							
Livermore Police Department	1110 S. Livermore Ave.	Livermore			4								12											
Livermore City Hall	1052 S. Livermore Ave.	Livermore			4												4							
Livermore Water Treatment Plant	101 W. Jack London Blvd.	Livermore			10								6			4	11							
Fire Station #6	4550 East Ave.	Livermore			2															0.5				
Livermore Airport	636 Terminal Circle	Livermore			12												8			0.5				
Livermore Chamber of Commerce	2157 1st St.	Livermore															3							
Fire Station #9	1919 Cordoba St.	Livermore			4								6											
Springtown Library	998 Bluebell Dr.	Livermore											6				2							
Old Public Library	1000 S. Livermore Ave.	Livermore			2											4	4							
Maintenance Service Center	3500 Robertson Park Rd.	Livermore			2												4							
City of Livermore	2388 2nd St.	Livermore																		0.5				
City of Livermore Library	725 Rincon Ave.	Livermore			2												3							
Fire Station #7	951 Rincon Ave.	Livermore											8				4							
Fire Station #8	5750 Scenic Ave.	Livermore			4															1				
Fire Station #10	330 Airway Blvd.	Livermore											4				6							
Council Chambers	3575 Pacific Ave.	Livermore			4								4											
Multi Service Center	3311 Pacific Ave.	Livermore			4								4											
Livermore Parking Garage	2350 Railroad Ave.	Livermore																						
		Totals:	0	0	56	0	0	0	0	0	0	0	50	0	0	8	53	0	0	2.5	0	0	0	0

Location	Address	City	AVERT DRY BAIT Abamectin 0.050%	BORID Orthoboric Acid 99%	CONTRAC BLOX Bromadiolone .005%	Eco Exempt-D 2Phenethyl Propionate 4.5% Clove oil 1.75%	Eco Exempt 1-C Rosemary oil 10.0%	Gentrol IGR Concentrate Hydroprene 9%	Maxforce Ant Bait Stations Fipronil 0.01%	Maxforce Ant Bait Gel Fipronil 0.001%	Maxforce Roach Bait Gel Hydramethylnon 2.15%	Maxforce Roach Bait Stations Hydramethylnon 2.0%	Niban F-G Orthoboric Acid 5.0%	Perma-Dust Boric Acid 35.5%	Victor Wasp-Hornet Killer Mint oil 8.0%	Trapper rat glue Board	Glue mouse Board	EcoPco Acu 2- phenethly Propionate 0.10%	fly glue Board	Talstar Professional Bifenthrin 7.9%	CyCick Aeresol Cyfluthrin .1%	CyCick CS Cyfluthrin 6%	LarvaLur Phenyl Methylcarbamate 2%	Talstar Granuals Bifenthrin .2%
			GR	OZ	OZ	OZ	OZ	OZ	EA	GR	GR	EA	OZ	OZ	OZ	EA	EA	OZ	EA	OZ	OZ	OZ	OZ	OZ
Livermore Public Library	1188 S. Livermore Ave.	Livermore			2								4				3							
Livermore Police Department	1110 S. Livermore Ave.	Livermore			4								4											
Livermore City Hall	1052 S. Livermore Ave.	Livermore			4												4							
Livermore Water Treatment Plant	101 W. Jack London Blvd.	Livermore			16												7							
Fire Station #6	4550 East Ave.	Livermore			2															0.5				
Livermore Airport	636 Terminal Circle	Livermore			8												8							
Livermore Chamber of Commerce	2157 1st St.	Livermore											4				4							
Fire Station #9	1919 Cordoba St.	Livermore			2								6											
Springtown Library	998 Bluebell Dr.	Livermore															2			0.5				
Old Public Library	1000 S. Livermore Ave.	Livermore															4							
Maintenance Service Center	3500 Robertson Park Rd.	Livermore															4							
City of Livermore	2388 2nd St.	Livermore																		0.5				
City of Livermore Library	725 Rincon Ave.	Livermore			2												4							
Fire Station #7	951 Rincon Ave.	Livermore			4												2							
Fire Station #8	5750 Scenic Ave.	Livermore			4								4											
Fire Station #10	330 Airway Blvd.	Livermore											6				6							
Council Chambers	3575 Pacific Ave.	Livermore			4								6											
Multi Service Center	3311 Pacific Ave.	Livermore															2							
Livermore Parking Garage	2350 Railroad Ave.	Livermore			8															0.5				
		Totals:	0	0	60	0	0	0	0	0	0	0	34	0	0	0	50	0	0	2	0	0	0	0

Location	Address	City	AVERT DRY BAIT Abamectin 0.050%	BORID Orthoboric Acid 99%	CONTRAC BLOX Bromadiolone .005%	Eco Exempt-D 2Phenethyl Propionate 4.5% Clove oil 1.75%	Eco Exempt 1-C Rosemary oil 10.0%	Gentrol IGR Concentrate Hydroprene 9%	Maxforce Ant Bait Stations Fipronil 0.01%	Maxforce Ant Bait Gel Fipronil 0.001%	Maxforce Roach Bait Gel Hydramethylnon 2.15%	Maxforce Roach Bait Stations Hydramethylnon 2.0%	Niban F-G Orthoboric Acid 5.0%	Perma-Dust Boric Acid 35.5%	Victor Wasp-Hornet Killer Mint oil 8.0%	Trapper rat glue Board	Glue mouse Board	EcoPco Acu 2- phenethly Propionate 0.10%	fly glue Board	Talstar Professional Bifenthrin 7.9%	CyCick Aeresol Cyfluthrin .1%	CyCick CS Cyfluthrin 6%	LarvaLur Phenyl Methylcarbamate 2%	Talstar Granuals Bifenthrin .2%
			GR	OZ	OZ	OZ	OZ	OZ	EA	GR	GR	EA	OZ	OZ	OZ	EA	EA	OZ	EA	OZ	OZ	OZ	OZ	OZ
Livermore Public Library	1188 S. Livermore Ave.	Livermore			2												4							
Livermore Police Department	1110 S. Livermore Ave.	Livermore			4																			
Livermore City Hall	1052 S. Livermore Ave.	Livermore															4							
Livermore Water Treatment Plant	101 W. Jack London Blvd.	Livermore			12											4	3			2				
Fire Station #6	4550 East Ave.	Livermore			2															0.5				
Livermore Airport	636 Terminal Circle	Livermore			8												6							
Livermore Chamber of Commerce	2157 1st St.	Livermore															4							
Fire Station #9	1919 Cordoba St.	Livermore															3							
Springtown Library	998 Bluebell Dr.	Livermore															2							
Old Public Library	1000 S. Livermore Ave.	Livermore			2												3							
Maintenance Service Center	3500 Robertson Park Rd.	Livermore			6								8				4							
City of Livermore	2388 2nd St.	Livermore																		0.5				
City of Livermore Library	725 Rincon Ave.	Livermore			2												4							
Fire Station #7	951 Rincon Ave.	Livermore			4												3							
Fire Station #8	5750 Scenic Ave.	Livermore			4															0.5				
Fire Station #10	330 Airway Blvd.	Livermore																		0.5				
Council Chambers	3575 Pacific Ave.	Livermore			4								8											
Multi Service Center	3311 Pacific Ave.	Livermore			4												4							
Livermore Parking Garage	2350 Railroad Ave.	Livermore																						
		Totals:	0	0	54	0	0	0	0	0	0	0	16	0	0	4	44	0	0	4	0	0	0	0

Location	Address	City	AVERT DRY BAIT Abamectin 0.050%	BORID Orthoboric Acid 99%	CONTRAC BLOX Bromadiolone .005%	Eco Exempt-D 2Phenethyl Propionate 4.5% Clove oil 1.75%	Eco Exempt 1-C Rosemary oil 10.0%	Gentrol IGR Concentrate Hydroprene 9%	Maxforce Ant Bait Stations Fipronil 0.01%	Maxforce Ant Bait Gel Fipronil 0.001%	Maxforce Roach Bait Gel Hydramethylnon 2.15%	Maxforce Roach Bait Stations Hydramethylnon 2.0%	Niban F-G Orthoboric Acid 5.0%	Perma-Dust Boric Acid 35.5%	Victor Wasp-Hornet Killer Mint oil 8.0%	Trapper rat glue Board	Glue mouse Board	EcoPco Acu 2- phenethly Propionate 0.10%	fly glue Board	Talstar Professional Bifenthrin 7.9%	CyCick Aeresol Cyfluthrin .1%	CyCick CS Cyfluthrin 6%	LarvaLur Phenyl Methylcarbamate 2%	Talstar Granuals Bifenthrin .2%
			GR	OZ	OZ	OZ	OZ	OZ	EA	GR	GR	EA	OZ	OZ	OZ	EA	EA	OZ	EA	OZ	OZ	OZ	OZ	OZ
Livermore Public Library	1188 S. Livermore Ave.	Livermore															4							
Livermore Police Department	1110 S. Livermore Ave.	Livermore			1															0.5				
Livermore City Hall	1052 S. Livermore Ave.	Livermore															4							
Livermore Water Treatment Plant	101 W. Jack London Blvd.	Livermore			10											4	10							
Fire Station #6	4550 East Ave.	Livermore			2															0.5				
Livermore Airport	636 Terminal Circle	Livermore			6												3			0.5				
Livermore Chamber of Commerce	2157 1st St.	Livermore															5						6	
Fire Station #9	1919 Cordoba St.	Livermore																		0.5				
Springtown Library	998 Bluebell Dr.	Livermore															3			0.5				
Old Public Library	1000 S. Livermore Ave.	Livermore															2							
Maintenance Service Center	3500 Robertson Park Rd.	Livermore			8												5							
City of Livermore	2388 2nd St.	Livermore																						
City of Livermore Library	725 Rincon Ave.	Livermore			2								8				3							
Fire Station #7	951 Rincon Ave.	Livermore			2												4							
Fire Station #8	5750 Scenic Ave.	Livermore			4																			
Fire Station #10	330 Airway Blvd.	Livermore															5				4			
Council Chambers	3575 Pacific Ave.	Livermore			8								6											
Multi Service Center	3311 Pacific Ave.	Livermore			8								6											
Livermore Parking Garage	2350 Railroad Ave.	Livermore			6								6											
		Totals:	0	0	57	0	0	0	0	0	0	0	26	0	0	4	48	0	0	2.5	4	0	6	0

Location	Address	City	AVERT DRY BAIT Abamectin 0.050%	BORID Orthoboric Acid 99%	CONTRAC BLOX Bromadiolone .005%	Eco Exempt-D 2Phenethyl Propionate 4.5% Clove oil 1.75%	Eco Exempt 1-C Rosemary oil 10.0%	Gentrol IGR Concentrate Hydroprene 9%	Maxforce Ant Bait Stations Fipronil 0.01%	Maxforce Ant Bait Gel Fipronil 0.001%	Maxforce Roach Bait Gel Hydramethylnon 2.15%	Maxforce Roach Bait Stations Hydramethylnon 2.0%	Niban F-G Orthoboric Acid 5.0%	Perma-Dust Boric Acid 35.5%	Victor Wasp-Hornet Killer Mint oil 8.0%	Trapper rat glue Board	Glue mouse Board	EcoPco Acu 2- phenethly Propionate 0.10%	fly glue Board	Talstar Professional Bifenthrin 7.9%	CyCick Aeresol Cyfluthrin .1%	CyCick CS Cyfluthrin 6%	LarvaLur Phenyl Methylcarbamate 2%	Talstar Granuals Bifenthrin .2%
			GR	OZ	OZ	OZ	OZ	OZ	EA	GR	GR	EA	OZ	OZ	OZ	EA	EA	OZ	EA	OZ	OZ	OZ	OZ	OZ
Livermore Public Library	1188 S. Livermore Ave.	Livermore			2								6				5							
Livermore Police Department	1110 S. Livermore Ave.	Livermore			14		1																	
Livermore City Hall	1052 S. Livermore Ave.	Livermore			12								8				3							
Livermore Water Treatment Plant	101 W. Jack London Blvd.	Livermore			4		2						6				12						6	
Fire Station #6	4550 East Ave.	Livermore																		0.5				
Livermore Airport	636 Terminal Circle	Livermore															6			0.5				
Livermore Chamber of Commerce	2157 1st St.	Livermore																						
Fire Station #9	1919 Cordoba St.	Livermore											6											
Springtown Library	998 Bluebell Dr.	Livermore															2			0.5				
Old Public Library	1000 S. Livermore Ave.	Livermore															2							
Maintenance Service Center	3500 Robertson Park Rd.	Livermore			4											4								
City of Livermore	2388 2nd St.	Livermore																		0.5				
City of Livermore Library	725 Rincon Ave.	Livermore			2												2			0.5				
Fire Station #7	951 Rincon Ave.	Livermore																		0.5				
Fire Station #8	5750 Scenic Ave.	Livermore																						
Fire Station #10	330 Airway Blvd.	Livermore			3												8			1				
Council Chambers	3575 Pacific Ave.	Livermore																						
Multi Service Center	3311 Pacific Ave.	Livermore															3			0.5				
Livermore Parking Garage	2350 Railroad Ave.	Livermore																						
		Totals:	0	0	41	0	3	0	0	0	0	0	26	0	0	4	43	0	0	4.5	0	0	6	0

FY 2011/2012 Total Usage

Location	Address	City	AVERT DRY BAIT Abamectin 0.050%	BORID Orthoboric Acid 99%	CONTRAC BLOX Bromadiolone .005%	Eco Exempt-D 2Phenethyl Propionate 4.5% Clove oil 1.75%	Eco Exempt 1-C Rosemary oil 10.0%	Gentrol IGR Concentrate Hydroprene 9%	Maxforce Ant Bait Stations Fipronil 0.01%	Maxforce Ant Bait Gel Fipronil 0.001%	Maxforce Roach Bait Gel Hydramethylnon 2.15%	Maxforce Roach Bait Stations Hydramethylnon 2.0%	Niban F-G Orthoboric Acid 5.0%	Perma-Dust Boric Acid 35.5%	Victor Wasp-Hornet Killer Mint oil 8.0%	Trapper rat glue Board	Glue mouse Board	EcoPco Acu 2- phenethly Propionate 0.10%	fly glue Board	Talstar Professional Bifenthrin 7.9%	CyCick Aeresol Cyfluthrin .1%	CyCick CS Cyfluthrin 6%	LarvaLur Phenyl Methylcarbamate 2%	Talstar Granuals Bifenthrin .2%
			GR	OZ	OZ	OZ	OZ	OZ	EA	GR	GR	EA	OZ	OZ	OZ	EA	EA	OZ	EA	OZ	OZ	OZ	OZ	OZ
Livermore Public Library	1188 S. Livermore Ave.	Livermore	0	0	22	0	1.5	0	0	0	0	0	26	0	0	0	48	0	0	0.5	0	0	0	0
Livermore Police Department	1110 S. Livermore Ave.	Livermore	0	0	83	0	3	0	0	0	0	0	28	0	0	0	14	6	0	1.5	0	0	0	0
Livermore City Hall	1052 S. Livermore Ave.	Livermore	0	0	68	0	1.5	0	0	0	0	0	8	0	0	0	38	0	0	0	0	0	8	0
Livermore Water Treatment Plant	101 W. Jack London Blvd.	Livermore	0	0	116	0	14	0	0	0	0	0	24	0	0	20	119	0	0	4.5	0	0	12	0
Fire Station #6	4550 East Ave.	Livermore	0	0	19	0	1.5	0	0	0	0	0	18	0	0	0	5	0	0	4	0	0	0	0
Livermore Airport	636 Terminal Circle	Livermore	0	0	93	0	0	0	0	0	0	0	0	0	0	2	76	0	0	4.5	0	0	0	0
Livermore Chamber of Commerce	2157 1st St.	Livermore	0.5	0	0	0	0	0	0	0	0	0	7	0	0	0	42	0	0	0.5	0	0	6	0
Fire Station #9	1919 Cordoba St.	Livermore	0	0	23	0	1.5	0	0	0	0	0	44	0	0	0	12	0	0	1.5	0	0	0	0
Springtown Library	998 Bluebell Dr.	Livermore	0	0	9	0	0.5	0	0	0	0	0	20	0	0	0	26	0	0	3	0	0	0	0
Old Public Library	1000 S. Livermore Ave.	Livermore	0	0	6	0	0	0	0	0	0	0	0	0	0	4	25	0	0	2	0	0	0	0
Maintenance Service Center	3500 Robertson Park Rd.	Livermore	0	0	78	0	2	0	0	0	0	0	8	0	0	4	58	0	0	2	0	0	0	0
City of Livermore	2388 2nd St.	Livermore	0	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	4.5	0	0.5	0	0
City of Livermore Library	725 Rincon Ave.	Livermore	0	0	23	0	0.5	0	0	0	0	0	8	0	0	0	37	0	0	1.5	0	0	8	0
Fire Station #7	951 Rincon Ave.	Livermore	0	0	30	0	1.5	0	0	0	0	0	8	0	0	0	25	0	0	1	0	0	0	16
Fire Station #8	5750 Scenic Ave.	Livermore	0	0	42	0	0.5	0	0	0	0	0	24	0	0	0	0	0	0	2.75	0	0	0	0
Fire Station #10	330 Airway Blvd.	Livermore	0	0	35	0	1.5	0	0	0	0	0	22	0	0	6	71	0	0	3	4	0	0	0
Council Chambers	3575 Pacific Ave.	Livermore	0	0	48	0	1	0	0	0	0	0	44	0	0	0	0	0	0	0.5	0	0	0	0
Multi Service Center	3311 Pacific Ave.	Livermore	0	0	47	0	1	0	0	0	0	0	22	0	0	0	14	0	0	1.5	0	0	0	0
Livermore Parking Garage	2350 Railroad Ave.	Livermore	0	0	46	0	1	0	0	0	0	0	6	0	0	0	0	0	0	1.5	0	0	0	0
		Totals:	0.5	0	742	0	32	0	0	0	0	0	311	0	0	36	610	6	0	38.75	4	0.5	34	16

C.10. Attachments

Adopt a Creek Spot Program

The Adopt a Creek Spot Program's mission is to promote healthy, Tri-Valley creeks through active community participation and education. Program partners include the City of Livermore Water Resources Division, Zone 7 Water Agency, Livermore Area Park and Recreation District, Alameda County Resource Conservation District, Livermore Valley Joint Unified School District, Friends of the Arroyos and Goza Gear Screen Printing and Embroidery.

VOLUNTEERS NEEDED to help clean up creeks on Tri-Valley Creeks to Bay Day! The event is scheduled on Saturday, September 15, 2012, and is part of Coastal Cleanup Day. Coastal Cleanup Day is a statewide and international effort to clean trash and debris from beaches, bays, creeks, rivers, and lakes. For more information regarding Tri-Valley Creek to Bay Day sign-ups, please visit http://www.trivalleycreeks.org/events/creeks-to-bay-cleanup.

Tri-Valley residents and businesses are encouraged to participate in the Adopt a Creek Spot Program. Adopting a creek spot allows participants to help improve water quality and aquatic habitat in neighborhood creeks. The removal of trash and litter helps improve the aesthetic beauty of our neighborhoods, while helping reduce trash loads from the municipal storm sewer system. Adopt a Creek Spot is easy and is a great way to get involved to help improve our local environment and community.

To find out which creek spots are available for adoption, view the spots on the *Livermore Bikeways Map.*

Creek Spot Adoptees will be provided the opportunity to perform Ongoing and/or Additional activities as detailed below. Additional activities will require training and authorization from the Adopt a Creek Spot Coordinator.

Ongoing Activities include:

- Regularly picking up trash and other debris, and reporting total volume collected by June 1st
- Photography and/or sketch mapping the adopted spot

Additional Activities include:

- Painting over graffiti
- Marking storm drains

- Removing weeds and other unwanted vegetation
- Planting site-appropriate plants
- Site monitoring
- Special events

The Program Coordinator could provide Adoptees with the following supplies and/or services as appropriate, and recognize the Adoptees commitment and hard work with a recognition sign at the adopted creek spot:

Supplies Provided:

- Clean-up kits
- Graffiti removal kits
- Storm drain marking kits
- Gardening tools for maintenance/restoration projects

Services:

- Guidance with clean-up planning
- Trash and recyclables disposal
- Technical assistance for maintenance/restoration projects
- Educational presentations and activities

If you want to beautify a creek spot, getting started is easy.

For more information, email the Adopt a Creek Spot Program at wrd_info@cityoflivermore.net or call (925) 960-8100.

Getting Started

Adoptees are asked to sign up for a one year commitment with at least one work day to the Adopted spot, although they may choose to extend their commitment at the end of the first year upon approval from the Adopt a Creek Spot Coordinator. The Coordinator will provide the Adoptee with specific details for each spot during the Adoption process.

Adoption Steps:

1. Choose a prequalified creek spot from the *Livermore Bikeways Map*.
2. Complete an *Adopt a Creek Spot Program Request Form*, and email to wrd_info@cityoflivermore.net or mail it to: 101 W. Jack London Blvd., Livermore CA 94551.
3. The Spot Coordinator will notify you of spot availability and scope of work. The Coordinator will recommend another spot if your requested spot is unavailable.
4. The Spot Coordinator will provide you with the additional required paperwork to have completed, depending upon the site selected.

Work Day Planning Steps:

1. Notify the Spot Coordinator at least 24-hours in advance of performing Basic Activities and 10-days in advance in performing Enhanced Activities. The Coordinator will ensure there is no maintenance work scheduled during your work day.
2. The Spot Coordinator will confirm receipt of any required paperwork from all participants, and provide you with the *Adopt a Creek Spot Program Safety Sheet*, necessary supplies and technical guidance.
3. All participants must review the *Adopt a Creek Spot Program Safety Sheet* before the work day, and follow the safety guidelines in the *Adopt a Creek Spot Program Safety Sheet* at all times.
4. Perform the work satisfactorily, and have fun!
5. Notify the Spot Coordinator the following business day of performing work activities. The Coordinator will ensure that the recyclables, green waste and garbage are properly handled.

Adopt a Creek Spot Request Form

Your request will be processed and a Spot Coordinator will contact you. If you have any questions or special needs, please call (925) 960-8100.

Name of Group/Individual: _____ Today's Date: _____

Primary Contact Person: _____

Mailing Address: _____

City: _____ State: _____ Zip: _____

Phone: _____ Fax: _____ Cell: _____

Email: _____

Proposed Adopt a Creek Spot:

1. Please check the creek spot to be adopted from the *Livermore Bikeways Map*:
   ☐ Arroyo Mocho @ Stanley ☐ Arroyo Las Positas @ N. Livermore ☐ Arroyo Mocho @ Holmes
   ☐ Arroyo Las Positas @ Northfront ☐ Arroyo Mocho @ Robertson Park ☐ Arroyo Seco @ First
   ☐ Arroyo Mocho @ Granada Native Gardens

2. Please check the scope of work to be performed at the creek spot:
   Basic Activities:

   ☐ Regularly picking up trash and other debris, and reporting total volume collected by June 1st
   ☐ Photography and/or sketch mapping the adopted spot

   Enhanced Activities:

   ☐ Painting over graffiti
   ☐ Marking storm drains
   ☐ Removing weeds and other unwanted vegetation
   ☐ Planting site-appropriate plants

3. Approximately how often do you plan to perform work activities at the creek spot:
   ☐ Daily ☐ weekly ☐ monthly ☐ bi-annually ☐ annually
   ☐ Other (please list): _____
   Note: Adoptees are required to perform at least one work day.

4. Generally, what days(s) of the week will you perform work at the creek spot?
   ☐ Mon ☐ Tues ☐ Wed ☐ Thurs ☐ Fri ☐ Sat ☐ Sun
   Time of day: _____ to _____

5. Approximately how many volunteers will be working in the creek spot at any one time? _____

Site Assessment (For Adopt a Spot Coordinator Only)

Date of Assessment: _____

Notes/Safety Concerns: _____

Site Approved/Denied By: _____ **Date:** _____

C.11. Attachments

C.11.a. - FY 11-12 Estimated Mass of Mercury Collected Calculator (Version 1.0) - 5/24/12

Disclaimer: This calculator is intended to provide Stormwater Programs with an ***estimate*** of the mass of mercury collected during FY 11-12 via equipment/device recycling and tool for a consistent reporting via MRP requirement C.11.a. This calculator was created to provide consistency in reporting and to the extent possible assist programs in accounting for all mercury collected via these recycling/colelction actions while avoid double-counting. The estimate calculated is based on the total amount of mercury containing devices and equipment collected at the consumer level and uses the best available information from manufacturers and trade organizations regarding the amount of mercury in devices and equipment of interest. The amount of mercury containing devices and/or equipment entered into this calculator should be carefully entered and reviewed prior to reporting the estimated mass of mercury collected to the Water Board. **Please note**: To calculate the estimated mass of mercury collected, the amount of mercury containing device and/or equipment must be quantified in accordance with the units provided in Column A of the calculator. Therefore, drums or other containers of various mercury containing devices and equipment cannot be included in the calculation unless the type of device and/or equipment within each drum or container is quantified.

Mercury Containing Device/Equipment	Amount of Devices Collected				Estimated Mass of Mercury Collected (kg)
	Source 1 : HHW Facilities/Events	Source 2: Businesses/Drop-off Points	Source 3 : TRC	Total (All Sources)	
#1: Fluorescent Lamps[1] (**linear feet**)	1724		NA	1724	0.0035773
#2: CFLs[2] (**each**)	34		NA	34	0.000153
#3: Thermostats[3] (**each**)				0	0
#4: Thermostats (**lbs**)			NA	0	0
#5: Thermometers (**each**)			NA	0	0
#6: Switches [4](**each**)				0	0
Total Mass of Mercury Collected During FY 2011-2012:					**0.0037303**

[1] Only linear fluorescent lamps should be included

[2] Only compact fluorescent lamps should be included

[3] Thermostats can be reported by quantity or by pounds. Whichever unit is used, please avoid double-counting.

[4] Only switches removed from thermostats should be included

Instructions:

User Inputs

1) Mandatory Fill-in Cells: Using the above table, provide information on the collection of mercury containing devices and equipment from residents and small businesses within your jurisdiction during FY 11-12. Responses must be entered into calculator to calculate the total amount of devices and equipment collected and estimated mass of mercury collected.

2) The total amount and estimated mass of mercury collected during FY 11-12 will be determined for fluorescent lamps, compact fluorescent lamps, thermostats, thermometers and switches (provided as #1 through #6 listed in column A above). Place the total amount of these mercury containing devices and equipment collected under each Source (i.e., cells in Columns B, C and D). Instructions on what units to use to describe each device or equipment are provided in Column A.

3) Sources of mercury containing devices and equipment include HHW Facilities/Events, Businesses/Designated Drop-off Points and the Thermostat Recycling Corporation (TRC). Detailed definitions for each Source are provided below. If mercury containing devices and equipment were not collected or tracked by a Source listed above during FY 11-12, place a "0" in each respective cell. At a minimum, include the amount of devices and equipment collected and tracked by Source 1: HHW Facilities/Events (i.e., cells in Column B) during FY 11-12.

4) After completing all mandatory fill-in cells, the total amount of devices and equipment collected and estimated mass of mercury collected will be shown above and provided in the yellow "Summary" tab. All Information provided within the yellow "Summary" tab should be transferred to page 11-2, C.11.a.ii - Mercury Collection of the Annual Report Form.

Source Definitions:

Source 1: HHW Facilities/Events - All mercury containing devices/equipment (i.e., #1 through #6 listed in column A above) collected at permanent County, City or Contractor-operated facilities and/or collected at temporary HHW drop-off events organized/operated by County/City agencies/organizations and their designated contractors. Ensure that the following is also included:

1) ALL devices and equipment from HHW facilities/events operated by Special Districts, Joint Powers Authorities, other government entities and all other designated entities;

2) ALL fluorescent lamps and compact fluorescent lamps (CFLs)(i.e., #1 and #2 listed in column A above) collected by local businesses and other designated drop-off points (Home Depot, Lowe's IKEA, Orchard Supply Hardware, community centers, churches, etc.) AND taken to permanent HHW facilities for management and shipment to lamp recyclers. The arrangement that a local business or designated drop-off point may have with the permanent HHW facility varies between County and City agencies/organizations;

3) ALL devices and equipment collected at individual residents through curbside collection or scheduled pickups by HHW facility staffand/or their contractors;

4) ALL devices and equipment collected by ALL other means that are managed by a permanent HHW facility but are not listed above. Please avoid double-counting. Do not include thermostats and switches shipped to the Thermostat Recycling Corporation (TRC) within Column B.

Source 2: Businesses/Designated Drop-off Points - Fluorescent lamps and compact fluorescent lamps (CFLs) (i.e., #1 and #2 listed in column A above) collected by local businesses and other designated drop-off points (Home Depot, Lowe's IKEA, Orchard Supply Hardware, community centers, churches, etc.) who manage and arrange shipment to lamp recyclers independent of efforts conducted by permanent HHW facilities. **Note: Permittees will have to contact local businesses and other operators of designated drop-off points to obtain the amount of devices collected if an existing data sharing relationship has not been established.**

Source 3: TRC -The Thermostat Recycling Corporation (TRC) is an organization developed on behalf of the thermostat manufacturers which recycles mercury containing thermostats and switches generated by residents and small businesses. Some permanent County, City or Contractor-operated HHW facilities and County/City agencies/organizations ship thermostats and switches collected at their facilities and events to TRC for recycling. If TRC is used to recycle thermostats and switches, place the amount of these devices shipped during FY 11-12 in **cells D9 (thermostats) and D12 (switches)**.

Conversions and Citations:

#1: Fluorescent Lamps (linear feet) - The average mercury content for a four-foot linear fluorescent lamp is 8.3 milligrams (mg). This is equal to 2.075 mg (**2.075 X 10 $^{-6}$ kilograms (kg)**) per linear foot. Source: NEMA 2005. *Fluorescent and Other Mercury-Containing Lamps and the Environment: Mercury Use, Environmental Benefits, Disposal Requirements*. National Electrical Manufacturers Association. March 2005. 14p.

#2: CFLs (each) - The National Electrical Manufacturers Association (NEMA) announced that under the new voluntary commitment, effective October 1, 2010, participating manufacturers will cap the total mercury content in CFLs that are under 25 watts at 4 mg per unit, and CFLs that use 25 to 40 watts of electricity will be capped at 5 mg per unit. Each CFL recycled is assumed to have an average mass of 4.5 mg (**4.5 X 10 $^{-6}$ kg**). New CFLs are also assumed to have 4.5 mg on average. Source: NEMA 2010. *NEMA Lamp Companies Agree to Reduction in CFL Mercury Content Cap*. Available at http://www.nema.org/media/pr/20101004a.cfm. Accessed April 11, 2012.

#3: Thermostats (each) - The amount of mercury in a thermostat is determined by the number of ampoules. There are generally one or two ampoules per thermostat (average is 1.4) and each ampoule contains an average of 2.8 grams (g) of mercury. Therefore, each thermostat recycled is assumed to contain approximately 4.0 g (**0.004 kg**) of mercury. Source: TRC 2008. Thermostat Recycling Corporation's Annual Report for the U.S. Prepared by the Thermostat Recycling Corporation. http://www.thermostat-recycle.org/files/u3/2008 TRC Annual Report.pdf.

#4: Thermostats (lbs) - Each thermostat recycled is assumed to contain approximately 4.0 g (**0.004 kg**) of mercury. The average weight of one thermostat is 12 ounces. There are 1.3333 thermostats in a pound of thermostats (1 pounds/0.75 pounds = 1.33 thermostats. It is estimated that **0.005333 kg** of mercury is recycled for every pound of thermostat recycled (1.333*0.004= 0.005333). Source: Average weight of thermostat obtained from retail websites - www.amazon.com.

#5: Thermometers (each) - USEPA reports that glass mercury fever thermometers contain about 0.61 g (**0.00061 kg**) of mercury. Source: USEPA 2012. Thermometers. Available at http://www.epa.gov/mercury/thermometer-main.html. Accessed April 11, 2012.

#6: Switches (each) - The Recycling Corporation reports that one mercury switch contains 2.87 g (**0.00287 kg**) of mercury. Source: TRC 2010. Thermostat Recycling Corporation's Annual Report for California. Prepared by the Thermostat Recycling Corporation. Prepared for the State of California's Office of Pollution Prevention and Green Technology, Department of Toxic Substances Control. March 31, 2010.