



Town of Moraga

PUBLIC WORKS/ENGINEERING
DEPARTMENT

September 15, 2013

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

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

Dear Mr. Wolfe and Ms. Creedon:

Enclosed is the 2012 - 2013 Annual Report for the Town of Moraga, which is required by and in accordance with Provision C.16 in National Pollutant Discharge Elimination System (NPDES) Permit Number CAS612008 issued by the San Francisco Bay Regional Water Quality Control Board and/or by Provision C.13 in NPDES Permit Number CA0083313 issued by the Central Valley Regional Water Quality Control Board.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibly of fine and imprisonment for knowing violations.

Very truly yours,

Jill Keimach
Town Manager

Enclosure

ATTACHMENT B

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Section 1 – Permittee Information

Background Information			
Permittee Name:	Town of Moraga		
Population:	16,016		
NPDES Permit No.:	CAS612008 (San Francisco Bay RWQCB Permit)		
Order Number:	R2-2009-0074 (San Francisco Bay RWQCB)		
Reporting Time Period (month/year):	July 2012 through June 2013		
Name of the Responsible Authority:	Jill Keimach	Title:	Town Manager
Mailing Address:	329 Rheem Boulevard		
City:	Moraga	Zip Code:	94556
		County:	Contra Costa
Telephone Number:	925-888-7020	Fax Number:	925-376-5203
E-mail Address:	jkeimach@moraga.ca.us		
Name of the Designated Stormwater Management Program Contact (if different from above):	Edric Kwan	Title:	Public Works Director/Town Engineer
Department:	Public Works/Engineering		
Mailing Address:	329 Rheem Boulevard		
City:	Moraga	Zip Code:	94556
		County:	Contra Costa
Telephone Number:	925-888-7025	Fax Number:	925-376-5203
E-mail Address:	ekwan@moraga.ca.us		

Section 2 - Provision C.2 Reporting Municipal Operations

Program Highlights and Evaluation

Highlight/summarize activities for reporting year:

Summary:

The Town participates in County-wide programs including the Contra Costa Clean Water Program's (CCCWP's). Refer to the C.2 Municipal Operations section of the CCCWP's FY 12-13 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 a **Y** in the boxes next to activities where applicable BMPs were implemented. If not applicable, type **NA** in the box and provide an explanation in the comments section below. Place an **N** in the boxes next to activities where applicable BMPs were not implemented for one or more of these activities during the reporting fiscal year, then in the comments section below provide an explanation of when BMPs were not implemented and the corrective actions taken.

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

Comments: While no paving projects were performed this year, all contractors performing minor repair work, whether utility companies or Town-sponsored, were required to regularly sweep paving waste materials and spoils to ensure that gutters and storm drains were protected from sediment or other pollution. The Town's inspector provided oversight to ensure compliance.

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

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

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

Comments: The Town does not perform sidewalk or pavement washing or contract to have either performed. However, the Town inspector monitors the performance of such activities on private property throughout the Town and provides education, information support, and/or

enforcement as required.

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

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

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

Comments: The Town maintenance staff, which consists of four members, has training in capture and disposal methods for protection of storm water. The Town did not utilize contractors for bridge maintenance or graffiti removal.

C.2.d. Stormwater Pump Stations

Does your municipality own stormwater pump stations: Yes No

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

Complete the following table for dry weather DO monitoring and inspection data for pump stations¹ (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
None/not applicable	NA	NA	NA	NA

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:
 Not applicable.

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)
None/not applicable	NA	NA	NA	NA	NA	NA

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

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

C.2.f. <input type="checkbox"/> Corporation Yard BMP Implementation			
Place an X in the boxes below that apply to your corporations yard(s):			
<input type="checkbox"/>	We do not have a corporation yard		
<input type="checkbox"/>	Our corporation yard is a filed NOI facility and regulated by the California State Industrial Stormwater NPDES General Permit		
<input checked="" type="checkbox"/>	We have a 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:			
<input checked="" type="checkbox"/>	Control of pollutant discharges to storm drains such as wash waters from cleaning vehicles and equipment		
<input checked="" type="checkbox"/>	Routine inspection prior to the rainy seasons of corporation yard(s) to ensure non-stormwater discharges have not entered the storm drain system		
<input type="checkbox"/>	Containment of all vehicle and equipment wash areas through plumbing to sanitary or another collection method		
<input checked="" type="checkbox"/>	Use of dry cleanup methods when cleaning debris and spills from corporation yard(s) or collection of all wash water and disposing of wash water to sanitary or other location where it does not impact surface or groundwater when wet cleanup methods are used		
<input checked="" type="checkbox"/>	Cover and/or berm outdoor storage areas containing waste pollutants		
<p>Comments:</p> <p>The Corporation Yard for the Town is entirely paved with concrete, including drains that route the majority of pavement runoff into a bio-treatment basin. Vehicle and equipment washing as well as vehicle fueling are all performed off site.</p> <p>While the above BMPs were routinely followed for operations at the corporation yard, completion of an inspection form for the corporation yard was not performed until August 2013 due to staff turnover. Regular inspections of the corporation yard and documentation of such inspections are planned for FY 13-14.</p>			
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
331 Rheem Boulevard (Corp Yard)	8/27/2013	Inspected FLD(s) 1-6 and SD Access 1 and SD 3 and 4 for structural integrity and blockage. Note: SD 4 has new trash capture device installed in basin.	None.

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

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

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

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

Summary:

The C.3 New Development and Redevelopment section of the CCCWP's FY 12-13 Annual Report includes a description of activities conducted at the countywide or regional level.

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

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

Summary:

BASMAA has prepared a regional summary of all green street pilot projects. The Green Street Pilot Project Summary Report is being submitted by BASMAA, on behalf of the MRP permittees, in BASMAA's MRP FY 12-13 Regional Supplement – New Development and Redevelopment. The Green Streets Pilot Project Summary Report contains all of the required elements listed in Provision C.3.b.v.(2)(c) for all green street projects completed by January 1, 2013, as well as information on projects not yet completed.

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

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

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

(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.?	X	Yes		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, 2013 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: Due to staffing changes, the Town of Moraga did not complete inspections of all the installed stormwater treatment systems as planned for this fiscal year as indicated in last year's annual report. Inspection of the one newly installed facility (Moraga Commons Off-Street Parking Project) did occur within 45 days through the final inspection but the documentation of that inspection is missing. A comparison to last year's inspection findings is difficult because last year's inspection were routine while this year's inspection was a 45-day/final inspection.

(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 Town will be making changes to its O&M Program to better track installed stormwater treatment systems that require operation and maintenance verification inspections by Town staff and to ensure inspections are performed in a timely manner and filed. A review of installed stormwater treatment systems is ongoing and should be completed by the end of 2013; some of the stormwater treatment systems inspected in prior years and reported in prior year Annual Reports appear to not be associated with regulated projects (for example, facilities installed at single family residences that were not part of a larger plan of development or facilities installed at the Town's Corporation Yard). Inspection of such non-regulated facilities will be tracked separately for clearer reporting and better prioritization of inspection of facilities installed at regulated projects.

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

<ul style="list-style-type: none"> Inspect all newly installed stormwater treatment systems and HM controls within 45 days of installation? 	X	Yes		No		Not applicable. No new facilities were installed.
<ul style="list-style-type: none"> Inspect at least 20 percent of the total number of installed stormwater treatment systems or HM controls?³ 	X	Yes		No		Not applicable. No treatment measures
<ul style="list-style-type: none"> Inspect at least 20 percent of the total number of installed vault-based systems? 		Yes		No	X	Not applicable. No vault systems.

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

The only newly installed stormwater treatment system/HM control was the bioretention basin constructed as part of the Moraga Commons Off-Street Parking. The bioretention basin was built per the plans and inspected during construction. However, inspection records for the final inspection/45-day inspection cannot be located.

This year the Town inspected only the newly installed treatment systems at regulated projects. This is believed to constitute 20% of the installed stormwater treatment systems at regulated projects. As indicated above under (3), a review of the treatment systems installed in the Town is being conducted as some of the stormwater treatment systems reported in prior year Annual Reports appear to not be associated with regulated projects. The number of previously reported stormwater treatment systems is eight, but the number associated with regulated projects may be as low as four.

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

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

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

Summary:

The Contra Costa Clean Water Program adopted a December 1, 2012 addendum to the *Stormwater C.3 Guidebook, 6th Edition*. The addendum, "Preparing a Stormwater Control Plan for a Small Land Development Project," includes step-by-step instructions, a project data form, and standard specifications for runoff reduction measures. The Town of Moraga's stormwater ordinance requires that applications for development approvals for projects subject to the permit's new development requirements include a Stormwater Control Plan meeting the criteria in the most recent version of the *Stormwater C.3 Guidebook*.

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 ¹⁰ , Street Address	Name of Developer	Project Phase No. ¹¹	Project Type & Description ¹²	Project Watershed ¹³	Total Site Area (Acres)	Total Area of Land Disturbed (Acres)	Total New Impervious Surface Area (ff ²) ¹⁴	Total Replaced Impervious Surface Area (ff ²) ¹⁵	Total Pre- Project Impervious Surface Area ¹⁶ (ff ²)	Total Post- Project Impervious Surface Area ¹⁷ (ff ²)
Private Projects											
Hetfield Estates/ Subdivision 9051	Hetfield Place Moraga, CA	The Wyro Company	NA	Residential subdivision with 7 single family homes	Moraga Creek	58.2	TBD	TBD	0	0	TBD
Joseph L. Alioto Recreation Center	Saint Mary's College 1928 Saint Mary's Road Moraga, CA	Saint Mary's College	NA	Construction of new recreation center, pool, driveways for fire access and portion of parking lot	Laguna Creek	4.76	4.58	133,294	12,632	31,363	154,202
Expansion of Existing North Parking Lot	Saint Mary's College 1928 Saint Mary's Road Moraga, CA	Saint Mary's College	NA	Construction of additional parking lot for student parking	Las Trampas Creek	0.67	0.67	19,166	0	0	19,166
Public Projects											
Moraga Commons Off- Street Parking	1425 St. Mary's Road Moraga, CA	Town of Moraga	NA	Construction of off- street parking at Moraga Commons	Laguna Creek	0.52	0.52	12,042	0	0	12,042

Comments: For the Hetfield Project, the Conceptual Plan and EIR were approved in FY 12-13. Because the approved plan is conceptual, the area of land disturbed, the total new impervious area and the total post-project impervious area are not yet known. A Condition of Approval was imposed with the Conceptual Plan approval requiring compliance with Provision C.3 and submittal of a stormwater treatment plan as part of the General Development and Tentative map applications.

¹⁰ Include cross streets

¹¹ If a project is being constructed in phases, indicate the phase number and use a separate row entry for each phase. If not, enter "NA".

¹² Project Type is the type of development (i.e., new and/or redevelopment). Example descriptions of development are: 5-story office building, residential with 160 single-family homes with five 4-story buildings to contain 200 condominiums, 100 unit 2-story shopping mall, mixed use retail and residential development (apartments), industrial warehouse.

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

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

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

¹⁶ For redevelopment projects, state the pre-project impervious surface area.

¹⁷ For redevelopment projects, state the post-project impervious surface area.

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

Project Name Project No.	Application Deemed Complete Date ¹⁸	Application Final Approval Date ¹⁹	Source Control Measures ²⁰	Site Design Measures ²¹	Treatment Systems Approved ²²	Type of Operation & Maintenance Responsibility Mechanism ²³	Hydraulic Sizing Criteria ²⁴	Alternative Compliance Measures ^{25/26}	Alternative Certification ²⁷	HM Controls ^{28/29}
Private Projects										
Hettfield Estates/ Subdivision 9051	Unknown	7/16/2012 Conceptual Plan approved with condition of approval to prepare Stormwater Control Plan	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Joseph L. Alioto Recreation Center	May 9, 2012	July 2, 2012	Parking lot sweeping; trash storage areas; storm drain stenciling; efficient landscape irrigation; fire sprinkler and swimming pool backflow connected to sanitary sewer	Minimize walkways and vehicle paths (underlying soils do not allow use of pervious pavers or concrete)	Bio-retention facilities and self-retaining areas	O&M agreement with private landowner	1b	NA	NA	Bio-retention basins sized for treatment and flow control per the CCCWP C.3 Guidebook

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

¹⁹ For private projects, state project application final discretionary approval date. If the project did not go through discretionary review, report the building permit issuance date.

²⁰ List source control measures approved for the project. Examples include: properly designed trash storage areas; storm drain stenciling or signage; efficient landscape irrigation systems; etc.

²¹ List site design measures approved for the project. Examples include: minimize impervious surfaces; conserve natural areas, including existing trees or other vegetation, and soils; construct sidewalks, walkways, and/or patios with permeable surfaces, etc.

²² List all approved stormwater treatment system(s) to be installed onsite or at a joint stormwater treatment facility (e.g., flow through planter, bioretention facility, infiltration basin, etc.).

²³ List the legal mechanism(s) (e.g., O&M agreement with private landowner; O&M agreement with homeowners' association; O&M by public entity, etc...) that have been or will be used to assign responsibility for the maintenance of the post-construction stormwater treatment systems.

²⁴ See Provision C.3.d.i. "Numeric Sizing Criteria for Stormwater Treatment Systems" for list of hydraulic sizing design criteria. Enter the corresponding provision number of the appropriate criterion (i.e., 1.a., 1.b., 2.a., 2.b., 2.c., or 3).

²⁵ For Alternative Compliance at an offsite location in accordance with Provision C.3.e.i.(1), on a separate page, give a discussion of the alternative compliance site including the information specified in Provision C.3.b.v.(1)(m)(i) for the offsite project.

²⁶ For Alternative Compliance by paying in-lieu fees in accordance with Provision C.3.e.i.(2), on a separate page, provide the information specified in Provision C.3.b.v.(1)(m)(ii) for the Regional Project.

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

²⁸ If HM control is not required, state why not.

²⁹ If HM control is required, state control method used (e.g., method to design and size device(s) or method(s) used to meet the HM Standard, and description of device(s) or method(s) used, such as detention basin(s), bioretention unit(s), regional detention basin, or in-stream control).

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

Project Name Project No.	Application Deemed Complete Date ³⁰	Application Final Approval Date ³¹	Source Control Measures ³²	Site Design Measures ³³	Treatment Systems Approved ³⁴	Type of Operation & Maintenance Responsibility Mechanism ³⁵	Hydraulic Sizing Criteria ³⁶	Alternative Compliance Measures ^{37/38}	Alternative Certification ³⁹	HM Controls ^{40/41}
Private Projects										
Expansion of Existing North Parking Lot	May 9, 2012	July 2, 2012	Parking lot sweeping; trash receptacles	Minimize impervious surfaces (underlying soils do not allow use of pervious pavers or concrete)	Bio-retention facility	O&M agreement with private landowner	1b	NA	NA	Bio-retention basins sized for treatment per the CCCWP C.3 Guidebook; detention pipe below bio-retention facility designed to detain peak runoff in 10-year storm.
Comments:										

³⁰ For private projects, state project application deemed complete date. If the project did not go through discretionary review, report the building permit issuance date.

³¹ For private projects, state project application final discretionary approval date. If the project did not go through discretionary review, report the building permit issuance date.

³² List source control measures approved for the project. Examples include: properly designed trash storage areas; storm drain stenciling or signage; efficient landscape irrigation systems; etc.

³³ List site design measures approved for the project. Examples include: minimize impervious surfaces; conserve natural areas, including existing trees or other vegetation, and soils; construct sidewalks, walkways, and/or patios with permeable surfaces, etc.

³⁴ 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.).

³⁵ 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.

³⁶ 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).

³⁷ 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.

³⁸ 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.

³⁹ Note whether a third party was used to certify the project design complies with Provision C.3.d.

⁴⁰ If HM control is not required, state why not.

⁴¹ If HM control is required, state control method used (e.g., method to design and size device(s) or method(s) used to meet the HM Standard, and description of device(s) or method(s) used, such as detention basin(s), bioretention unit(s), regional detention basin, or in-stream control).

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

Project Name Project No.	Approval Date ⁴²	Date Construction Scheduled to Begin	Source Control Measures ⁴³	Site Design Measures ⁴⁴	Treatment Systems Approved ⁴⁵	Operation & Maintenance Responsibility Mechanism ⁴⁶	Hydraulic Sizing Criteria ⁴⁷	Alternative Compliance Measures ^{48/49}	Alternative Certification ⁵⁰	HM Controls ^{51/52}
Public Projects										
Moraga Commons Off-Street Parking Project	August 7, 2012	October 2012	Trash receptacles	Bio-retention basin	Bio-retention basin	Town-maintained	2c	NA	NA	HM not required because < 1 acre new/replaced impervious surface

Comments:
Moraga Commons Off-Street Parking Project became a capital improvement project in 2010. Staff received funding approval from cities of Lafayette and Orinda in Fall 2011. Request for proposal was issued in October 2011. Based on bids received, Town re-evaluated the project and re-scoped project to reduce costs. Project was re-bid in August 2012 and awarded in September 2012.

⁴² For public projects, enter the plans and specifications approval date.

⁴³ List source control measures approved for the project. Examples include: properly designed trash storage areas; storm drain stenciling or signage; efficient landscape irrigation systems; etc.

⁴⁴ List site design measures approved for the project. Examples include: minimize impervious surfaces; conserve natural areas, including existing trees or other vegetation, and soils; construct sidewalks, walkways, and/or patios with permeable surfaces, etc.

⁴⁵ 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.).

⁴⁶ List the legal mechanism(s) (e.g., maintenance plan for O&M by public entity, etc...) that have been or will be used to assign responsibility for the maintenance of the post-construction stormwater treatment systems.

⁴⁷ 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).

⁴⁸ 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.

⁴⁹ 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.

⁵⁰ Note whether a third party was used to certify the project design complies with Provision C.3.d.

⁵¹ If HM control is not required, state why not.

⁵² If HM control is required, state control method used (e.g., method to design and size device(s) or method(s) used to meet the HM Standard, and description of device(s) or method(s) used, such as detention basin(s), bioretention unit(s), regional detention basin, or in-stream control).

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

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

Name of Facility/Site Inspected	Address of Facility/Site Inspected	Newly Installed? (YES/NO) ⁵³	Party Responsible ⁵⁴ For Maintenance	Date of Inspection	Type of Inspection ⁵⁵	Type of Treatment/HM Control(s) Inspected ⁵⁶	Inspection Findings or Results ⁵⁷	Enforcement Action Taken ⁵⁸	Comments/Follow-up
Moraga Commons Off-Street Parking Project	1425 St. Mary's Road Moraga, CA	Yes	Town of Moraga	Unknown (inspection completed but paperwork cannot be located)	45-day/final	Bioretention Facility	Proper installation	No	None

⁵³ Indicate "YES" if the facility was installed within the reporting period, or "NO" if installed during a previous fiscal year.

⁵⁴ State the responsible operator for installed stormwater treatment systems and HM controls.

⁵⁵ State the type of inspection (e.g., 45-day, routine or scheduled, follow-up, etc.).

⁵⁶ 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.

⁵⁷ State the inspection findings or results (e.g., proper installation, improper installation, proper O&M, immediate maintenance needed, etc.).

⁵⁸ State the enforcement action(s) taken, if any.

C.3.e.vi.Special Projects Reporting Table												
Reporting Period – January 1 – June 30, 2013												
Project Name & No.	Permittee	Address	Application Submittal Date ⁵⁹	Status ⁶⁰	Description ⁶¹	Site Total Acreage	Density DU/Acre	Density FAR	Special Project Category ⁶²	LID Treatment Reduction Credit Available ⁶³	List of LID Stormwater Treatment Systems ⁶⁴	List of Non-LID Stormwater Treatment Systems ⁶⁵
None	Moraga	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

⁵⁹ Date that a planning application for the Special Project was submitted.

⁶⁰ 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.

⁶¹ Type of project (commercial, mixed-use, residential), number of floors, number of units, type of parking, and other relevant information.

⁶² For each applicable Special Project Category, list the specific criteria applied to determine applicability. For each non-applicable Special Project Category, indicate n/a.

⁶³ 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.

⁶⁴ 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.

⁶⁵ 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.

The Town's Business Inspection Plan is modified as new needs and/or requirements are identified and is updated annually with updated lists of potential facilities and facilities scheduled for inspection. The Town contracts with Central Contra Costa Sanitary District to update the target businesses as well as inspection frequencies and priorities. The Town's stormwater consultant attended CCCWP Commercial/Industrial Stormwater Inspection Training Workshop. Refer to the C.4. Industrial and Commercial Site Controls section of the CCCWP's FY 12-13 Annual Report for a description of activities of the CCCWP's Municipal Operations Committee and/or the BASMAA Municipal Operations Committee.

C.4.b.i. Business Inspection Plan

Do you have a Business Inspection Plan? 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.

See attached Town inventory (Attachment C.4.b.iii.(1)).

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.

See attached Town list of facilities scheduled for inspection (Attachment C.4.b.iii.(2)).

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

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

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

	Number	Percent
Number of businesses inspected	16	
Total number of inspections conducted	24	
Number of violations (excluding verbal warnings)	2	
Sites inspected in violation	1	6%
Violations resolved within 10 working days or otherwise deemed resolved in a longer but still timely manner	2	100%

Comments:
 Sites where no actual discharge is observed and verbal warnings are issued are not considered to be in violation. Sites where discharge has or is taking place are given written Notices of Violation and require follow-up. All violations were resolved within 10 days. Two violations were issued for one site inspected in violation; one violation was issued to the company operating a food service at an education institution and the second violation was issued to the education institution.

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)	1
Potential discharge and other	0

Comments:
 One or more discharges at a single site are counted as a single violation. One actual discharge occurred in the discharge violation above (non-stormwater discharged to the storm drain system).

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) ⁶⁰	Number of Enforcement Actions Taken	% of Enforcement Actions Taken⁶¹
Level 1	Verbal Warning / Warning Notice of Education	0	0%
Level 2	Written Notice of Violation	2	100%
Level 3	Administrative Citation	0	0%
Level 4	Legal Action / Referral to State	0	0%
Total		2	100%

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 Category⁶²	Number of Actual Discharge Violations	Number of Potential/Other Discharge Violations
Commercial	0	0
Dry Cleaner	0	0
Food Service	1	0
Gas Station	0	0
Grocery Store	0	0
Permitted IU	1	0
Retail	0	0
Utility	0	0
Vehicle Service	0	0

C.4.c.iii.(4) Non-Filers

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

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

⁶⁰ Agencies to list specific enforcement actions as defined in their ERPs.
⁶¹ Percentage calculated as number of each type of enforcement action divided by the total number of enforcement actions.
⁶² 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
Commercial/Industrial Stormwater Inspection Training Workshop (CCCWP)	5/16/13	<ul style="list-style-type: none"> • What you can and cannot do in a creek • State General Industrial Permit Reissuance • Management and cleanup of PCBs • Field trip/training on how to inspect a large water park including restaurant, parking, shopping and entertainment facilities 	7	78%
CWEA Pretreatment, Pollution Prevention, and Stormwater Annual Conference	2/25 -27/13	<ul style="list-style-type: none"> • Stormwater BMPs • Inspector training sessions • Outreach 	7	78%
CWEA Labs 101 – Back to Basics	6/6/13	<ul style="list-style-type: none"> • Good sampling methods • Sample handling 	6	67%
CWEA – NRTC including Plan Review 101	9/12-13/12	<ul style="list-style-type: none"> • Stormwater education and outreach • Plan Reviews 	6	67%
CWEA Annual Conference	4/17-19/13	<ul style="list-style-type: none"> • Inspector Training • Stormwater BMPs • Outreach 	3	33%
CalEPA Basic Inspector Academy	6/10-13/13	<ul style="list-style-type: none"> • Investigation • Evidence • Witness testimony • Case Development • Interagency Coordination 	1	11%

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

Program Highlights

Provide background information, highlights, trends, etc.

The Town conducts annual inspections and cleaning of all municipally-maintained drain inlets. These inspections and observations aid in the detection of illicit discharges. The detection and abatement of illicit discharges remains unchanged with no complaints received or illicit discharges identified. Town staff continues to participate in the CCCWP's Municipal Operations. Refer to the C.5 Illicit Discharge Detection and Elimination section of CCCWP's FY 12-13 Annual Report for description of activities conducted at the countywide or regional level of behalf of all Permittees.

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
#1. 1-800-NO-DUMPING	County-wide contact number	1-800-NO-DUMPING
#2. Moraga Police Department	Police Interface for Dispatch	925-284-5010

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 Town of Moraga does not directly engage or hire Mobile Surface Cleaners. The Town's inspector will respond to community reports or observations to provide guidance and education to Mobile Surface Cleaners. Please refer to the C.5 Illicit Discharge Detection and Elimination section of the CCCWP's FY 12-13 Annual Report for a description of efforts by the CCCWP's Municipal Operations Committee 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 Town of Moraga has approximately 1,100 storm drain inlets including approximately 50 on private property. The Town maintenance crew visits every municipally-maintained drain inlet at least once per year (generally in the fall) for cleaning and inspection, or as needed to respond to a complaint or to retrieve lost items. Inlets with substantial debris accumulation are scheduled for an additional visit, generally during the rainy season. The Town has not observed major trash accumulation in any inlets but does clean out substantial organic debris (leaves, etc.) from the many trees along the streets. The level of debris accumulation is relatively unchanged from previous years. In FY 2012-2013,

there were no reported or observed illicit discharges.

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

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

	Number	Percentage
Discharges reported (C.5.f.iii.(1))	0	
Discharges reaching storm drains and/or receiving waters (C.5.f.iii.(2))	0	0
Discharges resolved in a timely manner (C.5.f.iii.(3))	NA	NA

Comments:
 The Town would receive a notice of a spill or discharge via the County's dumping complaint hotline, the police department, or directly to the Public Works department. If a complaint is received, the Town's inspector will investigate and determine the appropriate course of action based on the Town's Enforcement Response Plan. The volume of reports has been very small over the past years as noted in the above data (there were no reports of illicit discharges or spills in FY 11-12 or FY 12-13).

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

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

No spills or discharges were reported in FY 12-13.

Section 6 – Provision C.6 Construction Site Controls

C.6.e.iii.1.a, b, c □ Site/Inspection Totals		
Number of High Priority Sites (sites disturbing < 1 acre of soil requiring storm water runoff quality inspection) (C.6.e.iii.1.a)	Number of sites disturbing ≥ 1 acre of soil (C.6.e.iii.1.b)	Total number of storm water runoff quality inspections conducted (include only High Priority Site and sites disturbing 1 acre or more) (C.6.e.iii.1.c)
0	2	14
Comments: The two sites disturbing great than one acre of soil in FY 12-13 were the Alioto Recreation Center at St Mary's College and the Borrow Site for that same project. The grading permits for these projects were issued in July 2012. Due to delays in finalization of the building plans, the construction sites were closed down prior to the 2012-2013 rainy season. The sites were buttoned up for the winter in September/October 2012. Monthly inspections were performed by the grading inspector to ensure proper installation of BMPs and continued maintenance of BMPs throughout the rainy season.		

C.6.e.iii.1.d Construction Activities Storm Water Violations		
BMP Category	Number of Violations⁶³ excluding Verbal Warnings	% of Total Violations⁶⁴
Erosion Control	0	0%
Run-on and Run-off Control	0	0%
Sediment Control	0	0%
Active Treatment Systems	0	0%
Good Site Management	0	0%
Non Stormwater Management	0	0%
Total⁶⁵		NA

⁶³ Count one violation in a category for each site and inspection regardless of how many violations/problems occurred in the BMP category. For example, if during one inspection at a site, there are 2 erosion control violations, only 1 violation would be counted for this table.

⁶⁴ Percentage calculated as number of violations in each category divided by total number of violations in all six categories.

⁶⁵ The total number of violations may count more than one violation per inspection, since some inspections may result in violations in more than one category. For example, during one inspection of a site, there may have been both an erosion control violation and a sediment control violation. For this reason, the total number of violations in this table may not match the total number of enforcement actions reported in Table C6.e.iii.1.e.

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

	Enforcement Action (as listed in ERP) ⁶⁶	Number Enforcement Actions Issued	% Enforcement Actions Issued ⁶⁷
Level 1 ⁶⁸	Verbal or written warning	0	0%
Level 2	Notice of violation	0	0%
Level 3	Administrative citation	0	0%
Level 4	Legal action/referral to State	0	0%
Total			NA

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

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

⁶⁶ Agencies should list the specific enforcement actions as defined in their ERPs.

⁶⁷ Percentage calculated as number of each type of enforcement action divided by the total number of enforcement actions.

⁶⁸ For example, Enforcement Level 1 may be Verbal Warning.

C.6.e.iii.1.h, i □ Violation Correction Times		
	Number	Percent
Violations (excluding verbal warnings) fully corrected within 10 business days after violations are discovered or otherwise considered corrected in a timely period (C.6.e.iii.1.h)	0	0% ⁶⁹
Violations (excluding verbal warnings) not fully corrected within 30 days after violations are discovered (C.6.e.iii.1.i)	0	0% ⁷⁰
Total number of violations (excluding verbal warnings) for the reporting year⁷¹	0	NA
Comments:		

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: It is difficult to compare to previous years as there has been a fluctuation in the number of projects requiring inspection. As such, it is difficult to develop a trend from the data. For example, there were no construction projects to inspect in FY 11-12 while in in FY 10-11, three sites were inspected and 15 violations occurred. With only two projects to inspect, the projects being linked, and the projects being buttoned down for the winter, BMP performance issues and thus the potential for violations were minimized.

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: Given the economic downturn of the last several years, there has been minimal construction in the Town the last few years. As construction projects increase, the Town will review and optimize its inspection data tracking tools to accommodate the increased inspection load. The Town contracts its grading inspection services with Contra Costa County Building Inspection Department whose staff receives training periodically through the CCCWP and other entities. Refer to the C.6 Construction Site Control section of the CCCWP's FY 12-13 Annual Report for a description of activities at the countywide or regional level.

⁶⁹ 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.

⁷⁰ 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.

⁷¹ The total number of violations reported in the table of Violation Correction Times equals the number of initial enforcement actions. This assumes one violation is issued for several problems during an inspection at a site. The total number of violations in the table of Violation Correction Times may not equal the total number of enforcement actions because one violation issued at a site may have a second enforcement action for the same violation at the next inspection if it is not corrected.

C.6.f Staff Training Summary

Training Name	Training Dates	Topics Covered	No. of Inspectors in Attendance	Percent of Inspectors in Attendance
None this fiscal year	NA	NA	NA	NA

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

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

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

Summary:

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

- 2009-10: 80 %
- 2010-11: 80 %
- 2011-12: 80%
- 2012-13: 80%

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

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

Summary:

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

- 2009-10: 0 projects
- 2010-11: 0 projects
- 2011-12: 0 projects
- 2012-13: 0 projects

Marking of storm drain inlets is required for all projects including those with private maintained streets. The installation of markers is verified at the final inspection prior to final acceptance/approval of a project. Due to the economy, no new private streets have been constructed during the indicated periods.

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:
 Refer to Section 7 in the CCCWP's FY 12-13 Annual Report for a complete review of advertising efforts conducted by the CCCWP on behalf of all Permittees.

C.7.b.iii.1 Pre-Campaign Survey

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

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

<input type="checkbox"/>	Survey report attached
<input checked="" type="checkbox"/>	Reference to regional submittal: Refer to Section C.7 in the CCCWP's FY 12-13 Annual Report for complete details on the pre-campaign survey conducted for the CCCWP's Pesticide Campaign.

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:
 Given its limited resources the Town of Moraga finds its more cost-effective and practical to participate in regional media efforts rather than more geographically limited ones. The Town met its use of free media requirement through BASMAA's six press releases during FY 12-13. Refer to BASMAA's "MRP Regional Supplement for Training and Outreach Report" for a summary of media relations efforts conducted during FY 12-13 on behalf of all Permittees. In addition, the Town publishes clean water outreach messages via the Town's recreation guide, which is mailed tri-annually to all Town residents. Outreach messages during the FY 12-13 year included: August 2012: Safeguard our Stormdrains (article on keeping them clean of debris), December 2012: Clean Pools (article on how to properly drain pools and rinse filters), and April 2013: Keeping your Vehicles Clean (article on how and when to wash your car).

C.7.d ☐ Stormwater Point of Contact

Summary of any changes made during FY 12-13:
 No changes made during FY 12-13. Refer to Section C.7 of the CCCWP's FY 12-13 Annual Report for efforts conducted countywide to publicize stormwater points of contact (e.g. CCCWP's website, hotline, outreach materials, etc.).

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
Community Faire in Moraga, May 12, 2012	This is an informational, "get-acquainted" type of event to introduce goods and services to the residents. Held at one of the two shopping centers, the attendance has grown in past years. Clean Water materials were distributed and questions answered.	Although attendance at the overall fair continues to grow, visits to the stormwater booth are limited and Town staff continues to identify ways to increase visits. All the Clean Water materials and giveaways were handed out.
Pear Festival at Commons Park in Moraga, September 29, 2012	Public festival with informational booths, food and entertainment. Provided trash removal, Clean Water program materials, and answered questions from residents. In addition, this year Mr. Funnelhead attended the event, increasing outreach to children.	This annual event is well attended by residents and visits to the stormwater information booth reflect a moderate level of interest. Over 200 giveaways with clean water messages were distributed.
Bringing Back the Natives Garden Tour, May 2013	Tour to encourage landscaping using native plants, minimizing pesticides and fertilizer use, water conservation, mulching and composting, etc. for East Bay residents. Two gardens in Moraga were featured on this year's tour (an increase from last year's single garden in Moraga), making the tour more accessible to Moraga residents.	See the FY 12/13 Group Program Annual Report, Section C.7, for further details regarding the effectiveness of this event. The two Moraga gardens each had slightly more than 400 visitors each.
Our Water Our World	See the Fiscal Year 2012/2013 Group Program Annual Report, Section C.7 for further information.	See the Fiscal Year 2012/2013 Group Program Annual Report, Section C.7 for further information.

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:

Please see the Fiscal Year 2012-2013 Group Program Annual Report, Section C.7, for a detailed report on BASMAA and the Program's encouragement and support of various Watershed Stewardship Collaborative Efforts, which includes support of the Bay Friendly Landscape Coalition and County-wide staff participation in the Contra Costa Watershed Forum and support of the Green Business Program.

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
Community Watershed Stewardship Grant Program	See the Fiscal Year 2012/2013 Group Program Annual Report, Section C.7 for further information.	See the Fiscal Year 2012/2013 Group Program Annual Report, Section C.7 for further information.

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
Development and Implementation of the "Be Classy Not Trashy" Youth Outreach Litter Campaign	See the Fiscal Year 2012/2013 Group Program Annual Report, Section C.7 for further information.	See the Fiscal Year 2012/2013 Group Program Annual Report, Section C.7 for further information.	See the Fiscal Year 2012/2013 Group Program Annual Report, Section C.7 for further information.
Mr. Funnelhead	In addition to outreach throughout the County, Mr. Funnelhead attended the Town's Pear Festival in September 2012 and entertains while he teaches about the importance of storm drain pollution and the recycling of used motor oil and filters. Along the way, Mr. Funnelhead encounters different characters improperly disposing used motor oil. The shows include a state of the art sound system, lights, special effects and quality actors as well as a diorama.	See the Fiscal Year 2012/2013 Group Program Annual Report, Section C.7 for further information. While the number of attendees is unknown, approximately 200 outreach pieces were given away at the Pear Festival.	See the Fiscal Year 2012/2013 Group Program Annual Report, Section C.7 for further information.

C.7.i. ☐ Outreach to Municipal Officials

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

Summary:
 On April 10, 2013, Town staff presented to Council a report on the importance of the activities of the Town's and County's Clean Water Program as part of adoption of a resolution to establish a stormwater parcel assessment. In addition, Town staff presented to Council on October 10, 2012 regarding adoption of a resolution to support the Walnut Creek Watershed Council and discussed the importance of this council for Municipal Regional Permit coordination among other benefits.

Section 8 - Provision C.8 Water Quality Monitoring

C.8 Water Quality Monitoring

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

Summary

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

Section 9 – Provision C.9 Pesticides Toxicity Controls

C.9.b Implement IPM Policy or Ordinance

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

Trends in Quantities and Types of Pesticides Used⁷²

Pesticide Category and Specific Pesticide Used	Amount ⁷³				
	FY 09-10	FY 10-11	FY 11-12	FY 12-13	FY 13-14
Organophosphates	0	0	0	0	
Pyrethroids	0	0	0	0	
Carbaryl	0	0	0	0	
Fipronil	0	0	0	0	

C.9.c Train Municipal Employees

Enter the number of employees that applied or used pesticides (including herbicides) within the scope of their duties this reporting year.	4
Enter the number of these employees who received training on your IPM policy and IPM standard operating procedures within the last 3 years.	4
Enter the percentage of municipal employees who apply pesticides who have received training in the IPM policy and IPM standard operating procedures within the last three years.	100%

⁷² Includes all municipal structural and landscape pesticide usage by employees and contractors.

⁷³ Weight or volume of the product or preferably its active ingredient, using same units for the product each year. The active ingredients in any pesticide are listed on the label. The list of active ingredients that need to be reported in the pyrethroids class includes: allethrin, bifenthrin, beta-cyfluthrin, bioallethrin, cyfluthrin, cypermethrin, cyphenothrin, deltamethrin, esfenvalerate, etofenprox, fenpropathrin, gamma-cyhalothrin, imiprothrin, lambda-cyhalothrin, metofluthrin, permethrin, phenothrin, prallethrin, resmethrin, sumithrin (d-phenothrin), tau-fluvalinate, tefluthrin, tetramethrin, tralomethrin, cis-permethrin, and zeta-cypermethrin.

C.9.d Require Contractors to Implement IPM

Did your municipality contract with any pesticide service provider in the reporting year?				<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
If yes, attach one of the following:							
<input type="checkbox"/>	Contract specifications that require adherence to your IPM policy and standard operating procedures, OR						
<input type="checkbox"/>	Copy(ies) of the contractors' IPM certification(s) or equivalent, OR						
<input type="checkbox"/>	Equivalent documentation.						
If Not attached , explain: The Town staff performs all tasks related to IPM in-house because Town staff is trained in the proper pesticide application methods. All work in the Town on public lands (thistle eradication project on Mulholland Ridge undertaken by Contra Costa County) adheres to the Town IPM's policy.							

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 12-13, we participated in regulatory processes related to pesticides through contributions to the CCCWP, BASMAA and CASQA. For additional information, see the Regional Pollutants of Concern Report submitted by BASMAA on behalf of all MRP Permittees.	

C.9.f Interface with County Agricultural Commissioners

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

**C.9.g. ☐ Evaluate Implementation of Source Control Actions
Relating to pesticides**

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

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

Summary:

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

The American Public Works Associations's Northern California Chapter recognized the Town of Moraga's Integrated Pest Management (IPM) program by awarding it the 2012 Project of the Year under the Small Cities/Rural Communities' Environmental category. The Town's IPM is an ecosystem-based strategy that focuses on long-term control of pest damage through a combination of eco-friendly techniques. Additionally, Travis McCord, Senior Administrative Assistant, was recognized for extensive training in Public Works operations.

The Town's IPM Program was implemented in 2006 and has proven to be highly effective in reducing the Town's use of pesticides. The Town uses 100 percent organic fertilizers and orange peel products to control termites. The only chemical still in use is RoundUp, which is occasionally applied to median strips. Staff is highly trained in IPM such that staff retention has become an issue as their training makes them highly desirable employees to other agencies.

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:

The Town of Moraga relied on the outreach conducted county-wide of the Our Water Our World program with tabling and outreach events at stores countywide. Please see the C.9 Pesticides Toxicity Control section of CCCWP's FY 12-13 Annual Report for further information on point of purchase public outreach conducted countywide and regionally.

C.9.h.iv Pest Control Contracting Outreach

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

Summary:

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

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

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

Summary:

See the C.9 Pesticides Toxicity Control section of CCCWP's FY 12-13 Annual Report for a summary of our participation in and contributions towards countywide and regional public outreach to pest control operators and landscapers to reduce pesticide use.

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

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

Section 10 - Provision C.10 Trash Load Reduction

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

Provide the following:

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

Descriptions of Actions/Tasks (Conducted or Planned):

- Full Trash Capture devices have been installed in many of the areas identified in the trash generation map as being medium and high trash generation areas. As of June 30, 2013, 31 full trash capture devices are online. They are located in the two main commercial areas of town (Moraga Center and Rheem Center), adjacent to Campolindo High School, and in surrounding areas. See Section C.10.a.iii for more information.
- The devices that are in the ground and online are REM – Triton Bioflex Drop Inlet Trash Guards. These are full capture devices.
- The City is currently reviewing options to consider the installation of additional Full Trash Capture devices in medium trash generation areas identified on the trash generation map. Full trash capture devices have been installed in all municipally-maintained inlets in high trash generation areas.
- Two maps are attached to this annual report as Attachment C.10: The Town of Moraga Draft Full Trash Capture Map shows the locations of all full capture devices installed to-date. The Town of Moraga Draft Trash Management Areas Map shows the trash generation rates, the creek/shoreline trash hot spot, and the trash management areas that have been developed to date. Five Trash Management Areas are shown: 1 – Moraga Town Center, 2 – Rheem Center, 3 – Campolindo High School Area, 4 – Elementary/Middle Schools, and 5- Remaining Areas.

Descriptions of Maintenance Activities:

- The City performed its first maintenance events this past year on March 25, 2013. The quantity of debris collected from all the devices was 1.96 cubic yards. All of the devices were found to be functioning as designed and no further maintenance to the device was needed.
- Trash was removed from four of the inlets: one at Moraga Center, one at Rheem Center, and two in the Campolindo High School areas. The remaining devices contained only landscape debris and silt. The vendor performing the maintenance did not report the proportion of trash to landscape debris/silt.
- Maintenance activities are scheduled to be performed three times a year: once in the fall at the beginning of the rainy season, once during winter, and once during the spring season. Tasks performed at each maintenance event include: removal and disposal of all captured debris and material; vacuum and power wash filters; inspect each filter; and replace and recharge filter media as needed.

C.10.a.iii ☐ Minimum Full Trash Capture (List of Devices)					
Provide a list of trash full capture devices installed to-date or planned for installation by July 1, 2014 and the land area treated by each device or group of devices.					
Applicable Trash Management Area (Preliminary Map ID)	Device Type	Planned or Installed	Maintenance Frequency	Total Number Installed	Total Area Treated (acres)
1. Moraga Center	Revel Environmental Manufacturing (REM) Storm Water Filters: Triton Bioflex Trash Guard (BFTG) Drop Inlet	Installed	Three times annually (October/November, February/March, and May/June)	6	6.66
2. Rheem Center	REM Storm Water Filters: Triton BFTG Drop Inlet	Installed	Three times annually (October/November, February/March, and May/June)	9	10.13
3. Campolindo High School Area	REM Storm Water Filters: Triton BFTG Drop Inlet	Installed	Three times annually (October/November, February/March, and May/June)	11	8.40
5. Remaining Areas	REM Storm Water Filters: Triton BFTG Drop Inlet	Installed	Three times annually (October/November, February/March, and May/June)	5	13.37
Totals				31	38.56

C.10.b.iii ☐ Trash Hot Spot Assessment

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

Trash Hot Spot	Cleanup Date	FY 2012-13 Volume of Trash Removed (cubic yards)	FY 2011-12 Volume of Trash Removed (cubic yards)	FY 2010-11 Volume of Trash Removed (cubic yards)	Dominant Type(s) of Trash	Trash Sources (where possible)
Moraga Creek(across from Campolindo High School, Moraga Road)	Weekly cleanups conducted by volunteers (Due to staff turnover, a cleanup per the C.10.b.iii protocols was not conducted this fiscal year but will be performed prior to the 2013-14 rainy season)	~0.20 cubic yards	~0.20 cubic yards	~0.20 cubic yards	Bottles (plastic or glass), paper and cardboard, other plastic products, and golf or tennis balls	Campolindo High School, bus stop

C.10.c <input type="checkbox"/> Long-Term Trash Load Reduction Plan	
Provide descriptions of the progress made to-date on the development of Long-term Trash Load Reduction Plans due to the Water Board by February 1, 2014.	
Long-Term Plan Task	Summary of Progress
1. Identifying and mapping trash generating areas	<p>The Town of Moraga has completed the ground-truthing process for the Trash Generation Map. Areas identified have been adjusted and updated as necessary. The finalized Trash Generation Map that will be used for the development of the Long-Term Trash Load Reduction Plan has been included in this Annual Report as an attachment. The Town will use this map in addition to other tools to develop and prioritize trash management activities.</p> <p>The Trash Generation Map refinement process entailed the following steps: Step 1: Town staff identified areas with a potentially incorrect trash generation category (either too high or too low). Step 2: Town staff performed a ground-truth exercise using several metrics (i.e., on land visual assessment, Google maps street view, and municipal staff knowledge). Step 3: Completion of tracking sheet to document the data collected in steps 1 and 2. Step 4: Submittal of revised trash map and tracking worksheet to create the final trash generation map submitted with this report.</p>
2. Identifying trash sources (as necessary or feasible) to assist in selecting trash management actions	<p>One of the aspects of the trash generation map refinement process was to identify trash sources within trash generation areas. Trash generation sources identified include but are not limited too:</p> <ul style="list-style-type: none"> • Moving Vehicles • General Litter • Restaurants • Convenience Stores • Schools • Shopping Centers • Bus stops • Special Events • Overflowing dumpsters/recycling bins • Parked cars

3. Prioritizing trash generating areas and associated types of trash problems	The prioritization of trash generating areas has been completed. The City has identified 4 Trash Management Areas for the long-term trash management plan. Activities associated for these areas are currently under development.
4. Identifying and selecting trash management actions for specific management areas	Specific actions and activities for the identified trash management areas are currently being developed.
5. Defining the type of assessment(s) that will be used to demonstrate progress towards goals	Assessment methods are currently being developed regionally. These methods will be adapted for use in the Town of Moraga and will be incorporated in our Long Term Trash Management Plan.

C.10.d Summary of Trash Reduction Actions

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

Action	Description	Trash Management Area(s) (Preliminary Map ID)	Dominant Sources	Dominant Types
Trash Management Area Specific Actions				
Full-Capture Treatment Devices	Continued Pre-MRP Actions: None installed pre-MRP.	NA	Bus stops, special events, parked cars.	Plastic bags, Polystyrene

C.10.d Summary of Trash Reduction Actions

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

Action	Description	Trash Management Area(s) (Preliminary Map ID)	Dominant Sources	Dominant Types
	<p>New/Enhanced Post-MRP Actions Initiated/Planned: The Town of Moraga installed 31 full-trash capture devices during FY 12-13. Installation of the REM Triton Bioflex Drop Inlet Trash Guards took place on September 20 and 23, 2012.</p> <p>The Town is planning to look into the benefits of adding additional full trash capture devices in trash management area 1 (School Street, Country Club drive, etc.) to see if there is a potential for additional quantifiable trash reduction in this area.</p>	1, 2, 3, and 5		foam food containers, Fast food plastic/paper wraps, Plastic food packaging, and cigarette butts.
Street Sweeping	Continued Pre-MRP Actions: Street sweeping of most streets in residential, retail, and arterial streets twice per year	Jurisdiction-wide	Pedestrian litter, moving and parked vehicles, general litter, restaurants, convenience stores, schools, shopping centers, bus stops, special events, overflowing dumpsters/recycling bins.	Plastic bags, Polystyrene foam food container, Plastic bottles, Plastic food packaging, cigarette butts, Plastic wrappers, Paper, Paper cups
	New/Enhanced Post-MRP Actions Initiated/Planned: The Town is planning to look into the benefits of increased street sweeping in trash management areas 1 through 4 to see if there is a potential for quantifiable trash reduction in this area.	1 - 4		

C.10.d Summary of Trash Reduction Actions

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

Action	Description	Trash Management Area(s) (Preliminary Map ID)	Dominant Sources	Dominant Types
On-land Trash Cleanups	Continued Pre-MRP Actions: Prior to the MRP, the Town Public Works staff periodically (generally two times a year) assisted and oversaw use of unpaid workers picking up trash along the Town's main streets.	1 - 4	Pedestrian litter, moving and parked vehicles, general litter, restaurants, convenient stores, schools, shopping centers, bus stops, special events, overflowing dumpsters/recycling bins	Plastic bags, Polystyrene foam food container, Plastic bottles, Plastic food packaging, cigarette butts, Plastic wrappers, Paper, Paper cups
	New/Enhanced Post-MRP Actions Initiated/Planned: Town has increased the frequency of its roadside cleanup program coordinated by Town staff and with jail trustees providing the labor. Ten events were conducted in 2011-2012 and nine events were conducted in 2012-2013. Streets targeted were the main arterials through Town: Moraga Road, Moraga Way, St Mary's Road, Canyon Road, and Camino Pablo. An estimated 1,950 gallons of trash was collected.	1 - 4		
Anti-littering and Illegal Dumping Enforcement Activities	Continued Pre-MRP Actions: Town municipal code has a basic anti-litter ordinance that it enforces. Town receives and responds to complaints from citizens, who may report littering or dumping either to Town's police department or Public Works department.	Jurisdiction-wide	Illegal dumping	NA
	New/Enhanced Post-MRP Actions Initiated/Planned: No enhancements planned, as this is not considered a significant source of trash for the Town. No calls of illegal dumping were received in 2012-2013, which is consistent with past years.	Jurisdiction-wide		

C.10.d Summary of Trash Reduction Actions

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

Action	Description	Trash Management Area(s) (Preliminary Map ID)	Dominant Sources	Dominant Types
Improved Trash Bins/Container Management	Continued Pre-MRP Actions: The Town has installed a number of public trash containers that our Public Works staff monitors and empty on a regular basis (at Moraga Commons, Rancho Laguna Park, Moraga Way, and Moraga Road). The Town also encourages private property owners (shopping center, retail outlets, etc.) to make trash containers available to their customers and to empty their trash receptacles regularly.	Jurisdiction-wide	Pedestrian	Miscellaneous paper, polystyrene foam food containers, plastic bottles, plastic food packaging, household debris etc.
	New/Enhanced Post-MRP Actions Initiated/Planned: The Town is planning to look into the benefits of adding trash receptacles in trash management areas 1 through 4 to see if there is a potential for quantifiable trash reduction.	TBD		
Creek, Channel, Shoreline Cleanups	Continued Pre-MRP Actions: Volunteers (Girl Scouts and Boy Scouts) perform creek cleanups 1 to 2 times a year at creeks and channels	Jurisdiction-wide	Pedestrian, illegal dumping, schools, convenience stores, general litter,	Plastic bags, Polystyrene foam food container,

C.10.d Summary of Trash Reduction Actions

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

Action	Description	Trash Management Area(s) (Preliminary Map ID)	Dominant Sources	Dominant Types
	New/Enhanced Post-MRP Actions Initiated/Planned: Continued creek cleanups by volunteers.	Jurisdiction-wide	shopping centers, bus stops, special events, dumpsters/recycling bins	Plastic bottles, Plastic food packaging, cigarette butts, Plastic wrappers, Paper, Paper cups
Area/Jurisdictional-wide Actions				
Public Education and Outreach Programs	Continued Pre-MRP Actions: <ul style="list-style-type: none"> • Distribution of anti-litter items at open house for Town's new corporation yard (May 2009) • Participation in anti-litter campaign at Walnut Creek BART Station in October 2009 • Placement of anti-litter promotional material at Moraga Library in 2009 • In addition, please refer to the CCCWP's Annual report for information on continued efforts that were implemented before the MRP. 	Jurisdiction-wide	All types	All types

C.10.d Summary of Trash Reduction Actions

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

Action	Description	Trash Management Area(s) (Preliminary Map ID)	Dominant Sources	Dominant Types
	<p>New/Enhanced Post-MRP Actions Initiated/Planned:</p> <ul style="list-style-type: none"> • Distribution of anti-litter items at the Pear and Wine festival in September and the Community Fair in May (see C.7.e for more information) • Distribution of anti-litter message in Town's quarterly newsletter (Town Crier) in Town's recreation guide. • Support of CCCWP's anti-litter media campaign • Support of BASMAA anti-litter campaign • Public announcement of volunteer creek cleanup efforts via Town's quarterly newsletter and website. • As part of the long-term trash plan currently being developed, the Town is looking into the Public Outreach and Education efforts at the Program level and within other municipalities to find meaningful and effective ways to introduce this action and be able to quantify its implementation through trash reduction. 			

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 12-13 CCCWP Annual Report for a list of mercury collection and recycling efforts conducted countywide and regionally.

C.11.a.ii Mercury Collection

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

Please refer to the FY 12-13 CCCWP Annual Report for an estimate of the mass of mercury collected through collection and recycling efforts in Contra Costa County.

- 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 CCCWP and regional accomplishments for these sub-provisions are included within the C.11 Mercury Controls section of CCCWP's FY 12-13 Annual Report and/or the BASMAA Regional POC Report.

Section 12 - Provision C.12 PCBs Controls

C.12.a.ii,iii Ongoing Training

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

Description:

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

Section 13 - Provision C.13 Copper Controls

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

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

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

The Town contracts out building inspection services to the Building Department of Contra Costa county. The Town has an ordinance (Moraga Municipal Code Chapter 13.04) relating to Storm Water Management and Discharge Control, which the County Building Inspection Department enforces. This ordinance provides sufficient authority to prohibit the discharge of any type of pollutant to the Town's storm drain system, including wastewater generated from installation, cleaning, treating, and washing of the surface of architectural features. Any illicit discharge related to architectural copper would be enforced in accordance with the Town's Enforcement Response Plan. The ordinance also requires regulated projects to implement a Stormwater Control Plan in accordance with the most recent version of the C.3 Guidebook, which includes avoidance of copper architectural features as a source control measure.

The Town's Building Code (Chapter 15.04) incorporates the 2010 California Green Building Standards Code (California Code of Regulations, Title 24, Part 11). The Construction and Demolition Debris Recycling Ordinance (Chapter 8.156) requires that waste related to any use of architectural copper are recycled or disposed of at an appropriate facility.

The County's Building Inspection counter includes outreach materials related to architectural copper that discourage its use and recommended BMPs to minimize water pollution related to maintenance of existing architectural copper features.

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

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

While the Town does not prohibit the use of architectural copper, it is seldom, if not never, used due to cost and the risk of theft. As indicated above, the County's Building Inspection Department counter includes outreach materials related to architectural copper that discourage its use and recommend BMPs to minimize water pollution related to maintenance of existing architectural features. Due to copper not being used, the Town has no problems to report regarding their installation or maintenance.

C.13.c Vehicle Brake Pads

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

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

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

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

Based upon inspection activities conducted under Provision C.4, highlight copper reduction results achieved among the facilities identified as potential users or sources of copper, facilities inspected, and BMPs addressed.
 Summary
 The Town of Moraga has very limited commercial/retail and no industrial facilities. No facilities were identified as users or sources of copper. Therefore, no facilities were scheduled for inspection in FY 12-13 based on this type of activity.

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

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

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

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

Summary

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

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

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

Summary

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

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

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

Summary

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

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

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

Is your agency a water purveyor?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
If 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: Not applicable.				

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

<p>Provide implementation summaries of the required BMPs to promote measures that minimize runoff and pollutant loading from excess irrigation. Generally the categories are:</p> <ul style="list-style-type: none"> • 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.
<p>Summary:</p> <p>The Town supports the use of less toxic pest control measures and models its own IPM policy for other agencies. The Town supports use of native and drought tolerant vegetation through the Bringing Back the Natives effort and in all new development approval processes described in Section C.3.a above. The Town also responds to all complaints of illicit discharges. In addition, the Town through the CCCWP promotes several programs and measures to minimize pollutant loading from excess irrigation including, but not limited to:</p> <ul style="list-style-type: none"> • 6th Edition Stormwater C.3 Guidebook adopted by ordinance promotes to land development professionals landscaping designed to: 1) minimize irrigation and runoff; 2) promote infiltration of runoff where appropriate; and, 3) minimize use of fertilizers and pesticides using pest-resistant plants that are suited to site conditions (e.g., soil and climate). • Green Business Program promotes to businesses a variety of measures such as using drought tolerant plantings, mulching, carefully monitoring irrigation schedules and needs, and implementing Integrated Pest Management. • Our Water Our World (OWOW) Program promotes to consumers and the point of purchase less toxic alternatives to combating lawn and garden pests. • Bay Friendly Landscaping and Gardening Training and Certification Program promotes to landscapers a variety of measures designed to reduce waste and prevent stormwater pollution.

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

Site/ Location	Discharge Type	Receiving Waterbody(ies)	Date of Discharge	Duration of Discharge (military time)	Estimated Volume (gallons)	Estimated Flow Rate (gallons/day)	Chlorine Residual (mg/L)	pH (standard units)	Discharge Turbidity ⁷⁴ (NTU)	Implemented BMPs & Corrective Actions
Not applicable	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

C.15.b.iii.(2) Unplanned Discharges of the Potable Water System⁷⁵

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) ⁷⁶	pH (standard units) ⁵²	Discharge Turbidity (Visual) ^{52, 74}	Implemented BMPs & Corrective Actions	Time of discharge discovery	Regulatory Agency Notification Time ⁷⁷	Inspector arrival time	Responding crew arrival time
Not applicable	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

⁷⁴ Monitor the receiving water for turbidity if necessary and feasible. Include data in this column if available.

⁷⁵ This table contains all of the unplanned discharges that occurred in this FY.

⁷⁶ 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.

⁷⁷ 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.

Attachment C.4.b.iii.(1)

Name	Address	City	Program Category
Aegis Living	950 COUNTRY CLUB Drive	Moraga	Assisted Living
Moraga Royale Retirement Home	1600 CANYON Road	Moraga	Assisted Living
Rheem Valley Convalescent Hospital	348 RHEEM Blvd	Moraga	Assisted Living
24 Hour Fitness	351 RHEEM Blvd	Moraga	Commercial
Moraga Wine & Spirits	1437 MORAGA Way	Moraga	Commercial
Rheem Theater	350 PARK Street	Moraga	Commercial
Vincenza Ranch Vineyard	500 RHEEM Blvd	Moraga	Commercial
Moraga Cleaners and Laundry	1425 MORAGA Way	Moraga	Dry Cleaner
Moraga Cleaners X-Press	1480 MORAGA Road F	Moraga	Dry Cleaner
Rheem Center Martinizing	482 CENTER Street	Moraga	Dry Cleaner
Rheem Valley Cleaners	568 CENTER Street	Moraga	Dry Cleaner
Rodgers Cleaners	339 RHEEM Blvd	Moraga	Dry Cleaner
Moraga-Orinda Fire District Station 42	555 MORAGA Road	Moraga	Fire Station
7-eleven	633 MORAGA Road	Moraga	Food Service
Asia Palace	1460 MORAGA Road B	Moraga	Food Service
Bianca's Delicatessen	1480 MORAGA Road A	Moraga	Food Service
Burger King	470 MORAGA Road	Moraga	Food Service
Chef Chao	343 RHEEM Blvd	Moraga	Food Service
China Moon	380 PARK Street	Moraga	Food Service
Fudge Alley	376 PARK Street	Moraga	Food Service
Jack in the Box	1440 MORAGA Way	Moraga	Food Service
Kirin Sushi	356 PARK Street	Moraga	Food Service
Lamorinda Pizza	382 PARK Street	Moraga	Food Service
Little Hearty Noodle	578 CENTER Street	Moraga	Food Service
Loard's Ice Cream	1480 MORAGA Road H	Moraga	Food Service
Loard's Ice Cream and Candies of Moraga	560 CENTER Street	Moraga	Food Service
Michael's Ristorante	1375 MORAGA Way A	Moraga	Food Service
Moraga Band Shell Snack Bar	1425 ST MARYS Road	Moraga	Food Service
Mountain Mike's Pizza	504 CENTER Street	Moraga	Food Service
Mucho Wraps	1375 MORAGA Way	Moraga	Food Service
Nation's Hamburgers	400 PARK Street	Moraga	Food Service
New Delhi Bistro	484 CENTER Ave	Moraga	Food Service
Pennini's	1375 MORAGA Way D	Moraga	Food Service
Ranch House Cafe	1012 SCHOOL Street	Moraga	Food Service
Ristorante Amoroma	360 PARK Street	Moraga	Food Service
Round Table Pizza	361 RHEEM Blvd	Moraga	Food Service
Royal Siam	512 CENTER Street	Moraga	Food Service
Shish Kabob Show	376 PARK Street	Moraga	Food Service
Si Si Caffè	910 COUNTRY CLUB Drive	Moraga	Food Service
Sodexo (working inside St. Mary's College Cafeteria)	1928 ST MARYS Road	Moraga	Food Service
Starbuck's	500 MORAGA Road	Moraga	Food Service
Subway Sandwiches	396 PARK Street	Moraga	Food Service
Taco Bell	410 MORAGA Road	Moraga	Food Service
Tangelo	384 PARK Street	Moraga	Food Service
Terzetto Cuisine Café	1419 MORAGA Way	Moraga	Food Service
Lamorinda Auto Care	1455 MORAGA Way	Moraga	Gas Station
Moraga Auto Care, Inc.	1135 MORAGA Way	Moraga	Gas Station
Moraga Beacon	425 MORAGA Road	Moraga	Gas Station
Nick's Auto Service	1500 CANYON Road	Moraga	Gas Station
Stars Gas Station	398 RHEEM Blvd	Moraga	Gas Station

Attachment C.4.b.iii.(1)

Name	Address	City	Program Category
Moraga Country Club	1600 ST ANDREWS Drive	Moraga	Golf Course
Moraga Produce	576 CENTER Street	Moraga	Grocery Store
Safeway Store	1355 MORAGA Way	Moraga	Grocery Store
Lamorinda Cleaners	629 MORAGA Road	Moraga	Laundry-Com.
Moraga Garden Center	1400 MORAGA Road	Moraga	Nursery
Acalanes Union High School District	310 MORAGA Road	Moraga	Permitted IU
Captain Vineyards	1969 JOSEPH Drive	Moraga	Permitted IU
Parkmon Vineyards	55 LAIRD Drive	Moraga	Permitted IU
St. Mary's College	1928 ST MARYS Road	Moraga	Permitted IU
Moraga Ranch Swim Club	8 EL CAMINO FLORES	Moraga	Pool
Moraga Tennis and Swim Club	1161 LARCH Ave	Moraga	Pool
CVS Pharmacy	1480 MORAGA Road D	Moraga	Retail
CVS Pharmacy	580 CENTER Street	Moraga	Retail
Orchard Supply Hardware	1550 CANYON Road	Moraga	Retail
Campolindo High School	300 MORAGA Road	Moraga	School/College
Saint Mary's College Rheem Campus	380 RHEEM Blvd	Moraga	School/College
Saklan Valley School	1678 SCHOOL Street	Moraga	School/College
Autohaus Stuttgart	383 RHEEM Blvd	Moraga	Vehicle Service
Lamorinda Gas & Auto Repair	1410 MORAGA Road	Moraga	Vehicle Service
Moraga Auto Care & Service	1135 MORAGA Way	Moraga	Vehicle Service
Moraga Motors	530 MORAGA Road	Moraga	Vehicle Service
Moraga Service Center	1500 CANYON Road	Moraga	Vehicle Service
Rheem Valley Auto Care	398 RHEEM Blvd	Moraga	Vehicle Service
Rheem Valley Auto Center	455 CENTER Street	Moraga	Vehicle Service

Planned Inspections for Moraga (7/1/2013 to 6/30/2014)

7/26/13

Name	Address	City	Facility Type
Enforcement Reinspections			
Sodexo (working inside St. Mary's College Cafeteria)	1928 ST MARYS Road	Moraga	Food Service
Subtotal: 1			
Permitted IUs			
St. Mary's College	1928 ST MARYS Road	Moraga	Permitted IU
Acalanes Union High School District (NOI Facility)	310 MORAGA Road	Moraga	Permitted IU
Subtotal: 2			
Inspection Cycle			
Moraga Band Shell Snack Bar	1425 ST MARYS Road	Moraga	Food Service
Moraga-Orinda Fire District Station 42	555 MORAGA Road	Moraga	Fire Station
Moraga Country Club	1600 ST ANDREWS Drive	Moraga	Golf Course
Moraga Service Center	1500 CANYON Road	Moraga	Vehicle Service
Nick's Auto Service	1500 CANYON Road	Moraga	Gas Station
Nation's Hamburgers	400 PARK Street	Moraga	Food Service
24 Hour Fitness	351 RHEEM Blvd	Moraga	Commercial
Loard's Ice Cream and Candies of Moraga	560 CENTER Street	Moraga	Food Service
Safeway Store	1355 MORAGA Way	Moraga	Grocery Store
Asia Palace	1460 MORAGA Road B	Moraga	Food Service
Fudge Alley	376 PARK Street	Moraga	Food Service
Moraga Royale Retirement Home	1600 CANYON Road	Moraga	Assisted Living
Moraga Tennis and Swim Club	1161 LARCH Ave	Moraga	Pool
Rheem Valley Auto Care	398 RHEEM Blvd	Moraga	Vehicle Service
Stars Gas Station	398 RHEEM Blvd	Moraga	Gas Station
Subtotal: 15			

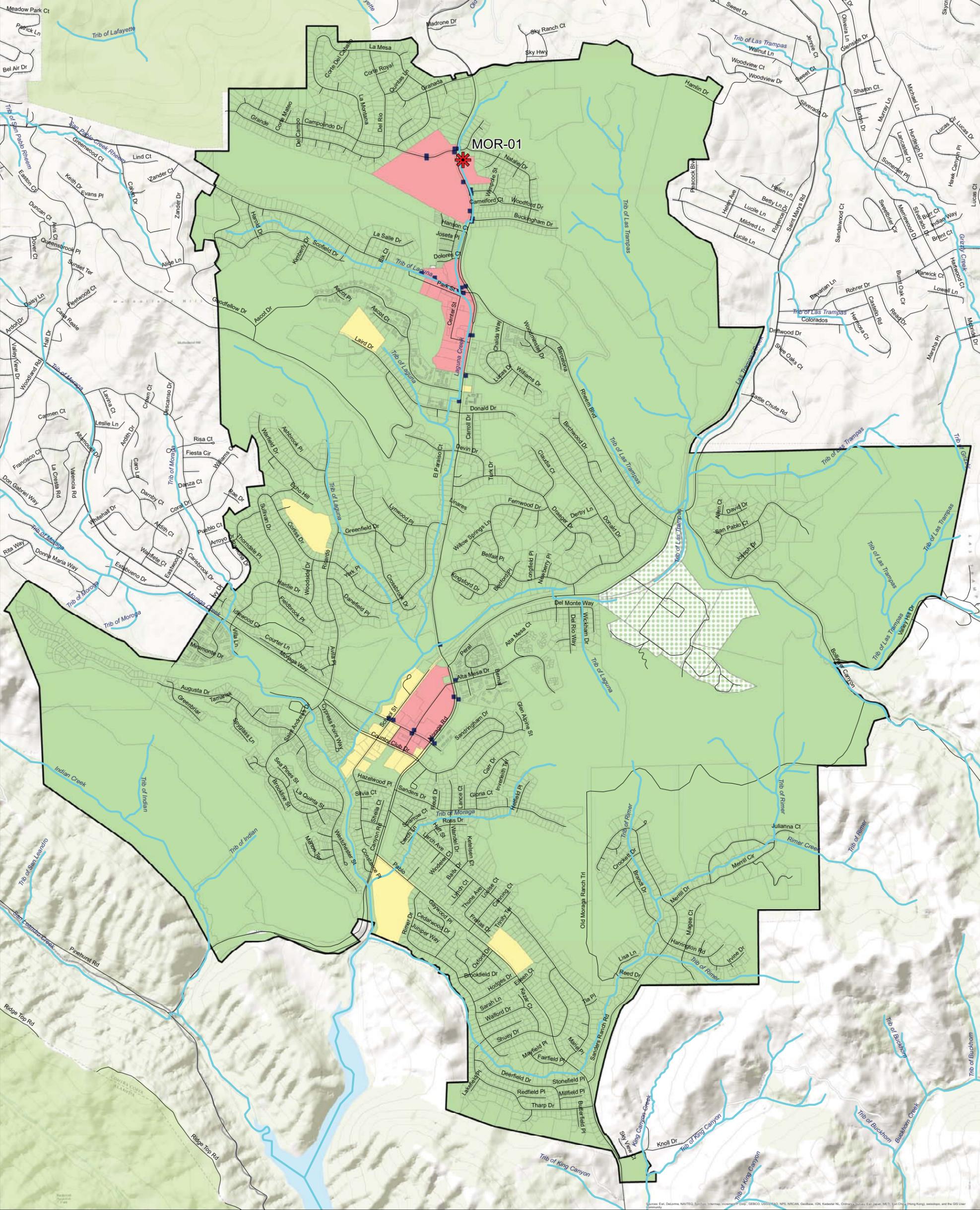
TOTAL INSPECTION GOAL (110%)=18

Total Annual Goal= 16

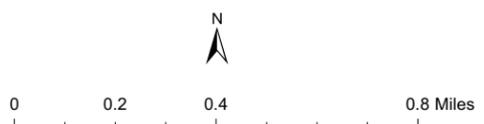
Attachment C.10 – Trash Load Reduction

**Town of Moraga
FY 2012-2013 Annual Report**

Town of Moraga DRAFT Full Trash Capture Map



Legend			
Trash Generation Category	Creek/Shoreline Hotspot	Streets	
Low	Full-Capture Location	Agency Boundary	
Medium	Full Trash Capture	Creeks	
High	Non-Jurisdictional (Dot color = Generation Category)	Parcel Boundary	
Very High			

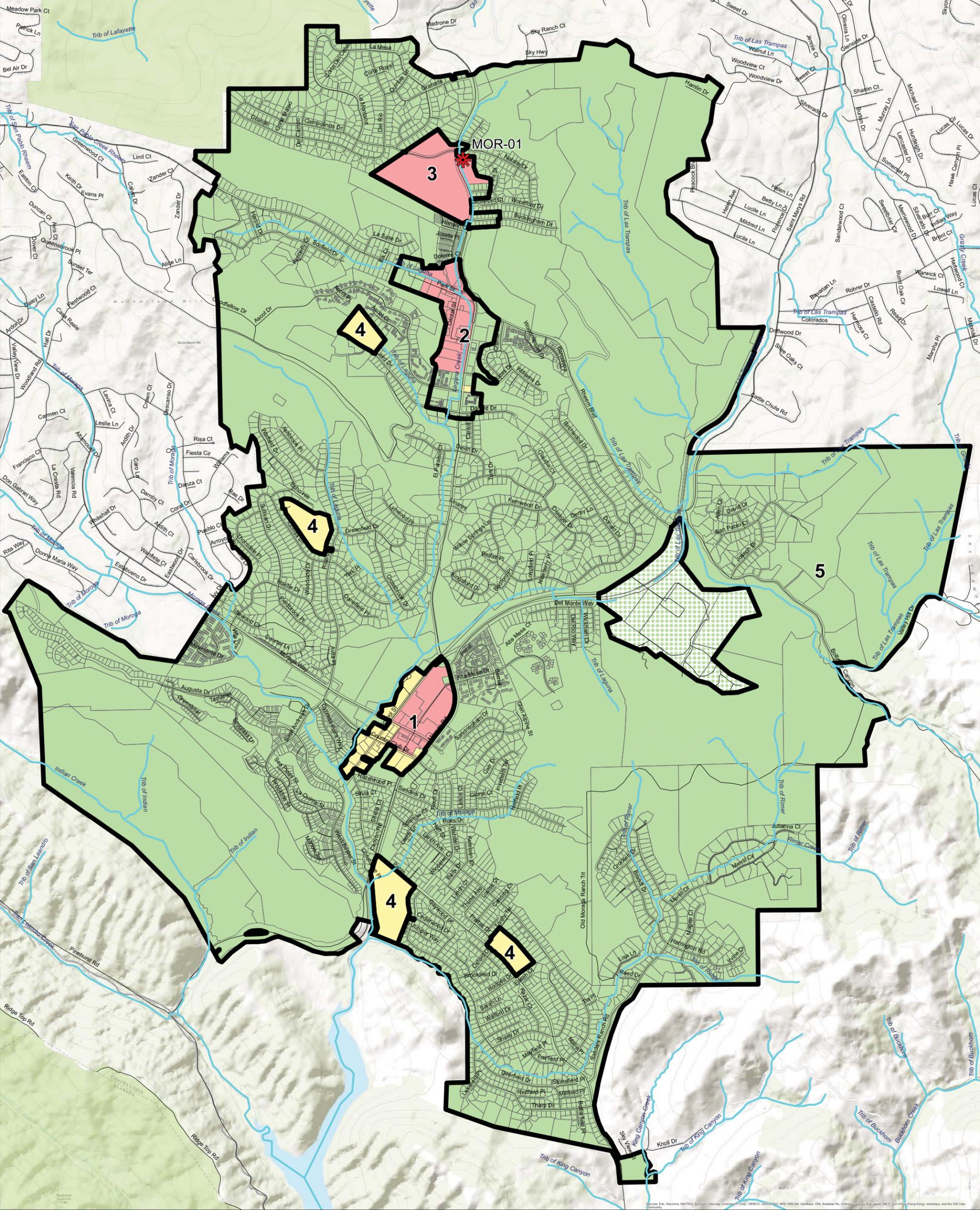


Data Sources:
Roads: Tele Atlas
City Boundaries: Contra Costa County
Background: ESRI World Topographic Map

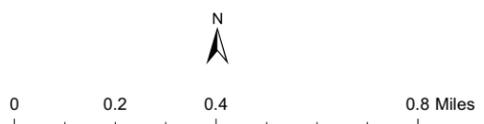
Map Created By:
 EOA, Inc.

Date:
 September 6th, 2013

Town of Moraga DRAFT Trash Management Areas Map



Legend		
Trash Generation Category		
 Low	 Medium	 Streets
 High	 Trash Management Area	 Agency Boundary
 Very High	 Non-Jurisdictional (Dot color = Generation Category)	 Parcel Boundary
★ Creek/Shoreline Hotspot		— Creeks



Data Sources:
 Roads: Tele Atlas
 City Boundaries: Contra Costa County
 Background: ESRI World Topographic Map

Map Created By:
 EOA, Inc.

Date:
 September 6th, 2013