



CITY OF HALF MOON BAY

City Hall • 501 Main Street • Half Moon Bay • CA • 94019

September 30, 2019

Mr. Michael Montgomery
Executive Officer
San Francisco Bay Regional Water Quality Control Board
1515 Clay Street, Suite 1400
Oakland, CA 94612

Subject: **City of Half Moon Bay**
FY 2018/19 Annual Report

Dear Mr. Montgomery:

This letter and Annual Report with attachments is submitted by the **City of Half Moon Bay** pursuant to Permit Provision C.17.a of the Municipal Regional Stormwater NPDES Permit (MRP), Order R2-2015-0049, NPDES Permit No CAS612008 issued by the San Francisco Bay Regional Water Quality Control Board. The Annual Report provides documentation of compliance activities conducted during FY 2018/19 and related accomplishments.

Please contact Maziar Bozorginia at (650) 726-8251 regarding any questions or concerns.

Very truly yours,

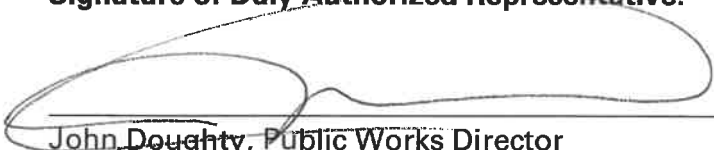
John Doughty
Public Works Director

**CITY OF HALF MOON BAY
FY 2018/19 ANNUAL REPORT**

Certification Statement

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

Signature of Duly Authorized Representative:



John Doughty, Public Works Director

9/26/18

Date

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Section 1 – Permittee Information

Background Information				
Permittee Name:	City of Half Moon Bay			
Population:	12, 870 (estimated July 1, 2017 by United States Census Bureau)			
NPDES Permit No.:	CAS612008			
Order Number:	R2-2015-0049			
Reporting Time Period (month/year):	July 2018 through June 2019			
Name of the Responsible Authority:	Maziar Bozorginia	Title:	City Engineer	
Mailing Address:	501 Main Street			
City:	Half Moon Bay	Zip Code:	94019	County: San Mateo
Telephone Number:	(650) 726-8251	Fax Number:	NA	
E-mail Address:	mbozorginia@hmbcity.com			
Name of the Designated Stormwater Management Program Contact (if different from above):	Maziar Bozorginia	Title:	City Engineer	
Department:	Public Works/Engineering			
Mailing Address:	Maziar Bozorginia			
City:	Half Moon Bay	Zip Code:	94019	County: San Mateo
Telephone Number:	(650) 726-8251	Fax Number:	NA	
E-mail Address:	mbozorginia@hmbcity.com			

Section 2 - Provision C.2 Reporting Municipal Operations

Program Highlights and Evaluation

Highlight/summarize activities for reporting year:

Summary:

1. City maintenance staff participates in the SMCWPPP Municipal Maintenance Subcommittee.
2. The City regularly maintains and inspects the City's Corporation Yard.
3. City staff screens for illicit discharges when conducting storm drain inlet cleaning.
4. The City regularly inspects storm drain inlet markers ("No Dumping – Drains to Ocean") when performing storm drain inlet cleaning and replaces damaged or missing markers as needed.
5. The City conducts regular street sweeping and provides ongoing litter and debris pickup at City parks and facilities.
6. The City contracts with Presidio Systems, Inc. to clean all storm drain catch basins within the City, including those with trash capture devices.
7. The City uses the "Small Full Trash Capture Device Operation and Maintenance Standard Operating Procedures" developed by SMCWPPP (available on the www.flowstobay.org website), including the Small Trash Capture Device Inspection Tracking Form.
8. Please refer to the C.2 Municipal Operations section of the SMCWPPP FY 18-19 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:

As part of the City's new solid waste agreement, a 10-year term, the City streets are swept by Republic Services. Downtown streets are swept weekly and residential streets are swept once a month.

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

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

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

Comments:
 Except in special cases when dry cleaning methods are not effective, power washers are not used to clean sidewalks or pavement.

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.
Y	Contract specifications requiring proper capture and disposal methods for wastes generated from bridge and structural maintenance and graffiti removal activities.

Comments:
 Graffiti abatement is done by municipal staff as stated above and not contracted out. Graffiti abatement is also performed by citizens during the "Wavecrest Workday" events sponsored by the Coastside Land Trust, but not by a method that threatens water quality (mud is mixed with water and applied to trees affected by graffiti; when the mud dries, it takes the paint with it and falls off the tree; the mud is later collected at the next cleanup event and disposed of).

C.2.e. ► Rural Public Works Construction and Maintenance	
Does your municipality own/maintain rural ¹ roads: <input checked="" type="checkbox"/> X Yes <input 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.	
Y	Control of road-related erosion and sediment transport from road design, construction, maintenance, and repairs in rural areas
Y	Identification and prioritization of rural road maintenance based on soil erosion potential, slope steepness, and stream habitat resources
NA	No impact to creek functions including migratory fish passage during construction of roads and culverts
Y	Inspection of rural roads for structural integrity and prevention of impact on water quality
Y	Maintenance of rural roads adjacent to streams and riparian habitat to reduce erosion, replace damaging shotgun culverts and excessive erosion
Y	Re-grading of unpaved rural roads to slope outward where consistent with road engineering safety standards, and installation of water bars as appropriate
NA	Inclusion of measures to reduce erosion, provide fish passage, and maintain natural stream geomorphology when replacing culverts or design of new culverts or bridge crossings
<p>Comments including listing increased maintenance in priority areas: No creeks/waterways are located in the immediate vicinity of the rural road. There was no construction activity near live creeks or streams and no impact to migration or stream and riparian habitat. The City conducts routine ditch maintenance, including clearing of weeds and debris, annually prior to the wet season. Routine ditch maintenance during the reporting FY 18-19 throughout the City was permitted under the Streambed Alteration Agreement obtained through the California Department of Fish and Wildlife and was performed with a biologist onsite to check for endangered or protected wildlife species.</p>	

¹Rural means any watershed or portion thereof that is developed with large lot home-sites, such as one acre or larger, or with primarily agricultural, grazing or open space uses.

C.2.f. ► Corporation Yard BMP Implementation

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

<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 type="checkbox"/>	NA	Control of pollutant discharges to storm drains such as wash waters from cleaning vehicles and equipment
<input checked="" type="checkbox"/>	X	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"/>	NA	Containment of all vehicle and equipment wash areas through plumbing to sanitary or another collection method
<input checked="" type="checkbox"/>	X	Use of dry cleanup methods when cleaning debris and spills from corporation yard(s) or collection of all wash water and disposing of wash water to sanitary or other location where it does not impact surface or groundwater when wet cleanup methods are used
<input checked="" type="checkbox"/>	X	Cover and/or berm outdoor storage areas containing waste pollutants

Comments:

- 1) Washing, maintenance, and fueling of vehicles and equipment does not occur onsite.
- 2) No materials are stored in outdoor areas.
- 3) The Corporation Yard does not have a closed storm drain system (surface drainage only).

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	Corp Yard Activities w/ site-specific SWPPP BMPs	Inspection Date ²	Inspection Findings/Results	Date and Description of Follow-up and/or Corrective Actions
HMB City Corp Yard 880 Stone Pine Road Half Moon Bay, CA	The City's corporation yard employs Best Management Practices (BMPs) in the following categories:	September 18, 2018	Inspection findings and results show that the corporation yard is in compliance with its SWPPP.	No follow-up inspections were necessary.

² Minimum inspection frequency is once a year during September.

	<ul style="list-style-type: none">• General housekeeping• Municipal vehicle, heavy equipment, and employee parking• Waste and recycling storage			
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Section 3 - Provision C.3 Reporting New Development and Redevelopment

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

Fill in attached table **C.3.b.iv.(2)** or attach your own table including the same information.
 See the attached table C.3.b.iv.(2).

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

Is your agency choosing to require 100% LID treatment onsite for all Regulated Projects and not allow alternative compliance under Provision C.3.e.?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
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Comments (optional): The City will review applicant requests to utilize alternative compliance on a case by case basis.

C.3.e.v ► Special Projects Reporting

1. In FY 2018-19, 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)?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
2. In FY 2018-19, has your agency granted final discretionary approval to a Special Project? If yes, include the project in both the C.3.b.iv.(2) Table, and the C.3.e.v. Table.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No

If you answered "Yes" to either question,
 1) Complete Table C.3.e.v.
 2) Attach narrative discussion of 100% LID Feasibility or Infeasibility for each project.
 No Special Projects to report.

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

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

See attached Table C.3.h.v.(2) for list of newly installed Stormwater Treatment Systems/HM Controls.

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

Site Inspections Data	Number/Percentage
Total number of Regulated Projects (including offsite projects, and Regional Projects) in your agency's database or tabular format at the end of the previous fiscal year (FY 17-18)	4 ¹
Total number of Regulated Projects (including offsite projects, and Regional Projects) in your agency's database or tabular format at the end of the reporting period (FY 18-19)	6
Total number of Regulated Projects (including offsite projects, and Regional Projects) for which O&M verification inspections were conducted during the reporting period (FY 18-19)	3
Percentage of the total number of Regulated Projects (including offsite projects, and Regional Projects) inspected during the reporting period (FY 18-19)	75% ²

¹ This number changed from 5 to 4 during the reshuffling of C.3 Regulated/Non-C.3 Regulated Projects. (One project was determined to be Non-Regulated).

² Based on the number of Regulated Projects in the database or tabular format at the end of the previous fiscal year, per MRP Provision C.3.h.ii.(6)(b).

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

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

Summary:

One (1) out of the six (6) regulated project sites, Mercy Housing, is a vault-based system. For vault-based systems, City staff collects a third-party inspection report detailing the inspection date, condition of the vault unit, and whether cleaning was performed. The remaining five (5) sites reported low mulch, low vegetation, and trash build-up. Verbal warnings were enforced for these issues identified. The issues were confirmed to have been corrected in a timely manner. In addition to Regulated Projects, the City inspects stormwater treatment measures at Non-Regulated Projects. The City aims to inspect Non-Regulated Projects at the same frequency as Regulated Projects.

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 O&M program is highly effective in ensuring that stormwater control measures on regulated projects are properly maintained. This year, the City performed two (2) inspections/re-inspections of Regulated Sites and accepted one (1) 3rd party inspection report in-lieu of conducting a Permittee O&M inspection. Regular inspections reinforce contact with the onsite responsible party, and lead to better maintenance and therefore performance of the measures.

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

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

Summary:

BASMAA prepared standard specifications in four fact sheets regarding the site design measures listed in Provision C.3.i, as a resource for Permittees. We have modified local ordinances/policies/procedures and forms/checklists to require all applicable projects approved after December 1, 2012 to implement at least one of the site design measures listed in Provision C.3.i. We are using the following Program and BASMAA products for C.3.i implementation:

- BASMAA's site design fact sheets
- The countywide program's C.3 and C.6 Development Review Checklist.
- C.3.i guidance provided by the countywide program (SMCWPPP C.3 Regulated Projects Guide)

C.3.j.i.(5).(b) ► Green Infrastructure Plan			
(For FY 2018-19 Annual Report only) Did your agency complete a Green Infrastructure Plan?	Y	Yes, see attached Green Infrastructure Plan	No
If No, provide schedule for completion: NA. The City hosts its green infrastructure plan on the City website at the following link: https://www.half-moon-bay.ca.us/617/Green-Infrastructure .			

C.3.j.i.(5).(c) ► Legal Mechanisms			
(For FY 2018-19 Annual Report only) Does your agency have legal mechanisms in place to ensure implementation of the Green Infrastructure Plan?	Y	Yes, see attached documents or links provided below	No
If Yes, describe the legal mechanisms in place and the documents attached or links provided. As part of the GI Plan development process, the City of Half Moon Bay has reviewed its existing policies, ordinances, and/or other legal mechanisms related to the implementation of stormwater NPDES permit requirements and found that it has sufficient legal authority to implement the GI Plan. Adoption of the GI Plan by the City Council has further strengthened this authority. Descriptions of and links to documents demonstrating legal authority are provided in Chapter 10 of the Green Infrastructure Plan, in subsections 10.2.1, "Standard Operating Procedures", and 10.2.2, "Municipal Code".			
If No, provide schedule for completion: NA			

C.3.j.i.(5)(d) ► Green Infrastructure Outreach

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

Summary:

The City of Half Moon Bay conducted Green Infrastructure Outreach in coordination with its development and approval of the Green Infrastructure Plan. Outreach was conducted for three audiences – the general public, staff, and elected officials.

Public and elected official outreach began in June 20, 2017, with the approval of the Green Infrastructure Workplan. In May 2019, the City debuted a new green infrastructure webpage, which explains what green infrastructure is, and provides an interactive map of existing and potential GI in the City. City staff provided two City Council Study Sessions on the GI Plan on April 10, 2019 and August 20, 2019. City staff then brought the GI Plan to City Council for approval on September 17, 2019. A draft GI Plan was posted in advance of the August Council Study Session for review and comment by City Council members and the public.

Interdepartmental coordination and staff training efforts included:

- Regular communication between management and appropriate department staff to discuss GI requirements and the GI Plan development.
- Discussion of the potential for incorporation of GI on capital projects.
- Participation in SMCWPPP training events.

For more information about outreach conducted in coordination with the GI Plan development, refer to Chapter 9 of the City's GI Plan. Please refer to the Countywide Program's FY 18-19 Annual Report for a summary of outreach efforts implemented at the Countywide level.

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

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

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

Background Information:

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

Potential GI projects are discussed as part of the quarterly meetings between Staff and the Consultants. The City utilizes the BASMAA guidance to identify and review potential green infrastructure projects through the City's Capital Improvements Program. This process is documented in the City's Green Infrastructure Plan (refer to Chapter 4, Project Identification and Prioritization).

Summary of Planning or Implementation Status of Identified Projects:

See attached Tables C.3.j.ii.(2)-A and C.3.j.ii.(2)-B for the required information.

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

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

(For FY 2018-19 Annual Report only) Submit a plan and schedule for new and ongoing efforts to participate in processes to promote green infrastructure.

Please refer to SMCWPPP FY 2018/19 Annual Report for: 1) a summary of efforts conducted to help regional, State, and federal agencies plan, design and fund incorporation of green infrastructure measures into local infrastructure projects, including transportation projects; and 2) a plan and schedule for new and ongoing efforts to participate in processes to promote green infrastructure.

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

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

(For FY 2018-19 Annual Report only) Submit the tracking methods used and report implementation of green infrastructure measures including treated area, and connected and disconnected impervious area on both public and private parcels within their jurisdictions.

Please refer to the SMCWPPP FY 2018/19 Annual Report for: 1) a summary of methods being developed to track and report implementation of green infrastructure measures; and 2) a report on green infrastructure measures implemented to date, including acres of impervious area (total and treated), countywide and by Permittee.

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

Project Name Project No.	Project Location ³ , Street Address	Name of Developer	Project Phase No. ⁴	Project Type & Description ⁵	Project Watershed ⁶	Total Site Area (Acres)	Total Area of Land Disturbed (Acres)	Total New Impervious Surface Area (ft ²) ⁷	Total Replaced Impervious Surface Area (ft ²) ⁸	Total Pre- Project Impervious Surface Area ⁹ (ft ²)	Total Post- Project Impervious Surface Area ¹⁰ (ft ²)
Private Projects											
Carnoustie Phase 4 Tentative Subdivision Map	Bay Hill Road and Carnoustie Drive	Carnoustie, LLC	4	Phase 4 of a residential subdivision consisting of 8 single family residential units with a private cul-de-sac road off of Bay Hill Road. Previously permitted and constructed Phase 1-3, which consisted of 32 single family residential homes of a similar type.	Ocean Colony	2.34	2.34	45,760	1,860	1,860	45,760
Public Projects											
Half Moon Bay Library	620 Correas Street @ Correas Street / Purissima Street	City of Half Moon Bay	NA	Demolition of the existing library and construction of a larger two-story library building.	Pilarcitos Creek	0.96	0.96	9,625	14,617	27,987	24,242
Comments:											

³Include cross streets

⁴If a project is being constructed in phases, indicate the phase number and use a separate row entry for each phase. If not, enter "NA".

⁵Project 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.

⁶State the watershed(s) in which the Regulated Project is located. Downstream watershed(s) may be included, but this is optional.

⁷All impervious surfaces added to any area of the site that was previously existing pervious surface.

⁸All impervious surfaces added to any area of the site that was previously existing impervious surface.

⁹For redevelopment projects, state the pre-project impervious surface area.

¹⁰For redevelopment projects, state the post-project impervious surface area.

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

Project Name Project No.	Project Location ³ , Street Address	Name of Developer	Project Phase No. ⁴	Project Type & Description ⁵	Project Watershed ⁶	Total Site Area (Acres)	Total Area of Land Disturbed (Acres)	Total New Impervious Surface Area (ft ²) ⁷	Total Replaced Impervious Surface Area (ft ²) ⁸	Total Pre- Project Impervious Surface Area ⁹ (ft ²)	Total Post- Project Impervious Surface Area ¹⁰ (ft ²)
Phase 1-3 of the Carnoustie Subdivision project preceded C.3 requirements.											

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

Project Name Project No.	Application Deemed Complete Date ¹¹	Application Final Approval Date ¹²	Source Control Measures ¹³	Site Design Measures ¹⁴	Treatment Systems Approved ¹⁵	Type of Operation & Maintenance Responsibility Mechanism ¹⁶	Hydraulic Sizing Criteria ¹⁷	Alternative Compliance Measures ^{18/19}	Alternative Certification ²⁰	HM Controls ^{21/22}
Private Projects										
Carnoustie Phase 4 Tentative Subdivision Map	2/20/19	5/21/19 – City Council 6/17/19 – Coastal Commission	Mark onsite inlets with "No Dumping", or equivalent.	Use rainwater for irrigation.	Treatment train consisting of media filtration discharging into	HOA	1.b.	N/A	N/A	TBD

¹¹For private projects, state project application deemed complete date. If the project did not go through discretionary review, report the building permit issuance date.

¹²For private projects, state project application final discretionary approval date. If the project did not go through discretionary review, report the building permit issuance date.

¹³List source control measures approved for the project. Examples include: properly designed trash storage areas; storm drain stenciling or signage; efficient landscape irrigation systems; etc.

¹⁴List 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.

¹⁵List 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.).

¹⁶List 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.

¹⁷See 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).

¹⁸For 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.

¹⁹For 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.

²⁰Note whether a third party was used to certify the project design complies with Provision C.3.d.

²¹If HM control is not required, state why not.

²²If HM control is required, state control method used (e.g., method to design and size device(s) or method(s) used to meet the HM Standard, and description of device(s) or method(s) used, such as detention basin(s), bioretention unit(s), regional detention basin, or in-stream control).

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

Project Name Project No.	Application Deemed Complete Date ¹¹	Application Final Approval Date ¹²	Source Control Measures ¹³	Site Design Measures ¹⁴	Treatment Systems Approved ¹⁵	Type of Operation & Maintenance Responsibility Mechanism ¹⁶	Hydraulic Sizing Criteria ¹⁷	Alternative Compliance Measures ^{18/19}	Alternative Certification ²⁰	HM Controls ^{21/22}
			Retain existing vegetation as practicable, select diverse species appropriate to the site, minimize use of pesticides, and use efficient irrigation systems.	Direct roof runoff onto vegetated areas. Direct roof and sidewalk/patio runoff onto vegetated areas.	an irrigation reuse pond.					

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

Project Name Project No.	Approval Date ²³	Date Construction Scheduled to Begin	Source Control Measures ²⁴	Site Design Measures ²⁵	Treatment Systems Approved ²⁶	Operation & Maintenance Responsibility Mechanism ²⁷	Hydraulic Sizing Criteria ²⁸	Alternative Compliance Measures ^{29/30}	Alternative Certification ³¹	HM Controls ^{32/33}
Public Projects										
Half Moon Bay Library	August 17, 2018	Construction completed in FY 18/19	Mark onsite inlets with “No Dumping”, or equivalent.	Use rainwater for irrigation. Direct roof runoff onto vegetated areas. Direct roof, sidewalk/patio, and driveway runoff onto vegetated areas. Construct sidewalks, walkways, and/or patios with pervious or permeable surfaces.	Bioretention area and flow-through planter. Rainwater harvesting Permeable pavers Green roof	City of Half Moon Bay	(3) for bioretention areas, which were the primary treatment measure	NA	NA	NA

²³For public projects, enter the plans and specifications approval date.

²⁴List source control measures approved for the project. Examples include: properly designed trash storage areas; storm drain stenciling or signage; efficient landscape irrigation systems; etc.

²⁵List 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.

²⁶List 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.).

²⁷List 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.

²⁸See 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).

²⁹For 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.

³⁰For 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.

³¹Note whether a third party was used to certify the project design complies with Provision C.3.d.

³²If HM control is not required, state why not.

³³If HM control is required, state control method used (e.g., method to design and size device(s) or method(s) used to meet the HM Standard, and description of device(s) or method(s) used, such as detention basin(s), bioretention unit(s), regional detention basin, or in-stream control).

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

Project Name Project No.	Approval Date ²³	Date Construction Scheduled to Begin	Source Control Measures ²⁴	Site Design Measures ²⁵	Treatment Systems Approved ²⁶	Operation & Maintenance Responsibility Mechanism ²⁷	Hydraulic Sizing Criteria ²⁸	Alternative Compliance Measures ^{29/30}	Alternative Certification ³¹	HM Controls ^{32/33}
				Self-treating area(s). Self-retaining area(s).						
Comments: NA										

C.3.h.v.(2). ► Table of Newly Installed³⁴ Stormwater Treatment Systems and Hydromodification Management (HM) Controls (Optional)

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

Name of Facility	Address of Facility	Party Responsible ³⁵ For Maintenance	Type of Treatment/HM Control(s)
Cameron's Best Western	1410 S. Cabrillo Highway	Palmer Enterprises (Cameron Palmer)	Bioretention Area
Half Moon Bay Library Replacement Project	620 Correas Street	City of Half Moon Bay	Bioretention Areas, Permeable Pavers, Green Roof, Rainwater Harvesting
Half Moon Bay High School Track and Field Improvements*	1 Lewis Foster Drive	Cabrillo Unified School District	Bioretention Area
Correas Street / Purissima Street Safe Routes to School and GI Project*	Intersection of Correas Street and Purissima Street	City of Half Moon Bay	Bioretention Areas
Pacific Ridge Subdivision*	End of Terrace Avenue (Lat: 37.477, Long: -122.429)	City of Half Moon Bay	Bioretention Swale, CDS Units (2)

*Non-Provision C.3 Regulated Project

³⁴ "Newly Installed" includes those facilities for which the final installation inspection was performed during this reporting year.

³⁵State the responsible operator for installed stormwater treatment systems and HM controls.

C.3.e.v.Special Projects Reporting Table												
Reporting Period – July 1 2018 - June 30, 2019												
Project Name & No.	Permittee	Address	Application Submittal Date ³⁶	Status ³⁷	Description ³⁸	Site Total Acreage	Gross Density DU/Acre	Density FAR	Special Project Category ³⁹	LID Treatment Reduction Credit Available ⁴⁰	List of LID Stormwater Treatment Systems ⁴¹	List of Non-LID Stormwater Treatment Systems ⁴²
NA	NA	NA	NA	NA	NA	NA	NA	NA	Category A: Category B: Category C: Location: Density: Parking: NA	Category A: Category B: Category C: Location: Density: Parking: NA	Indicate each type of LID treatment system and % of total runoff treated. NA	Indicate each type of non-LID treatment system and % of total runoff treated. Indicate whether minimum design criteria met or certification received NA

³⁶Date that a planning application for the Special Project was submitted.

³⁷ 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.

³⁸Type of project (commercial, mixed-use, residential), number of floors, number of units, type of parking, and other relevant information.

³⁹ For each applicable Special Project Category, list the specific criteria applied to determine applicability. For each non-applicable Special Project Category, indicate n/a.

⁴⁰For 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.

⁴¹: 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.

⁴²List 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.

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Special Projects Narrative

NA

C.3.j.ii.(2) ► Table A - Public Projects Reviewed for Green Infrastructure				
Project Name and Location⁴³	Project Description	Status⁴⁴	GI Included?⁴⁵	Description of GI Measures Considered and/or Proposed or Why GI is Impracticable to Implement⁴⁶
Seymour Ditch Erosion and Coastal Stabilization <i>(Seymour Ditch Erosion)</i>	Project # 608 - This project involves finalizing the design, environmental, obtaining the Coastal Development Permit (CDP) of the Seymour Ditch and protection of the San Mateo County landfill immediately adjacent to the ditch. The project will require partnership with San Mateo County, resource agencies and adjacent property owners (Peninsula Open Space Trust (POST) and Coastside Land Trust (CLT), analysis of alternatives, design of preferred alternatives, permitting for the preferred alternative and ultimately construction on the ditch, which is 300 linear feet across.	The project design is anticipated to be completed in FY 19/20.	TBD	Though the focus of this project is on ditch erosion repair and coastal stabilization, the City will assess the possibility of including upstream GI measures to manage upstream stormwater and mitigate future erosion. GI improvements could be installed in the Magnolia Street neighborhood, for example.
Kehoe Water Course and Habitat Enhancement Project <i>(Kehoe Ditch Implementation- Pilarcitos to Frontage Road)</i>	Project # 534 - This project involves project design and consultation with resource/permitting agencies to address hydrologic and hydraulic issues within the 21,648 linear for watershed and alternation of the Kehoe Streambed agreement. Habitat enhancement may be included as a desired outcome as part of the consultation, scoping, and grant seeking process.	The project schedule has not yet been established.	TBD	Green infrastructure could be installed upstream of the project to manage stormwater prior to entry to Kehoe Ditch. Various GI measures will be considered during project design development.
Carter Park Improvements	Project # 611 - The Parks Master Plan identified John L. Carter Memorial Park as an opportunity to create a more actively utilized space by adding improvements to facilitate greater opportunities for performances and day camps. The purpose	In FY 19-20 the City will be completing 60% design drawings and cost estimates.	TBD	Various GI measures will be considered during project design development, including bioretention areas.

⁴³ List each public project that is going through your agency's process for identifying projects with green infrastructure potential.

⁴⁴ Indicate status of project, such as: beginning design, under design (or X% design), projected completion date, completed final design date, etc.

⁴⁵ Enter "Yes" if project will include GI measures, "No" if GI measures are impracticable to implement, or "TBD" if this has not yet been determined.

⁴⁶ Provide a summary of how each public infrastructure project with green infrastructure potential will include green infrastructure measures to the maximum extent practicable during the permit term. If review of the project indicates that implementation of green infrastructure measures is not practicable, provide the reasons why green infrastructure measures are impracticable to implement.

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	of this project is to develop and implement a long-term plan for the site and identify projects that may be completed in the near-term to improve the site.			
New Magnolia/Seymour Park	Project # - TBD - This project involves converting an existing vacant lot into a new neighborhood park. It will include design, bid, purchase, and installation of a new park features.	The project schedule has not yet been established.	TBD	Various GI measures will be considered during project design development, including bioretention areas.
Crosswalks and ADA Retrofit Program	Project # 572 - This project involves annual evaluation, prioritization and construction of improvements, including sidewalks and curb ramps, to comply with the ADA. This program also includes the placement of new and improved crosswalks to improve pedestrian safety, often in conjunction with ADA related work.	This is an ongoing project.	No	The project budget is not sufficient for the construction of GI improvements (\$65k annual allocation).
Highway 1 Safety - South	Project # 523 - This project will provide operational and safety improvements to Highway 1 between Wavecrest Road and Seymour Street. It also includes construction of a signal at the Higgins Canyon Road, Main Street and Highway 1 intersection with landscape and gateway signage, as well as controlled pedestrian/bicycle access to serve Naomi Patridge Trail and Smith Field Park. This project is principally funded through a grant from San Mateo County Transportation Authority.	Project design is underway. Construction is anticipated to begin and end in FY 19/20.	TBD	Various GI measures will be considered during project design development, including bioretention areas.
Poplar Complete Street Project	Project # 593 - This project includes the design and improvements of a 3,012-foot strip of Poplar Street from Main Street to Railroad Avenue as a "Complete Street" project. Anticipated enhancements include pedestrian and bicycle facilities, storm water improvements, and green infrastructure.	The project design began in FY 17/18. The project is expected to be constructed in FY 19/20.	TBD	Various GI measures will be considered during project design development, including stormwater curb extensions.
Kelly Avenue Rehabilitation Project (Kelly Avenue Complete Street Project)	Project # - TBD - This project will include the design and improvement of 4,532 feet of Kelly Ave, from Main Street to the beach, as a "Complete Street" project. Enhancements are anticipated to include improved pedestrian/bicycle access and drainage.	The project schedule has not yet been established.	TBD	Various GI measures will be considered during project design development, including bioretention areas.

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Bicycle and Pedestrian Master Plan Implementation Program (<i>Ocean Colony Trail Repair North</i>)	Project # 615 - This project includes the implementation of the projects identified in the Bike and Pedestrian Master Plan. Projects anticipated in FY 19-20 include design and construction of major rehabilitation for two sections of the Coastal Trail within the Ocean Colony Subdivision.	This project is ongoing.	TBD	Various GI measures will be considered during project design development, including bioretention areas.
Highway 1 Bicycle / Pedestrian Trail Extension	Project # 595 - This project includes the extension of a 10-foot wide bicycle/pedestrian Class I trail from Spindrift Way to Ruisseau Francais Avenue (1,600 feet). This project also includes a new bridge crossing over Frenchman's Creek and is an extension of the Highway 1 Safety projects. Additionally, this project includes the 1,400-foot extension of the Naomi Patridge trail from Roosevelt Blvd to Mirada Road. The design and construction of this project is intended to parallel the Highway 1 Safety - North project to the extent that funding is available.	Project design is underway. Construction is anticipated to occur in FY 21/22.	TBD	Various GI measures will be considered during project design development, including bioretention areas.
Bikeway Connectivity Project - North	Project # 619 - This project includes the design, permitting, environmental clearance, and construction of a Class I multi-use path parallel to the east side of Highway 1 between Roosevelt Blvd and Mirada Road. The project will extend the current Class I path from the existing terminus at Roosevelt Blvd north to the City limits. The path will be approximately 10-foot wide and will be extended for approximately 0.26 miles north.	Project design is underway. Construction is anticipated to occur in FY 20/21.	TBD	Various GI measures will be considered during project design development, including bioretention areas.
Pedestrian / Bicycle Connection at Hatch Elementary	Project # - TBD - This project will improve the bicycle/pedestrian access on 2nd Ave from Central Ave to Granelli Ave. The project will also incorporate green infrastructure, ADA improvements, and an educational component.	Project design is underway. Construction is anticipated to occur in FY 20/21.	TBD	Various GI measures will be considered during project design development, including bioretention areas.
Wavecrest Walkway Extension (<i>Walkway Extension from Cameron's to Smith Field</i>)	Project # 564 - This project will provide an all-weather use walkway along 2,162 linear foot of Wavecrest Road to encourage multi-modal transportation to Smith Field Park.	The project design phase is scheduled for FY 19/20, and the construction is scheduled for FY 20/21.	TBD	Various GI measures will be considered during project design development, including bioretention areas.

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<p>Naomi Patridge Trail Extension (South)</p>	<p>Project # - TBD - The project includes the extension of the Naomi Patridge Trail from Wavecrest Road to Miramontes Point Road. As part of initial work, the City will evaluate whether a single trail on the east side of Highway 1, a single trail on the west side, or a trail on each side is functionally and financially best. The large number of private driveways on the west side of Highway 1 is of concern for user safety.</p>	<p>The project schedule has not yet been established.</p>	<p>TBD</p>	<p>Various GI measures will be considered during project design development, including bioretention areas.</p>
<p>Poplar Beach Coastal Trail - Relocation and Erosion Mitigation</p>	<p>Project # - TBD - This project involves the construction of the new Poplar beach Coastal Trail easterly of its current alignment due to sea-level rise and localized erosion. This project will also include connection to the Poplar beach Parking Lot, erosion mitigation, bluff top restoration and new controlled access.</p>	<p>The project schedule has not yet been established.</p>	<p>TBD</p>	<p>Various GI measures will be considered during project design development, including bioretention areas.</p>

FY 18/19 Notes:

The Smith Field Tot Lot and Smith Field T-Ball Projects have been removed from Table A. These projects are no longer funded and there is no set date of when the Parks Master Plan will start. The projects will be reassessed for GI Potential when they are added to the CIP.

C.3.j.ii.(2) ► Table B - Planned and/or Completed Green Infrastructure Projects			
Project Name and Location⁴⁷	Project Description	Planning or Implementation Status	Green Infrastructure Measures Included
Highway 1 / Kelly Avenue Intersection Improvement Project	Project # 571 - This project includes the final design, permitting, bid, and reconstruction of the 15,000 square foot Kelly Avenue-Highway 1 intersection. The project is intended to provide improved and safer pedestrian crossing and extend the southbound left turn stacking per Caltrans requirements. This project also includes an alternative analysis for a potential bicycle and pedestrian overcrossing of Highway 1.	See Kelly Avenue / Highway 1 Drainage Project.	See Kelly Avenue / Highway 1 Drainage Project.
Kelly/Highway 1 Drainage Project	Project # TBD - This project involves improvements to the drainage at the intersection of Highway 1 and Kelly Avenue, diverting stormwater to flow along the east side of Highway 1, to the north of the intersection adjacent to Shoreline Station.	Project is being designed. The project is estimated to be completed in FY 19/20.	Project includes bioretention areas.
Highway 1 Safety - North	Project # 538 - This project includes operational and safety improvements to highway 1 between North Main Street and Grandview Ave. It also includes lane intersection improvements for signalization and development of a multi-use trail on the east side of Highway 1 from Main Street North to Spindrift Way. This project is principally funded through a grant from San Mateo County Transportation Authority and also includes development-related impact fees from the Pacific Ridge Subdivision.	The project is being designed. Construction is anticipated to occur in FY 20-21.	The project will install bioretention areas.
Correas Street Reconstruction Between Main and Church	Construction of new bulb-outs with accessible ramps, biotreatment areas, curb and gutter, sidewalk, paving, crosswalks, striping, and signage.	Construction complete.	The project installed biotreatment areas within the bulb outs.

FY 18/19 Notes:

⁴⁷ List each planned (and expected to be funded) public and private green infrastructure project that is not also a Regulated Project as defined in Provision C.3.b.ii. Note that funding for green infrastructure components may be anticipated but is not guaranteed to be available or sufficient.

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The Storm Drain Master Plan (Phase 1 and 2) have been removed from Table B. Though the City will continue to assess opportunities to pair green infrastructure improvements with storm drain improvements, the Storm Drain Master Planning effort qualifies as a “technical study”, because it does not involve direct construction. Therefore, per the BASMAA screening process, they are removed as having “No Potential” for GI and will no longer be reported in Table A or B. Drainage projects will be added to the CIP and assess individually.

The Skateboard Plaza Project was reported in the FY 17/18 Annual Report as a green infrastructure project installed in November 2016. However, site inspection did not reveal the presence of a bioretention area, as shown on the project drawings. Therefore, this project will no longer be reported in Table B.

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

Program Highlights and Evaluation

Highlight/summarize activities for reporting year:

Summary:

The City's current stormwater inspection program included the following activities.

- Update of City's business stormwater inspection list in October 2018 to reflect new inspection frequencies and priorities based on inspections conducted within the reporting year.
- Update of the business stormwater inspection list to reflect the City's latest business license list.
- Conducted 60 business inspections.
- Inspectors participated in an internal C4 Inspector Training program.
- Participated in SMCWPPP CII Subcommittee.

Refer to the C.4. Industrial and Commercial Site Controls section of SMCWPPP's FY 2018/19 Annual Report for a description of activities of the countywide program.

C.4.b.iii ► Potential Facilities List (i.e., List of All Facilities Requiring Stormwater Inspections)

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

The Potential Facilities List is attached as Appendix A.

C.4.d.iii.(2)(a) & (c) ► Facility Inspections

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

<input checked="" type="checkbox"/>	Permittee reports multiple discrete potential and actual discharges at a site as one enforcement action.
<input type="checkbox"/>	Permittee reports the total number of discrete potential and actual discharges on each site.

	Number
Total number of inspections conducted (C.4.d.iii.(2)(a))	60
Violations, enforcement actions, or discreet number of potential and actual discharges resolved within 10 working days or otherwise deemed resolved in a longer but still timely manner (C.4.d.iii.(2)(c))	17

Comments:

Between January 2019 through June 2019, the City hired CSG Consultants, Inc as their third-party inspection contractor. CSG conducted 60 stormwater business inspections within the reporting year. Thirteen (13) of the 52 sites were given a verbal warning and corrected within 10 days. Four (4) Notice of Violations were issued because the businesses had similar issues in prior years. These enforcement actions were resolved in a timely manner.

The City's contractor followed the Enforcement Response Plan and will continue to increase the inspection frequency of businesses which received enforcement actions as well as escalate enforcement to help deter unwanted issues. When the issues identified during C.4 inspections are not corrected within a timely manner, the City's contractor escalates enforcement until corrective actions are made. Follow-up inspections were routinely conducted within 10 days or otherwise deemed resolved in a longer, but still timely manner, based on available resources.

C.4.d.iii.(2)(b) ► Frequency and Type of Enforcement Conducted

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

	Enforcement Action (as listed in ERP) ¹	Number of Enforcement Actions Taken
Level 1	Verbal Warning / Written Warning	13
Level 2	Notice of Violation	4
Level 3	Administrative Order	0
Level 4	Administrative Penalty/Legal Action	0
Total		17

C.4.d.iii.(2)(d) ► Frequency of Potential and Actual Non-stormwater Discharges by Business Category

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

Business Category²	Number of Actual Discharges	Number of Potential Discharges
General Retail	0	3
Food Establishments	0	12

¹Agencies to list specific enforcement actions as defined in their ERPs.

²List your Program's standard business categories.

Printing	0	2
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C.4.d.iii.(2)(e) ▶ 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:

NA; No non-filer sites were identified in FY 18/19.

C.4.e.iii ▶ Staff Training Summary

Training Name	Training Dates	Topics Covered	No. of Industrial/ Commercial Site Inspectors in Attendance	Percent of Industrial/ Commercial Site Inspectors in Attendance	No. of IDDE Inspectors in Attendance	Percent of IDDE Inspectors in Attendance
C4 Inspector Training by CSG Consultants, Inc.	Jan 9, 2019 May 13, 2019	<ul style="list-style-type: none"> • Municipal Regional NPDES Permit (MRP) Basics and Changes • Stormwater Quality Protection • Outreach Material • In Field Training • Inspection Form Review • Standard Operating Procedures (SOP)s and Logistics 	2*	100%	0	0%

Comments:

*The City contracts with CSG Consultants, Inc. (CSG) to provide inspections of industrial and commercial facilities on behalf of City staff. Two inspectors performed all site inspections in the City of Half Moon Bay. CSG training is based on SMCWPPP trainings to ensure consistency with the countywide program, as well as the City's Business Inspection Plan (BIP) and Enforcement Response Plan (ERP) to address local SOPs and local types of businesses.

City staff provides IDDE response and coordinates with CSG when the illicit discharge occurs at a commercial site or business facility. Commercial/retail sites that have an illicit discharge are added to the next FY C.4 Business Inspection List for at least one year following the illicit discharge.

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

Program Highlights and Evaluation

Highlight/summarize activities for reporting year:

Provide background information, highlights, trends, etc.

Summary:

The City conducted the following activities within the reporting year:

- Implementation of a storm drainage collection system screening program.
- Participation in the Commercial, Industrial and Illicit Discharge (CII) Subcommittee.
- Conducted storm water inspections at commercial facilities to detect and eliminate potential illicit discharges.

When the City receives a report of illicit discharge or notices an illicit discharge, City staff immediately reports to the site and traces the illicit discharge back to its source. The City then meets with the property owner and issues enforcement actions and provides cleanup suggestions and information, as needed. After the issue is identified and logged, the City performs a follow-up inspection to confirm that the issue has been resolved.

Refer to the C.5 Illicit Discharge Detection and Elimination section of SMCWPPP's FY 2018/19 Annual Report for description of activities at the countywide or regional level.

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

Summary of any changes made during FY 18-19:

The City's Stormwater Illicit Discharge Contact was modified in FY 18/19 – the new contact is listed on the SMCWPPP website at <https://www.flowstobay.org/reportpollution>.

Point of contact changed to: Todd Seeley, Public Works

Title: Public Works Superintendent

Phone: 650-750-2029

tseeley@hmbcity.com

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

Spill and Discharge Complaint Tracking (fill out the following table or include an attachment of the following information)	
	Number
Discharges reported (C.5.d.iii.(1))	0
Discharges reaching storm drains and/or receiving waters (C.5.d.iii.(2))	0
Discharges resolved in a timely manner (C.5.d.iii.(3))	0
Comments: NA	

C.5.e.iii.(2) ► Control of Mobile Sources

(a) Provide changes to your agency's minimum standards and BMPs for each of the various types of mobile businesses since the 2017 Annual Report (C.5.e.iii.(2)(a))

The City of Half Moon Bay follows the minimum standards and BMPs described in the "Best Management Practices for Mobile Businesses" fact sheet recently updated by the SMCWPPP CII Subcommittee in April 2019 for the following mobile business categories: automobile washers/detailers, power washers, carpet cleaners, steam cleaners, pet care services. The format of the fact sheet was updated but there have been no changes to the BMPs since the 2017 Annual Report.

(b) Provide changes to your agency's enforcement strategy for mobile businesses (C.5.e.iii.(2)(b))

Inspectors and/or other staff find mobile businesses improperly discharging wash water to the street, gutter, storm drain, etc. through a complaint investigation or during routine field work and issue enforcement actions and track the facility through their Illicit Discharge Detection and Elimination (IDDE) spill and discharge complaint tracking system according to MRP C.5.d.

Since FY 2013/14 SMCWPPP's enforcement strategy has been to track mobile business enforcement actions from SMCWPPP permittees in a table available on the SMCWPPP CII members only webpage. The tracking table is periodically updated.

(c) Provide minimum standards and BMPs developed for additional types of mobile businesses addressed since 2017 Annual Report (C.5.e.iii.(2)(c))

SMCWPPP has not developed minimum standards and BMPs for additional types of mobile businesses other than those described in (a) above.

(d) Provide a list and summary of the specific outreach events and education conducted to each type of mobile business operating within your jurisdiction during the Permit term (C.5.e.iii.(2)(d)):

Refer to the C.5 Illicit Discharge Detection and Elimination section of SMCWPPP's FY 2018/19 Annual Report for a description of activities at the countywide or regional level.

(e) Discuss inspections conducted at mobile businesses and/or job sites (C.5.e.iii.(2)(e))

The City of Half Moon Bay conducts inspections at mobile businesses if the business is reported to City staff through the C.5 Illicit Discharge Detection and Elimination program, or if identified as not implementing proper BMPs during City staff's routine fieldwork. No such inspections were reported this year, because no referrals were received through the C.5 program or routine fieldwork. The City does not otherwise routinely inspect mobile businesses.

(f) List below or attach the list of mobile businesses operating within your agency's jurisdiction (C.5.e.iii.(2)(f))

In FY 2016/17 SMCWPPP compiled an inventory of mobile businesses located in Santa Mateo County. The inventory was developed by reviewing lists provided by individual agencies, yellow page searches and online business searches. The inventory includes automotive washing, steam cleaning, power washing, pet care services and carpet cleaning mobile businesses. The inventory is periodically updated with mobile businesses stormwater inspectors observe during routine field activities, including responding to illicit discharges. The inventory is made available to all San Mateo County Permittees on the SMCWPPP CII members only webpage. The inventory is included in SMCWPPP's FY 2018/19 Annual Report and currently has approximately 175 mobile businesses.

(g) Discuss enforcement actions taken against mobile businesses during the Permit term (C.5.e.iii.(2)(g))

In FY 18/19 there were zero enforcement actions taken against mobile businesses.

C.5.f.iii ► MS4 Map Availability

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

In August 2016, the City of Half Moon Bay completed a Storm Drain Master Plan, which is hosted on the City website at the following link: <https://www.half-moon-bay.ca.us/173/Storm-Water-Management>. This Master Plan includes detailed maps of the City's MS4. In addition, MS4 maps are available to the public on the Oakland Museum Creek Mapping Project website (<http://explore.museumca.org/creeks/crkmap.html>). These maps include municipal storm drains that measure 24 inches or greater in diameter.

Section 6 – Provision C.6 Construction Site Controls

C.6.e.iii.(3)(a), (b), (c), (d) ▶ Site/Inspection Totals			
Number of active Hillside Sites (sites disturbing < 1 acre of soil requiring storm water runoff quality inspection) (C.6.e.iii.3.a)	Number of High Priority Sites (sites disturbing < 1 acre of soil requiring storm water runoff quality inspection) (C.6.e.iii. 3.c)	Number of sites disturbing ≥ 1 acre of soil (C.6.e.iii.3.b)	Total number of storm water runoff quality inspections conducted (include only Hillside Sites, High Priority Sites and sites disturbing 1 acre or more) (C.6.e.iii. 3.d)
0	0	2	16
Comments: The City regularly inspects all construction sites, including those not captured by the above Provision C.6 categories.			
Provide the number of inspections that are conducted at sites not within the above categories as part of your agency’s inspection program and a general description of those sites, if available or applicable. Information is not available.			

C.6.e.iii.(3)(e) ▶ Construction Related Storm Water Enforcement Actions		
	Enforcement Action (as listed in ERP)¹	Number Enforcement Actions Issued
Level 1 ²	Verbal Warning	5
Level 2	Notice of Violation	1
Level 3	Administrative Order (Stop Work Order)	0
Level 4	Administrative Penalty / Legal Action	0
Total		6

¹Agencies should list the specific enforcement actions as defined in their ERPs.
²For example, Enforcement Level 1 may be Verbal Warning.

C.6.e.iii.(3)(f), ► Illicit Discharges	
	Number
Number of illicit discharges, actual and those inferred through evidence at hillside sites, high priority sites and sites that disturb 1 acre or more of land (C.6.e.iii. 3.f)	0

C.6.e.iii.(3)(g) ► Corrective Actions	
Indicate your reporting methodology below.	
<input checked="" type="checkbox"/>	Permittee reports multiple discrete potential and actual discharges at a site as one enforcement action.
<input type="checkbox"/>	Permittee reports the total number of discrete potential and actual discharges on each site.
	Number
Enforcement actions or discrete potential and actual discharges fully corrected within 10 business days after violations are discovered or otherwise considered corrected in a timely period (C.6.e.iii. .3.g)	5
Comments: All enforcement actions were followed up on by site representatives in a timely manner, except for one violation which was identified at one site at the first (October) inspection. At the follow-up inspection (which occurred within 10 days of the violation), the enforcement level was escalated due to the issue not having been resolved. No potential or actual discharges occurred. At the next follow-up inspection, all issues were found to be corrected. Contractors were found to be highly responsive to the City's requests to correct onsite issues during the reporting year FY 18-19.	

C.6.e.iii.(4) ► Evaluation of Inspection Data
Describe your evaluation of the tracking data and data summaries and provide information on the evaluation results (e.g., data trends, typical BMP performance issues, comparisons to previous years, etc.).
Description: Last year, similar issues were found in the same BMP categories. More violations occurred this year, but this was primarily due to there being a very large construction site which was active and required a great deal of BMP maintenance and repair due to heavy use. The Contractor was highly responsive when issues were identified and made changes quickly to address those issues. The program is highly effective at identifying and correcting onsite construction BMP issues.

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

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

Description:

The City does a good job of ensuring that sites on the construction tracking list were inspected each month during the wet season and ensuring that follow-up inspections were performed within 10 or fewer working days after violations were identified. Also, the City did a great job of responding quickly when the issues at one site were not corrected in escalating enforcement, if needed.

In FY 18-19, the following improvements were made to the program:

- Inspectors attended the training event hosted by SMCWPPP on March 11, 2019; and
- City staff continued to participate in the SMCWPPP New Development Subcommittee.

Refer to the C.6 Construction Site Control section of the SMCWPPP's FY 2018/19 Annual Report for a description of activities at the Program or regional level.

C.6.f.iii ► Staff Training Summary

Training Name	Training Dates	Topics Covered	No. of Inspectors in Attendance
SMCWPPP Construction Stormwater Inspections Training	March 11, 2019	Construction site stormwater inspections, as well as during- and post-construction inspections of stormwater treatment controls.	1 (100%)

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

C.7.b.i.1 ► Outreach Campaign

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

Summary:

The City is under contract with Republic Services, their waste hauler, to provide outreach as part of their contract, which is aimed at encouraging trash reduction. In FY 18/19, the City entered into a new 10-year Franchise Agreement with Republic Services.

See Section 7 and Section 9 of the SMCWPPP 2018/19 Annual Report for a description of outreach campaign activities conducted at the countywide level.

C.7.c. Stormwater Pollution Prevention Education

The City's Stormwater Illicit Discharge Contact was modified in FY 18/19 – the new contact is listed on the SMCWPPP website at <https://www.flowstobay.org/reportpollution>.

Point of contact changed to: Todd Seeley, Public Works

Title: Public Works Superintendent

Phone: 650-750-2029

tseeley@hmbcity.com

C.7.d ► Public Outreach and Citizen Involvement 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
 See Section 7 of the SMCWPPP FY 2018/19 Annual Report for a description of public outreach and citizen involvement events activities conducted at the countywide level.

Event Details	Description (messages, audience)	Evaluation of Effectiveness
Provide event name, date, and location. Indicate if event is local, countywide or regional. Indicate if event is public outreach or citizen involvement.	Identify type of event (e.g., school fair, creek clean-up, storm drain stenciling, farmers market etc.), type of audience (school children, gardeners, homeowners etc.) and outreach messages (e.g., Enviroscene presentation, pesticides, stormwater awareness)	Provide general staff feedback on the event (e.g., success at reaching a broad spectrum of the community, well attended, good opportunity to talk to gardeners etc.). Provide other details such as: <ul style="list-style-type: none"> • Success at reaching a broad spectrum of the community • Number of participants compared to previous years. • Post-event effectiveness assessment/evaluation results • Quantity/volume of materials cleaned up, and comparisons to previous efforts
California Coastal Cleanup Day Dunes Beach, Pillar Point Harbor, Poplar Beach, Tunitas Creek Beach Regional and Local Event Saturday, September 24, 2018	Similar cleanup events were held at over 30 locations throughout San Mateo County on this day (9am to noon). The City of Half Moon Bay assists in this event by providing trash and recycling bags, and by picking up the trash collected at the end of the day.	This is an annual event that is very effective in education and community involvement, and trash reduction. The number of volunteers, trash and recyclables collected, greenwaste and cigarette butts collected is not available specifically for City of Half Moon Bay; however, refer to the SMCWPPP FY18-19 annual report for data. Volunteers brought one or more reusable item from to use during the cleanup, which lessened the trash bag to provide during the cleanup.
Coastal Clean-Up Team	The City contracted with Abundant Grace,	The program is still in the pilot phase and is

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<p>Coastal Trail (Seymour Bridge to Kelly Ave) The Beaches (Seymour Bluff to Kelly Ave) Peak Season: April 1st through October 31st Off Season: November 1st through March 31st</p>	<p>a non-profit organization) to provide Coastal Clean-Up Services along the Coastal Trail and the beach. These efforts are focused on picking up trash, emptying garbage cans, and removing horse manure. During peak season, clean-ups take place 3x/week for up to four hours per day (depending on need). In the off-peak season, clean-ups will take place 2x/week for up to four hours per day.</p>	<p>scheduled to run until March 2019. Effectiveness of program will be evaluated at the end of the program.</p>
<p>Pacifica Beach Coalition Monthly Beach Cleanup Event on Saturdays at various locations, including beaches in the City of Half Moon Bay</p>	<p>The Pacific Beach Coalition is dedicated to preserving the ocean, coastal habitat, and wildlife, and ending litter through advocacy, education, community building, and citizen action. They organize monthly beach cleanup events at which volunteers pick up trash along the California Coast.</p> <p>The City supports this event by providing trash bags and picking up full bags to dispose at the end of the event.</p>	<p>Detailed data about the success of Pacifica Beach Coalition Events is available on their website: https://www.pacificbeachcoalition.org/2018-successes/</p>
<p>End of Summer Cleanout August 11, 2018</p>	<p>Event that provided free E-waste recycling, free shredding, free composting, and free household hazardous waste pickup.</p>	<p>This event was well attended by local residents. There were an estimated 80 residents in attendance.</p>
<p>Coastside Land Trust Events: Wavecrest Workday Wavecrest Road August 18, 2018</p>	<p>The Coastside Land Trust is a non-profit organization that protects urban open space on the San Mateo County Coastside by purchasing and receiving donations of land and conservation easements, which includes Half Moon Bay and various other coastal agencies. The event is a habitat restoration workday. Volunteers work together to remove invasive plants around the coastal trail, picking up trash and abating graffiti.</p>	<p>The events sponsored by the Coastside Land Trust is very effective and involves the community ranging all ages.</p>

	<p>The City supports this event by providing trash bags and picking up full bags to dispose at the end of the event.</p>	
<p>15th Annual Earth Day of Action and EcoFair April 19, 2019</p>	<p>At this event, volunteers clean the shoreline in their community. The first part of the event (9am -11am) involves trash pickup on beaches, parks, and streets, as well as planting, habitat restoration, gardening, and more. In the early afternoon (11:30am – 2:30pm), there was a celebration (EcoFest) at Linda Mar State Beach in the south parking lot.</p> <p>The City provided a Kid's Activity station (recycled art project).</p> <p>Organizations present: Peninsula Clean Energy, HMB Library, Republic Services, Commute.org, SMCo Office of Sustainability.</p>	<p>This event was successful and well attended. 130 residents used e-waste and shred services. 100-150 residents stopped by the organization's tables. 30-50+ utilized the composting services, which had a steady flow of use all day and through the weekend (the container did not have much left at the end of the day).</p>

C.7.e. ► Watershed Stewardship Collaborative Efforts

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

Evaluate effectiveness by describing the following:

- Efforts undertaken
- Major accomplishments

Summary:
 See Section 7 of the SMCWPPP 2018/19 Annual Report for a description of watershed stewardship collaborative efforts conducted at the countywide level.

C.7.f. ► School-Age Children Outreach

Summarize school-age children outreach programs implemented. A detailed report may be included as an attachment. Use the following table for reporting school-age children outreach efforts. See Section 7 of the SMCWPPP FY 2018/19 Annual Report for a description of school-age children outreach efforts conducted at the countywide level.

Program Details	Focus & Short Description	Number of Students/Teachers reached	Evaluation of Effectiveness
Provide the following information: Name Grade or level (elementary/ middle/ high)	Brief description, messages, methods of outreach used	Provide number or participants	Provide agency staff feedback. Report any other evaluation methods used (quiz, teacher feedback etc.). Attach evaluation summary if applicable.
Refer to the C.7 Section of the countywide program's FY 18-19 Annual Report for a description of School-age Children Outreach efforts conducted at the countywide level.			
School-Aged Outreach part of the Franchise Agreement with Republic Services Audiences: <ul style="list-style-type: none"> • Elementary Schools • High Schools • Broader Community Programs include: <ul style="list-style-type: none"> • School Recycling Programs (Elementary Schools) • "Be Seen Keepin' It Clean" (Half Moon Bay High School) 	As part of their Franchise agreement, Republic Services is required to provide up to 5 field trips to Half Moon Bay schools within the City of Half Moon Bay for each year of the Franchise Agreement. The City and Republic Services has also worked towards implementing a new sustainable HMB scholarship which will award its first scholarship in 2019. Republic Services and the City held community events for residents and businesses to educate them on the new programs and services that started in 2018. There was also Earth Day, HMB	Number of participants not available.	Field trips in 2018 were provided to 3 schools in Half Moon Bay. Republic Services also continues to provide technical assistance to local schools and has continued to expand on the lunch program at Hatch Elementary.

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<ul style="list-style-type: none">Sustainable HMB Scholarship (High Schools)	Pumpkin Festival, Night of Lights, Summer Clean Out, and other events throughout the year which included informational booths.		
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Section 9 – Provision C.9 Pesticides Toxicity Controls

C.9.a. ► Implement IPM Policy or Ordinance							
Is your municipality implementing its IPM Policy/Ordinance and Standard Operating Procedures?				<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
If no, explain: NA							
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, carbamates fipronil, indoxacarb, diuron, and diamides. A separate report can be attached as evidence of your implementation.							
Trends in Quantities and Types of Pesticide Active Ingredients Used¹							
Pesticide Category and Specific Pesticide Active Ingredient Used	Amount ²						
	FY 15-16	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	
Organophosphates	0	0	0	0			
Active Ingredient Chlorpyrifos	0	0	0	0			
Active Ingredient Diazinon	0	0	0	0			
Active Ingredient Malathion	0	0	0	0			
Pyrethroids (see footnote #2 for list of active ingredients)	0	0	0	0			
Active Ingredient Type X	0	0	0	0			
Active Ingredient Type Y	0	0	0	0			
Carbamates	0	0	0	0			
Active Ingredient Carbaryl	0	0	0	0			
Active Ingredient Aldicarb	0	0	0	0			
Fipronil	0	0	0	0			

¹Includes all municipal structural and landscape pesticide usage by employees and contractors.

²Weight or volume of the active ingredient, using same units for the product each year. Please specify units used. The active ingredients in any pesticide are listed on the label. The list of active ingredients that need to be reported in the pyrethroids class includes: metofluthrin, bifenthrin, cyfluthrin, beta-cyfluthrin, cypermethrin, deltamethrin, esfenvalerate, lambdacyhalothrin, and permethrin.

Indoxacarb	Reporting not required in FY 15-16	0	0	0		
Diuron	Reporting not required in FY 15-16	0	0	0		
Diamides	Reporting not required in FY 15-16	0	0	0		
Active Ingredient Chlorantraniliprole		0	0	0		
Active Ingredient Cyantraniliprole		0	0	0		
Reasons for increases in use of pesticides that threaten water quality: NA; no increase in use.						
IPM Tactics and Strategies Used: The City implements the following IPM Tactics and Strategies, in addition to limiting the use of pesticides: <ul style="list-style-type: none"> • Use of non-chemical strategies such as monitoring, mowing weeds, mulching. • Replacing invasive plants with natives, if part of a larger-scale project. • Use of baits and traps instead of broadcast pesticides. <p>The City of Half Moon Bay began using rented goats to assist with the City's weed and fire abatement programs within the permit term. The goats have been used to great success and at the backing of local residents. Goats are ideal for weed abatement because they eat many weeds, such that the City can avoid using herbicides. Goats are able to graze large city-owned parcels quickly and with relative ease, and in conjunction with a biologist on-site, the goats are not allowed into any areas that are considered sensitive habitat. The amount grazed by goats each year is significant.</p>						

C.9.b ▶ Train Municipal Employees	
Enter the number of employees that applied or used pesticides (including herbicides) within the scope of their duties this reporting year.	5
Enter the number of these employees who received training on your IPM policy and IPM standard operating procedures within this reporting year.	5
Enter the percentage of municipal employees who apply pesticides who have received training in the IPM policy and IPM standard operating procedures within this reporting year.	100%
Type of Training: Local tailgate meetings are held for staff to train on the IPM policy and IPM standard operating procedures. These trainings are held prior to applying pesticides.	

C.9.c ▶ Require Contractors to Implement IPM				
Did your municipality contract with any pesticide service provider in the reporting year, for either landscaping or structural pest control?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
If yes, did your municipality evaluate the contractor's list of pesticides and amounts of active ingredients used?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No,
If your municipality contracted with any pesticide service provider, briefly describe how contractor compliance with IPM Policy/Ordinance and SOPs was monitored.				
<p>The City avoids spraying pesticides when possible, and only after other methods of IPM are found to be not effective. Active ingredients are tracked by the City, and usage reports are sent to County Agriculture. The City meets internally to discuss IPM strategies as well as personal protective equipment, public safety, awareness. The City does not use pesticides in environmentally sensitive areas such as creeks, swales, or drainage features, but instead uses mechanical weed removal. A biologist monitors all operations to ensure that no sensitive species are nearby when activities are conducted. Mulch is used where possible to control weeds without the use of chemicals.</p> <p>Structural pest management is done by an IPM certified contractor. The City of Half Moon Bay verifies IPM contractor performance by hiring professionals that certify they are properly trained and use IPM in accordance with City policies and procedures. Pesticides are only used when other methods of IPM have been tried and are not effective. No pesticides are used outside of public buildings or in the right-of-way.</p>				
If your agency did not evaluate the contractor's list of pesticides and amounts of active ingredients used, provide an explanation. N/A				

C.9.d ▶ Interface with County Agricultural Commissioners				
Did your municipality communicate with the County Agricultural Commissioner to: (a) get input and assistance on urban pest management practices and use of pesticides or (b) inform them of water quality issues related to pesticides.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
If yes, summarize the communication. If no, explain. See Section 9 of the SMCWPPP FY 2018/19 Annual Report for a summary of the Countywide Program's coordination with the San Mateo County Agricultural Commissioner.				
Did your municipality report any observed or citizen-reported violations of pesticide regulations (e.g., illegal handling and applications of pesticides) associated with stormwater management, particularly the California Department of Pesticide Regulation (DPR) surface water protection regulations for outdoor, nonagricultural use of pyrethroid pesticides by any person performing pest control for hire.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
If yes, provide a summary of improper pesticide usage reported to the County Agricultural Commissioner and follow-up actions taken to correct any violations. A separate report can be attached as your summary. NA				

C.9.e.ii (1) ▶ Public Outreach: Point of Purchase
Provide a summary of public outreach at point of purchase, and any measurable awareness and behavior changes resulting from outreach (here or in a separate report); OR reference a report of a regional effort for public outreach in which your agency participates.
Summary: See Section 9 of the Countywide Program's FY 18-19 Annual Report for a description of point of purchase public outreach efforts conducted at the countywide level and regionally.

C.9.e.ii (2) ▶ Public Outreach: Pest Control Contracting Outreach
Provide a summary of outreach to residents who use or contract for structural pest control and landscape professionals); AND/OR reference a report of a regional effort for outreach to residents who hire pest control and landscape professionals in which your agency participates.
Summary: See the C.9 Pesticides Toxicity Control section of the Countywide Program's FY 18-19 Annual Report for information on point of purchase public outreach conducted countywide and regionally.

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

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

Summary:

See Section 9 of the SMCWPPP FY 2018/19 Annual Report for a summary of the Countywide Program's outreach to pest control operators and landscapers to reduce pesticide use.

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

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

Summary:

During FY 2018/19, we participated in regulatory processes related to pesticides through contributions to the Countywide Program, BASMAA and CASQA. For additional information, see the regional report submitted by BASMAA on behalf of all MRP Permittees.

C.9.g. ► Evaluate Implementation of Pesticide Source Control Actions

(For FY 18-19 Annual Report only) Submit an evaluation that assesses; 1) the effectiveness of IPM efforts required in Provisions C.9.a-e and g, 2) a discussion of any improvements made in the past five years; 3) any changes in water quality regarding pesticide toxicity in urban creeks; and 4) a brief description of one or more pesticide-related area(s) the Permittee will focus on enhancing during the subsequent permit term.

Summary:

See the appendices to SMCWPPP's FY 2018/19 Annual Report for a report that includes the following:

- An evaluation of the effectiveness of source control measures for pesticides and toxicity that have been implemented;
- An evaluation of water quality in relation to pesticides and toxicity in urban creeks;
- Improvements made to Half Moon Bay's IPM Program during this permit term; and
- Pesticide-related area(s) that Half Moon Bay will focus on enhancing during the next permit term.

Section 10 - Provision C.10 Trash Load Reduction

C.10.a.i ► Trash Load Reduction Summary	
For population-based Permittees, provide the overall trash reduction percentage achieved to-date within the jurisdictional area of your municipality that generates problematic trash levels (i.e., Very High, High or Moderate trash generation). Base the reduction percentage on the information presented in C.10.b i-iv and C.10.e.i-ii. Provide a discussion of the calculation used to produce the reduction percentage	
Trash Load Reductions	
Percent Trash Reduction in All Trash Management Areas (TMAs) due to Trash Full Capture Systems (as reported C.10.b.i)	85.9%
Percent Trash Reduction in all TMAs due to Control Measures Other than Trash Full Capture Systems (as reported in C.10.b.ii) ¹	0.0%
Percent Trash Reduction due to Jurisdictional-wide Source Control Actions (as reported in C.10.b.iv)	10.0%
SubTotal for Above Actions	95.9%
Trash Offsets (Optional)	
Offset Associated with Additional Creek and Shoreline Cleanups (as reported in C.10.e.i)	0.0%
Offset Associated with Direct Trash Discharges (as reported in C.10.e.ii)	0.0%
Total (Jurisdictional-wide) % Trash Load Reduction through FY 2018-19	95.9%
<p>Discussion of Trash Load Reduction Calculation and Attainment of the 80% Mandatory Deadline: The City attained and reported 96.7% trash load reduction (including trash offsets) in its FY 17-18 Annual Report. During FY 18-19, the City continued to implement a robust trash control measure program. This helped the City maintain its trash load reduction above the mandatory 80% trash load reduction requirement included in the MRP. The total (jurisdiction-wide) percent trash load reduction in FY 18-19 is 95.9% (including trash offsets). The most recent version of the City’s Baseline Trash Generation Map can be downloaded at http://www.flowstobay.org/content/municipal-trash-generation-maps</p>	

¹ See Appendix 10-1 for changes between 2009 and FY 18-19 in trash generation by TMA as a result of Full Capture Systems and Other Measures.

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

Provide the following:

- 1) Total number and types of full capture systems (publicly and privately-owned) installed prior to FY 18-19, during FY 18-19, and to-date, including inlet-based and large flow-through or end-of-pipe systems, and qualifying low impact development (LID) required by permit provision C.3.
- 2) Total land area (acres) treated by full capture systems for population-based Permittees and total number of systems for non-population based Permittees compared to the total required by the permit.

Type of System	# of Systems	Areas Treated (Acres)
Installed in FY 18-19		
None	-	-
Installed Prior to FY 2018/19		
Connector Pipe Screen (Public)	66	306.5
Hydrodynamic Separators (Private): Mercy Housing / Lesley Gardens CDS Unit, Carnoustie Phases 1-3	1	13.4
Hydrodynamic Separators (Public): North Main St / Hwy 1 CDS Unit, Pacific Ridge CDS Unit #1, Pacific Ridge CDS Unit #2**	3	107.3
Total for all Systems Installed To-date	69	427.2
Treatment Acreage Required by Permit (Population-based Permittees)		15
Total # of Systems Required by Permit (Non-population-based Permittees)		NA

*Areas treated include jurisdictional and non-jurisdictional lands (e.g., public K-12 schools and colleges, and freeways).

**Responsibility for the Pacific Ridge CDS Units was transferred to the City in FY 18/19.

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

Provide the following:

- 1) Jurisdiction-wide trash reduction in FY 18-19 attributable to trash full capture systems implemented in each TMA;
- 2) The total number of full capture systems installed to-date in your jurisdiction;
- 3) The percentage of systems in FY 18-19 that exhibited significant plugged/blinded screens or were >50% full when inspected or maintained;
- 4) A narrative summary of any maintenance issues and the corrective actions taken to avoid future full capture system performance issues; and
- 5) A certification that each full capture system is operated and maintained to meet the full capture system requirements in the permit.

TMA	Jurisdiction-wide Reduction (%)	Total # of Full Capture Systems	% of Systems Exhibiting Plugged/Blinded Screens or >50% full in FY 18-19	Summary of Maintenance Issues and Corrective Actions
1	24.5%			Six (6) CPS units were more than 50% full, and two (2) of these same CPS units required screen repairs. One inlet was identified as having a grate which was difficult to get off, but this did not affect the functionality of the unit. Corrective actions were completed within the fiscal year. In FY 19/20, the maintenance frequency of the six (6) CPS units which were more than 50% full will be increased.
2	0.3%			
3	0.1%			
4	42.5%			
5	0.8%			
Total	85.9%*	69	9%	There was a turnover in the Public Works Department in FY 17/18, and FY 18/19 was the first year that new staff took over the trash capture program. Due to a version error, an older version of the trash capture device list was provided to the City's contractor (Presidio Systems Inc.), which resulted in 8 devices not being inspected with the original 58 devices. The City will inspect these trash capture devices before the FY 19/20 wet season.

Certification Statement: The City of Half Moon Bay certifies that a full capture system maintenance and operation program is currently being implemented to maintain all applicable systems in manner that meets the full capture system requirements included in the Permit.

*The jurisdiction-wide reduction reported for full capture systems includes 17.6% reduction for treatment of 47.7 acres of non-jurisdictional public K-12, college and university school land areas.

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

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

TMA	Summary of Trash Control Actions Other than Full Capture Systems
All	Improved Bin/Container Management
All	Enhanced Street Sweeping
3B	On-land Cleanup

Summary of Trash Control Measures Other than Full Capture Devices:

- **Street Sweeping:** Include a description of any enhancements or new actions implemented after the MRP 1.0 effective date (i.e., December 2009). Identify portions of the TMA where enhanced street sweeping (i.e., increased sweeping frequency) and parking enforcement above 2009 levels was implemented.
- **On-land Cleanup:** Include a description of on-land cleanup activities that began after the MRP 1.0 effective date (i.e., December 2009) and continued into FY 18-19, including any enhancements or new actions implemented in FY 18-19. Describe if these actions are Permittee or volunteer-led.
- **Partial Capture Devices:** Provide a description of devices installed after the MRP 1.0 effective date (i.e., December 2009). Describe the level of maintenance conducted per device types.
- **Storm Drain Inlet Cleaning:** Describe storm drain inlet maintenance activities implemented after the MRP 1.0 effective date (i.e., December 2009) and continued in FY 18-19, including any enhancements or new maintenance activities implemented in FY 18-19. For new/enhanced actions, include the number of inlets where enhanced maintenance occurred, and the increased frequency of maintenance.
- **Uncovered Loads:** Describe activities designed to reduce trash from uncovered loads that began after the MRP 1.0 effective date (i.e., December 2009) and continued in FY 18-19, including any enhancements or new actions implemented in FY 18-19. Describe the types of actions implemented including new or redirected enforcement efforts to increase the focus towards new or enhanced actions.
- **Anti-littering and illegal dumping enforcement activities:** Describe anti-littering and illegal dumping enforcement activities began after to the MRP 1.0 effective date (i.e., December 2009) and continued in FY 18-19, and any enhancements or new actions implemented in FY 18-19. Include any new or redirected enforcement efforts to increase the focus towards new or enhanced actions. Describe the number of citations or other correction actions accomplished this year, and compare with previous years. Indicate how anti-littering and illegal dumping enforcement records are kept, and how they may be retrieved for audit.
- **Improved Trash Bin/Container Management:** Describe activities designed to improve trash bin/container management that began after the MRP1.0 effective date (i.e., December 2009) and continued in FY 18-19, and any enhancements or new actions implemented in FY 18-19. Include any new or redirected efforts to increase the focus towards these new or enhanced actions.

- **Other Types of Actions:** Describe activities designed after the MRP effective date (i.e., December 2009) and continued in FY 2018/19, and any enhancements or new (post December 2009 effective date) actions implemented in FY 2018/19.

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

Provide the following:

- 1) A summary of the on-land visual assessments in each TMA (or control measure area), including the street miles or acres available for assessment (i.e., those associated with VH, H, or M trash generation areas not treated by full capture systems), the street miles or acres assessed, the % of available street miles or acres assessed, and the average number of assessments conducted per site within the TMA; and
- 2) Percent jurisdictional-wide trash reduction in FY 18-19 attributable to trash management actions other than full capture systems implemented in each TMA; OR
- 3) Indicate that no on-land visual assessments were performed.

If no on-land visual assessments were performed, check here **and state why:**

X

Explanation: No OVTAs were conducted in TMAs 1, 3 and 5 in FY 18-19 because minimal street lengths are available for assessments. No OVTAs were conducted in TMAs 2 and 4 in FY 18-19 because both TMAs are addressed via full capture devices.

TMA ID or (as applicable) Control Measure Area	Total Street Miles ² Available for Assessment	Summary of On-land Visual Assessments ³			Jurisdictional-wide Reduction (%)
		Street Miles Assessed	% of Available Street Miles Assessed	Avg. # of Assessments Conducted at Each Site ⁴ 5	
1	0.13	0%	0%	0%	0%
2	0.00	NA*	NA*	NA*	NA*
3	0.03	0%	0%	0%	0%
4	0.00	NA*	NA*	NA*	NA*
5	0.13	0%	0%	0%	0%
Total		0	-	-	0%

*Entire TMA is treated by Full Capture Systems.

² Street miles are defined as the street lengths and do not include curbs associated with medians

³ Assessments conducted between July 2017 and July 2019 are assumed to be representative of trash levels in FY 18-19 and were therefore used to calculate the jurisdictional-wide reductions reported in this section.

⁴ Each assessment site is roughly 1,000 feet in length.

⁵ Based on analyses conducted as part of the BASMAA *Tracking California's Trash* project (BASMAA 2017) funded by the State Water Resources Control Board, the optimal number of assessment events to detect an improvement from baseline trash levels at a site is between 4 and 6 per site.

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

Provide a description of each jurisdictional-wide trash source control action implemented to-date. For each control action, identify the trash reduction evaluation method(s) used to demonstrate on-going reductions, summarize the results of the evaluation(s), and estimate the associated reduction of trash within your jurisdictional area. Note: There is a maximum of 10% total credit for source controls.

Source Control Action	Summary Description & Dominant Trash Sources and Types Targeted	Evaluation/Enforcement Method(s)	Summary of Evaluation/Enforcement Results To-date	% Reduction
Single Use Bag Ordinance	<p>The City of Half Moon Bay has chosen to participate in the San Mateo County single-use bag ban. The ban went into effect in April 2013.</p> <p>The dominant source of trash targeted by this ordinance are single-use plastic bags.</p>	<p>On behalf of all SMCWPPP Permittees, the County of San Mateo conducted assessments evaluating the effectiveness of the single use plastic bag ban in the municipalities within San Mateo County. Assessments by the County included audits of businesses and surveys of customer bag usage at many businesses in San Mateo County. Additionally, the number of complaints by customers was also tracked by the County. The results of assessment conducted by these cities are assumed to be representative of all SMCWPPP Permittees, given the consistency between the scope, implementation, and enforcement of the ordinances among the municipalities. The City of Half Moon Bay developed its % trash reduced estimate using the following assumptions:</p> <p>1) Single-use plastic bags comprise 8% of the trash discharged from stormwater conveyances, based on the Regional Trash Generation Study conducted by BASMAA.</p>	<p>Results of assessments conducted by the County of San Mateo in behalf of all municipalities in San Mateo County indicate that the City's ordinance is effective in reducing the number of single use bags in stormwater discharges. This preliminary conclusion is based on the very small number of complaints received from customers about businesses in San Mateo County that are continuing to use single use plastic bags after ordinances were adopted. Assuming single use bags are 8% of the trash observed in stormwater discharges, the City of Half Moon Bay concludes that there has been a 7% (i.e., 8% x 86% effectiveness in reducing bags) reduction in trash in stormwater discharges as a result of the City's ordinance.</p>	7%

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

Provide a description of each jurisdictional-wide trash source control action implemented to-date. For each control action, identify the trash reduction evaluation method(s) used to demonstrate on-going reductions, summarize the results of the evaluation(s), and estimate the associated reduction of trash within your jurisdictional area. Note: There is a maximum of 10% total credit for source controls.

		<p>2) 95% of the single use plastic bags distributed in the City of Half Moon Bay are affected by the implementation of the ordinance, based on the County of San Mateo's Environmental Impact Report.</p> <p>3) Of the bags affected by the ordinance, there are now 90% less bags being distributed, based on customer complaints received by the County of San Mateo's Department of Environmental Health Services. This is a conservative estimate given that in FY13-14 Environmental Services only received complaints about 4 of the over 1900 businesses in San Mateo County affected by the single-use plastic bag ordinances.</p>		
<p>Polystyrene Food Service Ware Ordinance</p>	<p>The City adopted a ban on food service polystyrene foam containers in June 2011. The ban went into effect in August 2011. Enforcement is provided by the San Mateo County Division of Environmental Health in conjunction with the MRP Section C.4 business inspection program.</p> <p>The dominant source of trash targeted by this ordinance are EPS food ware containers.</p>	<p>Although the City has adopted and implemented an ordinance prohibiting the distribution of EPS food ware by food vendors, evaluations of the effectiveness of the ordinance have not been conducted. For the purpose of estimating trash reductions in stormwater discharges associated with the ordinance, the results of assessment conducted by the Cities of Los</p>	<p>Results of assessments that are representative of the City of Half Moon Bay, but were conducted by the Cities of Los Altos and Palo Alto, indicate the City of Half Moon Bay's ordinance is effective in reducing EPS food ware in stormwater discharges. This conclusion is based on the following assessment result – an average of 95% of businesses affected by the ordinance are</p>	<p>5%</p>

C.10.b.iv ▶ Trash Reduction – Source Controls

Provide a description of each jurisdictional-wide trash source control action implemented to-date. For each control action, identify the trash reduction evaluation method(s) used to demonstrate on-going reductions, summarize the results of the evaluation(s), and estimate the associated reduction of trash within your jurisdictional area. Note: There is a maximum of 10% total credit for source controls.

		<p>Altos and Palo Alto were used to represent the reduction in trash associated with the City's ordinance. Assessments conducted by these cities were conducted prior to and following the effective date of their ordinances, and include audits of businesses and/or assessments of EPS food ware observed on streets, storm drains, and local creeks. The results of assessments conducted by these cities are assumed to be representative of the effectiveness of the City's ordinance because the implementation (including enforcement) of the City's ordinance is similar to the City of Los Altos' and Palo Alto's. The City of Half Moon Bay developed its %t trash reduced estimate using the following assumptions:</p> <ol style="list-style-type: none"> 1) EPS food ware comprises 6% of the trash discharged from stormwater conveyances, based on the Regional Trash Generation Study conducted by BASMAA. 2) 80% EPS food ware distributed by food vendors or sold via stores in the City of Half Moon Bay is affected by the 	<p>no longer distributing EPS food ware post-ordinance. Based on these results, the estimated average reduction of EPS food ware in stormwater discharges is 90%. Assuming EPS food ware is 6% of the trash observed in stormwater discharges, the City of Half Moon Bay concludes that there has been a 5% (i.e., 6% x 90% reduction in trash in stormwater discharges as a result of the ordinance.</p>	
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C.10.b.iv ► Trash Reduction – Source Controls

Provide a description of each jurisdictional-wide trash source control action implemented to-date. For each control action, identify the trash reduction evaluation method(s) used to demonstrate on-going reductions, summarize the results of the evaluation(s), and estimate the associated reduction of trash within your jurisdictional area. Note: There is a maximum of 10% total credit for source controls.

		<p>implementation of the ordinance. There is now 95% less EPS food ware being distributed, sold, and/ or observed in the environment, based on assessments conducted by the City of Palo Alto and the City of Los Altos.</p>		
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C.10.b.v ▶ Trash Reduction – Receiving Water Monitoring

Report on the progress of developing and testing your agency's trash receiving water monitoring program.

In FY 18-19, the City continued implementing the BASMAA Regional Receiving Water Trash Monitoring Program Plan that was approved by the Water Board's Executive Officer. Implementation included preparing for and conducting qualitative assessments and quantitative monitoring in receiving water locations within the City of Half Moon Bay. Implementation occurred through both the City's own efforts and participation in the San Mateo County Water Pollution Prevention Program (SMCWPPP). Consistent with MRP requirements, a preliminary report describing data results and findings to-date was submitted to the Water Board via BASMAA on July 1, 2019 on behalf of all Permittees. The final report for the development and testing of the Bay Area trash receiving water monitoring program will be submitted by BASMAA by July 1, 2020, consistent with the MRP requirements, following peer review.

In addition to implementing the BASMAA Monitoring Plan, the City coordinated (via SMCWPPP) on the Statewide Trash Monitoring Methods Project, which is funded by the California Ocean Protection Council and State Water Board and administered via the Southern California Coastal Water Research Project (SCCWRP) and San Francisco Bay Estuary Institute (SFEI).

Additional information on accomplishments in FY 18-19 can be found in the Receiving Water Trash Monitoring Program Progress Report included in the SMCWPPP FY 18-19 Annual Report.

C.10.c ▶ Trash Hot Spot Cleanups

Provide the FY 2018/19 cleanup date and volume of trash removed during each MRP-required Trash Hot Spot cleanup during each fiscal year listed. Indicate whether the site was a new site in FY 2018/19.

Trash Hot Spot	New Site in FY 2018/19 (Y/N)	FY 2018/19 Cleanup Date(s)	Volume of Trash Removed (cubic yards)				
			FY 2014/15	FY 2015/16	FY 2016/17	FY 2017/18	FY 2018/19
HMB01	N	10/10/2018	2.6	5.0	253*	14.8	45

*An extremely large volume of trash associated with an illegal encampment was removed during FY 16-17. The trash load included several large items (i.e. mattresses) which significantly increased the cubic yardage removed over previous years. Volunteer groups which previously cleaned the City's creeks have not been able to clean the creeks safely due to the number of homeless encampments present.

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

Provide descriptions of significant revisions made to your Long-term Trash Load Reduction Plan submitted to the Water Board in February 2014. Describe significant changes made to primary or secondary trash management areas (TMA), baseline trash generation maps, control measures, or time schedules identified in your plan. Indicate whether your baseline trash generation map was revised and if so what information was collected to support the revision. If your baseline trash generation map was revised, attach it to your Annual Report.

Description of Significant Revision	Associated TMA
In FY 15-16, consistent with all MRP Permittees, all public K-12 schools, college and university parcels were made non-jurisdictional on the City's baseline trash generation maps. Under California Government Code Sections 4450 through 4461, the construction, modification, or alternation of facilities and/or structures on these parcels are under the jurisdiction of the California Division of State Architect and not the City. The public right-of-way (e.g., streets and sidewalks) surrounding these parcels remain as jurisdictional on the City's baseline trash generation maps. The City's revised baseline trash generation map was included as Appendix 10-2 in the FY 15-16 Annual Report.	All Applicable
In FY 14-15 and FY 15-16 the City conducted a preliminary analysis of trash generation in all TMAs that was originally depicted on Trash Generation Maps included in our Long-Term Trash Load Reduction Plan. The City used a combination of desktop evaluations and field observations. Google Street View applications and On-land Visual Assessments were used to reevaluate baseline trash generation. Trash generation categories were reclassified for areas where information indicated that errors had occurred during initial/preliminary trash generation category assignments. Reclassifications to trash generation categories were used for the purposes of calculating baseline (2009) trash generation included in this report (i.e., as an input parameter to the formula used to calculate load reductions reported in section C.10.d). A copy of the current trash generator map (dated July 11, 2016) showing these changes is attached.	1D, 1E, 2A, 2D, 3A, 3C, 3E, and 5
Adjust portion of Subarea 3A (High School) into Subarea 4A (Current Full Capture Treatment). Based on field inspection in December 2014, a portion of the high school drains to an existing HDS unit in Subarea 4A.	3 & 4
Adjust portion of TMA 5 into Subarea 4B. Based on December 2014 field review, this area drains to a CPS screen in Subarea 4B.	4&5
Entire Subarea 1F now has full trash capture (New CPS screen #1 installed December 2014). Entire Subarea 1C now has full trash capture (New CPS screens #2 and #3 installed December 2014). Portion of Subarea 1B now has full trash capture (New CPS screens #7 and #8 installed December 2014). Portion of Subarea 1B now has full trash capture (New CPS screens #9 and #10 installed December 2014). Portion of Subarea 1B and all of Subarea 2A (Park) now have full trash capture (New CPS screen #11 installed December 2014). Portion of Subarea 1A now has full trash capture (New CPS screen #12 installed December 2014). Portion of Subarea 1-E now has full trash capture (New CPS screens #18, 19, 20, 21, and 22 installed December 2014).	1
Portion of TMA 5 now has full trash capture (New CPS screen #13, #25, #26, and #27 installed December 2014).	5
Portions of TMA 5 and all of Subarea 2B (park) now have full trash capture (New CPS screen #24 installed December 2014).	2 & 5

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

Provide a summary description of each offset program implemented, the volume of trash removed, and the offset claimed in FY 2018/19. Also, for additional creek and shoreline cleanups, describe the number and frequency of cleanups conducted, and the locations and cleanup dates. For direct discharge control programs approved by the Water Board Executive Officer, also describe the results of the assessments conducted in receiving waters to demonstrate the effectiveness of the control program. Include an Appendix that provides the calculations and data used to determine the trash reduction offset.

Offset Program	Summary Description of Actions and Assessment Results	Volume of Trash (CY) Removed/Controlled in FY 2018/19	Offset (% Jurisdiction-wide Reduction)
Additional Creek and Shoreline Cleanups (Max 10% Offset)	<ul style="list-style-type: none"> The City continues to work with the Coastside Land Trust on creek and beach cleanups within the City limits; however, the volumes of trash removed are not readily available and no credit will be reduction offsets will be claimed for this effort. However, the City reserves the right to claim credit for creek and beach cleanups in the future. The City is contracted with Abundant Grace to provide coastal clean-up services along the Coastal Trail (Seymour Bridge to Kelly Ave). These efforts are focused on picking up trash, emptying garbage cans, and removing horse manure. The frequency of the work is determined by the seasons which have been split into "peak" vs. "off-peak." During peak season (April 1 – October 31), clean-ups take place 3x/week for up to four hours per day (depending on need). In the off-peak season (November 1 – March 31), clean-ups will take place 2x/week for up to four hours per day. Homeless Encampment Clean-up – This was a joint effort between the City, San Mateo County, and local nonprofit organizations to clean up the homeless encampment that had formed behind Safeway of the Strawflower Village Shopping Center. The City provided debris boxes for the homeless, so they could get rid of their excess materials and hired biologist consultants to evaluate the area and identify needs for restoration. After the encampment was officially closed, the City hired a contractor to tear down the encampment (there were makeshifts building and smaller structures scattered along the creek). The encampment has been fenced off and we continue to monitor the area. 	<p>NA</p>	<p>NA</p>

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

Provide a summary description of each offset program implemented, the volume of trash removed, and the offset claimed in FY 2018/19. Also, for additional creek and shoreline cleanups, describe the number and frequency of cleanups conducted, and the locations and cleanup dates. For direct discharge control programs approved by the Water Board Executive Officer, also describe the results of the assessments conducted in receiving waters to demonstrate the effectiveness of the control program. Include an Appendix that provides the calculations and data used to determine the trash reduction offset.

Direct Trash Discharge Controls (Max 15% Offset)	NA	NA	NA
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Appendix 10-1. Baseline trash generation and areas addressed by full capture systems and other control measures in Fiscal Year 18-19.⁶

TMA	2009 Baseline Trash Generation (Acres)					Trash Generation (Acres) in FY 18-19 After Accounting for Full Capture Systems					Jurisdiction-wide Reduction via Full Capture Systems (%)	Trash Generation (Acres) in FY 18-19 After Accounting for Full Capture Systems and Other Control Measures					Jurisdiction-wide Reduction via Other Control Measures (%)	Jurisdiction-wide Reduction via Full Capture AND Other Control Measures (%)
	L	M	H	VH	Total	L	M	H	VH	Total		L	M	H	VH	Total		
1	111	33	10	0	154	149	5	0	0	154	24.5%	149	5	0	0	154	0%	24.5%
2	17	1	0	0	18	18	0	0	0	18	0.3%	18	0	0	0	18	0%	0.3%
3	1	17	12	1	31	1	17	12	1	31	0.1%	1	17	12	1	31	0%	0.1%
4	52	27	22	0	101	101	0	0	0	101	42.5%	101	0	0	0	101	0%	42.5%
5	3,510	8	0	0	3,518	3,512	6	0	0	3,518	0.8%	3,512	6	0	0	3,518	0%	0.8%
Totals	3,692	86	44	1	3,822	3,781	28	12	1	3,822	85.9%*	3,781	28	12	1	3,822	0%	85.9%

Note: "NA" indicates that the TMA has no moderate, high or very high trash generating areas (i.e., all low trash generation and/or non-jurisdictional) and therefore no additional trash control measures are needed.

*The jurisdiction-wide reduction reported for full capture systems includes 17.6% reduction for treatment of 47.7 acres of non-jurisdictional public K-12, college and university school land areas.

⁶ Due to rounding, total acres and percentages presented in this table may be slightly different than the sum of the acres/percentages in the corresponding rows/columns (e.g., differ by 1 acre or 0.1%).

Section 11 - Provision C.11 Mercury Controls

C.11.a ► Implement Control Measures to Achieve Mercury Load Reductions

C.11.b ► Assess Mercury Load Reductions from Stormwater

The City of Half Moon Bay does not discharge to the San Francisco Bay, and therefore is not required to implement control measures to achieve Mercury Loads Reductions.

See the Countywide Program's FY 2018/19 Annual Report for updated information on:

- Documentation of mercury control measures implemented in our agency's jurisdictional area for which load reductions will be reported and the associated management areas;
- A description of how the BASMAA Interim Accounting Methodology¹ was used to calculate the mercury load reduced by each control measure implemented in our agency's jurisdictional area and the calculation results (i.e., the estimated mercury load reduced by each control measure);
- Supporting data and information necessary to substantiate the load reduction estimates; and
- For Executive Officer approval, any refinements, if necessary, to the measurement and estimation methodologies to assess mercury load reductions in the subsequent permit.

C.11.c ► Plan and Implement Green Infrastructure to Reduce Mercury Loads

The City of Half Moon Bay does not discharge to the San Francisco Bay, and therefore is not required to implement green infrastructure to achieve Mercury Loads Reductions. However, the City is implementing green infrastructure to address the City's goal of improving the water quality of urban runoff and protect the California Coast.

See the Countywide Program's FY 2018/19 Annual Report for information on the quantitative relationship between green infrastructure implementation and mercury load reductions, including all data used and a full description of models and model inputs relied on to establish this relationship.

¹BASMAA 2017. Interim Accounting Methodology for TMDL Loads Reduced, Version 1.0. Prepared for BASMAA by Geosyntec Consultants and EOA, Inc., September 19, 2016.

C.11.e ► Implement a Risk Reduction Program

A summary of Countywide Program and regional accomplishments for this sub-provision are included in the Countywide Program's FY 2018/19 Annual Report.

Section 12 - Provision C.12 PCBs Controls

C.12.a ► Implement Control Measures to Achieve PCBs Load Reductions

C.12.b ► Assess PCBs Load Reductions from Stormwater

The City of Half Moon Bay does not discharge to the San Francisco Bay, and therefore is not required to implement control measures to achieve PCBs Loads Reductions.

See the Countywide Program's FY 2018/19 Annual Report for:

- Documentation of PCBs control measures implemented in San Mateo County municipal jurisdictional areas for which load reductions will be reported and the associated management areas;
- A description of how the BASMAA Interim Accounting Methodology¹ was used to calculate the PCBs load reduced by each control measure implemented in San Mateo County municipal jurisdictional areas and the calculation results (i.e., the estimated PCBs load reduced by each control measure);
- Supporting data and information necessary to substantiate the load reduction estimates; and
- For Executive Officer approval, any refinements, if necessary, to the measurement and estimation methodologies to assess PCBs load reductions in the subsequent permit.

C.12.c ► Plan and Implement Green Infrastructure to Reduce PCBs Loads

The City of Half Moon Bay does not discharge to the San Francisco Bay, and therefore is not required to implement green infrastructure to achieve PCBs Loads Reductions. However, the City is implementing green infrastructure to address the City's goal of improving the water quality of urban runoff and protect the California Coast.

See the Countywide Program's FY 2018/19 Annual Report for, as part of reporting for C.12.b.iii(2), an estimate of the amount of PCBs load reductions resulting from green infrastructure implementation during the term of the Permit, including all data used and a full description of models and model inputs relied on to generate the estimate.

¹BASMAA 2017. Interim Accounting Methodology for TMDL Loads Reduced, Version 1.1. Prepared for BASMAA by Geosyntec Consultants and EOA, Inc., September 19, 2017.

C.12.f. ► Manage PCB-Containing Materials During Building Demolition

On July 1, 2019, was your agency ready to implement a method for identifying applicable structures (buildings built or remodeled between 1950 and 1980, except that single family residential and wood-framed buildings are exempt) that apply for a demolition permit?	X	Yes		No
On July 1, 2019, was your agency ready to implement a method to manage PCBs during demolition of applicable structures?	X	Yes		No
Does your agency have a data-gathering method in place to inform reporting on the effectiveness of your agency's program to manage PCBs during demolition of applicable structures (e.g., the number of applicable structures, and the amount and concentration of PCBs in priority building materials in applicable structures)?	X	Yes		No

C.12.h ► Implement a Risk Reduction Program

A summary of Countywide Program and regional accomplishments for this sub-provision are included in the Countywide Program's FY 2018/19 Annual Report.

Section 13 - Provision C.13 Copper Controls

C.13.a.iii.(3) ► Manage Waste Generated from Cleaning and Treating of Copper Architectural Features

Provide summaries of permitting and enforcement activities to manage waste generated from cleaning and treating of copper architectural features, including copper roofs, during construction and post-construction.

Summary:

The City's Engineering and Building Department Staff regularly attends CALBIG meetings for training and updates on the requirements of architectural copper and copper piping. The CALBIG meetings occur monthly, and there is an annual meeting focused on stormwater. During construction, municipal construction stormwater inspectors are responsible for identifying copper architectural features and whether appropriate BMPs are implemented. Any issues noted are documented and enforcement actions recorded in the Provision C.6 inspection records.

Post-construction municipal illicit discharge inspectors are responsible for responding to, investigating and identifying illegal discharge of wash water from washing copper architectural features. Any enforcement actions or reported discharges are recorded in the Provision C.5 inspection records. The SMCWPPP "Requirements for Architectural Copper" Fact Sheet is made available to the public, construction inspectors and illicit discharge inspectors on the SMCWPPP website (www.flowstobay.org/files/newdevelopment/flyersfactsheets/ArchitecturalcopperBMPs.pdf). Inspectors are made aware of the concerns with copper architectural features at SMCWPPP Training Workshops and internal municipal trainings.

Upon review of our Provision C.5 illicit discharge inspection data we found no enforcement activities related to copper-containing discharges from copper architectural features.

C.13.b.iii.(3) ► Manage Discharges from Pools, Spas, and Fountains that Contain Copper-Based Chemicals

Provide summaries of any enforcement activities related to copper-containing discharges from pools, spas, and fountains.

Summary:

Upon review of our Provision C.5 illicit discharge inspection data we found no enforcement activities related to copper-containing discharges from pools, spas, and fountains.

C.13.c.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 City does not have industry that utilizes copper or would be a source of industrial copper waste. Therefore, no facilities inspected under Provision C.4 were identified as potential users of copper. The BASMAA POC inspector training materials (in addition to other training materials and resources provided by SMCWPPP) are integrated into the industrial and commercial site training program, which is updated at least every two years. These materials help inspectors to identify potential sources of pollutants of concern, including mercury, PCBs, and copper.

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

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

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

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

Summary:

Implementation of BMPs to promote measures that minimize runoff and pollutant loading from excess irrigation is done in accordance with the City's Municipal Code Chapter 13.04 – Water Conservation in Landscaping Regulations. Water conservation and landscape management is also addressed through the City's land use requirements. The Coastside County Water District (CCWD) also promotes water conservation through offering incentives to both residential and commercial customers.

Related countywide efforts may be described in the following sections of the SMCWPPP FY 2018/19 Annual Report: C.3 New Development and Redevelopment, C.7. Public Information and Outreach, C.9. Pesticide Toxicity Control, and C.15 Exempted and Conditionally Exempted Discharges.

APPENDIX A, FY 18/19 ANNUAL REPORT

C.4.b.iii. Potential Facilities List

City of Half Moon Bay
Last Revised: 10/31/2018

Business Name (DBA)	Business Address	Business Type	Latest Priority
BURGER KING 5378	30 CABRILLO HWY N	RETAIL - FOOD STORE	H
BASKIN ROBBINS	44 CABRILLO HWY N	RETAIL - FOOD STORE	H
NAOMI SUSHI	70 CABRILLO HWY N	RETAIL - FOOD STORE	H
TAQUERIA LA MORDIDA	80 CABRILLO HWY N	RETAIL - FOOD & DRINK	H
BAY CHEVRON	375 CABRILLO HWY N	RETAIL - AUTO/GAS	H
SAMS CHOWDER HOUSE	4210 CABRILLO HWY N	RETAIL - FOOD & DRINK	H
FRUIT GARDEN	80 CABRILLO HWY N STE M	RETAIL - FOOD & DRINK	H
DAD'S LUNCHEONETTE	225 CABRILLO HWY S	RETAIL - FOOD & DRINK	H
SWEET 55	225 CABRILLO HWY S	RETAIL - FOOD & DRINK	H
BAY CITY FLOWER CO	2265 CABRILLO HWY S	AGRICULTURAL SERVICES	H
ENSO	131 KELLY AVE	RETAIL - MISCELLANEOUS	H
BIKE WORKS THE	520 KELLY ST G	RETAIL - MISCELLANEOUS	H
HALF MOON BAY BUILDING & GARDEN	119 MAIN ST	RETAIL - BLDG/GARDEN SUPPLIES	M
MAIN STREET GRILL	547 MAIN ST	RETAIL - FOOD & DRINK	M
SENIOR COASTSIDERS (Adult Day Center)	925 MAIN ST	EXEMPT	M
BLUE WHITE CLEANERS	101 MAIN ST F	SERVICE - PERSONAL	L
HALF MOON BAY WINERY LLC	700 MILL	GENERAL BUSINESS	H
B K MOTORS INC	108&112A N CABRILLO HWY	OTHER BUSINESS	H
STRAW HAT PIZZA	186 SAN MATEO RD	RETAIL - FOOD & DRINK	M
FLYING FISH GRILL	211 SAN MATEO RD	RETAIL - FOOD & DRINK	H
MONSOON HIMALAYAN CUISINE	20 STONE PINE RD	RETAIL - FOOD & DRINK	H
HALF MOON BAY COFFEE COMPANY	20 STONE PINE RD A	RETAIL - FOOD & DRINK	H
CHINA HOUSE	20 STONE PINE RD C	RETAIL - FOOD & DRINK	H
PIZZERIA WEST	20 STONE PINE RD D	RETAIL - FOOD & DRINK	H
SHIKI JAPANESE CUISINE	20 STONE PINE RD E	RETAIL - FOOD & DRINK	H
JERSEY JOES COASTSIDE	40 STONE PINE RD K	RETAIL - FOOD & DRINK	H
PILARCITOS QUARRY	11700 HWY 92		H
SEA CREST SCHOOL	901 ARNOLD WAY	SERVICE - EDUCATION	L
PREMIER TERMITE FLOORS	116 CABRILLO HWY N	CONTRACTOR - SPEC TRADE	L
ANDREOTTI FAMILY FARM	800 CABRILLO HWY N	WHLSE - NONDURABLE GOODS	L
BEACH HOUSE LLC	4100 CABRILLO HWY N	SERVICE - LODGING	L
STARBUCKS COFFEE #6631	80 CABRILLO HWY N Q	RETAIL - FOOD & DRINK	L
COASTSIDE CARPET CLEANER	145 MAIN ST	SERVICE - PROFESSIONAL	L
M COFFEE	522 MAIN ST	RETAIL - FOOD & DRINK	L
NANTUCKET WHALE INN	779 MAIN ST		L
PASTORINO HAY & RANCH SUPPLY INC	921 MIRAMONTES ST	RETAIL - MISCELLANEOUS	L
HALF MOON BAY ROOFING	239 SAN MATEO RD	CONTRACTOR - SPEC TRADE	L
SUNRISE PAINTING INCORPORATED	525 SAN MATEO RD	CONTRACTOR - SPEC TRADE	L
R G MASONRY INC	11831 SAN MATEO RD	CONTRACTOR - SPEC TRADE	L
MCGREGER CONSTRUCTION	168 W POINT AVE	CONTRACTOR - GEN'L BLDG	L

APPENDIX A, FY 18/19 ANNUAL REPORT

C.4.b.iii. Potential Facilities List

City of Half Moon Bay
Last Revised: 10/31/2018

Business Name (DBA)	Business Address	Business Type	Latest Priority
MIRAMAR PLUMBING INC	123 MAIN ST	PLUMBING & HEATING	L
KELLY STREET LAUNDRY	650 KELLY	SERVICE - MISCELLANEOUS	L
FLORA FARM	340 PURISSIMA ST	SERVICE - LANDSCAPE & GARDENING SERVICES	L
FIREWOOD FARMS	551 SAN MATEO RD	RETAIL - MISCELLANEOUS	L
FABBRI HOME & GARDEN	501 SAN MATEO RD 5B	RETAIL - BLDG/GARDEN SUPPLIES	L
VERIZON WIRELESS HALF MOON BAY EAST	200 LEWIS FOSTER DR		L
VERIZON WIRELESS	1 MEYN		L
VERIZON WIRELESS HWY 1 MARTINS BEACH	300 TUNITAS BEACH		L
VERIZON WIRELESS HALF MOON BAY SOUTH	1 MIRAMONTES POINT RD		L
COASTSIDE LUTHERAN CHURCH	900 CABRILLO HWY	EXEMPT	L
CHEF LEE	80 CABRILLO HWY N U	RETAIL - FOOD & DRINK	L
ARINC HALF MOON BAY RECIEVER SITE	1 MEYN		L
ALL ANIMALS MOBILE VETERINARY	1600 CABRILLO HWY S	SERVICE - VETERINARY SERVICES	L
AT&T CALIFORNIA - PC083	525 KELLY		L
ROUND TABLE PIZZA/ OSTENBERG FAMILY RND TBL PIZZA	50 N CABRILLO HIGHWAY 3	RETAIL - FOOD & DRINK	M
PROPHET PROJECT, INC.	2351 CABRILLO HWY	AGRI PROD CROPS	M
FARMER JOHNS PUMPKIN FARM	850 CABRILLO HWY N	PUMPKIN PATCH	M
HALF MOON BAY WASABI CO	2351 CABRILLO HWY N	RETAIL - FOOD STORE	M
F & J KITCHEN INC/ ASIAN KINGS KITCHEN	3048 CABRILLO HWY N	RETAIL - FOOD & DRINK	M
SCHICKENBERG NURSERY	2351/2352 CABRILLO HWY N	WHLSLE - NONDURABLE GOODS	M
BRAZZLE BERRY	80 CABRILLO HWY N M	RETAIL - FOOD & DRINK	M
COASTSIDE INN	230 CABRILLO HWY S	SERVICE - LODGING	M
MULLINS BAR & GRILL	2450 CABRILLO HWY S STE 250	RETAIL - FOOD & DRINK	M
PLUM TREE COURT 1 2 3	642 JOHNSTON ST	SERVICE - LODGING	M
ANDREOTTI NURSERY	131 KELLY AVE	AGRICULTURAL SERVICES	M
OCEAN VIEW DRIVING RANGE	201 KELLY AVE	SERVICE - RECREATION	M
SHEET METAL DESIGN	514 KELLY ST	CONTRACTOR - SPEC TRADE	M
BOBS CAR WASH L L C	240 MAIN ST	SERVICE - MISCELLANEOUS	M
HALF MOON BAY FEED & FUEL	331 MAIN ST	RETAIL - MISCELLANEOUS	M
TOKENZ MAIN STREET	524 MAIN ST	RETAIL - FOOD & DRINK	M
CETRELLA	845 MAIN ST	RETAIL - FOOD & DRINK	M
GHERKINS SANDWICH SHOP	328 MAIN ST #101	RETAIL - FOOD & DRINK	M
A TO Z AUTOS	210 MAIN ST STE 2C	RETAIL - AUTO/GAS	M
SUSHI MAIN STREET	696 MILL ST	RETAIL - FOOD & DRINK	M
DAYLIGHT NURSERY/DAYLIGHT FARMS	925 MIRAMONTES ST	FARMERS MARKET	M
PALLADINO PAINTING INC	102 PRINCETON AVE O	CONTRACTOR - SPEC TRADE	M
ALENA JEAN	340 PURISSIMA ST	RETAIL - GIFT & GIFT BASKETS	M
PEETS COFFEE AND TEA	142 SAN MATEO RD	RETAIL - FOOD & DRINK	M
TACO BELL #30800	146 SAN MATEO RD	RETAIL - FOOD & DRINK	M
DAICHI SUSHI	150 SAN MATEO RD	RETAIL - FOOD STORE	M

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ENTERPRISE RENT A CAR	213 SAN MATEO RD 112	RETAIL - AUTO/GAS	M
H M B LUCKY 99 CENT & UP STORE INC	160 SAN MATEO ROAD	RETAIL - GENERAL MDSE	M
OSTENBERG FAMILY	50 HWY 1		M
FISH N FRITES	328 MAIN ST	FOOD	M
MC DONALDS HALF MOON BAY	100 CABRILLO HWY N	RETAIL - FOOD STORE	M
ROCKET FARMS INC	2651 CABRILLO HWY N	WHLSLE - NONDURABLE GOODS	M
VIA UNO L L C	2810 CABRILLO HWY N	RETAIL - FOOD & DRINK	M
THREE AMIGOS	270 CABRILLO HWY S	RETAIL - FOOD & DRINK	M
RICE TRUCKING SOIL FARM INC	2119 CABRILLO HWY S	RETAIL - BLDG/GARDEN SUPPLIES	M
ACTION TOWING AND ROAD SERVICE INC	183/185 HARVARD AVE	TRANSPORATION SERVICES	M
M V TRANSPORTATION INC	121 MAIN ST	SERVICE - MISCELLANEOUS	M
PAULOS AUTO CARE	129 MAIN ST	SERVICE - AUTO REPAIR	M
COAST TRANSMISSIONS	141 MAIN ST	SERVICE - AUTO REPAIR	M
HALF MOON BAY AUTO REPAIR INC	149 MAIN ST	SERVICE - AUTO REPAIR	M
COASTSIDE FIRE DISTRICT, HMB	1191 MAIN ST		M
PROFESSIONAL AUTO CARE	125 MAIN ST A	SERVICE - AUTO REPAIR	M
RITZ CARLTON HOTEL	1 MIRAMONTES POINT RD	SERVICE - LODGING	M
HALF MOON BAY GOLF LINKS	2 MIRAMONTES POINT RD	SERVICE - RECREATION	H
ANGELOS MUFFLER & AUTO REPAIR	332 PURISSIMA ST	SERVICE - AUTO REPAIR	M
GINOS AUTO BODY & PAINT	334 PURISSIMA ST	SERVICE - AUTO REPAIR	M
ORLANDOS PLACITA MARKET	500 PURISSIMA ST B	RETAIL - FOOD STORE	M
SPICE ME	500 PURISSIMA ST C	RETAIL - FOOD & DRINK	M
MERCADO MI FAMILIA INCORPORATED	182 SAN MATEO RD	RETAIL - FOOD STORE	M
HAPPY TACO TAQUERIA	184 SAN MATEO RD	RETAIL - FOOD & DRINK	M
AJS COFFEE INC	198 SAN MATEO RD	RETAIL - FOOD & DRINK	M
SAMS COFFEE SHOP	210 SAN MATEO RD	RETAIL - FOOD & DRINK	M
H M B LUCKY 99 CENT & UP STORE INC	160 SAN MATEO RD C	RETAIL - GENERAL MDSE	M
STEVEN MELO INC	450 WAVECREST RD	SERVICE - LANDSCAPE & GARDENING SERVICES	M
GIUSTI FARMS	2475 CABRILLO HWY		M
BOB'S CAR WASH	240 MAIN ST	SERVICE - MISC.	M
ZABALLA HOUSE	324 MAIN ST	SERVICE - LODGING	M
HALF MOON BAY INN	401 MAIN ST	SERVICE - LODGING	M
SEWER AUTHORITY MID COASTSIDE	1000 CABRILLO HWY N	EXEMPT	M
GREENHOUSE CLEANERS	80 CABRILLO HWY N A	SERVICE - BUSINESS	M
TAQUERIA LA MEXICANA	250 CABRILLO HWY S	RETAIL - FOOD & DRINK	M
BW HALF MOON BAY LODGE 325	2400 CABRILLO HWY S	HOTEL / MOTEL	M
ROMESCO BISTRO AND TAPAS	225 CABRILLO HWY S 102C	RETAIL - FOOD & DRINK	M
MERCADO GUADALAJARA	225 CABRILLO HWY S 106C	RETAIL - FOOD STORE	M
SPANISHTOWN MEXICAN REST	515 CHURCH ST	RETAIL - FOOD & DRINK	M
CAFE CAPISTRANO	523 CHURCH ST	RETAIL - FOOD & DRINK	M

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SMC SHERIFF HALF MOON BAY SUB STATION	535 KELLY		M
COASTSIDE STATE PARKS ASSOCIATION	95 KELLY AVE	EXEMPT	M
CABRILLO UNIFIED SCHOOL DISTRICT	498 KELLY AVE	EXEMPT	M
NUNES WATER TREATMENT PLANT	500 LEWIS FOSTER DR		M
SACRILEGE BREWERY AND KITCHEN	730 MAIN ST	SERVICE - LODGING	M
HASSETT HARDWARE	111 MAIN ST	RETAIL - MISCELLANEOUS	M
ANDREINI BROTHERS INC	151 MAIN ST	CONTRACTOR - (BASED OUTSIDE THE CITY)	M
SAN BENITO HOUSE	356 MAIN ST	SERVICE - LODGING	M
CUNHA GROCERY INC	448 MAIN ST	RETAIL - FOOD STORE	M
NANOS YOGURT SHACK	523 MAIN ST	RETAIL - FOOD & DRINK	M
MOONSIDE BAKERY & CAFE INC	604 MAIN ST	RETAIL - FOOD & DRINK	M
ARK GRILL	724 MAIN ST	RETAIL - FOOD & DRINK	M
BIG CREEK LUMBER CO	111/117 MAIN ST	RETAIL - MISCELLANEOUS	M
STOLOSKI & GONZALEZ INC	2750/2660 N CABRILLO HWY/HWY 1	FRUIT-VEGETABLE-XMAS TREES	M
HALF MOON BAY FISH MARKET INC	99 SAN MATEO RD	RETAIL - FOOD STORE	M
HALF MOON BAY SHELL SERVICE	201 SAN MATEO RD	RETAIL - AUTO/GAS	M
HILLTOP MARKET	251 SAN MATEO RD	RETAIL - FOOD STORE	M
CROWN CLEANERS	210 SAN MATEO RD 109	SERVICE - MISCELLANEOUS	M
JAMES FORD INC	100 SEYMOUR ST	RETAIL - AUTO/GAS	M
HALF MOON BAY ORCHIDS	37 FRENCHAMNS CREEK		M
CALIFORNIA EVERGREEN RANGE	550 HWY 92		M
COMFORT INN	2930 CABRILLO HWY N	SERVICE - LODGING	M
AMERICAS BEST VALUE INN & SUITES	3020 CABRILLO HWY N	GENERAL BUSINESS	M
WHITE ELEPHANT HMB	50 CABRILLO HWY N B-3	SERVICE - BUSINESS	M
SUBWAY #10252	80 CABRILLO HWY N STE V1	RETAIL - FOOD & DRINK	M
CAMERONS RESTAURANT & PUB	1410 CABRILLO HWY S	RETAIL - FOOD & DRINK	M
MCCAON NURSERY	1450 CABRILLO HWY S		M
CUNHA INTERMEDIATE SCHOOL	600 CHURCH ST	EXEMPT	M
BOBS FRESH VEGETABLES	2900 HWY 1		M
ANDREOTTI FAMILY FARM	329 KELLY AVE	AGRICULTURAL SERVICES	M
MORE FOR LESS	501 KELLY ST	RETAIL - AUTO/GAS	M
HALF MOON BAY HIGH SCHOOL	1 LEWIS FOSTER DR	EXEMPT	M
PG&E: HALF MOON BAY SUBSTATION	175 MAIN ST		M
TOM & PETES PRODUCE	270 MAIN ST	RETAIL - FOOD STORE	M
PASTA MOON INC	315 MAIN ST	RETAIL - FOOD STORE	M
GARDEN APOTHECARY	329 MAIN ST	RETAIL - MISCELLANEOUS	M
SUSHI MAIN STREET SAKE BAR	400 MAIN ST	RETAIL - FOOD & DRINK	M
ITS ITALIA PIZZERIA INC	401 MAIN ST	RETAIL - FOOD & DRINK	M
CHEZ SHEA	408 MAIN ST	RETAIL - FOOD & DRINK	M
THE HALF MOON BAY WINE & CHEESE COMPANY	421 MAIN ST	RETAIL - FOOD & DRINK	M

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HALF MOON BAY BAKERY	514 MAIN ST	WHLSLE - NONDURABLE GOODS	M
CAFE SOCIETY	522 MAIN ST	RETAIL - FOOD & DRINK	M
BARTERRA	643 MAIN ST	RETAIL - FOOD & DRINK	M
MILL ROSE BED & BREAKFAST	615 MILL ST	SERVICE - LODGING	M
HATCH ELEMENTARY SCHOOL	490 MIRAMONTES AVE	EXEMPT	M
MULLINS BAR & GRILL	2 MIRAMONTES POINT RD	RETAIL - FOOD & DRINK	M
PHILS H M B TIRE & AUTO CARE	422 PURISSIMA ST	SERVICE - AUTO REPAIR	M
HALF MOON BAY ALLIANCE	120 SAN MATEO RD	RETAIL - AUTO/GAS	M
CURLEY & REDS AUTOBODY & TOWING	215 SAN MATEO RD	SERVICE - AUTO REPAIR	M
THE OLIVE CRUSH	300 MAIN ST #2	RETAIL - FOOD	M
CALTRANS - HALF MOON BAY	2203 CABRILLO HWY		M
BOBA DUDE	80 CABRILLO HWY	RETAIL - RESTAURANTS	M
VIA UNO L L C	2810 CABRILLO HWY N	RETAIL - RESTAURANTS	M
CVS/PHARMACY #9216	60 CABRILLO HWY N	RETAIL - GENERAL MDSE	M
SAFEWAY STORES INC 308	70 CABRILLO HWY N	RETAIL - FOOD STORE	M
GRANOLA'S COFFEE HOUSE	116 CABRILLO HWY N	RETAIL - FOOD & DRINK	M
COASTSIDE FARM	1101 CABRILLO HWY N	OTHER BUSINESS	M
DEL MAR EQUESTRIAN CENTER	1820 CABRILLO HWY N	SERVICE - RECREATION	M
THE BARN	3068 CABRILLO HWY N	RETAIL - FOOD & DRINK	M
SUNSHINE DONUTS	80 CABRILLO HWY N P	RETAIL - FOOD STORE	M
HALF MOON BAY JOES	2380 CABRILLO HWY S	RETAIL - FOOD & DRINK	M
PRINCETON MACHINE SHOP	178 CORNELL AVE	SERVICE - MISCELLANEOUS	M
BRANSCOMB FARMS L L C	780 FRENCHMANS CREEK RD	SERVICE - VETERINARY SERVICES	M
PACIFIC BELL TELEPHONE COMPANY/AT & T -PC083	525 KELLY ST	COMMUNICATION	M
D R W MOTORSPORT	143 MAIN ST	SERVICE - AUTO REPAIR	M
RAMANS COFFEE AND CHAI	101 MAIN ST A	RETAIL - FOOD & DRINK	M
AZEVEDO FEED COMPANY	1815 MIRAMONTES POINT		M
THE FISHERMANS TAVERNA	99 SAN MATEO RD	RETAIL - FOOD & DRINK	M
NEW LEAF COMMUNITY MARKETS INC	150 SAN MATEO RD	RETAIL - FOOD STORE	M
RITE AID 5885	170 SAN MATEO RD	RETAIL - GENERAL MDSE	M
7 ELEVEN	196 SAN MATEO RD	RETAIL - FOOD STORE	M
DUNKIN DONUTS	118 SAN MATEO ROAD	RETAIL - RESTAURANTS	M
SPANGLERS MARKET	401 AVENUE ALHAMBRA		M
STARBUCKS COFFEE	80 HWY 1		M
PRINCETON SEAFOOD CO	9 JOHNSON PIER		M
MAIN STREET SAKI BAR	400 MAIN ST	FOOD	M
HALF MOON BAY COFFEE COMPANY	20 A STONE PINE		M