

# **Stormwater Requirements Checklist**

Municipal Regional Stormwater Permit (MRP 2.0) Stormwater Controls for Development Projects

### City of Berkeley Public Works Dept. Engineering Division



## I. Applicability of C.3 and C.6 Stormwater Requirements

A. Ent	er Project Data (For "C.3	Regulated Projects," data w	vill be reported in the	e municipality's storn	nwater Annual Rep	ort.)		
I.A.1	Project Name:							
I.A.2	Project Address (include cross street):							
I.A.3	Project APN:		I.A	.4 Project Watershed	l¹:			
I.A.5	Applicant Name:			I.A.6 Date Submitte	d:			
I.A.7	Applicant Address:							
I.A.8	Applicant Phone:		I.A.9 App	licant Email Address	:			
A.10	Development type: (check all that apply)	☐ 'Redevelopment' as impervious surface of						
	Project Description <sup>4</sup> :	☐ 'Special land use cat outlets, (3) restauran	tegories' as defined its <sup>3</sup> , (4) uncovered p	by MRP: (1) auto se parking area (stand-a	rvice facilities <sup>3</sup> , (2) llone or part of a la	retail gasoline rger project)		
.A.11	(Also note any past or future phases of the project.)							
.A.12	? Total Area of Site:	acres		I.A.13 Slope on Sit	e:	9		
		ated Project" per MRP Proversions surface4 created and	d/or replaced by the		mount is 5,000 sq	.ft. or more):		
		Table of Impervi	ous and Pervious					
Т	ype of Impervious Surfac	ee	Pre-Project Impervious Surface (sq.ft.)	b Existing Impervious Surface to be Replaced <sup>7</sup> (sq.ft.)	C  New Impervious Surface to be Created <sup>7</sup> (sq.ft.)	Post-project pervious surface (sq.ft.)		
	oof area(s) – excluding ang egetated ("green roof")	y portion of the roof that is						
	npervious⁵ sidewalks, patic							
lm	npervious <sup>5</sup> uncovered park	ing <sup>6</sup>				N/A		
St	reets (public)							
St	reets (private)							
		Totals:						
1	Area of Existing Impervious	s Surface to remain in place			N/A			
	Total New Impe	ervious Surface (sum of totals	for columns b and c):					

- Watershed is defined by the maps from the Alameda County Flood Control District at <a href="http://acfloodcontrol.org/resources/explore-watersheds">http://acfloodcontrol.org/resources/explore-watersheds</a>
- <sup>2</sup> Roadway projects that replace existing impervious surface are subject to C.3 requirements only if one or more lanes of travel are added.
- Standard Industrial Classification (SIC) codes are in Section 2.3 of the C.3 Technical Guidance (download at <a href="www.cleanwaterprogram.org">www.cleanwaterprogram.org</a>)
- Project description examples: 5-story office building, industrial warehouse, residential with five 4-story buildings for 200 condominiums, etc.
- Project description examples: 5-story office building, industrial warehouse, residential with live 4-story buildings for 200 condominums, etc.
   Per the MRP, pavement that meets the following definition of pervious pavement is NOT an impervious surface. Pervious pavement is defined as pavement that stores and infiltrates rainfall at a rate equal to immediately surrounding unpaved, landscaped areas, or that stores and infiltrates the rainfall runoff volume described in Provision C.3.d.
- <sup>6</sup> Uncovered parking includes top level of a parking structure.
- 7 "Replace" means to install new impervious surface where existing impervious surface is removed. "Create" means to install new impervious surface where there is currently no impervious surface.

	he project a "C.3 Regulated Project" per MRP 2.0 Provision C.3.b? (continued)	Yes	No	N
I.B.2	In Item I.B.1, does the Total New Impervious Surface equal 10,000 sq.ft. or more? If YES, skip Item I.B.5 and check "Yes." If NO, continue to Item I.B.3.			[
I.B.3	Does the Item I.B.1 Total New Impervious Surface equal 5,000 sq.ft. or more, but less than 10,0 sq.ft? If YES, continue to Item I.B.4. If NO, skip to Item I.B.5 and check "No."	000 🗆		[
I.B.4	Is the project a "Special Land Use Category" per Item I.A.10? For uncovered parking, check YE only if there is 5,000 sq.ft or more uncovered parking. If NO, go to Item I.B.5 and check "No." I. YES, go to Item I.B.5 and check "Yes."			[
I.B.5	Is the project a C.3 Regulated Project? If YES, go to Item I.B.6; if NO, continue to Item I.C.			[
I.B.6	Does the total amount of Replaced impervious surface equal 50 percent or more of the Pre-Proj Impervious Surface? If YES, stormwater treatment requirements apply to the whole site; if NO, these requirements apply only to the impervious surface created and/or replaced.			[
I.B.7	Is the project installing a total of 3,000 sq.ft. or more (excluding private-use patios in single family homes, townhomes, or condominiums) of new pervious pavement systems? (Pervious pavement systems include pervious concrete, pervious asphalt, pervious pavers and grid pavers etc. and described in the C3 Technical Guidance at <a href="https://www.cleanwaterprogram.org">www.cleanwaterprogram.org</a> ) If YES, stormwater treatment system inspection requirements (C.3.h) apply; (Municipal staff – add this site to your I of sites needing a final inspection at the end of construction and on-going O&M inspections.) If I inspection requirements only apply if there are other treatment systems installed on the project.	nt are ist NO,		[
I.C. Pro	jects that are NOT C.3 Regulated Projects			
NOT	answered NO to Item I.B.5, or the project creates/replaces less than 5,000 sq. ft. of impervious sa C.3 Regulated Project, and stormwater treatment is not required, BUT the municipality may det ols and site design measures are required. Skip to Section II.			ct is
I.D. Pro	jects that ARE C.3 Regulated Projects			
If you	answered YES to Item I.B.5, then the project is a C.3 Regulated Project. The project must include			
meas also l	sures and source controls AND hydraulically-sized stormwater treatment measures. Hydromodific be required; refer to Section II to make this determination. If final discretionary approval was gran EMBER 1, 2011, Low Impact Development (LID) requirements apply, except for "Special Projects"	ation manage ted on or afte	ement m r	
meas also l <b>DEC</b> I	sures and source controls AND hydraulically-sized stormwater treatment measures. Hydromodific be required; refer to Section II to make this determination. If final discretionary approval was gran EMBER 1, 2011, Low Impact Development (LID) requirements apply, except for "Special Projects Intify C.6 Construction-Phase Stormwater Requirements	cation manage ited on or afte ." See Sectio	ement m r	
meas also l <b>DEC</b> I	sures and source controls AND hydraulically-sized stormwater treatment measures. Hydromodific be required; refer to Section II to make this determination. If final discretionary approval was gran EMBER 1, 2011, Low Impact Development (LID) requirements apply, except for "Special Projects Intify C.6 Construction-Phase Stormwater Requirements  Yes	ation manage ted on or afte	ement m r	
meas also l DECI	Rures and source controls AND hydraulically-sized stormwater treatment measures. Hydromodification required; refer to Section II to make this determination. If final discretionary approval was grant EMBER 1, 2011, Low Impact Development (LID) requirements apply, except for "Special Projects Intify C.6 Construction-Phase Stormwater Requirements  Yes  Does the project disturb 1.0 acre (43,560 sq.ft.) or more of land? (See Item I.A.14). If Yes, obtain coverage under the state's Construction General Permit at https://smarts.waterboards.ca.gov/smarts/faces/SwSmartsLogin.jsp. Submit to the municipality a copy of your Notice of Intent and Storm Water Pollution Prevention Plan (SWPPP) before a grading or building permit is issued.  Is the site a "High Priority Site" that disturbs less than 1.0 acre (43,560 sq.ft.) of land? (Municipal staff will make the final determination.)  "High Priority Sites" are sites having any of the following criteria:  that require a grading permit,  are adjacent to a creek,  or are otherwise high priority for stormwater protection during	eation manage ted on or afte " See Section	ement m r	
meas also I DECI I.E. Ide	Rures and source controls AND hydraulically-sized stormwater treatment measures. Hydromodification required; refer to Section II to make this determination. If final discretionary approval was grant EMBER 1, 2011, Low Impact Development (LID) requirements apply, except for "Special Projects Intify C.6 Construction-Phase Stormwater Requirements  Yes  Does the project disturb 1.0 acre (43,560 sq.ft.) or more of land? (See Item I.A.14). If Yes, obtain coverage under the state's Construction General Permit at https://smarts.waterboards.ca.gov/smarts/faces/SwSmartsLogin.jsp. Submit to the municipality a copy of your Notice of Intent and Storm Water Pollution Prevention Plan (SWPPP) before a grading or building permit is issued.  Is the site a "High Priority Site" that disturbs less than 1.0 acre (43,560 sq.ft.) of land? (Municipal staff will make the final determination.)  "High Priority Sites" are sites having any of the following criteria:  that require a grading permit,  are adjacent to a creek,  or are otherwise high priority for stormwater protection during construction (see MRP 2.0 Provision C.6.e.ii.(2)(c))	eation manage ted on or afte " See Section	ement m r	

- NOTE TO APPLICANT: All projects require appropriate stormwater best management practices (BMPs) during construction. Refer to the Section II to identify appropriate construction BMPs.
- NOTE TO MUNICIPAL STAFF: If the answer is "Yes" to I.E.1, I.E.2, OR I.E.3, refer this project to construction site inspection staff to be added to their list of projects that require stormwater inspections at least monthly during the wet season (October 1 through April 30) and other times of the year as appropriate.

## II. Implementation of Stormwater Requirements

**II.A.** Complete the appropriate sections for the project. For non-C.3 Regulated Projects, Sections II.B, II.C, and II.D apply. For C.3 Regulated Projects, all sections of Section II apply.

### II.B. Select Appropriate Site Design Measures

- Required for C.3 Regulated Projects.
- > Starting December 1, 2012, projects that create and/or replace 2,500 10,000 sq.ft. of impervious surface, and standalone single family homes that create/replace 2,500 sq.ft. or more of impervious surface, must include one of Site Design Measures a through f.8
- > All other projects are encouraged to implement site design measures, which may be required at municipality discretion.
- Consult with municipal staff about requirements for your project.
- II.B.1 Is the site design measure included in the project plans?

Yes	No	Plan Sheet No.
		a. Direct roof runoff into cisterns or rain barrels and use rainwater for irrigation or other non-potable use.
		b. Direct roof runoff onto vegetated areas.
		c. Direct runoff from sidewalks, walkways, and/or patios onto vegetated areas.
		d. Direct runoff from driveways and/or uncovered parking lots onto vegetated areas.
		e. Construct sidewalks, walkways, and/or patios with pervious surfaces. Use the specifications in the C3 Technical Guidance (Version 4.1) or for small projects see the BASMAA Pervious Paving Factsheet. For these documents and others go to <a href="https://www.cleanwaterprogram.org">www.cleanwaterprogram.org</a> and click on "Resources."
		f. Construct bike lanes, driveways, and/or uncovered parking lots with pervious surfaces. Use the specifications in the C3 Technical Guidance (Version 4.1) or for small projects see the BASMAA Pervious Paving Factsheet. For these documents and others go to the program website at: <a href="https://www.cleanwaterprogram.org">www.cleanwaterprogram.org</a> and click on "Resources."
		g. Minimize land disturbance and impervious surface (especially parking lots).
		h. Maximize permeability by clustering development and preserving open space.
		i. Use micro-detention, including distributed landscape-based detention.
		<ul> <li>j. Protect sensitive areas, including wetland and riparian areas, and minimize changes to the natural topography.</li> </ul>
		k. Self-treating area (see Section 4.1 of the C.3 Technical Guidance)
		I. Self-retaining area (see Section 4.2 of the C.3 Technical Guidance)
		m. Plant or preserve interceptor trees (Section 4.5, C.3 Technical Guidance)

<sup>&</sup>lt;sup>8</sup> See MRP Provision C.3.a.i(6) for non-C.3 Regulated Projects, C.3.c.i(2)(a) for Regulated Projects, C.3.i for projects that create/replace 2,500 to 10,000 sq.ft. of impervious surface and stand-alone single family homes that create/replace 2,500 sq.ft. or more of impervious surface.

January 14, 2016

II.C. Select appropriate source controls (Applies to C.3 Regulated Projects; encouraged for other projects. Consult municipal staff.9)

Are these features in project?		Features that require source control measures	Source control measures (Refer to Local Source Control List for detailed requirements)		Is source control measure included in project plans?		
Yes	No				No	Plan Sheet No.	
		Storm Drain	Mark on-site inlets with the words "No Dumping! Flows to Bay" or equivalent.				
		Floor Drains	Plumb interior floor drains to sanitary sewer <sup>10</sup> [or prohibit].				
		Parking garage	Plumb interior parking garage floor drains to sanitary sewer.9				
		Landscaping	<ul> <li>Retain existing vegetation as practicable.</li> <li>Select diverse species appropriate to the site. Include plants that are pest-and/or disease-resistant, drought-tolerant, and/or attract beneficial insects.</li> <li>Minimize use of pesticides and quick-release fertilizers.</li> <li>Use efficient irrigation system; design to minimize runoff.</li> </ul>				
		Pool/Spa/Fountain	Provide connection to the sanitary sewer to facilitate draining.9				
		Food Service Equipment (non- residential)	<ul> <li>Provide sink or other area for equipment cleaning, which is:</li> <li>Connected to a grease interceptor prior to sanitary sewer discharge.<sup>9</sup></li> <li>Large enough for the largest mat or piece of equipment to be cleaned.</li> <li>Indoors or in an outdoor roofed area designed to prevent stormwater run-on and run-off, and signed to require equipment washing in this area.</li> </ul>				
		Refuse Areas	<ul> <li>Provide a roofed and enclosed area for dumpsters, recycling containers, etc., designed to prevent stormwater run-on and runoff.</li> <li>Connect any drains in or beneath dumpsters, compactors, and tallow bin areas serving food service facilities to the sanitary sewer.<sup>9</sup></li> </ul>				
		Outdoor Process Activities 11	Perform process activities either indoors or in roofed outdoor area, designed to prevent stormwater run-on and runoff, and to drain to the sanitary sewer. <sup>9</sup>				
		Outdoor Equipment/ Materials Storage	<ul> <li>Cover the area or design to avoid pollutant contact with stormwater runoff.</li> <li>Locate area only on paved and contained areas.</li> <li>Roof storage areas that will contain non-hazardous liquids, drain to sanitary sewer<sup>9</sup>, and contain by berms or similar.</li> </ul>				
		Vehicle/ Equipment Cleaning	<ul> <li>Roofed, pave and berm wash area to prevent stormwater run-on and runoff, plumb to the sanitary sewer<sup>9</sup>, and sign as a designated wash area.</li> <li>Commercial car wash facilities shall discharge to the sanitary sewer.<sup>9</sup></li> </ul>				
		Vehicle/ Equipment Repair and Maintenance	<ul> <li>Designate repair/maintenance area indoors, or an outdoors area designed to prevent stormwater run-on and runoff and provide secondary containment. Do not install drains in the secondary containment areas.</li> <li>No floor drains unless pretreated prior to discharge to the sanitary sewer. 9</li> <li>Connect containers or sinks used for parts cleaning to the sanitary sewer. 9</li> </ul>				
		Fuel Dispensing Areas	<ul> <li>Fueling areas shall have impermeable surface that is a) minimally graded to prevent ponding and b) separated from the rest of the site by a grade break.</li> <li>Canopy shall extend at least 10 ft in each direction from each pump and drain away from fueling area.</li> </ul>				
		Loading Docks	<ul> <li>Cover and/or grade to minimize run-on to and runoff from the loading area.</li> <li>Position downspouts to direct stormwater away from the loading area.</li> <li>Drain water from loading dock areas to the sanitary sewer.<sup>9</sup></li> <li>Install door skirts between the trailers and the building.</li> </ul>				
		Fire Sprinklers	Design for discharge of fire sprinkler test water to landscape or sanitary sewer. <sup>9</sup>				
		Miscellaneous Drain or Wash Water	<ul> <li>Drain condensate of air conditioning units to landscaping. Large air conditioning units may connect to the sanitary sewer.<sup>9</sup></li> <li>Roof drains shall drain to unpaved area where practicable.</li> <li>Drain boiler drain lines, roof top equipment, all washwater to sanitary sewer.<sup>9</sup></li> </ul>				
		Architectural Copper	<ul> <li>Discharge rinse water to sanitary sewer<sup>9</sup>, or collect and dispose properly offsite. See flyer "Requirements for Architectural Copper."</li> </ul>				

 <sup>&</sup>lt;sup>9</sup> See MRP Provision C.3.a.i(7) for non-C.3 Regulated Projects and Provision C.3.c.i(1) for C.3 Regulated Projects.
 <sup>10</sup> Any connection to the sanitary sewer system is subject to sanitary district approval.
 <sup>11</sup> Businesses that may have outdoor process activities/equipment include machine shops, auto repair, industries with pretreatment facilities.

II.D. Implement Construction Best Management Practices (BMPs) (Applies to all projects – see Provision C.6 for more details.)

Yes	No	Best Management Practice (BMP)
		Attach the municipality's construction BMP plan sheet to project plans and require contractor to implement the applicable BMPs on the plan sheet.
		Temporary erosion controls to stabilize all denuded areas until permanent erosion controls are established.
		Delineate with field markers clearing limits, easements, setbacks, sensitive or critical areas, buffer zones, trees, and drainage courses.
		Provide notes, specifications, or attachments describing the following:
		• Construction, operation and maintenance of erosion and sediment controls, include inspection frequency;
		<ul> <li>Methods and schedule for grading, excavation, filling, clearing of vegetation, and storage and disposal of excavated or cleared material;</li> </ul>
		• Specifications for vegetative cover & mulch, include methods and schedules for planting and fertilization;
		<ul> <li>Provisions for temporary and/or permanent irrigation.</li> </ul>
		Perform clearing and earth moving activities only during dry weather.
		Use sediment controls or filtration to remove sediment when dewatering and obtain all necessary permits.
		Protect all storm drain inlets in vicinity of site using sediment controls such as berms, fiber rolls, or filters.
		Trap sediment on-site, using BMPs such as sediment basins or traps, earthen dikes or berms, silt fences, check dams, soil blankets or mats, covers for soil stock piles, etc.
		Divert on-site runoff around exposed areas; divert off-site runoff around the site (e.g., swales and dikes).
		Protect adjacent properties and undisturbed areas from construction impacts using vegetative buffer strips, sediment barriers or filters, dikes, mulching, or other measures as appropriate.
		Limit construction access routes and stabilize designated access points.
		No cleaning, fueling, or maintaining vehicles on-site, except in a designated area where washwater is contained and treated.
		Store, handle, and dispose of construction materials/wastes properly to prevent contact with stormwater.
		Contractor shall train and provide instruction to all employees/subcontractors re: construction BMPs.
		Control and prevent the discharge of all potential pollutants, including pavement cutting wastes, paints, concrete, petroleum products, chemicals, washwater or sediments, rinse water from architectural copper, and non-stormwater discharges to storm drains and watercourses.

PROJECTS THAT ARE <u>NOT</u> C.3 REGULATED PROJECTS STOP HERE!

### II.E. Biotreatment, Infiltration and Rain Water Harvesting and Use.

MRP 2.0 no longer requires that a feasibility analysis of infilration and rainwater harvesting be conducted. However, applicants using biotreatment are encouraged to maximize infiltration of stormwater if site conditions allow. If feasible and desired, infiltration and rainwater harvesting may be cost effective solutions depending on the project.

#### II.F. Stormwater Treatment Measures (Applies to C.3 Regulated Projects)

II.F.1 Check the applicable box and indicate the treatment measures to be included in the project.

Yes	No	
		Is the project a Special Project? (See Appendix K of the C.3 Technical Guidance for criteria.)
		If Yes, complete the Special Projects Worksheet (go to the program website at: <a href="www.cleanwaterprogram.org">www.cleanwaterprogram.org</a> and click on "Resources") and consult with municipal staff about the need to prepare a discussion of the feasibility and infeasibility of 100% LID treatment. Indicate the type of non-LID treatment to be used, the hydraulic sizing method*, and percentage of the amount of runoff specified in Provision C.3.d that is treated:
		Non-LID Treatment Hydraulic sizing method* % of C.3.d amount of runoff treated
		☐ Media filter
		☐ Tree well filter
		Is the project using biotreatment to treat the C.3.d amount of runoff?  For more information on infiltration and rainwater harvesting and use of stormwater, refer to the C3 Technical Guidance downloadable at the program website: <a href="https://www.cleanwaterprogram.org">www.cleanwaterprogram.org</a> If Yes, indicate the biotreatment measures to be used, and the hydraulic sizing method:
		Biotreatment Measures Hydraulic sizing method*
		☐ Bioretention area
		☐ Flow-through planter
_		☐ Other (specify):
		Is the project using infiltration or rainwater harvesting/use?
		For more information on infiltration and rainwater harvesting and use of stormwater, refer to the C3 Technical Guidance downloadable at the program website: <a href="https://www.cleanwaterprogram.org">www.cleanwaterprogram.org</a>
		If Yes, indicate the measures to be used, and hydraulic sizing method:
		LID Treatment Measure (non-biotreatment) Hydraulic sizing method*
		☐ Rainwater harvesting and use
		☐ Bioinfiltration <sup>12</sup>
		☐ Infiltration trench
		☐ Other (specify):

\*Hydraulic Sizing Method: Indicate which of the following Provision C.3.d.i hydraulic sizing methods were used:

- 1. Volume based approaches Refer to Provision C.3.d.i.(1):
  - 1(a) Urban Runoff Quality Management approach, or
  - 1(b) 80% capture approach (recommended volume-based approach).
- 2. Flow-based approaches Refer to Provision C.3.d.i.(2):
  - 2(a) 10% of 50-year peak flow approach,
  - 2(b) Percentile rainfall intensity approach, or
  - 2(c) 0.2-Inch-per-hour intensity approach (this is recommended flow-based approach AND the basis for the 4% rule of thumb described in Section 5.1 of the C.3 Technical Guidance).
- 3. <u>Combination hydraulic sizing approach</u> -- Refer to Provision C.3.d.i.(3):

  If a combination flow and volume design basis was used, indicate which flow-based <u>and</u> volume-based criteria were used.

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<sup>&</sup>lt;sup>12</sup> See Section 6.1 of the C.3 Technical Guidance for conditions in which bioretention areas provide bioinfiltration.

II.G. Is the	e project a Hydromodification Manaç	gement <sup>13</sup> (HM) Project? (Comp	plete this section for C.3 Regulated Projects)
II.G.1	Yes. Continue to Item II.G.2.	, ,	of impervious surface? (Refer to Item I.B.1.)
		•	Skip to Item II.G.6 and check "No."
II.G.2	Is the total impervious area increased  Yes. Continue to Item II.G.3.	over the pre-project condition?	(Refer to Item I.B.1.)
	☐ No. The project is NOT required	d to incorporate HM measures. S	Skip to Item II.G.6 and check "No."
II.G.3	to HM requirements? (See HMP Sus	ceptibility Map in Appendix I of t	treme eastern portion of the county that is not subject the C.3 Technical Guidance.) ating project location. Skip to II.G.6 and check "No".
II.G.4	•	•	shed, as shown on the HMP Susceptibility Map? ng project location. Skip to II.G.6 and check "Yes."
II.G.5		t flows only through a hardened	an engineer or qualified environmental professional channel or enclosed pipe along its entire length
	Yes. Project is exempt from HM check "No."	requirements. Attach signed sta	atement by qualified professional. Go to II.G.6 and
	☐ No. Project is subject to HM req	uirements. Attach map indicatin	g project location. Go to Item G.6 and check "Yes."
II.G.6	Is the project a Hydromodification Mar	nagement Project?	
	☐ Yes. The project is subject to Hi	M requirements in Provision C.3.	g of the Municipal Regional Stormwater Permit.
	☐ No. The project is EXEMPT from	n HM requirements.	
	HM requirements are impractica MRP Attachment B.)	ble. (Attach documentation nee	eded to comply with the impracticability provision in
	designed such that post-project st durations. The Bay Area Hydrolo	ormwater discharge rates and d gy Model (BAHM) has been dev	project flow duration stormwater control measures urations match pre-project discharge rates and reloped to size flow duration controls. See er 7 of the C.3 Technical Guidance.
II.H Storn	nwater Treatment Measure and/HM C	Control Owner or Operator's In	iformation:
	Name:	·	
	Address:		
		and receive inspection within 4	5 days of installation of treatment measures and/or
Name	e of applicant completing the form:		
	Signatu	e:	Date:

<sup>&</sup>lt;sup>13</sup> Hydromodification is the modification of a stream's hydrograph, caused in general by increases in flows and durations that result when land is developed (made more impervious). The effects of hydromodification include, but are not limited to, increased bed and bank erosion, loss of habitat, increased sediment transport and deposition, and increased flooding. Hydromodification management control measures are designed to reduce these effects.

Soils report or other site-specific document showing soil types at all parts of site   If project uses the Bay Area Hydrology Model (BAHM), a list of model inputs.   If project uses custom modeling, a summary of the modeling calculations with corresponding graph showing curve matching (existing, post-project, and post-project with HM controls curves), goodness of lift, and (allowable) low flow rate.   If project uses the Impracticability Provision, a listing of all applicable costs and a brief description of the alternative HM project (name, location, date of start up, entity responsible for maintenance).   If the project uses alternatives to the default BAHM approach or settings, a written description and rationale.   **Municipal staff: Refer to the "Flow Duration Control Review Worksheet for HM Submittals" to review the documentation submitted for HM compliance.   **Il.4 Annual Operations and Maintenance (O&M) Submittals:   **For C.3 Regulated Projects and Hydromodification Management Projects, indicate the dates on which the Applicant submitt annual reports for project O&M:   **Il.5 Comments:   **Il.5 Comments:   **Il.6 Notes:   **Section I Notes:   **Section I Notes:   **Section I I Notes:   **Section I I Notes:   **Section I II Notes:   **Section I I I Notes:   **Section I I I Notes:   **Section I I I I I I I I I I I I I I I I I I I	111.	FUL	Comp	лено	ni by Mullicipal Stall
1.2. Confirm Operations and Maintenance (O&M) Submittal:    The following questions apply to C.3 Regulated Projects and Hydromodification Management Projects.   Yes   No   N/A	l.1				
The following questions apply to C.3 Regulated Projects and Hydromodification Management Projects.    III.2.a Was maintenance plan submitted?		□Y	'es	□No	Name of Reviewer
The following questions apply to C.3 Regulated Projects and Hydromodification Management Projects.    III.2.a Was maintenance plan submitted?					
III.2.a   Was maintenance plan submitted?	I.2.	Confir	m Opera	ations a	and Maintenance (O&M) Submittal:
III.2.a Was maintenance plan approved?  III.2.b Was maintenance plan approved?  III.2.c Was maintenance agreement submitted? (Date executed:	7	The follo	wing que	estions a	apply to C.3 Regulated Projects and Hydromodification Management Projects.
III.2.b Was maintenance plan approved?  III.2.c Was maintenance agreement submitted? (Date executed:					Yes No N/A
III.2.c Was maintenance agreement submitted? (Date executed:					
National Controls (if required)					
Are the applicable items for HM compliance included in the plan submittal?  Yes No NA Documentation for HM Compliance    Site plans with pre- and post-project impervious surface areas, surface flow directions of entire site, locations of flow duration controls and site design measures per HM site design requirement site, locations of flow duration controls and site design measures per HM site design requirement site, specific document showing soil types at all parts of site    If project uses the Bay Area Hydrology Model (BAHM), a list of model inputs.    If project uses custom modeling, a summary of the modeling calculations with corresponding graph showing curve matching (existing, post-project, and post-project with HM controls curves), goodness of fit, and (allowable) low flow trate.    If project uses the Impracticability Provision, a listing of all applicable costs and a brief description of the alternative HM project (name, location, date of start up, entity responsible for maintenance).    Municipal staff: Refer to the "Flow Duration Control Review Worksheet for HM Submittals" to review the documentation submitted for HM compliance.    Annual Operations and Maintenance (O&M) Submittals:  For C.3 Regulated Projects and Hydromodification Management Projects, indicate the dates on which the Applicant submitt annual reports for project O&M:    Section   Notes:   Section   N	- 11				
Are the applicable items for HM compliance included in the plan submittal?  Yes No NA Documentation for HM Compliance    Site plans with pre- and post-project impervious surface areas, surface flow directions of entire site, locations of flow duration controls and site design measures per HM site design requirement     Soils report or other site-specific document showing soil types at all parts of site     If project uses the Bay Area Hydrology Model (BAHM), a list of model inputs.     If project uses the Bay Area Hydrology Model (BAHM), a list of model inputs.     If project uses the myracticability Provision, a listing of all applicable costs and a brief description of the alternative HM project (name, location, date of start up, entity responsible for maintenance).     If the project uses alternatives to the default BAHM approach or settings, a written description and rationale.     Municipal staff: Refer to the "Flow Duration Control Review Worksheet for HM Submittals" to review the documentation submitted for HM compliance.     Annual Operations and Maintenance (O&M) Submittals:     For C.3 Regulated Projects and Hydromodification Management Projects, indicate the dates on which the Applicant submitted annual reports for project O&M:     Section   Notes:     Section   Notes:		>	<ul><li>Attach</li></ul>	the ex	ecuted maintenance agreement as an appendix to this checklist.
Yes No NA Documentation for HM Compliance	I.3	Incorpo	rate HM	Contro	ols (if required)
Site plans with pre- and post-project impervious surface areas, surface flow directions of entire site, locations of flow duration controls and site design measures per HM site design requirement site, locations of flow duration controls and site design measures per HM site design requirement site, locations of flow duration controls and site design measures per HM site design requirement site, locations of flow duration controls and site design measures per HM site design requirement site, location year and post-project site of site		Are	the app	olicable	items for HM compliance included in the plan submittal?
Site plans with pre- and post-project impervious surface areas, surface flow directions of entire site, locations of flow duration controls and site design measures per HM site design requirement site, locations of flow duration controls and site design measures per HM site design requirement site, locations of flow duration controls and site design measures per HM site design requirement site, locations of flow duration controls and site design measures per HM site design requirement site, location year and post-project site of site		Yes	No	NA	Documentation for HM Compliance
If project uses the Bay Area Hydrology Model (BAHM), a list of model inputs.   If project uses custom modeling, a summary of the modeling calculations with corresponding graph showing curve matching (existing, post-project, and post-project with HM controls curves), goodness of fit, and (allowable) low flow rate.   If project uses the Impracticability Provision, a listing of all applicable costs and a brief description of the alternative HM project (name, location, date of start up, entity responsible for maintenance).   If the project uses alternatives to the default BAHM approach or settings, a written description and rationale.     Municipal staff: Refer to the "Flow Duration Control Review Worksheet for HM Submittals" to review the documentation submitted for HM compliance.					-
If project uses custom modeling, a summary of the modeling calculations with corresponding graph showing curve matching (existing, post-project, and post-project with HM controls curves), goodness of fit, and (allowable) low flow rate.					Soils report or other site-specific document showing soil types at all parts of site
					If project uses the Bay Area Hydrology Model (BAHM), a list of model inputs.
of the alternative HM project (name, location, date of start up, entity responsible for maintenance).    If the project uses alternatives to the default BAHM approach or settings, a written description and rationale.    Municipal staff: Refer to the "Flow Duration Control Review Worksheet for HM Submittals" to review the documentation submitted for HM compliance.    II.4 Annual Operations and Maintenance (O&M) Submittals:   For C.3 Regulated Projects and Hydromodification Management Projects, indicate the dates on which the Applicant submittanual reports for project O&M:    II.5 Comments:   Section   Notes:   Section   Notes:   Section   Notes:   Section   Notes:   Section   II Notes:   Section					If project uses custom modeling, a summary of the modeling calculations with corresponding graph showing curve matching (existing, post-project, and post-project with HM controls curves),
and rationale.					
documentation submitted for HM compliance.  II.4 Annual Operations and Maintenance (O&M) Submittals:  For C.3 Regulated Projects and Hydromodification Management Projects, indicate the dates on which the Applicant submitted annual reports for project O&M:					
II.4 Annual Operations and Maintenance (O&M) Submittals:  For C.3 Regulated Projects and Hydromodification Management Projects, indicate the dates on which the Applicant submittenanual reports for project O&M:  II.5 Comments:  Section I Notes:  Section II Notes:  Section III Notes:					
For C.3 Regulated Projects and Hydromodification Management Projects, indicate the dates on which the Applicant submitted annual reports for project O&M:    II.5 Comments:			do	cument	ation submitted for HM compliance.
annual reports for project O&M:  II.5 Comments:  III.6 Notes:  Section I Notes:  Section II Notes:  Section III Notes:	I.4 <i>A</i>	Annual (	Operatio	ns and	Maintenance (O&M) Submittals:
II.6 Notes:  Section I Notes:  Section III Notes:  Section III Notes:					
Section I Notes:  Section II Notes:  Section III Notes:	I.5 C	Commer	nts:		
Section I Notes:  Section II Notes:  Section III Notes:	_				
Section I Notes:  Section II Notes:  Section III Notes:	_				
Section I Notes:  Section II Notes:  Section III Notes:	_				
Section I Notes:  Section II Notes:  Section III Notes:	161	lotes:			
Section II Notes:Section III Notes:	-		Notes:		
Section III Notes:					
I.7 Project Close-Out:			N		

III.7.a

Were final Conditions of Approval met?

	Sto	mwater Re	equirem	ents Checklist		
III.7.b	Was initial inspection of the completed treatment/HM measure(s) conducted? (Date of inspection:)					
III.7.c	Was maintenance plan submitted? (Date executed:)					
III.7.d	Was project information provided to staff responsible for O&M verification inspections? (Date provided to inspection staff:)					
Name	of staff confirming project is closed out:					
	Signature:	ate:				
Name of O&M staff receiving information:						
	Signature: [	ate:				
	ces ndix A: O&M Agreement ndix B: O&M Annual Report Form					