

## **E.11.f. Storm Drain System Assessment and Prioritization Approach**

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### **PHASE II PERMIT REQUIREMENT**

*Within the second year of the effective date of the permit, the Permittee shall develop and implement procedures to assess and prioritize MS4 storm drain system maintenance, including but not limited to, catch basins, pipe and pump infrastructure, above-ground conveyances, including receiving water bodies within the Permittee's urbanized area and detention basins.*

*If flood conveyance maintenance is undertaken by another entity, the Permittee shall coordinate with the flood conveyance management entity by year three to assess and prioritize maintenance of the MS4 storm drain system.*

*Assess/prioritize storm drain system facilities for cleanout – Assign a priority to MS4 storm drain facilities within the Permittee's urbanized areas based on accumulation of sediment, trash and/or debris. In particular, assign high priority to catch basin meeting any of the following criteria:*

- 1) Catch basins known to accumulate a significant amount of sediment, trash, and/or debris;*
- 2) Catch basins collecting large volumes of runoff;*
- 3) Catch basin collecting runoff from area that do not receive regular street sweeping;*
- 4) Catch basins collecting runoff from drainage areas with exposed or disturbed soil; or*
- 5) Catch basins that receive citizen complaints/reports.*

### **MCSTOPPP APPROACH**

The Phase II Permit requires the prioritization of storm drain facilities for maintenance including clean-out of catch basins and requires the development of a schedule for maintenance based on the prioritization. Facilities assigned a high priority must be inspected and cleaned at minimum annually. The Phase II Permit does not specify an inspection and maintenance frequency for facilities assigned lower priorities. Implementation of the maintenance program must begin in Permit Year 3 (fiscal year 2015-2016).

To demonstrate compliance with provision E.11.f, jurisdictions need to be able to provide the prioritized list of facilities, maintenance schedule, and document implementation of the inspections and clean-outs.

The MCSTOPPPP 2010 Action Plan establishes performance measures for storm drain facilities (inlets, culvert, v-ditches) and pump stations.

- **Storm Drain Facilities:** All jurisdictions, except for Fairfax, identified that storm drain facilities are inspected at least once per year, with more frequent cleaning as needed in some jurisdictions. Fairfax identified that their storm drain facilities are cleanout as needed.
- **Pump Stations:** All jurisdictions that have pump stations identified an inspection/cleaning frequency of greater than once per year.

If this level of implementation will continue, Marin jurisdictions can automatically assign a high priority to their storm drain facilities and pump stations and continue and document their current programs. Fairfax will need to be more specific about the inspection and cleaning frequency to meet the Phase II Permit requirement. Marin jurisdictions also have the opportunity to review and re-prioritize the cleaning and inspection of storm drain facilities, which would allow for

reducing the inspection and cleaning frequency for storm drain facilities to less than annual if warranted.

## ASSESSMENT PROCESS

1. Review list of storm drain facilities.
2. Confirm/identify inspection frequency for each facility.
3. If frequency meets high-priority minimum, determine if this level of service is appropriate and sustainable.
  - Appropriate and sustainable means the jurisdiction has adequate resources to maintain level of service and desires to maintain it.
4. If the current level of service meets high-priority minimum and is appropriate and sustainable, assign high priority to all storm drain facilities.
5. If the current level of service does not meet high-priority minimum or is not appropriate and sustainable, develop prioritization process based on the Phase II Permit minimum considerations and local needs.

## PRIORITIZATION PROCESS

1. Inventory all storm drain facilities
2. Develop and document prioritization using Phase II Permit criteria and local needs. (See Table 1.)
3. Assign all storm drain facilities based on criteria.

**Table 1 Storm Drain Facility Priority Criteria and Inspection Matrix**

Priority	Priority Criteria	Inspection & Clean-out Requirements
<b>High</b>	<p>Any of the following factors make a facility high priority</p> <ul style="list-style-type: none"> <li>• Catch basins that are:               <ul style="list-style-type: none"> <li>○ Known to accumulate a significant amount of sediment, trash, and/or debris;</li> <li>○ Collect large volumes of runoff;</li> <li>○ Collect runoff from areas that do not receive regular street sweeping;</li> <li>○ Collect runoff from drainage areas with exposed or disturbed soil; or</li> <li>○ Receive citizen complaints/reports.</li> </ul> </li> <li>• Surface drainage facilities that are:               <ul style="list-style-type: none"> <li>○ Known to accumulate a significant amount of trash</li> <li>○ Subject to recurrent illegal dumping.</li> </ul> </li> <li>• <i>Additional locally selected criteria for these or other types of facilities (e.g., pipes, pump stations).</i></li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>• Inspect facility annually.</li> <li>• Schedule clean out of facility as needed based on inspection results.</li> <li>• Document facility inspection and cleaning. (See Storm Drain Facility Inspection and Cleaning Field Form.)</li> <li>• Re-label missing or illegible catch basin no-dumping labels within one-month of the inspection.</li> <li>• Clean trash, sediment, debris from all high priority facilities prior to the rainy season.</li> </ul>

**Table 1 Storm Drain Facility Priority Criteria and Inspection Matrix**

<b>Priority</b>	<b>Priority Criteria</b>	<b>Inspection &amp; Clean-out Requirements</b>
<b>Normal**</b>	Facilities not identified as high priority are 'normal' priority	<ul style="list-style-type: none"> <li>• Inspect facility (<i>add locally determined frequency</i>).</li> <li>• Schedule clean out of facility as needed based on inspection results.</li> <li>• Document facility inspection and cleaning. (See Storm Drain Facility Inspection and Cleaning Field Form.)</li> <li>• Re-label missing or illegible catch basin no-dumping labels within one-month of the inspection.</li> <li>• Clean trash, sediment, debris prior to the rainy season whenever possible.</li> </ul>

\*\*Jurisdictions have the option to identify additional levels of priority, e.g., high, medium, low and select appropriate and sustainable inspection frequencies.

# Storm Drain Facility Inspection and Cleaning Field Form

(Please Print)

Inspection Date:		Inspector:	
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Date facility was last cleaned prior to this inspection: \_\_\_\_\_

Type of Facility:	<input type="checkbox"/> Catch Basin	<input type="checkbox"/> V-Ditch	Pump Station
	<input type="checkbox"/> Detention Basin	<input type="checkbox"/> Storm drain pipe <input type="checkbox"/>	<input type="checkbox"/> Culvert

## Inspection Results

Catch Basin Labels <small>(All must be labeled in high foot traffic areas.)</small>	Present? <input type="checkbox"/> Yes <input type="checkbox"/> No
	Legible: <input type="checkbox"/> Yes <input type="checkbox"/> No

Percent full of trash: \_\_\_\_\_

Percent full of sediment: \_\_\_\_\_

Percent full of leaves: \_\_\_\_\_

Does facility require clean-out:     Yes     No

If evident, identify likely source of trash, sediment, leaves:

\_\_\_\_\_

\_\_\_\_\_

## Catch Basin Label Maintenance

(Note: Labels for catch basins in high foot traffic areas must be re-labeled within one month of the inspection.)

Date label maintenance was performed \_\_\_\_\_

## Clean-out Results

(Note: Trash and debris in high priority facilities must be removed prior to the start of the rainy season.)

Date facility cleaned out: \_\_\_\_\_

Volume/Weight of trash removed from facility \_\_\_\_\_

Volume/Weight of sediment removed from facility \_\_\_\_\_

Volume/Weight of leaves removed from facility \_\_\_\_\_