

SECTION 5

BMP Inspection, Maintenance, and Rain Event Action Plans

5.1 BMP Inspection and Maintenance

The Qualified SWPPP Practitioner (QSP) is responsible for overall site management, including making site personnel aware of required data collection and reporting elements of the DESCP/SWPPP. The QSP is a certified individual assigned responsibility for the implementation of all elements of the DESCP/SWPPP, including non-stormwater and stormwater visual observations and sampling and analysis.

All inspection, maintenance repair, and sampling activities at the Project location will be performed or supervised by a QSP representing the Project owner. The QSP may delegate any or all of these activities to an employee trained to do the tasks appropriately, but must ensure adequate deployment.

The QSP or designated representative will monitor the weather daily using National Weather Service¹ reports to track conditions and alert crews to the onset of rainfall events.

The QSP or designated representative will perform weekly inspections and observations; before a forecasted storm²; after a qualifying rain event³ that causes runoff from the Project area; and at 24-hour intervals during extended rain events to identify and record BMPs that need maintenance to operate effectively, that have failed, or that could fail to operate as intended.

Attachment L includes a blank inspection form that will be used to record results of the inspection and assessment. Completed inspection forms will be included in Attachment L or in an accompanying file/binder that is referenced in the DESCP/SWPPP and readily accessible on-site.

A tracking or follow-up procedure will follow any inspection that identifies deficiencies in BMPs; records will be included in Attachment L or in an accompanying file/binder that is referenced in the DESCP/SWPPP and readily accessible on-site. CASQA 2009 *Construction Handbook* BMP fact sheets in Attachment J will be referenced for inspection and maintenance measures for each selected BMP.

Corrective actions will be implemented within 72 hours for deficiencies identified during inspections. DESCP/SWPPP amendments will be prepared by the QSD if warranted by the problem encountered and corrective action required.

¹ <http://www.srh.noaa.gov/>

² 50 percent or greater chance of producing precipitation in the Project area.

³ A qualifying rain event is any event that produces 0.5 inch or more precipitation with a 48-hour or greater period between rain events.

At a minimum, erosion and sediment controls will be cleaned, repaired, or replaced under these conditions:

- In advance of the rainy season and prior to a storm event
- When sediment or other debris has accumulated to greater than one-third the height of the barrier
- When sediment accumulation reaches one-third of the trap capacity
- When more than one-third of the cross section of a conveyance structure, such as a drainage swale or ditch, is plugged or blocked

Table 3 provides a BMP implementation and maintenance schedule. The selection of BMPs can potentially change during Project construction, and Table 3 will be amended accordingly.

TABLE 3
BMP Implementation and Maintenance Schedule

Best Management Practices	Implementation	Inspection Frequency	Maintenance
Silt fence	Prior to construction and in sequence with construction activities	Inspect before and after storm events (and once each 24-hour period during extended storm events); weekly	Replace torn sections; repair up-rooted sections; clean out collected sediment when greater than 1/3 height of fence
Fiber rolls; coir logs; compost socks; biofilter bags	Prior to construction and in sequence with construction activities	Inspect before and after storm events (and once each 24-hour period during extended storm events); weekly	Replace crushed sections; replace rotted sections; clean out collected sediment when greater than 1/3 height of roll
Sediment basin; Sediment trap	Prior to construction and in sequence with construction activities	Inspect before and after storm events (and once each 24-hour period during extended storm events); weekly	Repair damage and remove obstructions as needed; stabilize eroded areas; clean out collected sediment when 1/2 of designated storage volume of basin or 1/3 of trap capacity; dewater within 72 hours
Check dams; velocity dissipation devices	Prior to construction and in sequence with construction activities	Inspect before and after storm events (and once each 24-hour period during extended storm events); weekly	Replace degraded or missing rock, bags, etc.; clean out when collected soil greater than 1/3 of barrier height
Dikes and drainage swales; slope drains	Prior to construction and in sequence with construction activities	Inspect before and after storm events (and once each 24-hour period during extended storm events); weekly	Repair as needed

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Non-stormwater and materials management	Planned prior to construction	Inspect before and after storm events (and once each 24-hour period during extended storm events); weekly	Dispose of waste materials weekly; contract with outside vendors as needed; keep material storage areas clean and orderly; train all employees on correct use of materials and spill response
Erosion control blankets (geotextiles); non-vegetative stabilization; compost blankets	In sequence with construction activities; prior to forecasted rain event	Inspect before and after storm events (and once each 24-hour period during extended storm events); weekly	Repair eroded areas; replace and repair geotextiles and mats as needed
Sandbags	Prior to construction and in sequence with construction activities	Inspect before and after storm events (and once each 24-hour period during extended storm events); weekly	Repair, reshape, replace bags as necessary; replace bags exposed to sunlight every 2 to 3 months; clean out collected sediment when greater than 1/3 barrier height
Gravel bags	Prior to construction and in sequence with construction activities	Inspect before and after storm events (and once each 24-hour period during extended storm events); weekly	Repair, reshape, replace bags as necessary; replace bags exposed to sunlight every 2 to 3 months; clean out collected sediment when greater than 1/3 barrier height
Storm drain inlet protection	Prior to construction	Inspect before and after storm events (and once each 24-hour period during extended storm events); weekly	Clean and repair filters or fabric fence as needed; clean out collected sediment when greater than 1/3 barrier height
Hydraulic mulch	In sequence with construction activities; prior to forecasted rain event	Inspect before and after storm events (and once each 24-hour period during extended storm events); weekly	Repair eroded areas; reapply on bare areas as needed
Mulch (straw, wood, organic); soil binders	In sequence with construction activities; prior to forecasted rain event	Inspect before and after storm events (and once each 24-hour period during extended storm events); weekly	Repair eroded areas; reapply on bare areas as needed

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Hydroseeding; seeding (if applicable)	As soon as possible after disturbance has permanently or temporarily ceased, but in no case more than 14 days after the construction activity in an area has ceased (except when construction activity will resume on that portion of the site within 21 days)	Inspect before and after storm events (and once each 24-hour period during extended storm events), weekly; monitored every May for the first 3 years following Project completion	Reseed areas that do not meet revegetation criteria
Streambank stabilization	In sequence with construction activities	Inspect before and after storm events (and once each 24-hour period during extended storm events); weekly	Repair eroded areas; replace BMP measure as needed
Straw bale barrier	In sequence with construction activities	Inspect before and after storm events (and once each 24-hour period during extended storm events); weekly	Replace rotted sections; clean out collected sediment when greater than 1/3 height of barrier
Active treatment system	In sequence with construction activities	Follow guidelines of the Construction General Permit Attachment F – Active Treatment System Requirements	Follow guidelines of the Construction General Permit Attachment F – Active Treatment System Requirements
Concrete washout	In sequence with construction activities	Inspect before and after storm events (and once each 24-hour period during extended storm events); weekly	Clean out, or construct new facility, once the washout is 75 percent full
Aggregate surfacing	Completion of grading activities	Weekly	Keep all temporary roadway ditches clear; periodically apply additional aggregate as needed
Stabilized construction entrance/exit	Prior to grading/earth disturbance	Inspect before and after storm events (and once each 24-hour period during extended storm events); weekly	Remove aggregate, separate and dispose of sediment when construction entrance/exit is clogged with sediment; keep all temporary roadway ditches clear; check for damage and repair as needed; replace gravel material when surface voids are visible
Stabilized construction roadway	Prior to start of associated construction activities	Inspect before and after storm events (and once each 24-hour period during extended storm events); weekly	Keep all temporary roadway ditches clear; periodically apply additional aggregate on gravel roads

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Stockpile management	In sequence with construction activities	Inspect before and after storm events (and once each 24-hour period during extended storm events); weekly	Repair or replace perimeter controls and covers as needed
Street sweeping and vacuuming	Start of construction activities	Inspect before and after storm events (and once each 24-hour period during extended storm events); when actively in use, inspect points of ingress and egress daily, otherwise weekly	Remove tracked or spilled sediment outside the construction limits at a minimum daily
Tire wash	Prior to start of associated construction activities	Inspect before and after storm events (and once each 24-hour period during extended storm events); weekly	Remove accumulated sediment in wash rack to maintain system performance; repair as needed

