



CONSTRUCTION STORM WATER MANAGEMENT PLAN (CSWMP)

PUBLIC WORKS DEPARTMENT / ENGINEERING DIVISION
8130 Allison Avenue, La Mesa, CA 91942
Phone: 619.667.1166 • Fax: 619.667.1380

Building/Grading/Encroachment Permit No: _____

Project Name: _____

Project Address/Location: _____

Person Completing Form: _____

Person Responsible for Storm Water BMPs Onsite _____

Responsible Person Telephone number: (_____) _____ - _____

STORM WATER POLLUTION PREVENTION, DISCHARGE & EROSION CONTROL

Under the regulations that govern grading and construction activities in the (City of La Mesa Municipal Code Sections 7.18. and 14.05) property owners and permit holders are required to control erosion and storm water pollution by incorporating erosion and storm water pollution prevention Best Management Practices (BMPs) into all construction projects. Property owners and employed contractors are responsible for adhering the City's Construction BMP Standards including installing as needed:

- Sediment Control BMPs
- Erosion Control BMPs
- Materials Management BMPs
- Tracking Control BMPs

Additional information related Construction BMPs can be obtained at the Engineering Counter at City Hall, or at www.cityoflamesa.com/stormwater.

City inspectors will be inspecting your project periodically to ensure that required BMPs are installed correctly onsite. Property owners and the contractors are responsible for ensuring that the site is in compliance. The City will issue a Notice of Violation to both the contractor and owner for occurrences of non-compliance. Repeated violators may be subject to an administrative citation penalty.

//We the owner/agent agree to follow Construction Best Management Practices and perform construction accordingly. We, the owners also agree to comply with City Storm Water Pollution Prevention Ordinance and permit the city employees to enter our property at any time to inspect for compliance with the ordinance/municipal code sections listed above.

Signature (Owner or Agent)

Address & Phone No.

Date

RELATIONSHIP BETWEEN PERFORMANCE STANDARDS, SITE MANAGEMENT REQUIREMENTS AND BMPs

Site management requirements and BMPs are the tools necessary to achieve compliance with the performance standards. When properly implemented, monitored and maintained, the site management requirements and BMPs will function as a system to prevent pollutants (including sediment) from leaving the site.

The City of La Mesa is committed to protecting the public interest and the environment from pollutants in site runoff. We are asking for your support and cooperation in making sure that all construction sites comply with these standards.

Your cooperation will enable all of us to share the benefits of a cleaner environment without the expense of enforcement actions.

GENERAL The owner/contractor shall notify the City **at least 48 hrs** prior to commencement of any type of grading and/or construction activities. Erosion control plans shall be required in conjunction with the grading plans in the event the site is exposed to erosion during the period between November 1 and April 15.

Erosion control measures shall include, but not be limited to the following:

1. All building pads shall be diked and the dikes maintained to prevent water from flowing from the pad until the streets and driveways are paved and water can flow from the pads without causing erosion; drainage facilities shall be constructed to the satisfaction of the City Engineer that will allow water to drain from the pad without causing erosion.
2. The tops of all slopes shall be diked or trenched to prevent water from flowing over the crests of slopes.
3. As soon as cuts or embankments are completed, but no later than November 1, all cut and fill slopes shall be stabilized with a hydro mulch mixture or an equal treatment approved by the City Engineer. Between November 1 and April 30, approved slope protection measures shall proceed immediately behind the exposure of cut slopes and/or the creation of embankment slopes.
4. An irrigation system shall be installed not later than May 15 following the planting of the slopes.
5. Gravel bag check dams shall be placed in a manner approved by the City Engineer in unpaved streets with gradients in excess of 2% and or in other graded or excavated areas as required by the City Engineer. The location and details of the sand bags shall be shown on the plans, if required.
6. Catch basins, desilting basins and storm drain systems shall be installed to the satisfaction of the City Engineer.
7. At or near every point where concentrated flow leaves the development, a desilting basin and an energy dissipater may be required to be constructed to remove silt from the water and release the water at a non-erosive velocity.
8. The owner/contractor shall maintain the plantings and erosion control measures described above. The owner/contractor shall remove all soil intercepted by the sand bags, catch basins and desilting basins and keep these facilities clean and free of silt and sand as directed by the City Engineer. The owner/contractor shall repair any eroded slopes as directed by the geotechnical engineer.
9. The City of La Mesa reserves the right to provide emergency temporary erosion control measures during, if the owner/Contractor fails to provide such controlling measures, and charge double the expenses plus overhead to the owner/contractor.

PERFORMANCE STANDARDS

- No measurable sediment pollution in runoff from the site.
- Rills or gullies on slopes shall not be greater than 3" wide or deep and must be repaired as soon as it is safe to do so.
- The velocity of water leaving the site must not be greater than pre-construction levels.

Property owners are responsible for meeting the performance standards described above. These performance standards cannot be achieved without proper site management and effective BMPs.

SITE MANAGEMENT REQUIREMENTS

All construction sites must implement BMPs in accordance with the City's dry and wet season requirements, which are detailed below.

A. Dry Season Requirements (May 1 through September 30) include but are not limited to:

- All exposed disturbed areas must have erosion prevention controls properly installed including building pads, unfinished roads, and slopes. (Slopes greater than 33.3% or 3:1 vertical vs. horizontal may use properly designed and installed de-silting basins at all discharge points in lieu of this requirement)
- Adequate perimeter protection BMPs must be installed and maintained to comply with performance standards (above).
- Adequate sediment containment BMPs must be installed and maintained to comply with performance standards (above).
- Adequate BMPs designed to control off-site sediment tracking must be installed and maintained.
- At a minimum, 125% of the materials needed to install standby BMPs necessary to completely protect exposed portions of the site from erosion and to prevent sediment discharges must be stored on the site. Areas that have already been protected from erosion using physical stabilization or vegetation stabilization BMPs are not considered to be "exposed" for purposes of this requirement.
- The owner/contractor must have an approved "weather triggered" action plan and have the ability to deploy standby BMPs as needed to completely protect the exposed portions of the site within 24 hours of prediction of a storm event (a forecasted 40% chance of rain).
- Deployment of physical or vegetation erosion control BMPs must commence as soon as grading and/or excavation is completed for any portion of the site. The project proponent may not continue to rely on the ability to deploy standby BMP materials to prevent erosion of graded areas that have been completed.
- The amount of cleared or graded areas left exposed at any given time is limited to 17 acres or to the alternate maximum area approved by the City in writing.
- A washout area shall be designated and maintained for materials such as concrete, stucco, paint, caulking, sealants, drywall plaster, etc.
- Properly protected, designated storage areas are required for materials and wastes.
- All stockpiles of materials and wastes should be covered when materials are not being actively added or removed.
- Remnant trash and debris shall be removed and/or properly stored/disposed of daily.
- Storage, service, cleaning, and maintenance areas for vehicles and equipment shall be identified and protected accordingly.
- Materials for spill control/containment must be stockpiled onsite.
- Non-storm water discharges must be eliminated or controlled to the MEP.

B. Rainy Season Requirements (October 1 through April 30) include but are not limited to:

- All exposed disturbed areas must have erosion prevention controls properly installed including building pads, unfinished roads, and slopes. (Slopes greater than 33.3% or 3:1 vertical vs. horizontal may use properly designed and installed de-silting basins at all discharge points in lieu of this requirement)
- Adequate perimeter protection BMPs must be installed and maintained to comply with performance standards (above).
- Adequate sediment containment BMPs must be installed and maintained to comply with performance standards (above).
- Adequate BMPs designed to control off-site sediment tracking must be installed and maintained.
- At a minimum, 125% of the materials needed to install standby BMPs necessary to completely protect exposed portions of the site from erosion and to prevent sediment discharges must be stored on the site. Areas that have already been protected from erosion using physical stabilization or vegetation stabilization BMPs are not considered to be "exposed" for purposes of this requirement.
- The owner/contractor must have an approved "weather triggered" action plan and have the ability to deploy standby BMPs as needed to completely protect the exposed portions of the site within 24 hours of prediction of a storm event (a forecasted 40% chance of rain).
- Deployment of physical or vegetation erosion control BMPs must commence as soon as grading and/or excavation is completed for any portion of the site. The project proponent may not continue to rely on the ability to deploy standby BMP materials to prevent erosion of graded areas that have been completed.

- The amount of cleared or graded areas left exposed at any given time is limited to 17 acres or to the alternate maximum area approved by the City in writing.
- A washout area shall be designated and maintained for materials such as concrete, stucco, paint, caulking, sealants, drywall plaster, etc.
- Properly protected, designated storage areas are required for materials and wastes.
- All stockpiles of materials and wastes should be covered when materials are not being actively added or removed.
- Remnant trash and debris shall be removed and/or properly stored/disposed of daily.
- Storage, service, cleaning, and maintenance areas for vehicles and equipment shall be identified and protected accordingly.
- Materials for spill control/containment must be stockpiled onsite.
- Non-storm water discharges must be eliminated or controlled to the MEP.
- Erosion control BMPs must be upgraded if necessary to provide sufficient protection for storms likely to occur during the rainy season.
- Perimeter protection and sediment containment BMPs must be upgraded if necessary to provide sufficient protection for storms likely to occur during the rainy season.
- Adequate soil stabilization and erosion prevention BMPs must be installed and established for all completed slopes prior to October 1 and maintained throughout the wet season. If a selected BMP fails, it must be repaired, improved, or replaced with an acceptable alternate as soon as it is safe to do so.

- All vegetation erosion prevention BMPs must be established prior to the rainy season to be considered as a BMP.
- Standby erosion and sediment control BMPs must be able to protect all exposed soil areas. A disturbed area that is not completed but that is not being actively graded must be fully protected from erosion if left for seven or more calendar days. The ability to deploy standby BMP materials is not sufficient for these areas.

BEST MANAGEMENT PRACTICES

Every construction site within the City's jurisdiction is required to select, install, and maintain construction BMPs to reduce, retain, and manage pollutant discharges to the maximum extent practicable. The BMPs listed below are required by the City where applicable. The corresponding Caltrans fact sheet for the listed BMPs is indicated in parenthesis. These fact sheets are obtainable from the Caltrans Storm Water Quality Handbooks Construction Site BMP Manual (2003) and provide additional details on how to implement the BMP.

Please check all BMPs below that are applicable and feasible for the construction that will be implemented and maintained for the length of construction.

- Preserve natural hydrologic features where feasible
- Preserve riparian buffers and corridors where feasible
- Minimize areas that are cleared and graded to only the portion of the site that is necessary for construction
- Minimize exposure time of disturbed soil areas
- Minimize grading during the wet season and correlate grading with seasonal dry weather periods to the extent feasible
- Temporarily stabilize and reseed disturbed soil areas as rapidly as feasible
- Preserve existing vegetation where feasible (SS-2)
- Establish permanent re-vegetation or landscaping as early as feasible

Prevent the contamination of storm water from vehicles and equipment through proper management of the following types of activities:

- Cleaning (NS-8)
- Fueling (NS-9)
- Maintenance (NS-10)

Prevent the contamination of storm water from construction materials through proper management of the following types of activities:

- Material Delivery and Storage (WM-1)
- Material Use (WM-2)
- Stockpile Management I (WM-3)
- Spill Prevention and Control (WM-4)

Prevent the contamination of storm water by wastes through proper management of the following types of wastes:

- Solid Waste (WM-5)
- Hazardous Waste (WM-6)
- Contaminated Soil (WM-7)
- Concrete (WM-8)
- Sanitary Waste (WM-9)
- Liquid (WM-10)

Prevent the contamination of storm water through proper management of the follow activities:

- Water Conservation Practices (NS-1)
- Dewatering Operations (NS-2)
- Paving and Grinding (NS-3)
- Potable Water/Irrigation and Flushing (NS-7)

Prevent erosion and sediment runoff from exposed graded areas through physical stabilization and/or vegetation stabilization² by implementing one or more of the following BMPs:

- Hydraulic Mulch (SS-3)
- Hydroseeding (SS-4)
- Soil Binders (SS-5)
- Straw Mulch (SS-6)
- Geotextiles, Plastic Covers, and Erosion Control Blankets/Mats (SS-7)
- Wood Mulch (SS-8)
- Earth Dikes/Drainage Swales (SS-9)

Reduce the velocity of storm water by using one or more of the following:

- Outlet Protection/Velocity Dissipation (SS-10)
- Slope Drains (SS-11)

Protect the Perimeter of the site or exposed area from sediment discharge using one or more of the following:

- Silt Fence (SC-1)
- Gravel Bag Berm (SC-6)
- Fiber Rolls (SC-5)

Capture sediments in channeled storm water by using one or more of the following:

- De-silting Basin³ (SC-2)
- Storm Drain Inlet Protection (SC-10)
- Sediment Trap (SC-3)
- Gravel Bag Barrier (SC-8)

Prevent sediment from being tracked off-site by using one or more of the following:

- Stabilized Construction Entrance (TC-1)
- Construction Road Stabilization (TC-2)
- Entrance/Exit Tire Wash (TC-3)
- Street Sweeping (SC-7)

Notes on above BMPs:

1. Stockpiles should be fully covered when materials are not being added or removed.
2. Vegetation stabilization BMPs must be installed, irrigated, and established (uniform vegetative coverage with 70% coverage established) prior to October 1st. In the event stabilizing vegetation has not been established by October 1st, other forms of physical stabilization must be employed to prevent erosion until the stabilizing vegetation is established.
3. De-silting basins must be designed in accordance with industry standards such as Caltrans.

It is the responsibility of the property owner and permit holder to select, install and maintain appropriate BMPs. BMPs must be installed in accordance with an industry standard (e.g., Caltrans or California Storm water BMP Handbook).

At a minimum, the City requires that at least one of the BMPs listed in each category (A-E) below be installed and

maintained for all grading projects.

A. Erosion Control

Physical Stabilization BMPs, Hydraulic Stabilization BMPs, Vegetation Stabilization BMPs or a combination thereof, will be required to prevent erosion from exposed slopes. The City will not accept tracking, mulch, non-watered hydroseed or jute netting as a means to protect exposed slopes from erosion.

City approved BMPs for erosion control are as follows:

1. Physical Stabilization
 - a) Geotextiles
 - b) Straw or Coconut Blankets
2. Hydraulic Stabilization
 - a) Bonded Fiber Matrix
3. Vegetation Stabilization
 - a) Established interim vegetation (e.g., hydroseed)
 - b) Established permanent landscaping

If vegetation stabilization (planting, hydroseeding) is selected for erosion control, the vegetative cover must be established by October 1st. If, in the opinion of the City Official, the vegetative cover is not established by October 1st, additional hydraulic or physical erosion control BMPs will be required.

B. Sediment Control

City approved BMPs for sediment control are as follows:

1. Perimeter Protection – Protect the perimeter of the site or disturbed area from sediment discharge.
 - a) Silt Fencing
 - b) Gravel Bags
 - c) Straw Wattles
2. Resource Protection – Protect environmentally sensitive areas and watercourses from sediment.
 - a) Silt Fencing
 - b) Gravel Bags
 - c) Straw Wattles

Private streets & paved area shall be swept by combination of broom and / or air vacuum sweepers.

C. Offsite Sediment Control

City approved BMPs for offsite sediment tracking control are as follows:

1. Offsite Sediment Tracking – Prevent sediment from being tracked offsite.
 - a) Stabilized Construction Entrance
 - b) Entrance/Exit Tire Wash
 - c) Entrance/Exit Inspection and Cleaning Facility
 - d) Streets shall be swept by combination of broom and / or air vacuum sweepers.

D. Velocity Reduction

City approved BMPs for velocity reduction are as follows:

1. Velocity Reduction – Reduce the velocity of stormwater runoff to prevent erosion.
 - a) Outlet Protection
 - b) Energy Dissipator

E. General Site Management

City approved BMPs for site management are as follows:

1. Construction Waste Handling – Prevent the contamination of storm water runoff by wastes through proper waste management.
 - a) Solid Waste
 - b) Sanitary Waste
 - c) Concrete Waste
 - d) Hazardous Waste
2. Materials Management – Prevent the contamination of storm water runoff by storage or handling of construction materials.