

**CITY OF ONTARIO
ENGINEERING DEPARTMENT**

**EROSION AND SEDIMENT CONTROL AND CONTRACTOR ACTIVITY NOTES
TO BE PLACED ON GRADING PLAN COVER SHEET**

1. THE CONTRACTOR SHALL MAINTAIN THE CONSTRUCTION SITE BY IMPLEMENTATION OF BEST MANAGEMENT PRACTICES (BMPs), TO THE MAXIMUM EXTENT PRACTICABLE, SO THAT POLLUTANTS (INCLUDING SOIL PARTICLES, BUILDING MATERIALS, WASTE AND SPILLED MATERIALS) ARE PREVENTED FROM DISCHARGE INTO THE MUNICIPAL STORMWATER SYSTEM.
2. THE CONTRACTOR SHALL PREPARE THE CONSTRUCTION SITE PRIOR TO THE ONSET OF ANY STORM AND SHALL HAVE ALL EROSION AND SEDIMENT CONTROL MEASURES IN PLACE FOR THE RAINY SEASON, PRIOR TO OCTOBER 1.
3. THE CONTRACTOR SHALL CONSIDER THE FULL RANGE OF EROSION CONTROL BEST MANAGEMENT PRACTICES FOR ALL DISTURBED SURFACES SUCH AS: BUFFER STRIPS, HYDROSEEDING, MULCHING, TRACK WALKING OR IMPRINTING, GEOTEXTILES AND MATS, SOIL STABILIZERS AND BINDERS, EARTHEN DIKES, TEMPORARY DRAINS AND SWALES FOR DIVERSION OF OFF-SITE RUNOFF, TEMPORARY SLOPE DRAINS, STORM OUTLET PROTECTION, CHECK DAMS AND SLOPE ROUGHENING AND TERRACING.
4. ALL EROSION AND SEDIMENT CONTROL BMPs SHALL BE INSTALLED ACCORDING TO THE SPECIFICATIONS IN SECTION 3 OF THE CALIFORNIA STORMWATER QUALITY ASSOCIATION BMP HANDBOOK (JANUARY 2003) FOR CONSTRUCTION ACTIVITY OR EQUIVALENT.
5. DUST CONTROL BMPs SHALL BE USED TO STABILIZE SOIL FROM WIND EROSION, AND REDUCE DUST GENERATED BY CONSTRUCTION ACTIVITIES AND MAY INCLUDE STABILIZATION OF UNPAVED CONSTRUCTION ROADS AND PARKING AND STAGING AREAS; WATER SPRAYING; CHEMICAL STABILIZATION; MULCHING; COVERING STOCKPILES WITH TARPS; RAPID CLEANUP OF SEDIMENTS DEPOSITED ON PAVED ROADS AND STABILIZATION OF CONSTRUCTION ENTRY/EXIT POINTS WITH GRAVEL.
6. THE CONTRACTOR SHALL INSTALL A 6 FOOT HIGH SCREENING FABRIC FENCE AROUND THE PERIMETER OF THE CONSTRUCTION SITE PRIOR TO THE START OF CONSTRUCTION.
7. THE CONTRACTOR SHALL CONSTRUCT SEDIMENT CONTROLS SUCH AS FIBER ROLLS, SILT FENCES, STRAW BALE BARRIERS, GRAVEL-FILLED BAG BARRIERS, BRUSH OR ROCK FILTERS, SEDIMENT BASINS AND STORM DRAIN INLET PROTECTION.
8. ALL SEDIMENT CONTROL STRUCTURES SHALL BE CONSTRUCTED PURSUANT TO THE SPECIFICATIONS IN SECTION 3 OF THE CALIFORNIA STORMWATER QUALITY ASSOCIATION BMP HANDBOOK FOR CONSTRUCTION ACTIVITY OR EQUIVALENT, UNLESS OTHERWISE REQUIRED IN THE CITY'S STANDARD CONSTRUCTION NOTES.
9. THE CONTRACTOR SHALL PROTECT ALL STORM DRAIN INLETS WHICH MAY RECEIVE STORM WATER RUNOFF FROM THE CONSTRUCTION ACTIVITIES WITH A COMBINATION OF FIBER ROLLS AND GRAVEL BAGS. FIBER ROLLS MUST BE PLACED ACROSS THE OPENING OF ALL OFF-SITE AND ON-SITE CURB-INLET CATCH BASINS WITH GRAVEL BAGS PLACED OVER THE ENDS OF THE FIBER ROLL AND OVER THE TOP OF THE ROLL, AT 3 FT INTERVALS. ALL DROP INLETS MUST BE SURROUNDED BY FIBER ROLL BARRIERS, WITH GRAVEL BAGS PLACED OVER THE ENDS OF THE ROLLS AND OVER THE TOP OF ROLL, AT 3 FOOT INTERVALS. AFTER EACH

STORM EVENT, ALL FIBER ROLL/GRAVEL BAG BARRIERS MUST BE REMOVED AND CLEANED OF ALL SEDIMENT BUILDUP.

10. STRUCTURAL BMP INSTALLATION IS TO BE MONITORED BY THE MANUFACTURER OR APPROVED QUALIFIED INSTALLER TO ENSURE MANUFACTURERS SPECIFICATIONS ARE MET DURING CONSTRUCTION.
11. DURING THE RAINY SEASON, ALL GRADED SITES SHALL INSTALL AND MAINTAIN TEMPORARY SEDIMENT BASINS PURSUANT TO THE SPECIFICATIONS OF BMP FACTSHEET #SE-2 OF THE CASQA STORMWATER HANDBOOK FOR CONSTRUCTION ACTIVITIES.
12. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED BEFORE AND AFTER ALL STORMS TO ENSURE MEASURES ARE FUNCTIONING PROPERLY. QUALIFIED PERSONNEL SHALL CONDUCT INSPECTIONS OF THE CONSTRUCTION SITE PRIOR TO ANTICIPATED STORM EVENTS, DURING EXTENDED STORM EVENTS AND AFTER ACTUAL STORM EVENTS TO IDENTIFY AREAS CONTRIBUTING TO A DISCHARGE OF STORM WATER ASSOCIATED WITH CONSTRUCTION ACTIVITY. PRE-STORM INSPECTIONS ARE TO ENSURE THAT THE BMPs LISTED ABOVE ARE PROPERLY INSTALLED AND MAINTAINED; POST-STORM INSPECTIONS ARE TO ASSURE THAT THE BMPs HAVE FUNCTIONED ADEQUATELY. DURING EXTENDED STORM EVENTS, INSPECTIONS SHALL BE MADE DURING EACH 24-HOUR PERIOD. EQUIPMENT, MATERIALS, AND MANPOWER MUST BE MADE AVAILABLE FOR RAPID RESPONSE TO FAILURES AND EMERGENCIES. ALL CORRECTIVE MAINTENANCE TO BMPs SHALL BE PERFORMED AS SOON AS POSSIBLE, DEPENDING UPON WORKER SAFETY.
13. THE CONTRACTOR SHALL MAINTAIN A LOG AT THE CONSTRUCTION SITE OF ALL INSPECTIONS AND BMP MAINTENANCE PERFORMED. THE LOG SHALL ALSO INCLUDE ANY CORRECTIVE CHANGES TO THE BMPs OR THE EROSION AND SEDIMENT CONTROL PLAN, THE INSPECTION DATE, AND THE NAME OF THE PERSON INSPECTING THE SITE OR PERFORMING THE MAINTENANCE.
14. THE CONTRACTOR SHALL INSTALL STABILIZED CONSTRUCTION ENTRANCE(S)/EXIT(S) MEASURING A MINIMUM OF 50 FEET LONG AND 30 FEET WIDE AND CONSISTING OF A 6 INCH LAYER OF 1-3 INCH STONES PRIOR TO COMMENCEMENT OF GRADING. THE LOCATION OF THE ENTRANCES MAY BE ADJUSTED BY THE CONTRACTOR TO FACILITATE GRADING OPERATIONS. ALL CONSTRUCTION TRAFFIC ENTERING OR LEAVING A CONSTRUCTION SITE, TO OR FROM A PUBLIC RIGHT-OF-WAY, STREET, ALLEY, SIDEWALK, OR PARKING AREA, MUST CROSS THE STABILIZED CONSTRUCTION ENTRANCE(S). THE STABILIZED CONSTRUCTION ENTRANCE(S) SHALL REMAIN IN PLACE UNTIL THE ROAD BASE ROCK COURSE IS COMPLETED. WHEEL WASH OVER A WASH RACK IS RECOMMENDED FOR CLAY SOILS.
15. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE SWEEPED AT THE END OF EACH WORKING DAY. WASHING OF ACCUMULATED SEDIMENT INTO THE STORM DRAIN IS PROHIBITED.
16. IN ALL AREAS WHERE BARE SOIL IS EXPOSED TO WATER OR WIND EROSION, ACCEPTABLE SOIL STABILIZATION MATERIALS ARE REQUIRED TO BE APPLIED.
17. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL ALL DISTURBED AREAS ARE STABILIZED. THE ADEQUACY OF POST CONSTRUCTION SOIL STABILIZATION SHALL BE SUBJECT TO THE REVIEW AND APPROVAL OF THE CITY ENGINEERING DEPARTMENT. ADDITIONAL EROSION AND SEDIMENT CONTROL BMPs THAT ARE OVER AND ABOVE THE BMPs SHOWN ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHEET AND THE SWPPP, MAY BE REQUIRED TO BE IMPLEMENTED IN ORDER TO MEET FIELD CONDITIONS. **IT IS THE RESPONSIBILITY OF THE CONSTRUCTION SUPERINTENDENT TO DETERMINE WHAT ADDITIONAL MEASURES ARE NECESSARY AND TO INSTALL THOSE ADDITIONAL BMPs AS NECESSARY.**
18. THE CONTRACTOR SHALL REPORT THE FOLLOWING INCIDENTS:

- A. If there is an accidental discharge of non-storm water or storm water containing pollutants that has the potential to enter or enters a City storm drain or a Flood Control Channel, the contractor shall notify the City's Storm Water Coordinator as soon as possible at (909) 395-2389 or at (909) 395-2143. If the discharge occurs after business hours, the Fire Department shall be notified at 911.
 - B. If there is a release or threatened release of a hazardous material, the contractor shall also notify the Fire Department at 911, the San Bernardino County Fire Department Hazardous Materials Division at (800) 33-Toxic or (909) 387-3044, the State of California Office of Emergency Services at (800) 852-7550 and, for a reportable quantity, the National Response Center at (800) 424-8802.
 - C. If there will be a discharge of water from water line or tank flushing or testing into the storm drain system, the City requires the contractor to FAX a "Non-Storm Water Discharge Notification" form (available from the City of Ontario's Engineering counter) to the Engineering Department at (909) 395-2122, five days prior to a planned discharge or as soon as possible for unplanned discharges. Sampling during the first 30 minutes is required. Chlorinated water must be de-chlorinated to <0.1 ppm and Suspended Solids must be reduced to <75 ppm prior to discharge to the storm drain system.
 - D. The Regional Water Quality Control Board shall be notified by telephone as soon as possible, but no later than 48 hours, after it is determined that storm water discharges and/or authorized non-storm water discharges are causing or contributing to an exceedance of an applicable water quality standard at (909) 782-4130. The notification shall be followed by a report within 14-calendar days describing: (1) the nature and cause of the water quality exceedance; (2) the BMPs currently being implemented; (3) any additional BMPs which will be implemented to prevent or reduce pollutants that are causing or contributing to the water quality exceedance and a schedule for their implementation; and (4) any maintenance or repair of BMPs.
19. ALL CONTRACTOR ACTIVITY BMPS SHALL BE IMPLEMENTED ACCORDING TO THE SPECIFICATIONS IN CHAPTER 4 OF THE CALIFORNIA BMP HANDBOOK FOR CONSTRUCTION ACTIVITY OR EQUIVALENT. AT A MINIMUM, THE CONTRACTOR SHALL IMPLEMENT THE FOLLOWING CONTRACTOR ACTIVITY BMPs:
- A. PROVIDE EMPLOYEE/SUBCONTRACTOR TRAINING IN CONSTRUCTION BMPs:**

OBTAIN APPROPRIATE CONSTRUCTION BEST MANAGEMENT PRACTICE FACT SHEETS FROM THE "CALIFORNIA STORM WATER BMP HANDBOOK FOR CONSTRUCTION" OR EQUIVALENT AND PROVIDE COPIES AND TRAINING ON THESE BMPs TO EMPLOYEES AND SUBCONTRACTORS PRIOR TO THE BEGINNING OF WORK.
 - B. LIQUID AND SOLID WASTE MANAGEMENT:**

PROVIDE A SUFFICIENT NUMBER OF DESIGNATED WASTE COLLECTION AREAS, PHYSICALLY SEPARATED FROM POTENTIAL STORM WATER RUN-OFF, WITH LIDDED CONTAINERS. ARRANGE FOR THEIR REGULAR REMOVAL AND DISPOSAL IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS. CLEAR SITE OF TRASH, INCLUDING ORGANIC DEBRIS, PACKAGING MATERIALS, SCRAP OR SURPLUS BUILDING MATERIALS AND DOMESTIC WASTE DAILY.
 - C. CHEMICAL AND MATERIAL DELIVERY AND STORAGE:**

PROVIDE A DESIGNATED CHEMICALS STORAGE AREA, LOCATED NEAR THE CONSTRUCTION ENTRANCES, AWAY FROM DRAINAGE COURSES, WHICH HAS A TEMPORARY SECONDARY SPILL CONTAINMENT SYSTEM. STORE ALL CHEMICALS IN SEALED AND LABELED CONTAINERS. PROVIDE A SPILL CLEANUP KIT AND TARPS FOR COVERING STOCKPILED MATERIALS WHEN RAIN IS PREDICTED. RELOCATE CHEMICAL

STORAGE AREA INTO A TRAILER OR BUILDING SHELL WHEN POSSIBLE. INSPECT AREA WEEKLY FOR LEAKS AND SPILLS.

D. CONCRETE WASTE:

CONDUCT CONCRETE WASHOUT OFF-SITE OR PROVIDE A DESIGNATED AREA FOR A TEMPORARY PIT TO BE USED FOR CONCRETE TRUCK WASH OUT THAT IS AT LEAST 50 FEET FROM ANY STORM DRAIN OR DRAINAGE CHANNEL. REQUIRE DISPOSAL OF HARDENED CONCRETE OFFSITE. AT NO TIME SHALL A CONCRETE TRUCK DUMP ITS WASTE AND CLEAN ITS TRUCK INTO THE CITY STORM DRAINS VIA CURB AND GUTTER. INSPECT DAILY TO CONTROL RUNOFF, AND WEEKLY FOR REMOVAL OF HARDENED CONCRETE.

E. PAINTING AND DRYWALL WORK:

PROVIDE INSTRUCTION TO EMPLOYEES AND SUBCONTRACTORS BEFORE THEY START WORK, REGARDING REDUCTION OF POLLUTANTS INCLUDING MATERIAL STORAGE, USE, AND CLEAN UP. DRYWALL EQUIPMENT, PAINTBRUSHES, AND ROLLERS CANNOT BE WASHED INTO THE STREET OR STORM DRAIN SYSTEM.

F. VEHICLE FUELING, MAINTENANCE AND CLEANING:

IF FUELING MUST OCCUR ON-SITE, PROVIDE A DESIGNATED FUELING AREA, LOCATED AWAY FROM DRAINAGE COURSES, WITH SECONDARY SPILL CONTAINMENT. ENSURE THAT THE FUEL TANK AND NOZZLES ARE KEPT INSIDE OF THE CONTAINMENT AREA. DO NOT ALLOW MOBILE FUELING OF EQUIPMENT. INSPECT FUELING AREA WEEKLY FOR LEAKS OR SPILLS. PROVIDE DRIP PANS FOR LEAKING EQUIPMENT OR EMERGENCY EQUIPMENT MAINTENANCE. RESTRICT ONSITE MAINTENANCE OF EQUIPMENT TO A MINIMUM. DO NOT ALLOW WASHING OF VEHICLES OR EQUIPMENT INTO THE STREET OR STORM DRAIN SYSTEM.

G. ASPHALT, SAWCUTTING, CORING, AND GRINDING ACTIVITIES:

INFORM EMPLOYEES AND SUBCONTRACTORS TO PROTECT CATCH BASINS WHEN APPLYING ASPHALT SEAL COAT, SLURRY SEAL OR FOG SEAL, AND TO PREVENT SAWCUTTING SLURRIES, CORING OR AC GRINDING WASTES FROM ENTERING THE STORM DRAIN SYSTEM.

H. BUILDING BLASTING AND CLEANING:

PROVIDE INSTRUCTION TO EMPLOYEES AND SUBCONTRACTORS, BEFORE THEY START A JOB, TO ENSURE THAT BLAST RESIDUE FROM HIGH-PRESSURE WASHING OF BUILDINGS IS NOT ALLOWED TO ENTER THE STORM DRAIN SYSTEM. IF PAINT REMOVAL INVOLVES HAZARDOUS SUBSTANCES SUCH AS LEAD AND MERCURY, THE WASTE MUST BE PREVENTED FROM PERCOLATING INTO THE GROUND AND MUST BE HAULED OFF-SITE AS A HAZARDOUS WASTE.

I. CEMENT, GROUT AND MORTAR WORK, AND CLEAN UP:

ENSURE THAT EMPLOYEES AND SUBCONTRACTORS PREVENT CEMENT, GROUT AND MORTAR SOLIDS, AND CLEAN UP WATER FROM ENTERING THE STORM DRAIN SYSTEM.

J. SANITARY AND SEPTIC WASTES:

SEWAGE IS PROHIBITED IN THE STORM DRAIN SYSTEM. ENSURE THAT THE SEPTIC TANK SERVICE COMPANY IS INFORMED THAT SEWAGE AND WASTEWATER GENERATED FROM

THE DISINFECTION AND WASH DOWN OF SEPTIC TANKS CANNOT BE DISCHARGED TO THE STORM DRAIN SYSTEM.

K. WATER LINE DISINFECTION, FLUSHING, DEWATERING, AND OTHER NON-STORM WATER DISCHARGES:

UNLESS EXEMPTED OR AUTHORIZED BY AN NPDES PERMIT, ALL NON-STORM WATER DISCHARGES REQUIRE PRIOR APPROVAL BY THE CITY OR THE REGIONAL WATER QUALITY CONTROL BOARD. THE DEVELOPER OR CONTRACTOR SHALL NOTIFY THE CITY'S STORM WATER COORDINATOR AT (909) 395-2389 OR (909) 395-2143, OR THE REGIONAL WATER QUALITY CONTROL BOARD AT (909)782-4379, A MINIMUM OF FIVE DAYS PRIOR TO ANY DISCHARGE TO THE STORM DRAIN SYSTEM FOR PLANNED DISCHARGES, OR AS SOON AS POSSIBLE, FOR UNPLANNED DISCHARGES. DEWATERING OF CONTAMINATED GROUNDWATER, OR DISCHARGING CONTAMINATED SOILS VIA SURFACE EROSION IS PROHIBITED. IF POSSIBLE, ATTEMPT TO CONTAIN ALL WATER LINE FLUSHING WASTES IN A TEMPORARY PIT, ON SITE.

L. HAZARDOUS WASTE MANAGEMENT:

PROVIDE A DESIGNATED HAZARDOUS WASTE STORAGE AREA SUCH AS A TRAILER OR TEMPORARY SECONDARY CONTAINMENT AREA THAT IS PHYSICALLY SEPARATED FROM STORM WATER DRAINAGE CHANNELS. STORE HAZARDOUS WASTE IN SEALED AND LABELLED CONTAINERS. PROVIDE A SPILL CLEAN UP KIT AND TARPS FOR COVERING STOCKPILED MATERIALS WHEN RAIN IS PREDICTED. RELOCATE STORAGE AREA INTO TRAILER OR BUILDING SHELL WHEN POSSIBLE. INSPECT AREA WEEKLY. PREVENT THE DISCHARGE OF POLLUTANTS FROM HAZARDOUS WASTES TO THE DRAINAGE SYSTEM BY TRAINING EMPLOYEES AND SUBCONTRACTORS ON PROPER MATERIALS USE, LABELING, STORAGE, CLEAN UP, AND WASTE DISPOSAL.

HAZARDOUS WASTES COMMONLY FOUND ON CONSTRUCTION SITES INCLUDE, BUT ARE NOT LIMITED TO: PVC PIPE GLUES, WOOD STAINS AND PRESERVATIVES, LIME AND CONCRETE CURING COMPOUNDS, BATTERY FLUIDS, WASTE OIL, FUEL, ASBESTOS, OIL BASED AND LEAD BASED PAINTS, SOLVENTS, ASPHALT AND OTHER PETROLEUM BASED PRODUCTS, FERTILIZERS, HERBICIDES AND PESTICIDES, AND SOME SOIL STABILIZATION PRODUCTS.

M. PROHIBITED DISCHARGES:

THE FOLLOWING DISCHARGES INTO THE STORM DRAIN SYSTEM ARE PROHIBITED: DISCHARGES THAT COULD HAVE AN IMPACT ON HUMAN HEALTH AND THE ENVIRONMENT, CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR NUISANCE; DISCHARGES THAT EXCEED ANY WATER QUALITY STANDARD CONTAINED IN THE STATEWIDE WATER QUALITY CONTROL PLAN OR LOCAL BASIN PLAN; AND DISCHARGES CONTAINING A HAZARDOUS SUBSTANCE EQUAL TO OR IN EXCESS OF A REPORTABLE QUANTITY LISTED IN THE FEDERAL REGULATIONS 40 CFR PARTS 117 AND 302.

MATERIALS THAT CAN CAUSE OR CONTRIBUTE TO POLLUTION OR A VIOLATION OF ANY APPLICABLE WATER QUALITY STANDARD INCLUDE, BUT ARE NOT LIMITED TO: SEDIMENTS, CONTAMINATED SOIL, SOLID OR LIQUID CHEMICAL SPILLS; WASTES FROM PAINTS, STAINS, SEALANTS, GLUES, LIMES, PESTICIDES OR HERBICIDES, WOOD PRESERVATIVES OR SOLVENTS; ASBESTOS FIBERS, PAINT FLAKES OR STUCCO FRAGMENTS; FUELS, OILS, LUBRICANTS, OR HYDRAULIC, RADIATOR AND BATTERY FLUIDS; FERTILIZERS; VEHICLE/EQUIPMENT WASHWATER OR CONCRETE WASH WATER; CONCRETE, DETERGENT OR FLOATABLE WASTES; WASTES FROM ANY ENGINE/EQUIPMENT STEAM CLEANING OR CHEMICAL DEGREASING;

CONTAMINATED GROUNDWATER AND CHLORINATED POTABLE WATER LINE FLUSHING.