

## City of Savage Construction Site Pollution Prevention Notes

March 2016

### SEDIMENT CONTROL

1. NO EARTHWORK ACTIVITIES MAY COMMENCE UNTIL SEDIMENT CONTROL BMP INSTALLATION HAS BEEN INSPECTED AND APPROVED BY THE CITY. SEDIMENT CONTROL BMPS MUST BE INSTALLED CONSISTENT WITH THE CITY-APPROVED PLAN. THE CONTRACTOR MUST CONTACT THE CITY OF SAVAGE ENGINEERING DEPARTMENT AT 952-882-2671 FOR A SITE INSPECTION. CLEARING AND GRUBBING MAY BE PERFORMED PRIOR TO BMP INSTALLATION.
2. STORM DRAIN INLETS MUST BE PROTECTED FROM SEDIMENT INTRUSION WITH APPROPRIATE BMPS.
3. NEW CATCH BASINS MUST HAVE INLET PROTECTION INSTALLED WITHIN 24 HOURS OF INSTALLATION OF CURB AND GUTTER.
4. TEMPORARY SOIL STOCKPILES MUST HAVE EFFECTIVE PERIMETER SEDIMENT CONTROLS. STOCKPILES CAN NOT BE PLACED IN NATURAL BUFFERS OR SURFACE WATERS, INCLUDING STORMWATER CONVEYANCES, UNLESS A BYPASS IS IN PLACE. THIS IS A REQUIREMENT REGARDLESS OF SOIL TYPE.
5. SEDIMENT TRACKED ONTO PUBLIC STREETS MUST BE CLEANED AT THE END OF EACH WORK DAY AND PRIOR TO A RAIN EVENT AND AS NEEDED TO MINIMIZE ROAD HAZARD OR NUISANCE.
6. ALL SEDIMENT CONTROL INSTALLATIONS SHALL REMAIN IN PLACE AND MAINTAINED IN GOOD CONDITION TO THE SATISFACTION OF THE CITY ENGINEER UNTIL THE SITE HAS BEEN STABILIZED; AT WHICH TIME IT SHALL BE REMOVED.
7. SEDIMENT CONTROL BMPS MAY BE TEMPORARILY REMOVED IF REQUIRED TO ACCOMMODATE SHORT-TERM ACTIVITIES. HOWEVER, THE BMPS MUST BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE SHORT-TERM ACTIVITIES. BMPS MUST BE RE-ESTABLISHED BEFORE THE NEXT RAIN EVENT, EVEN IF THE SHORT-TERM ACTIVITIES ARE NOT COMPLETED.
8. ALL SEDIMENT CONTAINMENT FEATURES (TRACKING PADS, SILT FENCES, ETC) SHALL BE CLEANED OUT WHEN 1/2 OF THE CAPACITY IS DIMINISHED.
9. IF DOWN GRADIENT SEDIMENT CONTROLS ARE OVERLOADED (IDENTIFIED BY FREQUENT FAILURE OR EXCESSIVE MAINTENANCE REQUIREMENT) ADDITIONAL UPGRADIENT BMPS MUST BE INSTALLED. THE EMSC PLAN MUST BE UPDATED TO REFLECT THESE CHANGES.
10. BMPS MUST BE REMOVED UPON FREEZE UP TO REDUCE THE POTENTIAL FOR STREET FLOODING. THE INLET PROTECTION MUST BE RE-INSTALLED AT THE END OF WINTER BEFORE THE NEXT RAIN EVENT.
11. UNLESS INFEASIBLE DUE TO LACK OF PERVIOUS OR VEGETATED AREAS, DISCHARGES FROM BMPS MUST BE DIRECTED TO THESE AREAS TO INCREASE SEDIMENT REMOVAL AND MAXIMIZE INFILTRATION. VELOCITY DISSIPATION MUST BE PROVIDED, IF NECESSARY, TO MINIMIZE EROSION.
12. SILT FENCES, AND OTHER SYNTHETIC SEDIMENT CONTROL FEATURES, SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE BUT NOT BEFORE THE UPWARD SLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
13. ANY SEDIMENT REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER FABRIC IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE AND PREPARED AND SEEDED WITH THE APPROPRIATE SEED MIX, AS DIRECTED BY THE ENGINEER.
14. FROZEN OR SNOW-COVERED GROUND DOES NOT NEGATE THE REQUIREMENT FOR SEDIMENT CONTROL BMPS.
15. IF CHEMICAL SEDIMENTATION PRODUCTS, SUCH AS FLOCCULANTS OR POLYMERS, ARE TO BE USED, THE FOLLOWING MINIMUM REQUIREMENTS MUST BE FOLLOWED:
  - A. TRADITIONAL EMSC MUST BE EMPLOYED PRIOR TO CHEMICAL ADDITION TO ENSURE EFFECTIVE TREATMENT.

- B. CHEMICALLY TREATED WATER MUST BE DIRECTED TO A SEDIMENTATION OR FILTRATION TREATMENT TO REMOVE THE FLOC BEFORE DISCHARGE.
- C. CHEMICALS SELECTED MUST APPROPRIATE FOR THE EXPECTED SOIL TYPES, TURBIDITY, PH AND FLOW RATE.
- D. CHEMICALS MUST BE USED CONSISTENT WITH ACCEPTED ENGINEERING PRACTICES, WITH DESIGN AND DOSING AS RECOMMENDED BY THE CHEMICAL SUPPLIER.

**EROSION MINIMIZATION**

- 16. THE SPECIFIED CLASS AND QUANTITY OF RIPRAP OR OTHER CITY OF SAVAGE-APPROVED ENERGY DISSIPATION MUST BE INSTALLED AT ALL PIPE OUTLETS WITHIN 24 HOURS OF CONNECTION.
- 17. ALL SLOPES IN EXCESS OF 10 PERCENT WILL BE HORIZONTALLY TRACKED OR ROUGH GRADED AT THE END OF EACH WORKING DAY. FOR SHORTER SLOPES (LESS THAN 50' FROM TOP TO BOTTOM), SLOPE TRACKING CAN BE REPLACED WITH 2" TO 6" RIDGE CUTS ACROSS THE SLOPE AT INTERVALS OF ≤ 20'.
- 18. IN THOSE AREAS WHERE WOOD FIBER BLANKET OR OTHER SLOPE STABILIZATION METHODS HAVE FAILED, THE SLOPE SHALL BE RE-ESTABLISHED, SEED AND TOPSOIL REPLACED, AND ADDITIONAL SLOPE TREATMENT INSTALLED.
- 19. FROZEN OR SNOW-COVERED GROUND DOES NOT NEGATE THE REQUIREMENT FOR EROSION MINIMIZATION BMPS.
- 20. THE CONTRACTOR SHALL SCHEDULE SITE GRADING, UTILITY INSTALLATION AND ROADWAY CONSTRUCTION SO THAT THE GENERAL SITE CAN BE MULCHED AND RESEEDED SOON AFTER DISTURBANCE.
- 21. STABILIZATION TIMING
  - A. FOR DISTURBANCES OF 1 ACRE OR MORE - STABILIZATION OF DISTURBED AREAS, INCLUDING STOCKPILES, MUST BE INITIATED IMMEDIATELY IN AREAS IN WHICH WORK WILL NOT RESUME WITHIN 14 CALENDAR DAYS. STABILIZATION MUST BE COMPLETED IN 14 DAYS IN AREAS IN WHICH CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORARILY STOPPED.
  - B. FOR DISTURBANCES OF 1 ACRE OR MORE THAT DISCHARGE TO A SPECIAL OR IMPAIRED WATER AND ARE WITHIN 1 AERIAL MILE OF THAT SPECIAL OR IMPAIRED WATER, THE STABILIZATION REQUIREMENT IDENTIFIED ABOVE MUST BE COMPLETED WITHIN 7 DAYS.
  - C. FOR DISTURBANCES OF LESS THAN 1 ACRE - STABILIZATION OF DISTURBED AREAS, INCLUDING STOCKPILES, MUST BE COMPLETED IN 14 DAYS IN AREAS IN WHICH CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORARILY STOPPED.
- 22. PUBLIC WATERS THAT THE MINNESOTA DEPARTMENT OF NATURAL RESOURCES HAS PROMULGATED "WORK IN WATER RESTRICTIONS" MUST COMPLY WITH PART IV.B.2 OF THE NPDES CONSTRUCTION STORMWATER PERMIT.
- 23. THE NORMAL WETTED PERIMETER OF ANY TEMPORARY OR PERMANENT DRAINAGE DITCH OR SWALE THAT DRAINS WATER FROM ANY PORTION OF THE CONSTRUCTION SITE, OR DIVERTS WATER AROUND THE SITE, WITHIN 200 LINEAL FEET OF THE PROPERTY EDGE, OR FROM THE POINT OF DISCHARGE TO ANY SURFACE WATER MUST BE STABILIZED. STABILIZATION OF THE LAST 200 LINEAL FEET MUST BE COMPLETED WITHIN 24 HOURS AFTER CONNECTING TO A SURFACE WATER OR PROPERTY EDGE.
  - A. THIS TIMING RESTRICTION DOES NOT APPLY TO TEMPORARY OR PERMANENT DRAINAGE DITCHES OR SWALES THAT ARE BEING USED FOR SEDIMENT CONTAINMENT.
  - B. APPLYING MULCH, HYDROMULCH, TACKIFIER, POLYACRYLAMIDE, OR SIMILAR EROSION MINIMIZATION PRACTICE IS NOT ACCEPTABLE STABILIZATION FOR THIS SITUATION.

**DEWATERING ACTIVITIES**

- 20. DEWATERING REQUIRES TREATMENT. DISCHARGE OF SEDIMENT-LADEN OR OTHERWISE CONTAMINATED, WATER FROM THE SITE IS NOT ALLOWED.
- 21. OFF-SITE DISCHARGE MUST NOT CAUSE EROSION OR NUISANCE CONDITIONS.

22. IF FILTERS WITH BACKWASH WATER ARE BEING USED, THE BACKWASH WATER MUST BE HAULED AWAY FOR DISPOSAL, RETURNED TO THE BEGINNING OF THE TREATMENT PROCESS OR INCORPORATED INTO THE SITE IN A MANNER THAT DOES NOT CAUSE EROSION.

**INSPECTION AND DOCUMENTATION(FOR DISTURBANCES OF 1 ACRE OR MORE)**

23. ALL EROSION MINIMIZATION AND SEDIMENT CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY 7 DAYS AND WITHIN 24 HOURS OF ANY RAIN EVENT OF 0.5 INCHES OR MORE.
24. ALL EROSION AND SEDIMENT CONTROL INSPECTIONS SHALL BE DOCUMENTED TO INCLUDE DATE AND TIME, NAME OF INSPECTOR, WEATHER CONDITIONS, ITEMS INSPECTED, RESULTS OF INSPECTION AND RESPONSE TO DEFICIENCIES.
25. DAILY RAINFALL EVENTS MUST BE RECORDED.
26. INSPECTIONS MUST BE ON A FORM PROVIDED BY THE CITY OF SAVAGE.
27. INSPECTOR QUALIFICATIONS  
INSPECTIONS MUST BE PERFORMED AND DOCUMENTED BY AN INDIVIDUAL TRAINED CONSISTENT WITH THE REQUIREMENTS OF NPDES CONSTRUCTION STORMWATER PERMIT PART III.F.
28. INSPECTIONS AND DOCUMENTATION REQUIRED BY THE CITY OF SAVAGE DOES NOT REPLACE OR SUPERSEDE NPDES REQUIREMENTS OF THE NPDES PERMITTEE.
29. ADJUSTMENT OF INSPECTION FREQUENCY MAY BE APPROPRIATE DUE TO CLOSURE OF A PORTION OF THE SITE OR SUSPENSION OF ACTIVITY FOR WINTER OR OTHER CONDITIONS. AN ADJUSTMENT IN INSPECTION FREQUENCY MUST BE REQUESTED IN WRITING, AND IS NOT EFFECTIVE UNTIL APPROVED.
30. INSPECTIONS MUST CONTINUE UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED WITH ESTABLISHMENT OF PERMANENT VEGETATION OR PERMANENT HARD SURFACE. ONCE CITY-REQUIRED INSPECTIONS HAVE CEASED, NPDES PERMITTEES MUST CONTINUE INSPECTIONS ACCORDING TO THE NPDES REQUIREMENTS.
31. ALL INFILTRATION AREAS MUST BE INSPECTED TO ENSURE THAT, IF EXCAVATED TO FINAL GRADE, THE PRACTICE IS PROTECTED FROM SEDIMENT ACCUMULATION. EQUIPMENT CANNOT DRIVE THROUGH THE PRACTICE AND COMPACT THE SOIL.

**POLLUTION PREVENTION PRACTICES**

IN ADDITION TO SAVAGE CITY CODE TITLE I, CHAPTER 95.02 (PUBLIC NUISANCES AFFECTING HEALTH), AND TITLE XV, CHAPTER 152.542(STORMWATER AND URBAN RUNOFF POLLUTION CONTROL) THE FOLLOWING MEASURES MUST BE FOLLOWED IN THE CITY OF SAVAGE.

32. CONSTRUCTION PRODUCTS, MATERIALS AND WASTES MUST BE STORED, HANDLED AND DISPOSED TO MINIMIZE EXPOSURE TO STORMWATER.
33. PESTICIDES, HERBICIDES, INSECTICIDES, FERTILIZERS TREATMENT CHEMICALS AND LANDSCAPE MATERIALS MUST BE STORED UNDER COVER OR SIMILAR MEANS.
34. HAZARDOUS MATERIALS, TOXIC WASTE, (INCLUDING OIL, DIESEL FUEL, GASOLINE, HYDRAULIC FLUIDS, PAINT SOLVENTS, PETROLEUM-BASED PRODUCTS, WOOD PRESERVATIVES, ADDITIVES, CURING COMPOUNDS, AND ACIDS) MUST BE PROPERLY STORED IN SEALED CONTAINERS TO PREVENT SPILLS, LEAKS OR OTHER DISCHARGE. RESTRICTED ACCESS STORAGE AREAS MUST BE PROVIDED TO PREVENT VANDALISM. STORAGE AND DISPOSAL OF HAZARDOUS WASTE OR HAZARDOUS MATERIALS MUST BE IN COMPLIANCE WITH MINN. R. CH. 7045 INCLUDING SECONDARY CONTAINMENT AS APPLICABLE.
35. MANAGEMENT OF SOLID WASTES MUST BE CONSISTENT WITH STATE REQUIREMENTS.
36. PORTABLE TOILETS MUST BE POSITIONED SO THAT THEY ARE SECURE AND WILL NOT BE TIPPED OR KNOCKED OVER. SANITARY WASTE MUST BE DISPOSED OF CONSISTENT WITH STATE REQUIREMENTS.

37. FUELING AND MAINTENANCE OF EQUIPMENT OR VEHICLES; SPILL PREVENTION AND RESPONSE: ALL REASONABLE STEPS MUST BE TAKEN TO PREVENT THE DISCHARGE OF SPILLED OR LEAKED CHEMICALS, INCLUDING FUEL, FROM ANY AREA WHERE CHEMICALS OR FUEL WILL BE LOADED OR UNLOADED INCLUDING THE USE OF DRIP PANS OR ABSORBENTS UNLESS INFEASIBLE. FUELING MUST BE CONDUCTED IN A CONTAINED AREA UNLESS INFEASIBLE. ADEQUATE SUPPLIES MUST BE AVAILABLE AT ALL TIMES TO CLEAN UP DISCHARGED MATERIALS AND AN APPROPRIATE DISPOSAL METHOD MUST BE AVAILABLE FOR RECOVERED SPILLED MATERIALS. SPILLS MUST BE REPORTED AND CLEANED UP IMMEDIATELY AS REQUIRED BY MINN. STAT. § 115.061, USING DRY CLEAN UP MEASURES WHERE POSSIBLE.
38. VEHICLE AND EQUIPMENT WASHING: IF THE EXTERIOR OF VEHICLES OR EQUIPMENT IS WASHED ON THE PROJECT SITE, WASHING MUST BE LIMITED TO A DEFINED AREA OF THE SITE. RUNOFF FROM THE WASHING AREA MUST BE CONTAINED IN A SEDIMENT BASIN OR OTHER SIMILARLY EFFECTIVE CONTROLS AND WASTE FROM THE WASHING ACTIVITY MUST BE PROPERLY DISPOSED OF. SOAPS, DETERGENTS, AND SOLVENTS MUST PROPERLY USED AND STORED.
39. NO ENGINE DEGREASING IS ALLOWED ON SITE.
40. CONCRETE AND OTHER WASHOUTS WASTE: THE PERMITTEE(S) MUST PROVIDE EFFECTIVE CONTAINMENT FOR ALL LIQUID AND SOLID WASTES GENERATED BY WASHOUT OPERATIONS (CONCRETE, STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS) RELATED TO THE CONSTRUCTION ACTIVITY. THE LIQUID AND SOLID WASHOUT WASTES MUST NOT CONTACT THE GROUND, AND THE CONTAINMENT MUST BE DESIGNED SO THAT IT DOES NOT RESULT IN RUNOFF FROM THE WASHOUT OPERATIONS OR AREAS. LIQUID AND SOLID WASTES MUST BE DISPOSED OF PROPERLY AND IN COMPLIANCE WITH MPCA RULES. A SIGN MUST BE INSTALLED ADJACENT TO EACH WASHOUT FACILITY THAT REQUIRES SITE PERSONNEL TO UTILIZE THE PROPER FACILITIES FOR DISPOSAL OF CONCRETE AND OTHER WASHOUT WASTES.

**MISC**

41. CONTRACTOR MUST CONTACT THE CITY OF SAVAGE PUBLIC WORKS DEPARTMENT AT 952-224-3400 TO SCHEDULE AN INSPECTION 48 HOURS PRIOR TO HOOKUP OF SANITARY SEWER AND WATERMAIN SERVICES.
42. CONTRACTOR MUST CONTACT THE CITY OF SAVAGE ENGINEERING DEPARTMENT AT 952-882-2671 TO SCHEDULE AN INSPECTION 48 HOURS PRIOR TO HOOKUP TO PUBLIC STORM SEWER.
43. CONTRACTOR MUST VERIFY NPDES COVERAGE PRIOR TO ANY EARTH DISTURBING ACTIVITY. ALL DISTURBED WETLAND BUFFER AREAS SHALL BE RESTORED ACCORDING TO CITY OF SAVAGE-APPROVED SPECIFICATIONS.
44. SUFFICIENT TOPSOIL SHALL BE STOCKPILED TO ALLOW FOR THE REPLACEMENT OF A MINIMUM OF 6" OF TOPSOIL FOR DISTURBED AREAS TO BE REVEGETATED.
45. SOIL COMPACTION MUST BE MINIMIZED UNLESS REQUIRED.