

BELMONT SOIL & WATER CONSERVATION DISTRICT
Erosion & Sediment Control Site Checklist
FOR CONSTRUCTION SITES

Date _____
Project _____ NPDES Permit # _____
Location _____ Developer _____
Engineer _____ Contractor _____

INSPECTION SHEET

Inspections must be conducted once every 7 days and within 24 hours of a 0.5" or greater rainfall. All sediment controls must be installed prior to grading and within 7 days of first grubbing.

TEMPORARY STABILIZATION

Key things to look for...

- ___ Are there any areas of the site that are disturbed, but will likely lie dormant for over 21 days?
- ___ Have all dormant, disturbed areas been temporarily stabilized in their entireties?
- ___ Have disturbed areas outside the silt fence been seeded or mulched?
- ___ Have soil stockpiles that will sit for over 21 days been stabilized?
- ___ Has seed and mulch been applied at the proper rate? In general, seed is applied at 3 to 5 lbs per 1000 sq ft and straw mulch is applied at 2-3 bales per 1000 sq ft.
- ___ Has seed or mulch blown away? If so, repair.

Note areas where repairs or maintenance is needed or where this practice needs to be applied:

CONSTRUCTION ENTRANCES

Key things to look for...

- ___ Has the drive been constructed by placing geotextile fabric under the stone?
- ___ Is the stone 2-inch diameter?
- ___ Has the stone been placed to a depth of 6 inches, with a width of 10 feet and a length of at least 50 feet (30 feet for entrances onto individual sublots)?
- ___ If the drive is placed on a slope, has a diversion berm been constructed across the drive to divert runoff away from the street or water resource?
- ___ If drive is placed across a ditch, was a culvert pipe used to allow runoff to flow under the drive?

Note areas where repairs or maintenance is needed or where this practice needs to be applied:

SEDIMENT PONDS

Key things to look for...

- ___ Are concentrated flows of runoff directed to a sediment pond?
- ___ Is sheet-flow runoff from drainage areas that exceed the design capacity of silt fence (generally 0.25 acre or larger) directed to a sediment pond?
- ___ Is runoff being collected and directed to the sediment pond via the storm sewer system or via a network of diversion berms and channels?
- ___ Is the sediment pond appropriately sized (67 cubic yards per acre of total drainage area)?
- ___ Have the embankments of the sediment pond and the areas that lie downstream of the pond been stabilized?
- ___ For sediment basins that dewater 100% between storms, is the riser pipe wrapped with chicken wire and double wrapped with geotextile fabric? Does the riser have 1-inch diameter holes spaced 4 inches apart, both horizontally and vertically? For sediment basins, which dewater 60% between storms, is the diameter of the dewatering hole per plan (see page 105 of Rainwater manual)?
- ___ For sediment traps, is there geotextile under the stone spillway and is the spillway saddle-shaped? For sediment traps, which dewater 100% between storms, is the dewatering pipe end-capped, no larger than 6 inches in diameter, perforated and double-wrapped in geotextile?
- ___ Is the length-to-width ratio between inlet(s) and outlet at least 2:1? NOTE: If not, a baffle should be added to lengthen the distance.
- ___ Is the depth from the bottom of the basin to the top of the primary spillway no more than 3 to 5 feet?
- ___ For a modified storm water pond being used as a sediment pond, is the connection between the riser pipe and the permanent outlet water-tight? Was the basin installed prior to grading the site?
- ___ Is it time to clean-out the sediment pond to restore its original capacity? Generally, sediment should be removed once the pond is half-full. Stabilize the dredged sediments with seed and mulch.

Note areas where repairs or maintenance is needed or where this practice needs to be applied:

SILT FENCE

Key things to look for...

- ___ Is the fence at least 4" to 6" into the ground?
- ___ Is the trench backfilled to prevent runoff from cutting underneath the fence?
- ___ Is the fence pulled tight so it won't sag when water builds up behind it?
- ___ Are the ends brought upslope of the rest of the fence so as to prevent runoff from going around the ends?
- ___ Is the fence placed on a level contour? If not, the fence will only act as a diversion.
- ___ Have all the gaps and tears in the fence been eliminated.

_____ Is the fence controlling an appropriate drainage area? Refer to page 119 of Rainwater manual. **RULE OF THUMB:** Design capacity for 100 linear feet of silt fence is 0.5 acres for slopes < 2%, 0.25 acres for slopes 2% to 20%, & 0.125 acres for slopes 20% or more. Generally, no more than 0.25 acres should lie behind 1—feet of fence at 2% to 10% slope, i.e., the distance between the fence and the top of the slope behind it should be no more than 125 feet. The allowable distance increases on flatter slopes and decreases for steeper slopes.

Note areas where repairs or maintenance is needed or where this practice needs to be applied:

SILT FENCE

Key things to look for...

- _____ Does water pond around the inlet when it rains?
- _____ Has the fabric been replaced when it develops tears or sags?
- _____ For curb inlet protection, does the fabric cover the entire grate, including the curb window?
For yard inlet protection, does the structure encircle the entire grate?
- _____ Is the fabric properly entrenched or anchored so that water passes through it and not under it?
- _____ For yard inlet protection, is the fabric properly supported to withstand the weight of water and prevent sagging? The fabric should be supported by a wood frame with cross braces, or straw bales.
- _____ Is sediment that has accumulated around the inlet removed on a regular basis?

Note areas where repairs or maintenance is needed or where this practice needs to be applied:

PERMANENT STABILIZATION

Key things to look for...

- _____ Are any areas at final grade?
- _____ Has the soil been properly prepared to accept permanent seeding?
- _____ Has seed and mulch been applied at the appropriate rate (see page 169 of the *Rainwater* manual)?
- _____ If rainfall has been inadequate, are seeded areas being watered?
- _____ For drainage ditches where flow velocity exceeds 3.5 ft/s from a 10-year, 24-hour storm has matting been applied to the ditch bottom? If the flow velocity exceeds 5.0 ft/s, has the ditch bottom been stabilized with rock rip-rap? **NOTE:** Rock check dams may be needed to slow the flow of runoff.
- _____ Has rock rip-rap been placed under all storm water outfall pipes to prevent scouring in the receiving stream or erosion of the receiving channel?
- _____ For sites with steep slopes or fill areas, is runoff from the top of the site conveyed to the bottom of the slope or fill area in a controlled manner so as not to cause erosion?

Note areas where repairs or maintenance is needed or where this practice needs to be applied:

NON-SEDIMENT POLLUTION CONTROL

Key things to look for...

- ___ Has an area been designated for washing out concrete trucks? Washings must be contained on site within a bermed area until they harden. The washings should never be directed toward a watercourse, ditch or storm drain.
- ___ Is waste and packaging disposed of in a dumpster? Do not burn them on site.
- ___ Are fuel tanks and drums of toxic and hazardous materials stored within a diked area or trailer and away from any watercourse, ditch or storm drain?
- ___ Are streets swept as often as necessary to keep them clean and free from sediment?
NOTE: Sediment should be swept back onto the lot **not down the storm sewers.**
- ___ Are stockpiles of soil or other materials stored away from any watercourse, ditch or storm drain?
- ___ Have stream crossings been constructed entirely of non-erodible material?
- ___ If an area of the site is being dewatered, is it being pumped from a sump pit and is the discharge directed to a sediment pond? **NOTE:** If you must lower ground water, the water may be discharged to the receiving stream as long as the water remains clean. Be sure not to co-mingle the clean ground water with sediment-laden water or to discharge it off-site by passing it over disturbed ground.