

Module 9: Erosion and Sediment Control Measures

9a. ESC Narrative Review Checklist	1
9b. ESC Site Plan Review.....	2
ESC Narrative and Site Plan Review Checklist Form.....	3-4

Objective: This module will enable participants to review an example site plan with the aid of ESC narrative and site plan checklists of required items.

Instructor-led class discussions will follow.

CHECKLIST**FOR EROSION AND SEDIMENT CONTROL PLANS**

_____ **Minimum Standards** - All applicable Minimum Standards must be addressed.

NARRATIVE

_____ **Project description** - Briefly describes the nature and purpose of the land-disturbing activity, and the area (acres) to be disturbed.

_____ **Existing site conditions** - A description of the existing topography, vegetation and drainage.

_____ **Adjacent areas** - A description of neighboring areas such as streams, lakes, residential areas, roads, etc., which might be affected by the land disturbance.

_____ **Off-site areas** - Describe any off-site land-disturbing activities that will occur (including borrow sites, waste or surplus areas, etc.). Will any other areas be disturbed?

_____ **Soils** - A brief description of the soils on the site giving such information as soil name, mapping unit, erodibility, permeability, depth, texture and soil structure.

_____ **Critical areas** - A description of areas on the site which have potentially serious erosion problems (e.g., steep slopes, channels, wet weather/underground springs, etc.).

_____ **Erosion and sediment control measures** - A description of the methods which will be used to control erosion and sedimentation on the site. (Controls should meet the specifications in Chapter 3.)

_____ **Permanent stabilization** - A brief description, including specifications, of how the site will be stabilized after construction is completed.

_____ **Stormwater runoff considerations** - Will the development site cause an increase in peak runoff rates? Will the increase in runoff cause flooding or channel degradation downstream? Describe the strategy to control stormwater runoff.

_____ **Calculations** - Detailed calculations for the design of temporary sediment basins, permanent stormwater detention basins, diversions, channels, etc. Include calculations for pre- and post-development runoff.

Checklist (continued)

SITE PLAN

- _____ Vicinity map - A small map locating the site in relation to the surrounding area. Include any landmarks which might assist in locating the site.
- _____ Indicate north - The direction of north in relation to the site.
- _____ Limits of clearing and grading - Areas which are to be cleared and graded.
- _____ Existing contours - The existing contours of the site.
- _____ Final contours - Changes to the existing contours, including final drainage patterns.
- _____ Existing vegetation - The existing tree lines, grassed areas, or unique vegetation.
- _____ Soils - The boundaries of different soil types.
- _____ Existing drainage patterns - The dividing lines and the direction of flow for the different drainage areas. Include the size (acreage) of each drainage area.
- _____ Critical erosion areas - Areas with potentially serious erosion problems. (See Chapter 6 for criteria.)
- _____ Site Development - Show all improvements such as buildings, parking lots, access roads, utility construction, etc.
- _____ Location of practices - The locations of erosion and sediment controls and stormwater management practices used on the site. Use the standard symbols and abbreviations in Chapter 3 of this handbook.
- _____ Off-site areas - Identify any off-site land-disturbing activities (e.g., borrow sites, waste areas, etc.). Show location of erosion controls. (Is there sufficient information to assure adequate protection and stabilization?)
- _____ Detail drawings - Any structural practices used that are not referenced to the E&S handbook or local handbooks should be explained and illustrated with detail drawings.
- _____ Maintenance - A schedule of regular inspections and repair of erosion and sediment control structures should be set forth.

CHECKLIST**FOR EROSION AND SEDIMENT CONTROL PLANS**

_____ **Minimum Standards** - All applicable Minimum Standards must be addressed.

NARRATIVE

_____ **Project description** - Briefly describes the nature and purpose of the land-disturbing activity, and the area (acres) to be disturbed.

_____ **Existing site conditions** - A description of the existing topography, vegetation and drainage.

_____ **Adjacent areas** - A description of neighboring areas such as streams, lakes, residential areas, roads, etc., which might be affected by the land disturbance.

_____ **Off-site areas** - Describe any off-site land-disturbing activities that will occur (including borrow sites, waste or surplus areas, etc.). Will any other areas be disturbed?

_____ **Soils** - A brief description of the soils on the site giving such information as soil name, mapping unit, erodibility, permeability, depth, texture and soil structure.

_____ **Critical areas** - A description of areas on the site which have potentially serious erosion problems (e.g., steep slopes, channels, wet weather/underground springs, etc.).

_____ **Erosion and sediment control measures** - A description of the methods which will be used to control erosion and sedimentation on the site. (Controls should meet the specifications in Chapter 3.)

_____ **Permanent stabilization** - A brief description, including specifications, of how the site will be stabilized after construction is completed.

_____ **Stormwater runoff considerations** - Will the development site cause an increase in peak runoff rates? Will the increase in runoff cause flooding or channel degradation downstream? Describe the strategy to control stormwater runoff.

_____ **Calculations** - Detailed calculations for the design of temporary sediment basins, permanent stormwater detention basins, diversions, channels, etc. Include calculations for pre- and post-development runoff.

Checklist (continued)

SITE PLAN

- _____ Vicinity map - A small map locating the site in relation to the surrounding area. Include any landmarks which might assist in locating the site.
- _____ Indicate north - The direction of north in relation to the site.
- _____ Limits of clearing and grading - Areas which are to be cleared and graded.
- _____ Existing contours - The existing contours of the site.
- _____ Final contours - Changes to the existing contours, including final drainage patterns.
- _____ Existing vegetation - The existing tree lines, grassed areas, or unique vegetation.
- _____ Soils - The boundaries of different soil types.
- _____ Existing drainage patterns - The dividing lines and the direction of flow for the different drainage areas. Include the size (acreage) of each drainage area.
- _____ Critical erosion areas - Areas with potentially serious erosion problems. (See Chapter 6 for criteria.)
- _____ Site Development - Show all improvements such as buildings, parking lots, access roads, utility construction, etc.
- _____ Location of practices - The locations of erosion and sediment controls and stormwater management practices used on the site. Use the standard symbols and abbreviations in Chapter 3 of this handbook.
- _____ Off-site areas - Identify any off-site land-disturbing activities (e.g., borrow sites, waste areas, etc.). Show location of erosion controls. (Is there sufficient information to assure adequate protection and stabilization?)
- _____ Detail drawings - Any structural practices used that are not referenced to the E&S handbook or local handbooks should be explained and illustrated with detail drawings.
- _____ Maintenance - A schedule of regular inspections and repair of erosion and sediment control structures should be set forth.