Erosion and Sediment Control Plans (see checklist – next page)

ESC plans must be prepared in accordance with LFUCG Ordinances, the Stormwater Manual, and Engineering Standard Drawings. Engineered components must be prepared by a KY PE. ESC Plans must be implemented. ESC plans must include (LFUCG Erosion and Sediment Control Ordinance: Sec. 16-101):

- A description of the project, including purpose, location, and size of disturbed area
- Topography, land cover, soils, percent impervious area, before/after drainage patterns
- Land use and land cover conditions of adjacent property
- Schedule of work, beginning/end dates, sequencing (clearing, grading, revegetation)
- List of ESC BMPs, including location, installation schedule, rationale
- List of stormwater pollution control practices for non-sediment pollutants
- Discussion of inspection, maintenance, and BMP repair activities
- Site map showing areas of disturbance, BMP locations, utilities, pavement construction entrance(s), streams, wetlands, sinkholes, basins/ponds, culverts, and storm inlets
- 50 foot natural vegetation buffer must be maintained around streams, wetlands, sinkholes, etc.
- Must minimize the area and length of any disturbance in the buffer zone
- Must post a copy of the LDP at the work site in a conspicuous location
- Revise the plan if there are significant changes; PE must OK changes to engineered items

LFUCG Erosion and Sediment Control Plan Review Steps (see checklist)

- Look over the ESC Plan Review Checklist to ensure that the required items are included.
- Get a sense of the topography of the site (slopes and drainage patterns), and note the existing land cover.
- Identify any critical areas (habitat, woodlands) and buffers (50 ft for streams, wetlands, sinkholes).
- Review the construction procedure/schedule, and identify any project phases (clearing, mass grading, etc.)
- See whether or not upgradient diversion berms or ditches are included, or needed (site run-on).
- Check downgradient perimeter / runoff protection (silt fence, fiber logs, rock berms, etc.).
- Evaluate ditch and channel construction and stabilization approach (seeding, mats/blankets, etc.)
- Look for ditch or pipe discharge areas where outlet protection / splash pads / armoring might be needed.
- Review protection approach for stormwater inlets at the site (drop, curb, pipe, etc.).
- Review sizing and criteria for sediment traps and basins (volume, stabilization, outlet protection, etc.)
- Look for post-construction BMPs and make sure there is appropriate sediment control protection.
- Ensure that any stream crossings have USACE CWA Sec. 404 permits and proper design.
- Identify site exits, and ensure proper stabilization (rock, geotextile, drainage to BMP onsite, etc.)
- Check housekeeping details – concrete washout, material storage, fuel/other tank locations, dust, etc.
- Look for standard notes on stabilization (after 14 inactive days, or immediately for ditches, traps, basins), inspections (weekly or every 14 days and after ½ inch of rain), keeping public roads clean (daily), use of blankets/mats (for ditches, channels, and slopes), protection for soil stockpiles (downgradient silt fence), protection for pollutant-leaching materials (tarp, etc.), keeping records at site (permits posted, ESC Plan and inspection reports available), removing temporary BMPs (as needed and upon completion).
<table>
<thead>
<tr>
<th>Permitting Information and ESC Plan Narrative</th>
<th>Yes</th>
<th>No</th>
<th>N/A</th>
<th>Page#</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>KY DOW Construction NOI / KYR10 Permit</td>
<td></td>
<td></td>
<td>N/A</td>
<td></td>
<td>Required for disturbance ≥ 1 acre</td>
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<tr>
<td>US ACE Section 404 Permit</td>
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<td>Required for stream crossings, wetland fills</td>
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<tr>
<td>KY DOW Stream Construction Permit / WQ Certif.</td>
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<td>Required for stream crossings / encroachment</td>
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<td>FEMA LOMR or CLOMR</td>
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<td>If applicable</td>
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<tr>
<td>Project description and purpose</td>
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<td>Brief summary</td>
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<td>Land cover, soils, percent impervious area</td>
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<td></td>
<td>Pre and post construction</td>
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<td>Land cover / land use of adjacent property</td>
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<td>Can designate on plan sheets</td>
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<tr>
<td>Work schedule with start/end dates</td>
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<td>Sequencing, clearing, grading, revegetation</td>
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<tr>
<td>Phasing plan for large projects</td>
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<td></td>
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<td>25 acre limit on total disturbed area</td>
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<td>BMP installation schedule</td>
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<td>Can be included on plan sheets (see below)</td>
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<tr>
<td>Inspection and BMP maintenance schedule</td>
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<td>Every 7 days, or every 14 days and after ½” rain</td>
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<tr>
<td>Material storage, waste &amp; litter pollution prevention</td>
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<td>Covered, away from drainage system, etc.</td>
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<tr>
<td>Fueling / vehicle maintenance pollution prevention</td>
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<td>Conducted away from drainage system, etc.</td>
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<tr>
<td>Spill prevention, control, and countermeasures</td>
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<td>If reportable quantities present at the site</td>
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<tr>
<td>Dust control plan</td>
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<td>Consider if neighbors are present</td>
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<tr>
<td>Stabilized site exit inspection plan</td>
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<td></td>
<td>For keeping offsite pavement clear of soil/debris</td>
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<tr>
<td>Stabilization plan and schedule for sites</td>
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<td></td>
<td></td>
<td></td>
<td>Seed/mulch/etc. within 14 days of inactivity</td>
</tr>
</tbody>
</table>

**ESC Plan Site Map and Drawing Detail** (See LFUCG Stormwater Manual for BMP Design and Installation Information)

- Plans stamped by a licensed professional
- Location of the project; property lines
- Limits of construction, disturbed area location/size
- Topography and drainage patterns (pre and post)
- Buildings, utilities, paved areas, ditches, culverts
- Retention ponds, detention basins, sediment traps
- Access and haul roads
- Stabilized exit (50 ft #2 rock pad, shaker rack, etc.)
- Silt fence or etc. at downslope perimeters
- Diversion ditches/berms above disturbed areas
- Protection for post-construction BMPs
- Slope stabilization (seed with mulch/blanket/mat)
- Outlet erosion protection measures
- Ditch stabilization (sod, or seed with blanket/mat)
- Sediment basins (> 5 ac) and traps (< 5 ac)
- Dewatering sites and methods
- 50 ft natural vegetated buffer for all critical areas
- Stream crossings
- Stockpile areas, equipment storage/fueling areas
- Waste and concrete wash water storage/disposal

**LFUCG Use Only:**

- **Review Date:**
- **Status – In Compliance:** Yes No
- **Additional Info Needed:** Yes No

- **Reviewed By:**
- **Department:** DOE DWQ DES

**Comments / Missing Items:**