

ESPCP GENERAL NOTES:
Updated: October 18, 2013
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The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities.

Erosion control measures will be maintained at all times. If full implementation of the approved plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source.

PLAN ALTERATIONS
 The Erosion Sedimentation and Pollution Control Plan (ESPCP) is provided by the Department. It addresses the staged construction of the project based on common construction methods and techniques. If the Contractor elects to alter the stage construction from that shown in the plans or utilize construction techniques that render this plan ineffective, the Contractor shall revise the plans in accordance to Special Provision 161 of the contract.

The Contractor, the Certified Design Professional and the WECS shall carefully evaluate this plan prior to commencing land disturbing activities. A major modification or deletion of structural BMP's with a hydraulic component requires a formal revision of the ESPCP and the signature of a GSWCC level-II-certified design professional. Additional BMP's may be added per Special Provision 161 - Control of Soil Erosion and Sedimentation.

TEMPORARY MULCHING
 EPD Genral Permit GARI00002 states that **"any disturbed area where construction activities have temporarily or permanently ceased shall be stabilized within 14 days of such cessation as soon as practicable with a suitable material listed in Standard Specification (or Special Provision) Sections 163,700, or 711."** However in special cases, the Project Engineer may require the contractor to perform stabilization more often than 14 days.

VEGETATION AND PLANTING SCHEDULE
 All temporary and permanent vegetative practices including plant species, planting dates, seeding fertilizer, lime and mulching rates for this project can be found in section 700 of the current edition of the Department's specifications (or Special Provisions) and other applicable contract documents, special provisions, or landscaping plans.

SEQUENCE OF MAJOR ACTIVITIES
 The Contractor is responsible for developing the construction schedule for the project. The construction schedule for this project shall be submitted with the NOI. A copy of the construction schedule shall be maintained at the project site.

The Initial BMP Installation is shown in the initial phase and this includes all perimeter silt fence controls. The silt fence shall be installed prior to clearing and grubbing operations. Intermediate and final BMP's are shown throughout all stages of the intermediate phase. The BMP's to be installed during these stages are additional silt fence due to temporary pavement, filter rings, sediment inlet traps, ditch checks, slope mats, rip rap, construction exits, temporary grassing, mulching, permanent grassing and temporary pipe slope drains. These BMP's shall be installed concurrently with mass grading operations with the exception of ditch checks, inlet traps and filter rings which should be installed prior to mass grading operations. During mass grading operations, runoff from disturbed area must be directed to sediment control BMP's. Sediment basins are not utilized at all outfalls due to adverse impacts of constructing and removing the basin. Final BMP's included in this project are rip rap, concrete ditch paving, grassing, and slope mats.

PETROLEUM STORAGE, SPILLS AND LEAKS
 These plans expressly delegate the responsibility of on-site hazardous material management to the Contractor. The Contractor shall at a minimum provide an action plan and keep the necessary materials on site for the capture, clean up and disposal of any petroleum product, or other hazardous materials leak or spills associated with the servicing, refueling or operation of any equipment utilized at the site. A copy of the action plan shall be submitted to the Project Engineer and maintained on the project site. All personnel operating or servicing equipment shall be familiar with the action plan. The Contractor shall not park, refuel or maintain equipment within stream buffers.
 If the Contractor elects to store petroleum products on site the Contractor shall prepare an ESPCP addendum that addresses the additional BMP's needed for on-site storage and spill prevention for petroleum products. This plan shall be prepared by a Certified Design Professional as required by GARI00002 for inclusion with these plans. The Contractor's attention is specifically directed to Standard Specification 107-Legal Regulations and Responsibility to the public for additional requirements.

SOIL SERIES INFORMATION
 A project specific soil survey and geotechnical investigation was performed for this project and can be made available upon request. Soil characteristics have been given full consideration in the hydrologic analysis, the design of channels and linings, selection of temporary BMP's, design of energy dissipaters, and the in the selection of permanent vegetation and fertilizers.

POST-CONSTRUCTION BMP'S
 All permanent, post-construction BMP's are shown in the construction plans and in the ESPCP plan. The post-construction BMP's for this project consist of vegetation, permanent slope drains and/or flumes, rip-rap at pipe outlets for velocity dissipation and outlet stabilization, vegetated swales/ditches where practical, channel/ditch stabilization with Turf Reinforcing Mats, rip-rap and concrete ditch lining where necessary. The post-construction BMP's will provide permanent stabilization of the site and prevent accelerated transportation of sediment and pollutants into receiving waters.

SILT FENCE INSTALLATIONS WITH J-HOOKS AND SPURS
 Silt fence should never be run continuously. The silt fence should turn back into the fill or slope to create small pockets that trap silt and force stormwater to flow through the silt fence. This technique is called using J hooks (or spurs). The J hooks shall be utilized on all silt fences that are located around the perimeter of the project and along the toe of embankments or slopes. The J hooks shall be spaced in accordance with GDOT Construction Detail D-24C. The maximum J-hook spacing is reached when the top of the J hook is at the same elevation as the bottom of the immediately upgradient J hook. J Hooks shall be paid for as silt fence items per linear foot. All costs and other incidental items are included in cost of installing and maintaining the silt fence.

SITE STABILIZATION AND BMP MAINTENANCE MEASURES
 See the Department's Standard Specifications (or Special Provisions) 161, 163, 165, 700, 710, and other contract documents for stabilization and maintenance measures.

WASTE DISPOSAL
 Where attainable, locate waste collection areas, dumpsters, trash cans and portable toilets at least 50 feet away from streets, gutters, watercourses and storm drains. Secondary containment shall be provided around liquid waste collection areas to minimize the likelihood of contaminated discharges. The Contractor shall comply with applicable state and local waste storage and disposal regulations and obtain all necessary permits. Solid materials, including building materials, shall not be discharged to Waters of the State, unless authorized by a Section 404 Permit.

INSPECTIONS
 The primary permittee (GDOT) must retain the design professional who prepared the ESPCP, or an alternative design professional approved by EPD in writing, to inspect the installation of the initial sediment storage requirements and perimeter control BMP's within seven (7) days of installation over the entire infrastructure project. Alternatively, for linear infrastructure projects, the permittee must retain either of these personnel to inspect the initial sediment storage requirements and perimeter control BMP's for the initial segment, as defined by Part IV.A.5 of the current GARI00002 Permit, within seven (7) days of installation and all sediment basins within the entire linear infrastructure project seven (7) days of installation. The inspecting design professional shall report the results to the primary permittee within seven (7) days, and the permittee must correct all deficiencies within two (2) business days of receipt of the inspection report, unless on-site weather conditions are such that more time is required. Additionally, the Department's Construction Project Engineer will be responsible for all subsequent seven-day inspections for all new BMP installations.

All other inspections shall be documented on the appropriate Department Inspection forms. See Standard Specifications (or Special Provision) 167 and other contract documents for inspection requirements. These inspections shall continue until the Notice of Termination (NOT) is submitted.

Failure to perform inspections as required by the contract documents and the NPDES permit shall result in the cessation of all construction activities with the exception of traffic control and erosion control. Continued failure to perform inspections shall result in non-refundable deductions as specified in the contract documents.

INSPECTING AND SAMPLING PROCEDURES
 See Special Provision 167 and other contract documents for inspecting and sampling procedures.

NON-STORM WATER DISCHARGES
 Nonstorm water discharges defined in Part III.A.2 of the NPDES Permit will be identified after construction has commenced. These discharges shall be subject to the same requirements as storm water discharges required by the Georgia Erosion and Sedimentation Control Act, the NPDES Permit, the Clean Water Act, the Manual for Erosion and Sediment Control in Georgia, Department Standards, and other contract documents. The NPDES does not authorize the discharge of soaps or solvents used in vehicle and equipment washing or the discharge of wastewater from washout and cleanout of containers for stucco, paint, concrete-form release oils, curing compounds and other construction materials.

DE-WATERING ACTIVITIES AND USE OF PUMPS
 Any pumped discharge from an excavation or disturbed area shall be routed through an appropriately sized sediment basin, silt filter bag or shall be treated equivalently with suitable BMP's. The contractor shall ensure the post BMP treated discharge is sheet flowing. Failure to create sheet flow will obligate the contractor to perform water quality sampling of pumped discharges. The contractor shall prepare sampling plans in accordance with the current GARI00002 NPDES permit by utilizing by a Certified Design Professional. No separate payment will be made for water quality sampling of pump discharges.

OTHER CONTROLS
 The Contractor shall follow this ESPCP and ensure and demonstrate compliance with applicable State and/or local regulations for waste disposal, sanitary sewer and septic systems, and petroleum storage.
 The Contractor shall control dust from the site in accordance with Section 161 of the current edition of the Department's Standards Specifications.

SEDIMENT STORAGE
 The site has a total disturbed area of 29J acres. The following table summarizes the required and available sediment storage for every outfall on this project. The Contractor shall provide and maintain the storage volumes for the BMP's specified in this table.

| Outfall ID | Total Drainage area (acres) | Disturbed area (acres) | Required Sediment Storage Volume (yd3) | Total Storage volume provided (yd3) | Silt Fence with J-Hooks | | Check Dam (6-160 yd3 each) | | Inlet sediment Traps (5-25 yd3 each) | |
|-------------------|-----------------------------|------------------------|--|-------------------------------------|-------------------------|--------------|----------------------------|--------------|--------------------------------------|--------------|
| | | | | | LF | Total Volume | * of Devices | Total Volume | * of Devices | Total Volume |
| 1 STA 109+00 | 1.70 | 1.38 | 114 | 411 | 970 | 291 | | | 8 | 120 |
| 2 STA 120+50 | 6.47 | 2.83 | 434 | 910 | 1665 | 500 | 1 | 50 | 24 | 360 |
| 3 STA 145+94 | 5.65 | 4.23 | 379 | 1050 | 2000 | 600 | 3 | 120 | 22 | 330 |
| 4 STA 152+00 | 0.95 | 0.61 | 64 | 241 | 470 | 141 | 1 | 100 | | |
| 5 STA 195+40 | 19.1 | 5.90 | 1280 | 2175 | 3800 | 1140 | 12 | 990 | 3 | 45 |
| 6 STA 310+15 | 9.49 | 5.27 | 636 | 1785 | 3970 | 1191 | 7 | 579 | 1 | 15 |
| 7 STA 400+50 | 13.8 | 4.71 | 925 | 1365 | 2680 | 804 | 8 | 546 | 1 | 15 |
| 8 STA 289+00 | 5.12 | 1.49 | 343 | 500 | 950 | 285 | 2 | 215 | | |
| 9 STA 54+00 | 3.57 | 1.29 | 240 | 505 | 1150 | 345 | 2 | 160 | | |
| SHEET FLOW | 2.30 | 1.39 | 154 | 567 | 1890 | 567 | | | | |

In order to prevent runoff from bypassing inlet sediment traps, a temporary sump shall be installed around all inlet sediment traps that are not located in a low point or an excavated sump. Construct temporary sumps in accordance with Construction Detail D-24C. Temporary sumps shall be installed in a manner that ensures stormwater does not bypass the inlet. The Contractor may submit alternate temporary containment berm designs to the Project Engineer for approval.

Sediment basins are not used on this project due to adverse impacts of constructing and removing the sediment basins.

Primary Permittee
 Owner: Department of Transportation
 One Ga Center, 600 W Peachtree St. NW
 Atlanta, Georgia 30060

USE OF ALTERNATIVE AND/OR ADDITIONAL BMP'S
 Alternative BMP's are not used on this project.

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|  <p>3895 ENGINEERING DRIVE NORCROSS, GEORGIA 30092 (770) 263-9118</p> | REVISION DATES <table border="1" style="width:100%; border-collapse: collapse;"> <tr><td> </td><td> </td><td> </td></tr> </table> | | | | | | | | | | | | | | | | | | | STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE: PROGRAM DELIVERY ESPC GENERAL NOTES |
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