

Project # _____ Reviewer: _____

Review Fee \$ _____ Payment Received: Full _____

Site Visit(s) Date: _____ Date: _____ Date: _____

Tracking and Milestones:

**STORMWATER POLLUTION CONTROL PLAN (SWPCP) REVIEW
 GENERAL PERMIT FOR DISCHARGE OF STORMWATER AND DEWATERING
 WASTEWATERS ASSOCIATED WITH CONSTRUCTION ACTIVITIES
 (DEEP-WPED-GP-015)**

Registrant Information

Registered Business Name:	
Contact person:	Phone:

Site Information

Site Name:		
Project Type:		
Number of lots/acres:		
Address:		
City/Town:	State:	Zip Code:

List Plans, Calculations and Reports Provided by the Registrant

Registration Information

Part I: Registration Type

- Type of registration (i.e. locally approvable, locally exempt, re-registration, new registration)

Part II: Fee information

- Indication of fee payment

Part III: Registrant information

- Name, address, phone and contact person for registrant
- Registrant's Secretary of State ID # (if applicable)
- Billing contact name, address and phone (if different from registrant)
- Primary contact person (if different from registrant) with all contact information
- Property owner and contact information (if different from registrant)
- Developer's name and contact information (if different from registrant)
- General contractor and contact information (if different from registrant)
- Name of consultant(s) who assisted in registration and/or SWPCP and contact information
- Signatures of contractors/subcontractors

Part IV: Site information

- Site name and location
- Description of the project
- Duration of construction activities
- Normal working hours on-site
- Mining operation determination
- Sanitary or combined sewer discharge determination
- Federally recognized Indian lands determination
- Coastal Boundary determination
- Endangered or Threatened Species determination
- Wild and Scenic Rivers determination
- Aquifer Protection Area determination
- Identified that construction activities are in accordance with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control (the Guidelines)
- Historic and/or Archeological Resource determination
- Conservation or Preservation restriction determination

Part V: Stormwater Discharge information

- Stormwater Discharge Information Table 1 completed
- Stormwater Discharge Information Table 2 completed
- Impaired waters provisions (if applicable)

Part VI: Pollution Control Plan information

- SWPCP submission status

Part VII: Registrant Certification

- Certification signed by registrant or re-registrant

Part VIII: PE/LA Certification

- Design certification signed by licensed PE or LA (where appropriate)

Part IX: Third Party Qualified Professional Certification

- Review certification by Conservation District or Qualified Professional

Part X: Supporting Documents

- Attachment A: USGS Quad map (if submitting paper registration)
- Attachment B: Documentation related to Coastal Consistency Review (if applicable)
- Attachment C: Threatened and Endangered Species form (if applicable) and additional information (such as a copy of a NDDB map)
- Attachment D: Conservation or Preservation Restriction Information (if applicable)
- Attachment E: Non-electronic SWPCP (if applicable)

CONTENTS OF THE STORMWATER POLLUTION CONTROL PLAN (SWPCP)

Soil Erosion and Sediment (E&S) Controls

Site description narrative:

- Described the nature of the construction activities
- Provided total site acreage
- Provided disturbed acreage
- Estimated average runoff coefficient after construction
- Identified immediate and ultimate receiving water(s) of all discharges authorized by Permit
- Identified other permits and/or plans required
- Identified extent of inland, tidal, and fresh-tidal wetlands

Site map:

- Existing and planned drainage patterns
- Existing and planned elevations and slopes
- Location of structural and non-structural controls
- Description and map of existing soils
- Location of outfall(s) proposed for monitoring
- Limits of soil disturbance
- Location of surface waters, impaired waters, waters with TMDL's
- Existing vegetation
- Locations of E&S controls
- Location of stabilization practices
- Location of post-construction re-vegetation
- Location of utilities, roads and structures
- Location of surface water, including inland wetlands, fresh-tidal wetlands and tidal wetlands
- Locations of discharges to surface waters (pre-, during, and post-construction)
- Locations and provisions for waste disposal
- Locations and provisions for washout areas
- Locations and provisions for impaired waters
- Limits of FEMA floodplains and floodways
- CT coastal resource limits
- CT stream encroachment lines
- Location of any public drinking water supply areas or watersheds

Construction sequencing:

- Identified sequence of major construction activities and # of days for each sequence
- Estimated start and completion times for each phase
- Avoidance of disturbances over 5 acres at one time, where possible
- Identified limits of disturbance including each phase

Control Measures:

- Erosion and sediment control measures
- Provided drawings and specifications for each measure
- Identified stabilization practices for disturbed areas
- Identified stabilization practices for stockpiles
- Identified measures to preserve existing vegetation
- Provided details of planned vegetation, seed mixes and planting dates
- Provided details for short-term and long-term stabilization and/or vegetation of disturbed areas
- Identified practices for non-vegetative long-term and winter stabilization
- Provided for slope benches for all slopes exceeding 15 feet height and slopes >3:1 or
- Provided slope stability analysis for engineered slope stabilization measures
- Provided narrative and drawings for structural diversion and storage measures
- Sediment traps provided for drainage areas of 2 to 5 acres
- Temporary sediment basin provided for drainage areas >5 acres
- Described maintenance for E&S control and stabilization measures
- Narrative, drawings and calculations of control measures for dewatering wastewaters
- Description of emergency procedures (for flooding, etc.)
- Runoff Reduction and Low Impact Development (LID) Information (specific measures for run-off reduction and LID measures):

Control Measures: (continued)

- The location of the streams, floodplains, all wetlands, riparian buffers, slopes 3:1 and steeper, and vegetation identified for preservation
- Natural drainage patterns and man-made drainage features
- Location of areas with soils suitable for infiltration and areas appropriate for LID measures
- Location of all areas unsuitable or least suitable for infiltration for the siting of development
- Location of all post-construction stormwater management measures, runoff reduction practices, and LID design measures developed pursuant to subsection 5(b)(2)(C)(i)
- Identification of areas inappropriate for the infiltration due to potential for groundwater pollution
- A narrative describing the nature, purpose, implementation, and long-term maintenance of post-construction measures, runoff reduction practices and LID design measures
- Calculations for measures developed pursuant to Section 5(b)(2)(C)(i), illustrating the retention of the water quality volume or half the water quality volume
- A narrative describing any site constraints that prevent retention of the appropriate volume specified in Section 5(b)(2)(C)(i)
- Calculations showing the proposed effective impervious cover for the site and, where necessary or appropriate for measures developed for linear projects pursuant to Section 5(b)(2)(C)(i), each outfall drainage area

Other measures:

- Description of measures to manage construction waste materials
- Description of off-site sediment tracking and dust control
- Narrative, location, and drawings of washout areas
- Description of maintenance practices for washout areas
- Indicated cleaning of post-construction stormwater structures prior to termination inspection
- Indicated removal of silt fence prior to filing termination notice
- Description and location of chemical and petroleum product storage containment and controls
- Narrative describing routine inspection procedures
- Description of qualifications of inspection personnel of the Permittee
- Narrative describing monitoring procedures, including frequency and methodology
- List of all contractor and subcontractors
- Description of Endangered Species measures, if necessary
- Description of Aquifer Protection provisions, if necessary
- Description of provisions of Coastal Site Plan approval, if necessary
- Discussion of archeological or historic preservation issues on site, if necessary
- Description of activities subject to the Wild & Scenic Rivers Act, if necessary

Impaired waters controls (where applicable):

- Narrative and plan sequencing to ensure no more than 3 acres concurrent disturbance

AND

- Identified stabilization practices within 3 days for temporary suspension of activity, **OR**
- Description and calculations showing retention of 2-year, 24-hour storm, **OR**
- Compliance with WLA and/or other measures of an existing TMDL

Additional E&S Information:

- See attached reviewer's comments page
- Reviewer provided additional information to Registrant: reports, photographs, designs, etc.

Post-construction Stormwater Controls

Show on site map:

- Indicated retention standards for redevelopment or other development
- Drainage patterns and slopes after grading
- Location of LID and runoff reduction measures
- Location of other structural sedimentation/floatables treatment measures
- Location of velocity dissipation measures
- Provided drawings and specifications of each stormwater structure/measure

Narrative of post-construction controls:

- Description of control measures for post-construction stormwater discharge
- Long-term maintenance plan for cleaning of post-construction stormwater structures

Additional Stormwater Management Information:

- See attached reviewer's comments page
- Reviewer provided additional information to Registrant: reports, photographs, designs, etc.

Supporting Documents (as needed):

- Calculations supporting the design of sediment and floatables removal controls pursuant to Section 5(b)(2)(C)(ii)(b)
- Calculations supporting the design of velocity dissipation controls pursuant to Section 5(b)(2)(C)(ii)(c)
- Provided boring logs, test pit logs, soil reports, etc.
- Provided hydraulic calculations for existing and planned hydrology
- Provided calculations for LID and runoff reduction measures (WQV or ½ WQV retention)
- Provided engineering calculations for any engineered control measures
- Pre- and post-construction peak flow calculations
- 1 inch of rainfall retained onsite if within 500 feet of a non-fresh tidal wetland
- Provide a post-construction average runoff coefficient
- Off-site effect of flow and volume
- Groundwater flow estimates
- Inspection forms and checklist
- Contractor Certification Statement (including individual lot developers)
- Demonstration of compliance with TMDL, where applicable
- Plan Signature

IDENTIFIED SOIL EROSION AND SEDIMENT CONTROL MEASURES IN SITE PLANS

Function	Measure	Phase/Sheet	Engineered Design	Calculations Provided	Reviewer Comments
Protect Vegetation	Tree Protection		No		
Preserve & conserve soil	Topsoiling		No		
	Land Grading		Possibly		
	Surface Roughening		No		
	Dust Control		No		
Vegetative soil cover	Temporary Seeding		No		
	Permanent Seeding		No		
	Sodding		No		
	Landscape Planting		No		
Non-living soil protection	Temporary Soil Protection		No		
	Mulch for Seed		No		
	Landscape Mulch		No		
	Temporary Erosion Control Blanket		No		
	Permanent Turf Reinf. Mats		Yes		
	Stone Slope Protection		No		
Stabilization structures	Retaining Walls		Yes		
	Riprap		Yes		
	Gabions		Yes		
	Permanent Slope Drain		Yes		
	Channel Grade Stabilization Structure		Yes		
	Temporary Lined Chute		Yes		
	Temporary Pipe Slope Drain		Yes		
Drainageways & watercourses	Vegetated Waterway		Possibly		
	Temporary Lined Channel		No		
	Permanent Lined Waterway		Yes		
	Temporary Stream Crossing		No		
Diversions	Temporary Fill Berm		No		
	Water Bar		No		
	Temporary Diversion		Possibly		
	Permanent Diversion		Yes		
Subsurface drain	Subsurface Drain		Yes		

**IDENTIFIED SOIL EROSION AND SEDIMENT CONTROL MEASURES IN SITE PLANS
(CONTINUED)**

Detention structures	Detention Basin		Yes		
Energy dissipators	Level Spreader		Yes		
	Outlet Protection		Yes		
	Stone Check Dam		Possibly		
Sediment impoundments, barriers & filters	Temporary Sediment Basin		Yes		
	Temporary Sediment Trap		No		
	Hay Bale Barrier		No		
	Geotextile Silt Fence		No		
	Turbidity Curtain		No		
	Vegetative Filter		No		
Tire tracked soils	Construction Entrance		No		
Dewatering	Pump Intake and Outlet Protection		No		
	Pump Settling Basin		No		
	Portable Sediment Tank		No		
	Dewatering of Earth Materials		Possibly		

IDENTIFIED STORMWATER CONTROL MEASURES IN SITE PLANS

Primary Treatment Practices	Phase/Sheet	Engineered Design	Calculations Provided	Low Impact Development
Micropool extended detention				
Wet pond				
Wet extended detention pond				
Multiple pond system				
Pocket pond				
Shallow wetland				
Extended detention wetland				
Pond/wetland system				
Gravel wetland				
Infiltration Trench				
Infiltration Basin				
Infiltration Parking Island				
Surface sand filter				
Underground sand filter				
Perimeter sand filter				
Organic filter				
Tree box filter				
Bioretention/raingarden				
Green Roof				
Dry swales				
Wet swales				
Secondary Treatment Practices				
Dry detention pond				
Underground detention facilities				
Deep sump catch basins				
Oil/particle separators				
Dry wells				
Permeable pavement/pavers				
Vegetated filter strips				
Grass drainage channels				
Other/Innovative/Emerging Technology				
Catch basin inserts				
Hydrodynamic separators				
Media filters				
Underground filtration systems				
Alum injections				
Rainfall harvesting/cisterns				

STORMWATER MANAGEMENT AND TREATMENT PRACTICES

The General Permit provides goals for the post-construction stormwater management to control discharges of stormwater pollutants. Some measures may not require all of the following information.

Stormwater Control Measure: _____

Name in Plans _____ Practice _____ Location _____

(Complete this sheet for each post-construction stormwater measure)

Discharge Calculations provided:

1. Water Quality Volume (WQV) = _____ (ac-ft)

2. Water Quality Flow (WQF) = _____ (cfs)

3. Groundwater Recharge Volume (GRV) = _____ (ac-ft)

4. Runoff Capture Volume (RCV) = _____ (ac-ft)
(only required for non-fresh tidal discharges)

5. Provided Peak Discharge Rates for the following storm events:

Storm Event	Pre-Development (cfs)	Post-Development (cfs)	Change (+/- cfs)
24 hr			
2-year			
10-year			
25-year			
100-year			
500-year			

This stormwater measure (or as part of a discharge treatment train) meets the goals of the General Permit: Yes No

Comments:

Site Inspection Worksheet for E&S and Stormwater Control Measures

Project #: _____ Plans Dated _____ Last Revised _____

District: _____ Reviewer: _____

Location: _____

Project Description: _____

Contact Person for the Site:

Name: _____

Company: _____ Phone: _____

Site Visit Date: _____

Weather conditions: _____

Photographs taken Yes No

Contacted Responsible Party Yes No

Inspection submitted to CT DEP Yes No

Inspection submitted to Permittee Yes No

Comments: