

CONSTRUCTION BEST MANAGEMENT PRACTICES PLAN



FOR ALDOT PROJECT NUMBER

RESPONSIBLE OFFICIAL:

CBMPP COMPILER:

DESIGN QUALIFIED CREDENTIALLED PROFESSIONAL:

OPERATIONAL QUALIFIED CREDENTIALLED PROFESSIONAL:

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CBMPP Explanation

This ALDOT Construction Best Management Practices Plan (CBMPP) is intended to satisfy the requirements of the Alabama Department of Environmental Management (ADEM) Administrative Code and the National Pollutant Discharge Elimination System (NPDES) Construction General Permit.

This CBMPP is also a means to gather and communicate environmental concerns, commitments, and contract requirements to ALDOT design and construction personnel as well as Contractors.

This document, all referenced or attached documents, and those posted on the Electronic CBMPP webpage together constitute the CBMPP for this project.

This CBMPP is provided to ALDOT Contractors prior to project letting.

The CBMPP is comprised of two main components; a Design Component and an Operational Component.

The Design Component is created and updated during the planning and design phase by ALDOT and/or consultant design personnel. The Design Qualified Credentialed Professional (QCP) certifies the Design Component of the CBMPP as having addressed all known environmental concerns, and that these concerns have been addressed in the project design.

The Operational Component is created and updated during the construction phase by ALDOT project personnel and contractor personnel. The Operational Qualified Credentialed Professional (QCP) certifies that the Design Component will be adhered to as closely as possible, and that the Operational Component will be created, updated, and adhered to during construction of the project.

This CBMPP is to be maintained at the Project Office during active construction on the project and retained with the project records after project completion. The CBMPP is to be made available to all project staff including all Contractors, ALDOT staff, and Regulators.

Design QCP Certification of Completion

I certify under penalty of law that the Design Component of this CBMPP and all attachments were compiled under my direction or supervision and are consistent with applicable ADEM Administrative Code and the National Pollutant Discharge Elimination System (NPDES) Construction General Permit. I further certify that all known environmental concerns and commitments, as noted in Section II., were considered and addressed during the creation of the Design Component of this CBMPP and the design reflected in the project plans. This CBMPP and any BMPs meets or exceeds the technical standards and guidelines of The Alabama Handbook and current industry standards. The Design Component of this CBMPP as submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

_____ **Date:** _____

Operational QCP Certification of Receipt and Responsibility

I certify under penalty of law that the Design Component of this CBMPP and all attachments will be adhered to in a manner consistent with applicable ADEM Administrative Code and the National Pollutant Discharge Elimination System (NPDES) Construction General Permit. I further certify that modifications and additions to the Operational Component of this CBMPP will be made under my direction or supervision and that the Operational Component of this CBMPP will be, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

_____ **Date:** _____

ALDOT Contact Information

RESPONSIBLE OFFICIAL:

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OPERATIONAL QUALIFIED CREDENTIALLED PROFESSIONAL:

I.a. ADEM NPDES Notice of Intent

I.b. Project Plan Checklist

Detailed project information relevant to environmental design, protection, and compliance is located in the plan set. Information contained in the plan sheets satisfies the requirements of the ADEM Administrative Code and the NPDES Construction General Permit. Please reference the following applicable plan sheets. Their location within the plan set can be found on sheet 1A, the Index to Sheets.

Yes	No	<u>Plan Sheet Name</u>
		Plan and Profile Sheets
		Utility Sheets
		Sequence of Construction
		Erosion & Sediment Control Plans
		Erosion & Sediment Control Schematics
		Hydraulic Data Sheet
		Drainage Sections
		Soil Boring Logs
		Cross Sections

I.c. Soil Properties

I.d. Hydraulics/Hydrology

Pre/Post Development Flow Statement (select all applicable statements):

- There will be no significant difference in pre- and post- development peak flows.
- There will be no significant difference in pre- and post- development hydraulic velocities.
- There will be no significant difference in pre- and post- development runoff volume.

Hydraulic Analysis (select one):

A hydraulic analysis was conducted for this project using
 Calculations are available upon request.
 Hydraulic calculations were not performed due to

Anticipated Rainfall Conditions

The following information was obtained from (select all that apply):

NOAA’s National Weather Service Hydrometeorological Design Studies Center
 Precipitation Frequency Data Server (NOAA Atlas 14)

USDA’s National Resources Conservation Service eFOTG
 Alabama Supplements to the National Engineering Field Handbook – Chapter 2

Other

Minimum Design Storm for Temporary BMPs = 2-year frequency, 24-hour duration = inches

Other 2-year Frequency Events (inches)										
30 min	1 hr	2 hr	3 hr	6 hr	12 hr	2 day	4 day	7 day	10 day	

Average Monthly Precipitation (inches)											
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Other Hydraulics/Hydrology Notes

II.a. Environmental Concerns

Environmental Review

The location of this project has not been reviewed in accordance with FHWA's required NEPA procedures.

The location of this project has been reviewed in accordance with FHWA's required NEPA procedures.

(select one of the following): Categorical Exclusion Programmatic Exclusion
 Finding of No Significant Impact Environmental Impact Statement

- The area reviewed for environmental concerns includes the limits of all work areas anticipated to be impacted by the project.

Environmental Concerns Found (select all that apply):

Priority Construction Site (select one of the following Discharge conditions):

- 303(d) Listed – Impaired by Turbidity, Siltation, or Sedimentation
- TMDL Finalized/Approved – Impaired by Turbidity, Siltation, or Sedimentation
- Outstanding Alabama Water Use Classification
- Outstanding Natural Resource Water Use Classification
- Treasured Alabama Lake Use Classification
- Other

Jurisdictional/Navigable Waters of the State including Wetlands

Groundwater Well

Threatened/Endangered Species and/or Habitat

Historical/Archaeological Site

Hazardous Materials Location (Paint, Asbestos, Underground Storage Tank, other)

Proximity to Existing Municipal or Public Water Intake (½ Mile Upstream or ¼ Mile Downstream)

Potential Pollutants (select all that apply):

- This project will expose erodible material and thus create a potential source of sediment.
- Fuels, oils, and other chemicals associated with motorized equipment and vehicles may be present.
- Construction and worker debris may be present.

See Section III. of this document for additional information regarding pollution prevention requirements.

Other Environmental Concerns or Design Considerations

II.b. Environmental Commitments

Documentation follows addressing all Environmental Commitments noted below.
ADEM NPDES Construction General Permit NOI and Receipt Letter are located in Section I. of this document.

Permits, Agreements, Clearances, Easements (note applicability for each)

Yes No	Commitment Type	Identification No.	Applied	Received	Expires
			(Date)	(Date)	(Date)
	NPDES MS4 Permit				
	USACOE 404 Individual Permit ¹				
	USACOE 404 Nationwide Permit ¹				
	Corps Notification -		Required		Not Required
	EPA				
	FEMA				
	TVA				
	U. S. Coast Guard				
	U. S. Fish & Wildlife / Endangered Species				
	Historical/Archaeological Clearance				
	Hazardous Materials Clearance				
	FERC Approval				

Note¹: This project is covered under a USACOE 404 permit, and thus, it is exempt from the Construction General Permit's requirement to provide and maintain a 25-foot undisturbed natural buffer. However, the project will utilize BMPs to treat stormwater discharges from earth disturbances within 25 feet of the surface water to the maximum extent practicable.

Soil Exposure

This project has _____ acres of ADEM NPDES permitted disturbance.

The project maximum area of exposed erodible material at one time is limited to _____ acres, or the permitted disturbance acreage, whichever is less.

Turbidity Monitoring and Construction Stormwater Sampling

Not Required

Required for ALL drainage areas at the associated Primary Stormwater Discharge and Background Points

Required for SELECT drainage areas at the associated Primary Stormwater Discharge and Background Points

Selected sites: list sites

Other Environmental Commitments, Obligations, or Expectations

III.a. Project Specific Best Management Practices

III.b. Standard Best Management Practices

ALDOT Standard Specifications and General Applications Special Provisions

Contract specification requirements regarding environmental protection during construction may be found in the ALDOT Standard Specifications for Highway Construction or in the contract document in the form of a special provision. Special provisions may be General Application Special Provisions approved for general use and incorporation into the standard specifications in the future or as Project Specific Special Provisions created specifically for the project at hand. Please reference the following applicable 2018 ALDOT Standard Specifications sections.

- 106.01(b) Clearances and Acknowledgements for the Use of Offsite Areas
- 106.01(c) Operation of Offsite Pits and Waste Areas.
- 107.09 Construction Over or Adjacent to Waters of the United States.
- 107.12 Protection and Restoration of Property, Landscape and Utility Facilities.
- 107.13 Woodland Protection, Conservation, Abatement of Water Pollution and Quarantine Regulations.
- 107.14 Responsibility for Damage Claims.
- 107.21 Stormwater Management.
- 107.22 Environmental Protection and Spill Prevention.
- 107.23 Temporary Construction Encroachment into Streams, Water Bodies and Wetlands.
- 107.24 Permits for Pesticide Application.
- 108.04 Prosecution of Work.

- 201.03 Clearing and Grubbing.
- 205.03 Removal and Relocation of Structures.
- 206.04 Disposal of Materials.
- 210.03 Excavation and Embankment.
- 250.03 Removal of Underground Storage Tanks and Contaminated Soil.

- 521.04 Blast Cleaning, Mechanical Cleaning and Surface Roughness.
- 521.05 Containment System for Removal of Coating from Existing Bridge.
- 521.06 Collection and Disposal of Coating Material Waste from Existing Bridge.
- 521.07 Surface Preparation Plan Submittal for the Removal of Existing Coatings.
- 521.08 Final Cleaning of Blast Cleaned Surfaces.
- 521.14 Worker Protection.
- 524.03(a)2. Water Quality Protection
- 534 Cleaning Existing Drainage Structures.

- 650 Topsoil.
- 652 Ground Preparation, Vegetation Establishment and Mowing.
- 654 Solid Sodding.
- 656 Mulching for Vegetation Establishment.
- 659 Rolled and Hydraulic Erosion Control Products.
- 665 Temporary Soil Erosion and Sediment Control
- 666 Pest Control.
- 668 Pre-Emergent Herbicide Treatment.
- 669 Post-Emergent Herbicide Treatment.
- 672 Stormwater Turbidity Control

- 810 Geotextiles.
- 814 Riprap Materials.
- 860.01 Seed.
- 860.03 Mulching Material.
- 860.05 Solid Sod.
- 860.11 Rolled and Hydraulic Erosion Control Products.

ALDOT Special Drawings

Contract requirements regarding environmental protection during construction may be found in the form of construction detail drawings in the plan set or in the applicable ALDOT Special and Standard Highway Drawings book. Detail drawings found in the plan set are referred to as Special Project Details and consist of details that are not included in the Special and Standard Drawings book. Please reference the following applicable ALDOT Special Drawings.

<u>Drawing No.</u>	<u>Description</u>	<u>Index No.</u>
ESC-100-1	Best Management Practice Reference Matrix	66501
ESC-100-2	Best Management Practice Reference Matrix	66502
ESC-200-1	Typical Temporary Erosion/Sediment Control Applications	66505
ESC-200-2	Details of Temporary Slope Drain, Berms and Energy Dissipator	66506
ESC-200-3	Details of Sediment Barrier Applications	66507
ESC-200-4	Details of Silt Fence Installation	66508
ESC-200-5	Details of Sediment Retention Barrier	66509
ESC-300-1	Ditch Check Structures, Typical Applications and Details	66512
ESC-300-2	Details of Hay Bale Ditch Checks	66513
ESC-300-3	Details of Sandbag Ditch Check	66514
ESC-300-4	Details of Erosion Control Wattle Ditch Check	66515
ESC-300-5	Details of Silt Dike Ditch Check	66516
ESC-300-6	Details of Rock Ditch Check	66517
ESC-300-7	Details of Rock Ditch Check with Sump Excavation	66518
ESC-300-8	Details of Silt Fence Ditch Check	66519
ESC-400-1	Inlet Protection Typical Applications and Details	66522
ESC-400-2	Inlet Protection Details for Coarse Aggregate on Grades & Sags	66523
ESC-400-3	Inlet Protection Details of Wattles	66524
ESC-400-4	Inlet Protection Details of Silt Fence	66525
ESC-400-5	Inlet Protection Details of Sand Bags	66526
ESC-501	Floating Basin Boom	66529
ESC-502	Stabilized Construction Entrance	66532
ESC-503	Temporary Dewatering Structures	66535
ESC-504	Temporary Culvert Stream Crossing	66538
ESC-505	Temporary Stream Diversion	66541
ESC-506-1	Suspended Pipe Diversion (Downstream)	66544
ESC-506-2	Suspended Pipe Diversion (Upstream)	66545
ESC-507	Temporary Sedimentation Basin	66548
ESC-508	Flocculant Usage Guide	67201
ESC-509	Details of Rolled and Hydraulic Erosion Control Product Installation	65901

ALDOT Construction Manual – Section 2.5 Construction Stormwater

ALDOT Construction Manual, Section 2.5 contains internal policies and procedures relating to construction stormwater. This manual is intended as a job specific guidance resource for ALDOT inspectors. It is utilized in addition to standard specifications, standard drawings, and contract specific documents.

ALDOT Approved Treatment Chemicals

Contract requirements regarding flocculants and chemical stabilization during construction may be found in the form of contract pay items on the Quantities Sheets and their usage locations are shown on the Erosion and Sediment Control Sheets in the plan set. Proper usage requirements are included in the applicable ALDOT Special and Standard Highway Drawings book and applicable ALDOT Specifications. These products may only be used if they have been reviewed and included on the applicable approved products lists of the ALDOT Materials, Sources, and Devices with Special Acceptance Requirements Manual which is maintained on the ALDOT website. Safety Data Sheets and manufacturer's dosage instructions for these products are also maintained on the ALDOT website. Please visit the applicable ALDOT webpages for the most current information. Specific products selected for use on a project and associated documentation is submitted as part of the Contractor's Stormwater Management Plan and included in the CBMPP after project award.

Flocculants

APS 700 Series	Applied Polymer Systems, Inc.
EnviroPam (Granular)	Innovative Turf Solutions
FLOC	Innovative Turf Solutions
HaloKlear/StormKlear DBP-2100 & Gel Flocc (System)	HaloSource, Inc.
HydroFlocc (Flat)	Carolina Hydrologic, LLC.
HydroLoc H30 PAM (Anionic Linear Polyacrylamide)	Carolina Hydrologic, LLC.
StormKlear DBP-2100 FS & Gel Flocc (System)	HaloSource, Inc.

Tackifiers

APS 700 Series Silt Stop Powder (Model No. 702)	Applied Polymer Systems, Inc.
APS 700 Series Silt Stop Powder (Model No. 705)	Applied Polymer Systems, Inc.
APS 700 Series Silt Stop Powder (Model No. 707)	Applied Polymer Systems, Inc.
APS 700 Series Silt Stop Powder (Model No. 710)	Applied Polymer Systems, Inc.
APS 700 Series Silt Stop Powder (Model No. 712)	Applied Polymer Systems, Inc.
APS 700 Series Silt Stop Powder (Model No. 730)	Applied Polymer Systems, Inc.
APS 700 Series Silt Stop Powder (Model No. 740)	Applied Polymer Systems, Inc.
EnviroPam (Granular)	Innovative Turf Solutions
Enviro-Tak	Profile Products, LLC
FINN HydroStik	FINN Corporation
Resinator	Mormar, Inc.
Tacking Agent 3	Profile Products, LLC

Hydraulic Mulches

EcoFibre Plus Tackifier	Profile Products, LLC
HydroCover Wood Fiber with Tack	Profile Products, LLC
Profile Blend Hydraulic Mulch	Profile Products, LLC
Profile Wood with Tackifier Hydraulic Mulch	Profile Products, LLC

Hydraulic Erosion Control Products

Binder BFM	American Excelsior
EarthGuard Fiber Matrix	LSC Environmental Products, LLC.
EcoMatrix	Profile Products, LLC
Flexterra HP-FGM	Profile Products, LLC
HydroStraw Bonded Fiber Matrix	HydroStraw, LLC
ProMatrix	Profile Products, LLC
Safe Slope Xtreme	Landmark Earth Solutions
SprayMatrix	Profile Products, LLC