





NPDES Class Course Notebook & Spiral 1-day – Classroom Instruction • ¹/₂ - day – Review and written exam 60 Questions Closed book Center for Training Transportation Professionals • 2 – hour time limit • 70% minimum score cttp • Results in ~ 1 week • www.cttp.org • Certificate, Pocket Card ctti • 5-yr Certification **Cttp** NPDES 3



Which Is Better?



Simple goal of stormwater management: Protect water by reducing pollutants in stormwater discharges



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Course Outline

- Background & Basic Principles
- Laws, Regulations, Responsibilities
- Stormwater Pollution Prevention Plan (SWPPP)
- Erosion and Sediment Control Measures
 - Temporary Controls
 - Permanent Controls
- Designs
- Inspections
- Reading Erosion Control Plans









Types of Erosion (cont.)



Rill Erosion (small, defined flow channels)



Gully Erosion (concentrated flow)

Types of Erosion (cont.)



Wind Erosion (weather dependent)



Streambank Erosion (naturally occurring)



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Basic Truth

- Water flows downhill
- Erosion increases with:
 - Higher flow volume
 - Higher velocity
 - Steeper slopes

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 Sedimentation happens when water slows down









Plan Ahead...

- Anticipate potential problems before they happen
- Protect water bodies
- Prevent Erosion
- Control Sediment

It is easier to <u>PREVENT EROSION</u> than to <u>CONTROL SEDIMENTI!</u>



CLLP



Clean Water Act (1972)

- Original legislation to protect health of U.S. waters
- National Pollutant Discharge Elimination System (NPDES) Stormwater Program
 - Administered by the EPA
 - Environmental Protection Agency
 - Delegated to the State of Arkansas (ADEQ)
 - Arkansas Dept. of Environmental Quality
 - Issue Stormwater permits





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Arkansas Law (8-2-217) "It shall be unlawful for a person to: Place or cause to be placed any . . . industrial waste or other wastes in a location where it is likely to cause pollution of any waters of this state" Arkansas Law (8-4-103) "It shall be unlawful for a person to: Purposely, knowingly, or recklessly cause pollution of the water . . . In a manner not otherwise permitted by law" Purposely or knowingly make any false statement, representation, or certification in any document required to be maintained"

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NPDES PermitsAdministered by ADEQ, subject to the EPA The state's primary way to implement pollutant limits and water quality standards **NPDES Construction General Permit (CGP)**ARR150000 Revised Nov. 1, 2016 (5-year permit) Required for all activities disturbing 1 acre or more Clearing, grubbing, grading, excavation, demolition, and construction of haul roads *Permit not required for overlays or for routine maintenance activities on existing roads where the line and grade of the road is not being altered.















Penalties

- No permit or serious violation
 - Up to \$10,000 per violation
 - Each additional day of a violation may be considered to be a separate violation
 - Can result in Cease and Desist order
- Endangered Species violation
 - Up to \$25,000 per violation
- Failure to acquire STAA
 - May result in fines or penalties for violations
 - Revocation of the STAA





Special Protection

 The CGP cannot provide coverage if the site discharges directly into an ERW, NSW, or ESW <u>UNLESS</u> SWPPP includes additional BMP's needed to prevent to maximum extent possible impact by pollutants



Impaired Waters – 303(d) List

- Waters that already have issues
- 2018 303(d) List
 - ADEQ website
- Maps by County
- Category 5 impaired
- Category 4a impaired, TMDL has been established
- Primary Considerations
 Turbidity, sediment, oil & grease





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Storm Water Pollution Prevention Plan (SWPPP)

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SWPPP

- Storm Water Pollution Prevention Plan
 - Implementation document (book) for the CGP
 - Contains documents required by the CGP
 - Must be kept on site and readily available
 - Use ARDOT SWPPP Special Provision / template
- Goal is to remove 80% of total suspended solids from flows that exceed predevelopment levels
- Failure to implement the SWPPP can result in fines!



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Purpose of the SWPPP

- Ensure compliance with the NPDES permit
- Provide a plan
 - Identify potential sources of stormwater pollution
 - Describe practices (BMPs) for reducing pollutants
- Provide ADEQ with information
- Assist the designer
 - Communicate erosion and sediment control plans
- Assist construction personnel
 - Manage stormwater runoff









SWPPP Components Maintained on Project

- Project Contract
- SWPPP Special Provision (from contract)
 - Contractor and inspector information
 - Contractors (and subs) must sign the SWPPP SP
 - Inspectors responsible for inspection reports must sign
 - Hazardous materials handling (also in Std. specs and SS)
 - Approved state or local plans
 - TMDL information
 - Short Term Activity Authorization (STAA)
 - Other permit information (404, 401, MS4)





SWPPP Components (cont.)

- Notice of Coverage
- Project Plans
 - Quantity listing for all erosion & sediment control devices
- Updated as-built E&SC control plans
- SWPPP inspection reports
- SWPPP-related correspondence or change orders
- RE Construction Diary
 - SiteManager files





Project Name & Location

Project Name and Location: Insert Project name and job number from Contract

Operator Name and Address: Arkansas Highway and Transportation Department

Name of District Engineer _____ Address of District Headquarters

Name of Resident Engineer (Contact Person) Contact Number



Site Description

- Pre-Construction View
- Project Description
- Sequence of Activities
 - Total Acres
 - Total Disturbed Area
- Existing Site Info
 - Runoff Coefficient
 - Soil information

A. Site Description

1) Pre-construction Topographic view: Refer to the plan and profile sheets for topographic and waterbody information.

2) Project Description and Intended Use after Notice of Termination (NOT) is filed: Insert description from Contract.

3) Sequence of Activities:

The sequence of Major Sol Disturbing Activities is shown below. Be aware that the sequence below is provided as a general course of action for the progression of construction activities. Actual sequence of construction will be determined by the Contractor's schedule and field conditions.

a b.	
с.	
d.	
e.	
Total Acres Available:	Total Disturbed Area

("Note: Any off-site borrow or waste areas are operated by the Contractor, who is responsible for obtaining any required NPDES permits for the sites. The "total acres available" and "total disturbed areas" shown here do not include areas covered under permits obtained by another operator. The Contractor is also responsible for meeting local regulations regarding these sites, including those of a Qualifying Local Program).

5) Existing Site Information:

a. Runoff Coefficient Based on attachment C:

Before construction starts. the site has a runoff coefficient of

After construction is completed, the site will have a runoff coefficient of _ b. Soil Information

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Responsible Parties

B. Responsible Parties-General Contractors, Inspectors, etc:

Refer to Contractor identification form in Section Q and the Inspector identification form in Section R. This information will be completed after the Pre-construction conference.

Contractors

0. Contractors: (Permit pg 3 of Part II) All contractors should be identified in the plan. (a page should be included for each extended.etc.

THE CERTIFICATION BELOW SHALL BE COMPLETED AND INCLUDED IN EACH SUBCONTRACT, Copies of these certifications must be inserted at this location.

The Contractor/Subcontractor indicated below shall have responsibility for implementation of the pay items as listed below.

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All Contractors operating on the site shall have the responsibility for compliance with Section 110 of the Standard specifications for their operators, inciding, but not timed to ... Good housekeeping practices, spill prevention, spill reporting and clean-up, and product specific practices such as limiting the discharge of concrete waste water to areas specified in the Contractor Printed Name______

____Title: _____ ___Date: ______ ___AHTD Job Number: ___

Inspectors: (Permit pg 3 of Part II) Site inspectors should be identified in the plan. AHTD inspectors performing the erosion and sediment control inspection must complete the information below.

information below.

Printed Name of AHTD Inspector	Signature		Contact Number	Date



Signature

 Receiving Waters Where does the water (and sediment) go? Nearest water Ultimate receiving water There is ALWAYS a receiving water 303(d) & TMDL info How to address special or impaired waters 	C. Receiving Waters: (Permit pg 3 of Part II) () Location of Surfaces Water on Construction Sile: The following surface waters are located on the construction sile. List them by name with
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Site Map

- Pre-construction topo
 - Estimated slopes after construction
- Direction of flow
- Areas of disturbance
- Undisturbed areas
- Location of major controls
 - Construction exits
 - Concrete wash-out
- Off-site materials, etc.
- Stormwater discharge
- Areas where final stabilization is complete

Site Map

Showing at a minimum the following items:

- Pre-construction topographic view;
 Pre-construction topographic view;
 Direction of stormwater flow (i.e., use arrows to show which direction stormwater will flow) and approximate slopes anticipated after grading activities;
 Delineate on the site map areas of sol disturbance and areas that will not be disturbed under the coverage of this permit;
 Location of major structural and nonstructural controls identified in the plan;

- L Location of construction exits;
 L Location of constructural and nonstructural controls identified in the plan;
 Location of construction exits;
 Location where stabilization practices are expected to occur;
 Locations of off-site materials; waste, borrow area, or equipment storage area;
 Location of areas used for concrete disposal and concrete two wash-out;
 Location of all Waters of the State with associated natural buffer boundary lines. Identify
 floodplain and floodway boundares, if available;
 Locations where stormwater is discharged of Waters of the State or a municipal separate
 storm severe system if applicable,
 L Areas where final stabilization has been accomplished and no further construction phase
 permit requirements apply;
 L Areas where indicate clearly specifies any erosion and sediment control measure symbols/labels
 used in the site map and/or detail sheet; and
 Locations of any storm drain inlets on the site and in the immediate vicinity of the site.

See Erosion Control Manual p. 15



Vegetated Buffer Zones

- Encroachments may be allowed
 - Water crossings
 - Water access
 - Restoration process
- Prior approval is required
- Must justify in SWPPP!!!
- Contractor must stabilize the disturbed buffer zone area within 5 business days of completion of work



Stormwater Controls During Construction

- Site stabilization
- Erosion & sediment controls
- Construction activities and timeline (general)
- List of stabilization practices and structural practices
 - Limiting disturbance, tracking controls, seeding, etc.
 - Sediment basins, silt fence, diversion ditches, slope drains, retaining walls, ditch checks, wattles, etc.
- Other controls
 - Debris and waste, hazardous materials, sanitary facilities
 - Offsite vehicle tracking, concrete waste



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Choosing Controls

- Know the site!
 - Identify receiving waters, sensitive waterbodies
 - Water bodies on project site?
 - Topographical features steep slopes, flat areas
 - Where does water leave the site (runoff)?
 - Where does water enter the site (run-on)?
 - Is water concentrated in channels?
 - Is water distributed as overland flow?
 - Is there a storm drain system with inlets?
- Choose controls that fit the situation!



Choosing Controls (cont.)

- Effectiveness will it work?
- Feasibility good fit for the location?
- Durability will it last?
- Cost materials, installation + maintenance
- Availability will it ship when you need it?
- Operation easy to maintain?
- Compatibility aesthetics and safety?
- Sequence of activities is it practical?
- Consider state and local regulations



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Stormwater Controls After Construction

- Permanent controls
 - Will stay in place when construction is complete
 - Must manage all stormwater with no sediment discharge
 - Channel linings, culverts, riprap, sodding, ditch paving
- Spread out the water and slow it down
 - Velocity dissipation devices
 - Concrete spillways, grouted riprap, underdrains, ditch paving, wetland infiltration



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	Tracking Permit number: ARR151826 AFIN: 39-00405
	AUTHORIZATION LETTER TO DISCHARGE STORM WATER UNDER THE NPDES GENERAL STORM WATER PERMIT NUMBER ARRI50000.
	THIS IS NOT THE PERMIT
The set fo	storm water discharge shall be in accordance with all limitations, monitoring requirements, and other conditions orth in the NPDES general storm water construction permit number ARR150000.
AHT P.O. Little	D - Construction Division Box 2261 # Rock, AR 72203-2261
is au Unio Cour	thorized to discharge storm water from a facility located as follows: AHTD Job No. 110229, L'Anguille River - n Pacific RR Overpass (GR & STRS) (S), Located on Hwy 1 north of Marianna city limits, Marianna, in Lee tty, Arkansas with 47.8 acres disturbed out of 47.8 acres total.
The	Project Contact Person for this construction site is Daniel Harris, (870) 238-3738.
This	authorization must be posted at the construction site in a prominent place per Part I.B.7.d.2 of the general iit.
Issue	2d date: 7/27/2006

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During Construction

- SWPPP must be updated within 7 days of on-site changes
- Adjust the Plan**
- Confirm the presence and accuracy of the plan
 - Areas of soil disturbance
 - Actual location of controls
 - Areas where final stabilization has been completed
 - Etc.
- Perform good housekeeping throughout jobsite

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Turbidity

- A measure of water clarity
- Measured by light passing through water sample
 - More solids mean "cloudier" water
- Suspended solids can:
- Affect water clarity and color
- Increase water temperature
- Decrease dissolved oxygen
- Increase disease in fish
- Reported in NTUs
 - Nephelometric Turbidity Unit












Turbidity Testing Requirements

- Begin testing on 1st day of in-stream work
 - Suspend testing if no in-stream work
- Samples should represent stream conditions throughout test period
 - STAA will indicate sample locations

Avoid sampling while:

- Machinery is working
- During or immediately after a significant rainfall event
- Requirements may be:
 - Not more than 20% > upstream
 - Numerical value (i.e., 10 NTU)





Native Background Vegetation

- Native vegetation may not provide 100% cover
 - If not, adjust the 80% density criteria
 - If no natural vegetation, no stabilization required

Example:

Assume native vegetation covers 50% of ground Adjusted criteria:

0.80 X 0.50 = 0.40

40% total required for final stabilization





Temporary Erosion and Sediment Control Measures

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Temporary Measures

- Best Management Practices (BMPs) used during construction to control erosion and sediment until permanent measures can be provided
 - Direct protection to soil surface (prevent erosion)
 - Remove (control) sediment
 - Control of run-on
 - Control of run-off





Scheduling

- Sequencing of construction activities
- Minimize area and duration of exposure
- Request information from the contractor
 - Scheduling
 - Phasing



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Ground Cover – Temporary

- Vegetation, mulch or combination of both
- Used on all exposed areas that will be exposed for a period of time
- Where seasonal limitations preclude permanent seeding
- Delay in construction
- Maximum of 14 days



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- Steep slopes
 - 2:1 or steeper
- Problem areas



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Erosion Control Matting

- Type of matting will depend on water velocity expected
- Ensure good contact with ground





Tracking

- "Track walking"
- Surface roughening achieved by operating tracked machinery
- Reduce flow velocity
- Reduce erosion
- Trap seed, sediment



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Silt Fence

- Establish perimeter control
- At toe of fill slopes
 - Slope up grade perpendicular to fence not > 1:1
- Around drop inlets
- Along streams and wetlands
- No more than ¼ acre drainage area per 100' of fence



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Silt Fence

- Water flow must be toward fabric side
- Bottom must be "trenched in"
- Should follow contour of land
- Ends should angle up the slope







Silt Fence: J-Hooking

Should follow contour







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Silt Fence

- Additional controls needed
- Posts leaning
- NOT for concentrated flow areas



JOB NUMBER: 1 DATE: 2 NOTICE OF COVERAGE POSTED: 5	DATE OF LAST INSPECTION: YES NO INSPECTIONS REQUIRED E	3 VERY 7 DAYS AND SWPPP	REPORT NO.: 4 TO BE UPDATED WITHIN 7 BUSINESS DAYS
L SILT FENCES:	SATISFACTORY 6	(1) 8	(1) 9
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ADDITIONAL CONTROLS NEEDED/OTHER) (3)	
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ADDITIONAL CONTROLS NEEDED/OTHER) (3)	(3)
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VII. OTHER: (specify)		(1)	(1)
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Diversion Ditches & Berms

- Can be formed of earthen dams, sandbags, wattles, Δ silt dikes
- Max drainage area
 5 ac.



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Diversion Ditch Linings

0.5% - 5%Seed & Mulch5% - 8%Seed + Erosion Control Matting8% or moreDumped Riprap
5% - 8% Seed + Erosion Control Matting 8% or more Dumped Riprap
8% or more Dumped Riprap

Diversion Ditch - Maintenance

- Maintenance
 - Inspect after rainfall
 - Remove debris
 - Remove sediment when traps become 50% full



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Slope Drains

 Device used to confine and transport surface water from one elevation to another, normally down an unprotected slope





See Erosion Control Manual p. B-8





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Slope Drains

- Ensure water will enter drain
- Check for washouts/excessive erosion



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Slope Drains





Ditch Checks

- Temporary barriers constructed of rock, sand bags, wattles, triangular silt dikes, or filter socks
- Placed across channel
- Reduce velocity of concentrated flow
- NEVER in a live stream



See Erosion Control Manual p. B-9

Ditch Check Installation

- 6" notch in top
 - Keeps water in flowline
- Extend up slopes
 So water doesn't go around
- Material to reinforce toe
- Use appropriate sized material
 - Larger rock is stronger
- Max drainage area = 10 acres



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Ditch Check Maintenance

- Inspect after rainfall
- Check toe for erosion
- If high velocity blow-out, use substantially larger rock
- Sediment traps may be excavated behind ditch checks



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Ditch Check Location

Never place in a live stream



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Sediment Basin

 A water storage area created by excavating a pond or placing an earthen embankment across a low area or drainage swale





See Erosion Control Manual p. B-18


Sediment Basin Location

- Ditch outlets
 - Periodically along or at end
- End of drainage structures
- Slope drain outlets
- Any location necessary to trap sediment prior to discharge offsite
- NEVER in a live stream





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Sediment Basin - Maintenance

- Side slopes/outlet need repair
- 50% filled with sediment
- Embankment overtopped
- Additional controls needed

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Sediment Traps - Maintenance

- Repair needed
- 50% filled with sediment
- Embankment overtopped
- Additional controls needed



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Cttp NPDES

JOB NUMBER: 1 DATE: 2 NOTICE OF COVERAGE POSTED: 5 VES_NO_INSPECTION:	3 S REQUIRED EVERY 7 DAYS AND SWP	REPORT NO.: 4
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F-7		11/1/16

Construction Exits

- At locations where construction traffic moves to the public road
- Limit offsite tracking
 - Green Book 110
 - CGP

CTT NPDES

- Responsibility of the Contractor
- Sweeping is not a substitute



See Erosion Control Manual p. B-22







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Wattles

- Tube of netting filled with coconut fiber, wood fiber, mulch, straw, or other organic material
- Diameters
 12", 18", 20"
- Used to divert or block stormwater
 - Silt Fence
 - Ditch Check
 - Diversion



See Erosion Control Manual p. B-23

Wattles









Triangular Silt Dikes

- Lightweight foam
- Reusable
- Durable

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- Can drive over them
- Can be used for:
 - Ditch checks
 - Diversion Ridges
 - Drop Inlet Silt Fence
 - Temporary Slope Drain



See Erosion Control Manual p. B-24

Triangular Silt Dike Installation

- Dimensions
 - Typical 7' length
 - Attach additional sections using sleeve
 - 8 14" high
 - 16 20" base
- Follow mfr's directions
- Bury apron in 3" trench
- Anchor w/ 8 to 10 staples
 - 6 8" long

• Anchor to pavement with liquid asphalt or adhesive



Triangular Silt Dike - Maintenance

- Additional inspection after rain
- Remove sediment at 50%





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Filter Socks

- Compost or non-treated wood encased in a 3-dimensional synthetic mesh tube
 - Typical diameters = 8 to 24 inches
- Serve as a filter (not a diverter)
 Good protection for sensitive waters
 - Good protection for sensitive waters
- Heavy when wet
- Don't have to trench
- Uses
 - Ditch checks
 - Perimeter/stockpile protection
 - Inlet protection



See Erosion Control Manual p. B-29







Erosion Eels

- Woven exterior
- Shredded rubber fill
- Silt fence or check dam alternative
- Inlet protection
- No trenching







Inlet Protection

- Silt fence is a dam . . . not a filter
- Drainage area should not exceed 1 acre



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Inlet Protection























Temporary Work Road/Stream Crossing

- Maintain natural flow and habitats
- Clean rock on top to filter sediment





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Temporary Concrete Washout Facilities

- Must have adequate holding capacity
- Impermeable bag or containment device
- After hardening, concrete may be broken up, removed, and disposed of
- Residue from coring/grinding operations will be picked up by vacuum device
 - Do not leave on pavement surface







JOB NUMBER: 1 DATE: 2 DATE OF LAST INSPECTION: NOTICE OF COVERAGE POSTED: 5 YES NO INSPECTIONS REQUIRED F	3 EVERY 7 DAYS AND SWPPP	REPORT NO.: 4 TO BE UPDATED WITHIN 7 BUSINESS DAYS
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Watering (Std. Specs Section 620)

- Permanent Seeding
 - April 1 through December 31
 - Initial application
 - 20,400 gallons of water per acre
 - Weekly application (at least 4 weeks)
 - ¾" per week, deduct rainfall

Solid Sod

- Initial application
- 20,400 gallons of water per acre
- Weekly application (at least 3 weeks)
 - ¾" per week, deduct rainfall



Erosion Control Matting Installation

- Install in vertical strips
 on slope
- Follow mfr's instructions for tacks/staples







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Erosion Control Matting

- Class 2 or Class 3 (typical)
- Extend to toe of slope





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Streambank Stabilization

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Underdrains



Help alleviate unstable soil conditions by preventing soils form becoming excessively wet









Inspections

- Performed by qualified personnel
 - Provided by the "operator" (ARDOT)
 - Inspect all disturbed areas, storage areas, affected areas, discharge locations, waterbodies, construction exits, downstream locations
- Frequency
- Every 7 calendar days, or
- Every 14 days <u>AND</u> within 24 hours of ¼" rainfall event
 - Rain gauge required on site
- Except when frozen or during adverse weather conditions
- Complete repairs within 3 business days of discovery



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	ARR150000 Inspection Form - Stormwater Pollution Prevention Plan							
	Inspector Name:		Date of Inspection:					
	Days Since Last Rain Event:	days Ra	infall Since Last Rain Event:	inches				
	Description of any Discharges During In Location of Discharges of Sediment/Oth	her Pollutant (specify polluta	nt & location):					
	Locations in Need of Additional BMPs:							
	Information on Location of Construction	Activities Activity Begin Date Occuring Now (y/n)?	Activity Stabilizatic Ceased Initiated D Date	on Stabilization Date Complete Date				
	Information on BMPs in Need of Mainte	enance						
	Location In Working Order?	Maintenance Scheduled Date	Maintenance Completed Date	Maintenance to be Performed By				
	Changes required to the SWPPP:	Re	asons for changes:					
	SWPPP changes completed (date):							
	"I certify under penalty of law that t direction or supervision in accordance the information submitted. Based on responsible for gathering the informat and complete. I am aware that there and imprisonment for knowing violatio	this document and all attachn with a system designed to en: my inquiry of the person or p ion, the information submitted are significant penalties for su ons."	tents such as inspection Form sure that qualified personnel p ersons who manage the syster is, to the best of my knowledg bmitting false information, inc	In were properly after an evaluate m, or those persons directly get and belief, two, excende, fluiding the possibility of fine				
cttp	Signature of Responsible or Cognizant (Official:		Date:				
NPDES L								

Inspections by ARDOT Completed by a "knowledgeable" person CTTP certification (5-yr certification) Annual refresher by NPDES Section Must be performed every 7 days (minimum) Check all BMPs, note items to be addressed Identify additional BMPs needed Describe discharge locations Identify locations of sediment Off-site impacts Complete inspection report

JOB NUMBER: 1 DATE: 2 NOTICE OF COVERAGE POSTED: 5	DATE OF LAST INSPECTION: YES NO INSPECTIONS REQUIRED E	3 VERY 7 DAYS AND SWI	REPORT NO.: PPP TO BE UPDATED WITHIN 7	4 BUSINESS DAYS
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OVERTOPPING WATER	() WASHOUTS () (2)	(2)	
AREA NEEDS STABILIZATION/VEGETATION	() EXCESSIVE EROSION (
ADDITIONAL CONTROLS NEEDED/OTHER	()) (3)	(3)	
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ADDITIONAL CONTROLS NEEDED/OTHER) (5)	(3)	
IV. SEDIMENT BASINS:	SATISFACTORY	(1)	(1)	
IF MAINTENANCE REQUIRED SPECIFY REASON AND DAT	E COMPLETED BY LOCATION #.	-		
SIDE SLOPES &/OR OUTFALL IN NEED OF REPAIR		(2)	(2)	
EMBANKMENT CONTAINMENT OVERTOPPED		(5)	(3)	
ADDITIONAL CONTROLS NEEDED/OTHER)		
V. CONSTRUCTION EXITS	SATISFACTORY	(1)	(1)	
SIGNIFICANT TRACKING ONTO ROADWAY?		(2)	(*)	
CLEAN FILL NEEDED?		(5)	(2)	
DOES ALL TRAFFIC USE EXIT Y/N?				_
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	F-7		11/1/16	



Inspection Report

- Complete and give to Contractor on day of inspection
 - Print and deliver
 - Enter in DocExpress and email
- Contractor must <u>complete</u> repairs within 3 business days of discovery
- Update as-built plans within 7 business days
- Document rainfall events
 - ½" or greater
 - During normal work hours





Supplemental Inspections

- Required when Contractor is halting work in an area
- Additional checks to verify Contractor is addressing deficiencies
 - Be familiar with Contractor schedules
- After significant storm event



Inspections by ADEQ

- Performed by ADEQ at any time
 - During normal business hours
- EPA has authority to inspect at any time
- USF&W, USACE
- Usually the result of complaints



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CLUP NPDES

Inspections by ADEQ

- Direct to ARDOT project inspector
- Notify Resident Engineer as soon as possible
- All parts of SWPPP must be available
 SiteManager records
- Be "pleasant, cooperative, and honest"
 - Just the facts
- Write a summary of the inspection
- Take pictures of any problems
- Respond to complaints in a timely manner
- Keep contractor informed













