Roadside Environmental

David B Harris, PE State Roadside Environmental Unit



Roadside Environmental Unit

- Erosion and Sedimentation Control Program
- Stormwater Update
- The Future

...LEARNING HOW TO MAKE **BOURBON THE RIGHT WAY—** FROM THE INSIDE OUT AND EVERYTHING IN BETWEEN. NO JOB TOO SMALL, NO TASK TOO TEDIOUS.'

Erosion and Sedimentation Control Program

- 1973 Sedimentation Pollution Control Act
 - NCDOT Delegated Authority for Erosion and Sediment Control Program

- 1991 NCDOT Revised Delegated Authority
 - NCDOT Revised Delegated Authority for Erosion and Sediment Control Program

Erosion and Sedimentation Control Program

- 1991 Revised Delegation Agreement
 - Wayne Bailey, PE Chief Engineer
 - New Commitment
 - Increased Responsibility



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION P.O. BOX 25201 RALEIGH 27611-5201

JAMES G. MARTIN GOVERNOR DIVISION OF HIGHWAYS

THOMAS J. HARRELSON SECRETARY

March 22, 1991

WILLIAM G. MARLEY, JR., P.E. STATE HIGHWAY ADMINISTRATOR

MEMORANDUM TO: Mr. D. W. Bailey, PE

Chief Engineer - Operations

FROM:

William G. Marley, Jr., PE WM State Highway Administrator

SUBJECT:

Sediment and Erosion Control Program

Attached is a signed copy of the NCDOT Division of Highways Sediment and Erosion Control Program document that has been approved by the Sedimentation Control Commission. By this approval, the Commission has delegated to NCDOT the authority to administer a sediment and erosion control program within the jurisdiction of our department.

This new Program has been worked out successfully over many months of consultation and coordination with the Commission and DEHNR staff. Mr. Charles Gardner, Director of the Division of Land Resources, has expressed appreciation to all NCDOT personnel involved in this effort. He has singled out Berry Jenkins and Bill Johnson for their special help and hard work. Because of my own involvement in development of this Program, I know firsthand this special recognition is well deserved. I join Mr. Gardner in expressing my appreciation to these two men for a job well done.

Delegation of authority to self - regulate is a privilege that must be well attended. Please make certain that our new Program is implemented and administered effectively, such that our department is in compliance with Law and regulations issued by the Commission.

WGM/srj

cc: Secretary Thomas J. Harrelson
Deputy Secretary Jake F. Alexander
Mr. J. T. Peacock, Jr., PE
Mr. Jack Murdock
Mr. B. G. Jenkins, Jr., PE
Mr. W. D. Johnson

Mr. Charles H. Gardner, PE

An Equal Opportunity/Alfirmative Action Emolouse

The Basic Objectives

- 1) Identification of Critical Areas
- 2) Limited Time of Exposure
- 3) Limit Exposed Area
- 4) Control Surface Water
- 5) Control Sedimentation
- 6) Manage Storm Water Runoff

Erosion and Sedimentation Control Program

- 1991 Revised Delegation Agreement
 - Review and approve erosion control plans
 - Monitor and inspect land disturbing activities that are associated with the construction and maintenance of highway facilities.
 - Immediate Corrective Action (ICA) Procedures Developed

Erosion and Sedimentation Control Program

- NCDOT must maintain Operational Control
 - Secretary
 - Chief Engineer
 - Division Engineer
 - Maintenance Engineer
 - CME
 - Project Staff





- 1) Bourbon must be made in the United States.
- 2) Bourbon must be made using at least 51% corn.
- 3) Bourbon must be aged in new, charred oak containers (barrels).
- 4) Bourbon must not be distilled higher than 160 proof.
- 5) Bourbon must not be put into a barrel higher than 125 proof.
- 6) Bourbon must be bottled at 80 proof or higher.
- 7) Bourbon must not contain any flavorings or colorings.

Bourbon

Mash Bill

- Corn
- Rye
- Barley



Bourbon

• Endless options of what can be accomplished.



2021 Annual Delegation Review

- Annual Review of the Departments delegated program for Erosion and Sediment Control
 - 15 Construction Projects randomly selected
 - 1 Maintenance Project randomly selected



Issues Identified

- Minor Sediment Loss
- Sediment tracking onto road
- Concrete Washout Structures
- Notification to DEMLR









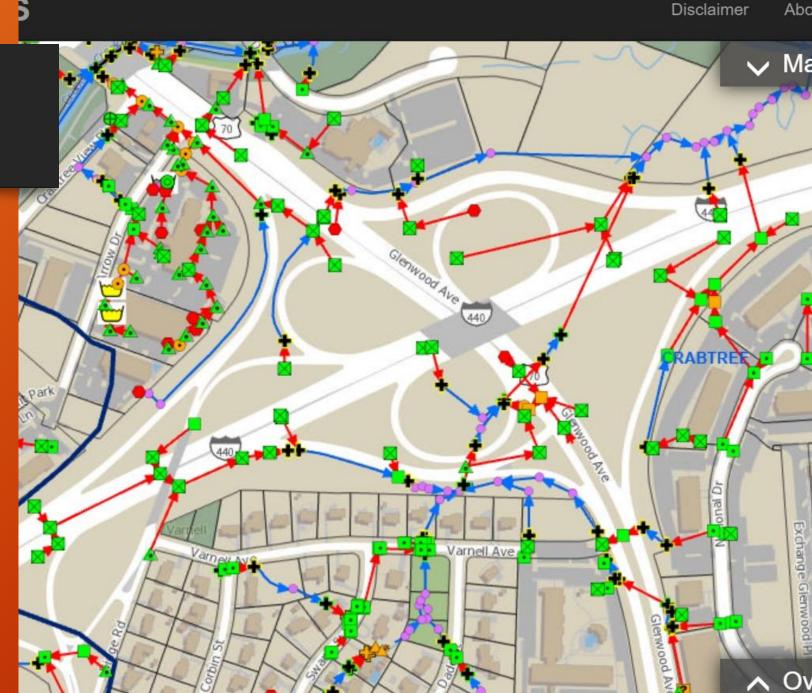


- Issued in 1998
- Renewed every 5 years
- Permit authorizes NCDOT to discharge stormwater from our roadways, rail, and nonroadway facilities
- New projects receive automatic permit coverage
- Compliance managed by Hydraulics and REU

- So why is this important
- NCDOT does NOT have to:
 - Apply for local government stormwater permits
 - Apply for state stormwater permits
 - Pay municipal stormwater utility fees

- Permit Renewal 2022
 - Evaluate/address stormwater pollution potential to prevent sediment, particulates, litter, and debris from being discharged into surface waters, by:
 - Perform inspection at each major outfall
 - Perform inspections concurrent with bridge inspections
 - Assign stormwater pollution prevention Tiers I-III for outfalls
 - Implement BMPs at Tier 1 outfalls to prevent discharge of pollutants
 - Include: capture technologies, improved inlet grate designs, street sweeping, litter/debris removal, scheduled inlet/CB inspections/cleaning

- Permit Renewal
 - Mapping the Stormwater System











Inspection and Maintenance

Inspection & Maintenance

- Failed SCM outlet structures
- SCMs not properly converted to permanent SCMs post construction
- Ineffective SCMs from design or installation issues





Illicit Discharges/ Illegal Dumping

 NCDOT must report illicit discharges/ illegal dumping



NCDOT NPDES PERMIT

HIGHWAY STORMWATER PROGRAM

ILLICIT DISCHARGE DETECTION AND ELIMINATION PROGRAM* FIELD REPORT (FORMALLY ILLICIT CONNECTION & ILLEGAL DISCHARGE)

Pollution Source Observed Date Identified:	- , . –	NCDOT Personnel General Public, Name		NCDOT Contractor		Adopt-A-Highway
Notes from Reporter:						
Investigator	Nan	ne:				
Information: Phone:			(Last)	Position:	(Fir	,
Location: NCDOT Division Highway or Site: Specific Location Info.:	on:	County: Near	est Interse	City ection or Mile Post:	:	
Latitude Longitude (option	nal)					
Type of Stormwater Struct Ditch (Size, Type) Manhole Grate			ze, Type)			Catch Basi
Physical Observations:	☐ Dum	p Disch	arge	Flow: Yes	☐ No	
	Rotten Eggs Other:	☐ Fishy ☐ Skunk	Vegetat ☐ None	ion Condition (If applie		☐ Inhibited Growth
		☐ Green ☐ Gray	Land Us		☐ Industri	ial Rural
		☐ Chemical	Source:	Residential Somercial/Industrial Other		r Spill Release
Comments:			•			
	FOR ROAD	SIDE ENVIRONM	ENTAL UN	NIT STAFF USE ONL	Y	
Date Received:		Processed B	y:			
Forward Report to NCDEQ:	-	Yes; Date: _		(Last)	Whom:	(First)
	sion) (Co	unty) #		: Data	base Entr	y Date:
Follow I in and Remarks:						

The Future

- Who will carry on for the next generation?
- Have you passed on your knowledge and experience to others?
- The success of the program depends on everyone working together to be successful.



Questions

