

# **Clear Water Alabama: A Construction Stormwater Educational Program**

**AL Soil and Water Conservation  
Committee and Partners**



**NACD Urban Conservation Committee Webinar  
November 17, 2016**

**Earl Norton, CPESC, Auburn, AL  
Erosion and Sediment Control Program Coordinator  
AL Soil and Water Conservation Committee  
earl\_norton@yahoo.com 334.728.4107**

# Clear Water AL began as Red Water Blues Days in 2004

- *Program developed to show and tell erosion and sediment control industry how to install best management practices*
- *Five field days (5 Thursdays in September)*



Construction Exit Pad



Mulching  
w/wheat straw

# Red Water Blues Days 2004-2007



Demonstrated BMPs on non-agricultural sites  
*on a Variety of Site Categories each year*

- *residential*
  - *commercial*
    - *roadways*
      - *community services land*



# Red Water Blues Days, 2004-2007

- Steep slope and channel stabilization - *hydraulic mulches, erosion control blanket, rock rip-rap*
- Inlet protection in subdivisions and commercial sites – *various Inlet protection devices*
- Sediment control at site perimeters using *silt fence*



2008 –changed names

Red Water Blues became Clear Water AL

Program became a 2-day event:  
all-day seminar followed by all-day field day

Topics included improved sediment basin technology  
and turbidity control from the “*experts*”

Dr. Al Jarrett (Penn State) & Dr. Rich McLaughlin (NC State)





# 2009 Clear Water Alabama - Bessemer

## Seminar

- Sediment basin design – Perry Oakes
- More on ESC strategies - Dr. McLaughlin
- Added low impact development (LID)

2 of 29 field sites visited during Field Day



Retaining Wall



Drill Seeding

# 2010 Clear Water Alabama - Auburn

## Seminar provided

Sediment basins on linear projects – Ted Sherrod  
from NCDOT

Streambank restoration - Dr. Eve Brantley from AU

Turbidity sampling – Dr. Jim Spotts,  
consultant from GA

## Field Day



Streambank  
Restoration



Turbidity Sampling



LID

# 2011 Clear Water Alabama

Partnered with IECA for 3-day event at Birmingham  
(IECA Roadshow)

Seminars 2 days + Field Day

Update from EPA rep

Research updates from Auburn University

LID basics – NC State representative

Turbidity control and other topics – Dr. Rich  
McLaughlin, NC State

MS4 responsibilities in stormwater – Rod Long of  
City Engineer, City of Hoover

Introduced place of ESC in LEED

Project installation successes – TN, GA, AL

Turbidity Sampling – Dr. Spotts and Beth Chesson



# 2011 Clear Water Alabama

## 2011 Partnered with IECA for 3-day event



**Shades Creek Stream  
Restoration**



**Mined Land Reclamation**

**Field  
Day**



**LID at RR Park**



**Corridor X (Interstate -22)**

# 2012 Clear Water Alabama – 2 locations Huntsville and Spanish Fort

## Seminars provided

Wetlands regulations - ArmyCOE

Turbidity sampling – Dr. Jim Spotts, John Carlton

ESC Case Studies

LID

## Field Days



**Joe's Branch  
Gully Stabilization**



**DOT & Wetlands**



**Vulcan Quarry**



# Clear Water AL Supporters Over The Years

## **Industry – with Products**

Sunshine Supplies

American Excelsior

Hanes Geo

Pennington Seed Co

Silt Saver, Inc. Erosion Pros, L.L.C.

W. J. Faircloth and Son, Inc.

Applied Polymer Systems, Inc.

Thompson Engineering

Spread Rite Environmental

Twin Oaks Environmental

Southern Pipe and Supply, Inc.

Southeast Environmental Consultants



# Clear Water AL Supporters over the Years

## **Industry w/o products: with members, staff, funds**

- Associated General Contractors – Alabama
- Home Builders Association of Alabama
- CPESC and EnviroCert International, Inc.
- IECA – Southeast Chapter
- Alabama Power Company

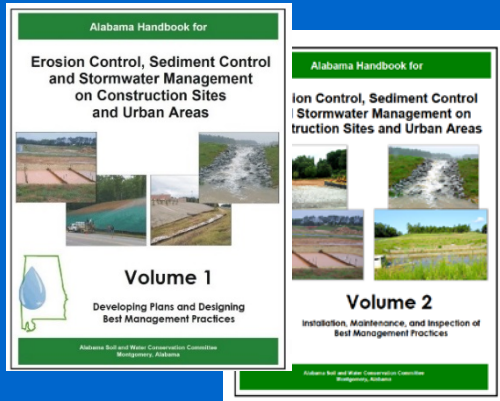
## **Agencies and Organizations – provide staff support**

- ADEM and ALDOT
- NRCS
- Soil and Water Conservation Society
- Auburn University and AL Cooperative Ext. System
- Local soil and water conservation districts
- Host cities

## **Other Related Stormwater Activities**

- **Handbook for Erosion Control, Sediment Control and Stormwater Management**
- **Field Guide for Erosion and Sediment Control on Construction Sites**
- **Seminars in addition to Clear Water AL**
- **Brochure "Let's Look at Sediment"**

# Handbook for Erosion Control, Sediment Control, and Stormwater Management

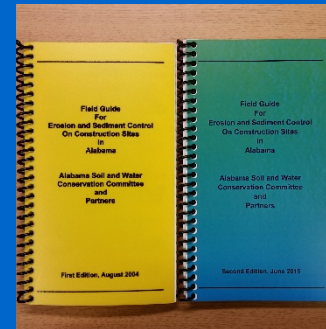


2002, 2003, 2006, 2009, 2014

## 24 Clear Water Alabama Seminar and Field Days



## Field Guide for Erosion and Sediment Control on Construction Sites

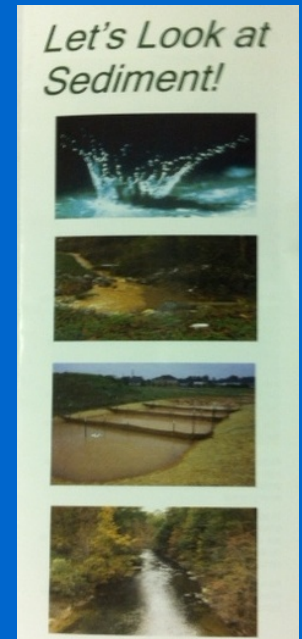


2004 2015 rev.  
19,000+ copies

## 33 other Seminars



## Brochure "Let's Look at Sediment"



25,000  
Copies



## SWCS Chapter spawned and nurtured the AL Statewide Erosion and Sediment Control Program

- AL Chapter SWCS developed vision plan and signed MOU with AL Soil and Water Conservation Committee in early 2001
- 16-yr. program began in September 2001
- SWCS AL Chapter provides Coordinator;  
AL Soil and Water Conservation Committee  
supervises Coordinator
- Funds Administered by SWCS AL Chapter
  - 319 grant funds 2001-2011 = \$455,500
  - State funding since 2012, currently \$70,000
  - Revolving funds support Clear Water AL, Handbooks, Field Guides (i.e. Sales)

## **Latest Accomplishment:** **Coordination of Training Calendar**

Soil and Water Conservation Committee  
AL Clean Water Partnership  
AL Chapter - Soil & Water Conservation Society  
AL Department of Environmental Management  
AL Department of Transportation  
Auburn University and AL Cooperative Extension System  
AL Association of Conservation Districts  
Associated General Contractors - AL  
Home Builders Association of AL  
Natural Resources Conservation Service  
Thompson Engineering  
Weeks Bay National Estuarine Research Reserve

**Website for events:** provided by Auburn University Erosion Control Test Facility  
<http://eng.auburn.edu/research/centers/auesctf/al-stormwater/upcoming-events.html>

# Clear Water AL: A Construction Stormwater Educational Program



**AL Soil and Water Conservation Committee and Partners**

**Benefitting the environment  
and  
the citizens of Alabama**

**Thank you!      Questions?**

- Earl Norton, CPESC, Auburn, AL
- Erosion and Sediment Control Program Coordinator
- AL Soil and Water Conservation Committee
- earl\_norton@yahoo.com      334.728.4107