

Sustainable Sandhills Community Conference

Water Workshop Presentation

May 8, 2003

Sustainability Impact Focus Area:

Team Members:

Paul Rawls	DENR, Division of Water Quality
Rob Duffy	Kelly Springfield Tire, Co.
Don Freeman	Cape Fear River Assembly
Craig Lantz	Fort Bragg, PWBC
George Frank	Fort Bragg, ITAM
Herman Crawford	Fort Bragg, PWBC
Elaine Johnson	The Sandhills Family Heritage Association
Gail Lindsey	Design Harmony Incorporated
Jim Autry	PWC of Fayetteville
Keyes McGee	DENR, Div. Of P2
Melonie Allen	Fort Bragg, PWBC

Current Reality:

- Stormwater management
- Quantity and quality of drinking water prior to treatment
- Lack of education and awareness for managers, engineers, architects, public, law makers
- Lack of holistic water conservation policy and planning
- Wastewater discharges to surface waters
- Economic and political barriers
- Chemical contamination

Strategy #1:
Develop Awareness/Education Programs

Strategy #2:
Develop and Implement a Comprehensive Regional Drinking Water, Wastewater, and Stormwater Master Plan

Strategy #3:
Create Innovative Incentives and Mechanisms to Encourage Low-impact Development and Cleaner Industries

Regional Community Committed to Valuing, Protecting, and Enhancing Water Quality and Quantity for the future

Current Realities

Sandhills Regional Water Issues

1. Stormwater management

- High nutrient loads to surface waters (agribusiness, residential, golf courses)
- More sprawl, lack of low-impact development
- Outside industrial processes contaminating stormwater discharge
- Stream channelization
- Sedimentation and siltation of natural water bodies

2. Quantity and quality of drinking water prior to treatment

3. Lack of education and awareness for managers, engineers, architects, public, law makers

4. Lack of holistic water conservation policy and planning

- Increase in water use (i.e., buildings, landscaping, golf courses, industry)
- Water shortages due to interruption of hydrologic cycle by man; groundwater recharge can't keep up with demand
- More withdrawal from natural sources than discharged back

5. Wastewater discharges to surface waters

6. Economic and political barriers

- Limited funding for public water and sewer infrastructure
- Sanitary sewer overflows
- The \$ rules; profit comes before environment

7. Chemical contamination

- Mercury
- High pesticide and herbicide use in landscaping, agriculture, forestry, golf courses, residential
- Groundwater pollution and contamination by chemicals and septic systems
- Accidental spills (petroleum products)

Strategy #1 and Objectives

Strategy 1: Develop Awareness/Education Programs

- Objective 1* – Create a Sustainable Sandhills Water Team (SSWaT) that will be spearheaded by Fort Bragg and DENR; comprised of a cross-section of stakeholders in the Sandhill Region; and organized by May 2004
- Objective 2* – SSWaT will develop Public Awareness Campaign with the leadership of local community outreach groups by 2006
- Objective 3* – Begin implementation of Awareness/Education Programs by 2007
- Objective 4* – Establish review/feedback and update process for continuous improvement by 2007

Strategy #2 and Objectives

Strategy 2: Develop and Implement a Comprehensive Regional Drinking Water, Wastewater, and Stormwater Master Plan

- Objective 1* – Create a Sustainable Sandhills Water Team (SSWaT) that will be spear-headed by Fort Bragg and DENR; comprised of a cross-section of stakeholders in the Sandhill Region; and organized by May 2004
- Objective 2* – SSWaT will develop Comprehensive Drinking Water, Wastewater, and Stormwater Master Plan with input from regional stakeholders, by 2006 (e.g., Research and develop innovative treatment methods for drinking water)
- Objective 3* – Seek general public comments on SSWaT Master Plan by 2007
- Objective 4* – Begin implementing SSWaT Master Plan by 2008
- Objective 5* – Establish review/feedback and update process for continuous improvement by 2008

Strategy #3 and Objectives

Strategy 3: Create Innovative Incentives and Mechanisms to Encourage Low-impact Development and Cleaner Industries

- Objective 1* – Create a Sustainable Sandhills Water Team (SSWaT) that will be spear-headed by Fort Bragg and DENR; comprised of a cross-section of stakeholders in the Sandhill Region; and organized by May 2004
- Objective 2* – SSWaT will propose innovative incentives and mechanisms with input from regional stakeholders by 2006
- Objective 3* – Begin implementing SSWaT innovative incentives and mechanisms by 2008
- Objective 4* – Establish review/feedback and update process for continuous improvement by 2008

Desired End State

*A Regional Community Committed
to Valuing, Protecting, and
Enhancing Water Quality and
Quantity for the future*

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*The Sandhills Region Invites You to
Enjoy its Heritage of Plentiful,
High Quality, and Natural Waters*

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League of Municipalities
Agribusiness Associations
Pork Council
Seven Counties Governments
The Nature Conservancy
Golf Course Association/s
Sandhills Landtrust Conservancy
DENR, DWR