

# ***Natural Resource Plan***

Water Resource Management

RRSC Meeting

January 19-20, 2011





# Water Resource Management: Coverage in the NRP

The highlighted line below shows how Water Resource Protection & Improvement is covered by the NRP, IRP, and ROS

Environmental Policy Objective	Coverage			
	IRP	NRP	ROS	Sustainability Plan
Climate Change Mitigation	✓			
Air Quality Improvement	✓			
Water Resource Protection & Improvement	✓	✓	✓	
Waste Minimization				✓
Sustainable Land Use	✓	✓		
Natural Resource Management		✓	✓	



# Water Resource Management: Program Overview

**Water Resource Management programs address one major component:**

- ◆ Valley-wide water quality improvement in streams, rivers, and reservoirs

<b>Program Category</b>	<b>Program</b>
<b>Water Resource Improvement Programs</b>	Water Resource Improvement Campaign
	Targeted Reservoir Initiative Program
	Targeted Watershed Initiative Program
	Water Resource Grant Program
	Reservoir Shoreline Stabilization
<b>Aquatic Monitoring and Management</b>	Aquatic Ecology Management
	Stream and Tailwater Monitoring Program
<b>Partnership Programs</b>	Strategic Partnership Program
	Case Study/Research Initiative
<b>Public Outreach Programs</b>	Tennessee Valley Clean Marina Program
	Water Resource Outreach Campaign



# Water Resource Management: Water Resource Improvement Programs



## Key Facts

- ◆ Builds partnerships
- ◆ Provides technical support
- ◆ Implements best management practices
- ◆ Improves water quality and reduces water pollution

Program	Custodial	Flagship
Water Resource Improvement Campaign	<ul style="list-style-type: none"> <li>◆ Implement water quality improvement efforts to reduce 720 tons of suspended sediment and 1,100 pounds of phosphorus reaching streams per year</li> </ul>	<ul style="list-style-type: none"> <li>◆ Implement fewer water quality improvement efforts to reduce 360 tons of suspended sediment and 550 pounds of phosphorus reaching streams per year</li> </ul>
Targeted Reservoir Initiative Program	<ul style="list-style-type: none"> <li>◆ N/A</li> </ul>	<ul style="list-style-type: none"> <li>◆ Develop and implement reservoir specific pollution management plan</li> <li>◆ Reduce 5,000 pounds of phosphorus reaching the reservoir per year</li> </ul>



# Water Resource Management: Water Resource Improvement Programs (Cont'd)



## Key Facts

- ◆ Builds partnerships
- ◆ Provides technical support
- ◆ Implements best management practices
- ◆ Improves water quality and reduces water pollution

### Program

Targeted Watershed Initiative Program

### Custodial

- ◆ N/A

### Flagship

- ◆ Implement water quality improvement efforts to reduce 1,300 tons of suspended sediment and 2,000 pounds of phosphorus reaching streams per year
- ◆ Deliver 75 stakeholder products to support water quality improvement efforts
- ◆ Improve the water quality in one watershed every three years



# Water Resource Management: Water Resource Improvement Programs (Cont'd)



## Key Facts

- ◆ Builds partnerships
- ◆ Provides technical support
- ◆ Implements best management practices
- ◆ Improves water quality and reduces water pollution

Program	Custodial	Flagship
Water Resource Grant Program	◆ N/A	◆ Develop and implement grant program that targets areas with documented water quality problems
Reservoir Shoreline Stabilization	◆ N/A	◆ Stabilize 8 miles of critically eroding shoreline



# Water Resource Management: Aquatic Monitoring and Management



## Key Facts

- ◆ Manages aquatic exotic invasive species
- ◆ Protects and enhances aquatic habitat
- ◆ Assesses stream and tailwater conditions
- ◆ Shares data from stream and tailwater assessments

Program	Custodial	Flagship
Aquatic Ecology Management	◆ N/A	<ul style="list-style-type: none"> <li>◆ Partner and actively participate in restoring aquatic biological communities</li> <li>◆ Develop and evaluate public outreach opportunities</li> </ul>
Stream and Tailwater Monitoring Program	<ul style="list-style-type: none"> <li>◆ Conduct 50 stream assessments per year</li> <li>◆ Share stream and reservoir assessment data when requested</li> </ul>	<ul style="list-style-type: none"> <li>◆ Conduct 150 stream assessments per year</li> <li>◆ Develop interactive web-based site to share stream and reservoir assessment data</li> </ul>



# Water Resource Management: Partnership Programs



## Key Facts

- ◆ Promotes a collaborative approach to problem solving
- ◆ Increases strategic planning across agencies
- ◆ Advances expertise of emerging issues and solutions

Program	Custodial	Flagship
Strategic Partnership Program	<ul style="list-style-type: none"> <li>◆ Maintain existing relationships and partnerships</li> </ul>	<ul style="list-style-type: none"> <li>◆ Maintain existing relationships and partnerships</li> <li>◆ Develop new and enhance existing relationships and partnerships</li> </ul>
Case Study/ Research Initiative	◆ N/A	<ul style="list-style-type: none"> <li>◆ Implement and export 3 case studies and/or research initiatives</li> </ul>



# Water Resource Management: Public Outreach Programs



## Key Facts

- ◆ Promotes benefits of water quality and water conservation
- ◆ Encourages environmentally friendly actions

### Program

Tennessee Valley Clean Marina Program

### Custodial

- ◆ Maintain certification for 80 marinas

### Flagship

- ◆ Enhance guidelines for improved water quality and water conservation benefits
- ◆ Certify 2 new marinas per year
- ◆ Maintain certification for 80 marinas

Water Resource Outreach Campaign

- ◆ Promote water resource improvement and protection through development and sharing of 20 stakeholder products per year

- ◆ Promote water resource improvement and protection through development and sharing of 70 stakeholder products per year