Partners

Funding is being provided by:

- A grant from the NYS Department of State’s Local Waterfront Revitalization Program

- Orange County Water Authority
Partners who have committed to providing in-kind support include:

- Ulster County Planning Department
- Orange County Soil & Water Conservation District
- Orange County Land Trust
- Quassaick Creek Watershed Alliance
Water Quality
Recreation

- Cronomer Hill & Algonquin County Parks
- Chadwick Lake
- Delano-Hitch Park
- Little Falls park
- Snake Hill
Quassaick Creek’s Watershed - Biological

• *Important species:*
  - wood turtle
  - woodland agrimony
  - narrow-leaved sedge
  - bald eagle
  - upland sandpiper

• *Red Maple-Hardwood Swamp*
Creating a vision for the Quassaick Creek Watershed

- Vision Statement
- Goals
- Objectives
Engaging the public

• Identifying stakeholder groups
• Getting the community to participate
• Hold at least three public meetings
Gathering information

- Land use and zoning
- Public water supplies
- Sewer infrastructure
- Stormwater infrastructure
- Habitat and rare species
- Water quality
- Public recreation areas
Collecting new information

• Collect stream water quality data
• Locate sites for:
  – Public access
  – Stormwater retrofits
  – Conservation
• Inventory dams
• Finding new contamination sites
Assessing the Watershed

- Impervious surfaces
- Water quality relationships to land uses
- Build-out projections
- Runoff and pollutant loading
Reviewing regulations and programs

• Nonpoint source pollution
• Stormwater management
• Habitat protection
• Habitat restoration
Recommending improvements

- Protect
- Enhance
- Restore
Sample recommendations:

- Stormwater remediation
- Habitat restoration
- Dam removal
- Educational programs
- Enhancements to regulations or programs
Setting a schedule for action

- *Prioritize recommendations*
- *Cost estimates*
- *Funding sources*
- *Phasing schedule*
DATA NEEDS
DATA NEEDS

• Gathering existing data
  – Master Plan Studies, County GIS, State/Federal GIS

• Develop/update layers
  – Watershed delineation
  – Sub-watershed delineation (resolution with UC)
DATA NEEDS

• Data Gaps
  – Land Use
  – Impervious Cover
  – Stormwater BMP Locations
  – Existing Green Infrastructure
  – Existing Public Access Areas
  – Flow Data
  – Barriers to Fish Passage (NHD, NOAA?)
Role of Committee

- Provide information
- Provide local contacts and resources
- Give feedback on products, outreach efforts, & how to move forward
- Help with implementation within community
PUBLIC PARTICIPATION
Public Participation Meeting #1

- Identify additional nonpoint source pollution sites
- Feedback on vision, goals
- Feedback on watershed characterization report
Public Participation Meeting #2

Public review of Recommendations
Public Participation Meeting #3

Public review of full Watershed Plan
PRELIMINARY VISION & GOALS
BEFORE WE BEGIN…

• **Purpose**
  – Defines the scope of the WMP
  – Focuses planning efforts

• **Starts with identifying issues/concerns**

---

**SOURCE OF STRESSOR**
- Increased Impervious Surface

**STRESSOR**
- Increased Stormwater

**IMPACT**
- Channel Instability

**IMPAIRMENT**
- Impaired Benthic Habitat
# ISSUES OF CONCERN

**What do we already know?**

- Known or perceived impairments?
- Causes/sources of impairments?
- Historical/on-going management controlling the stressors?
- Threats to future conditions?
ISSUES OF CONCERN
What are the ecosystem issues?

- What are the sensitive habitats and buffers?
- What condition are these in?
- What problems face these habitats (inv. sp., climate change, fragmentation, change in protection status)?
VISION FOR THE WATERSHED

• What concerns you?
• What is important?
• What do we want to achieve?
• What is realistic?
EXAMPLE WATERSHED VISIONS

• To maintain and enhance water quality and ecological health in and along the Bronx River and its tributaries, which is essential to the economic well-being, environmental and public health, recreation opportunities, and quality of life for the local governments, residents, and visitors of the Bronx River and Long Island Sound watersheds.
  – *Bronx River WA&MP*

• Lake George Watershed Management Plan will ensure a healthy watershed, clean water, biodiversity and a sustainable environment for residents and wildlife.
  – *Lake George WMP, NY*
<table>
<thead>
<tr>
<th>VISION FOR THE WATERSHED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Partnerships/Collaborative</td>
</tr>
<tr>
<td>Recreation/Open Space</td>
</tr>
<tr>
<td>Sustainable Practices</td>
</tr>
<tr>
<td>Enhance Knowledge</td>
</tr>
</tbody>
</table>
PRELIMINARY GOALS

- Broad-based
- Goals evolve through planning process
- Measurable objectives & indicators will be developed
PRELIMINARY GOALS

• Example Goals

<table>
<thead>
<tr>
<th>Goal (Broad)</th>
<th>Goal (Broad)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Improve public access</td>
<td>Adopt LID principles</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Objective (Specific)</th>
<th>Objective (Specific)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Increase land-to-water recreation opportunities</td>
<td>Increase education of LID tools</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Indicator (Numeric)</th>
<th>Indicator (Numeric)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 more access points in 5 years</td>
<td>Develop/disseminate guidance material</td>
</tr>
</tbody>
</table>
Thank You

Questions