

## ***Chapter 6 – Watershed Goals and Objectives***

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Eight (8) long-term watershed goals were developed by the USR Watershed Advisory Group (WAG) after consideration of discussions held during monthly meetings over a two-year period, as well as input from the public over the course of three (3) public meetings. Table 6.1 summarizes the long-term goals established for the USR watershed.

**Table 6.1 Long-Term Goals for the Upper-2 Shiawassee River Watershed**

<b>1.</b> Protect and improve the warmwater fishery and conditions for other indigenous aquatic life and wildlife.
<b>2.</b> Protect partial and total body contact recreation.
<b>3.</b> Reduce stormwater runoff quantities to the maximum extent practicable.
<b>4.</b> Ensure sustainable growth and development.
<b>5.</b> Preserve the rural character of the area.
<b>6.</b> Protect the public groundwater drinking water supply.
<b>7.</b> Increase opportunities for passive and active recreation.
<b>8.</b> Implement the Upper-2 Shiawassee River Watershed Management Plan.

Each long-term goal will be met by a series of long-term objectives. Each of these specific objectives will subsequently be met by each watershed community and agency carrying out specific tasks, or series of vegetative, structural and non-structural BMPs, which are all designed to treat, prevent, or reduce water pollution. The emphasis will be on pollution prevention BMPs. The BMPs that each watershed community/agency will continue to implement or will consider implementing to meet the watershed goals and objectives are described in detail in Chapter 7 and outlined in a comprehensive action plan matrix in Section 8.2 of Chapter 8.

Table 6.2 summarizes the watershed goals and associated objectives that have been selected by the USR WAG to restore, protect and enhance the designated uses and desired uses of the watershed.

**Table 6.2 Long-Term Goals and Objectives for the Upper-2 Shiawassee River Watershed**

<b>Long-Term Goal</b>	<b>Long-Term Objective</b>	<b>Designated/Desired Uses Addressed</b>
1. Protect and improve the warmwater fishery and conditions for other indigenous aquatic life and wildlife.	1.1 Reduce sediment loading and associated turbidity.	<ul style="list-style-type: none"> <li>• Warmwater Fishery</li> <li>• Other indigenous aquatic life and wildlife</li> <li>• Partial and total body contact recreation</li> <li>• Preservation of rural character</li> <li>• Enhance passive and active recreational opportunities</li> </ul>
	1.2 Reduce nutrient loading.	
	1.3 Stabilize hydrologic flows.	
	1.4 Enhance and protect riparian areas and in-stream habitat.	
	1.5 Identify and protect high-quality natural areas throughout the watershed.	
	1.6 Provide public education for area residents, businesses, industries, contractors, developers, students, community groups, municipal employees and riparian landowners on the negative environmental impacts from nonpoint source pollution (NSP).	
	1.7 Identify and eliminate sources of pathogens.	
	1.8 Keep informed on development of TMDLs and remediation efforts from previous point source pollution events.	
	1.9 Increase surface water quality, surface water quantity and biological monitoring in the watershed.	

**Table 6.1 Long-Term Goals and Objectives for the Upper-2 Shiawassee River Watershed (continued)**

Long-Term Goal	Long-Term Objective	Designated/Desired Uses Addressed
2. Protect partial and total body contact recreation.	2.1 Reduce sediment loading and associated turbidity.	<ul style="list-style-type: none"> <li>• Warmwater Fishery</li> <li>• Other indigenous aquatic life and wildlife</li> <li>• Partial and total body contact recreation</li> <li>• Protect public groundwater drinking supply</li> <li>• Preservation of rural character</li> <li>• Enhance passive and active recreational opportunities</li> </ul>
	2.2 Reduce nutrient loading.	
	2.3 Identify and eliminate sources of pathogens.	
	2.4 Provide public education for area residents, businesses, industries, contractors, developers, students, community groups, municipal employees and riparian landowners on the potential impacts to public health from nonpoint source pollution sources (household hazardous waste, failing OSDS, misuse of fertilizers/pesticides, etc.).	
	2.5 Increase surface water quality, surface water quantity and biological monitoring in the watershed.	
3. Reduce stormwater runoff quantities to the maximum extent practicable.	3.1 Ensure adequate stormwater quantity control with use of appropriate stormwater BMPs.	<ul style="list-style-type: none"> <li>• Warmwater Fishery</li> <li>• Other indigenous aquatic life and wildlife</li> <li>• Partial and total body contact recreation</li> <li>• Protect groundwater drinking supply</li> <li>• Preservation of rural character</li> <li>• Enhance recreational opportunities</li> </ul>
	3.2 Ensure land use planning evolves in a way that protects and improves the designated and desired uses in the watershed.	
	3.3 Provide land managers with information on applicable BMPs throughout the watershed.	
	3.4 Increase surface water quality, surface water quantity and biological monitoring in the watershed.	
4. Ensure sustainable growth and development.	4.1 Implement land use policies that protect the water and natural resources.	<ul style="list-style-type: none"> <li>• Warmwater Fishery</li> <li>• Other indigenous aquatic life and wildlife</li> <li>• Partial and total body contact recreation</li> <li>• Protect groundwater drinking supply</li> <li>• Preservation of rural character</li> </ul>
	4.2 Educate land use planners on sustainable growth and development practices.	
	4.3 Increase regional planning efforts and implementation among local units of government.	
5. Preserve the rural character of the area.	5.1 Protect and mitigate the loss of high quality natural features.	<ul style="list-style-type: none"> <li>• Warmwater Fishery</li> <li>• Other indigenous aquatic life and wildlife</li> <li>• Preservation of rural character</li> <li>• Enhance recreational opportunities</li> </ul>
	5.2 Preserve open space and protect/enhance greenway corridors.	
	5.3 Preserve prime agricultural land.	
6. Protect the public groundwater drinking water supply.	6.1 Provide public education for area residents, businesses, industries, contractors, developers, students, community groups, municipal employees and riparian landowners on the sources, causes and prevention of pollutants that can affect the groundwater supply.	<ul style="list-style-type: none"> <li>• Warmwater Fishery</li> <li>• Other indigenous aquatic life and wildlife</li> <li>• Partial and total body contact recreation</li> <li>• Protect groundwater drinking supply</li> </ul>
	6.2 Protect groundwater recharge areas and wellhead protection areas from the introduction of contaminants.	
	6.3 Identify and eliminate sources of pathogens.	
7. Increase opportunities for passive and active recreation.	7.1 Develop or update recreation plans that are consistent with watershed goals.	<ul style="list-style-type: none"> <li>• Other indigenous aquatic life and wildlife</li> <li>• Preservation of rural character</li> <li>• Enhance recreational opportunities</li> </ul>
	7.2 Seek out opportunities for additional park land.	
	7.3 Seek out opportunities for pedestrian/bike paths along highways, park areas, and along stream corridors.	

**Table 6.1 Long-Term Goals and Objectives for the Upper-2 Shiawassee River Watershed (continued)**

<b>Long-Term Goal</b>	<b>Long-Term Objective</b>	<b>Designated/Desired Uses Addressed</b>
8. Implement the Upper-2 Shiawassee River Watershed Management Plan (WMP).	8.1 Continue watershed advisory committee meetings to guide implementation of the WMP.	<ul style="list-style-type: none"> <li>• Warmwater Fishery</li> <li>• Other indigenous aquatic life and wildlife</li> <li>• Partial and total body contact recreation</li> <li>• Preservation of rural character</li> <li>• Enhance recreational opportunities</li> <li>• Protect groundwater drinking supply</li> </ul>
	8.2 Identify and develop financing options to support implementation of the WMP.	
	8.3 Collaborate and work in partnership with regional groups on watershed-wide implementation activities.	
	8.4 Update the WMP as needed, or based on five-year permit cycle.	

The attainment of the goals and objectives of this WMP will ultimately be accomplished through the process of adaptive management. In other words, as changes in the watershed occur and programs and BMPs are assessed as to their effectiveness, strategies to attain the watershed goals and objectives are likely to change over time. Changes to the watershed goals and objectives themselves are likely to occur over the lifetime of plan implementation, as well. These changes will be reflected in periodic updates to this WMP. The overall goal is that the watershed planning process becomes a self-sustaining process with more participation and drive from stakeholders over time.