

# Aquatic Impacts Question Sheet

**Aquatic Community - Short Term Impacts**

<b>Question</b>	<b>Answer</b>
1. What are the short-term impacts of a dam on the aquatic community?	<ul style="list-style-type: none"> <li>• Immediate physical impacts: changes in flow velocity, sedimentation, and habitat alteration.</li> <li>• Changes in water temperature and oxygen levels.</li> <li>• Disruption of spawning cycles and migration patterns.</li> <li>• Potential for increased turbidity and siltation.</li> </ul>
2. How does a dam affect the downstream aquatic community?	<ul style="list-style-type: none"> <li>• Alters the natural flow regime, leading to reduced sediment transport.</li> <li>• Causes habitat fragmentation and loss of connectivity.</li> <li>• May lead to the establishment of non-native species.</li> <li>• Can result in a shift in species composition and diversity.</li> </ul>
3. What are the long-term impacts of a dam on the aquatic community?	<ul style="list-style-type: none"> <li>• Permanent changes in the river's morphology and hydrology.</li> <li>• Potential for eutrophication and algal blooms.</li> <li>• Loss of biodiversity and ecosystem services.</li> <li>• Increased vulnerability to climate change and other stressors.</li> </ul>

**Aquatic Community - Long Term Impacts**

<b>Question</b>	<b>Answer</b>
1. How does a dam affect the downstream aquatic community?	<ul style="list-style-type: none"> <li>• Alters the natural flow regime, leading to reduced sediment transport.</li> <li>• Causes habitat fragmentation and loss of connectivity.</li> <li>• May lead to the establishment of non-native species.</li> <li>• Can result in a shift in species composition and diversity.</li> </ul>
2. What are the long-term impacts of a dam on the aquatic community?	<ul style="list-style-type: none"> <li>• Permanent changes in the river's morphology and hydrology.</li> <li>• Potential for eutrophication and algal blooms.</li> <li>• Loss of biodiversity and ecosystem services.</li> <li>• Increased vulnerability to climate change and other stressors.</li> </ul>