

## **Water Quality Monitoring Plan (Ashokan Watershed – Release Channel Operations)**

### **Monitoring Objective**

- To monitor water quality in the Lower Esopus Creek (LEC) and other locations in support of operation of the Ashokan Release Channel

### **Monitoring Sites**

- **Condition: Normal – Release Channel Not Operating** (Routine monitoring conducted at these sites, regardless of reservoir spill status)
  - Upper Esopus Stream Site
    - Esopus Creek (E16i) – last sampling point prior to entry into Ashokan Reservoir
  - Limnology Sites
    - Ashokan Reservoir Limnology Stations (1EA-4EA) – multiple depths in water column, both basins
  - Keypoint Sites
    - Ashokan Upper Gatehouse – water at the east and west basin intake levels as follows:
      - ES – East Surface
      - EM – East Middle
      - EB – East Bottom
      - WS – West Surface
      - WM – West Middle
      - WB – West Bottom
    - Ashokan Effluent Sampling Station (EARCM) – final effluent leaving Ashokan via Catskill Aqueduct
- **Condition: Release Channel Operating** - In addition to sites listed above, add these sites:
  - Ashokan Release Channel (M-1) – water released through the release channel to the lower Esopus Creek
  - Lower Esopus Stream Sites
    - Lower Esopus Creek Above Sawkill (LEC AS) – above confluence with Sawkill Creek
    - Lower Esopus Creek at Saugerties Beach (Saugerties Beach) – above Saugerties dam
- **Condition: Release Channel Operating & Ashokan Spilling** (In addition to sites listed above, add these sites:
  - Lower Esopus Stream Sites
    - Ashokan Spill (ASP) – Ashokan Reservoir spill channel below spillway

- Lower Esopus Creek Confluence (ASP M-1 CONF) – below confluence of Ashokan Reservoir release channel release flow and Ashokan Reservoir spill channel

**Monitoring Frequency and Analytes**

- **Condition: Normal – Release Channel Not Operating** (Routine monitoring at these sites)

Site Type	Sites	Analytes	Frequency
Upper Esopus Creek	E16i	turbidity, temperature total suspended solids	Weekly Monthly
Limnology	1EA-4EA	turbidity, temperature total suspended solids	2x/Month Monthly
Keypoints	EARCM	turbidity, temperature total suspended solids	5Days/Week Monthly
Keypoints	ES, EM, EB, WS, WM, WB	turbidity, temperature	Weekly

- **Condition: Release Channel Operating** (In addition to sites listed above, add these sites)

Site Type	Sites	Analytes	Frequency
Keypoints	M-1	turbidity turbidity, temperature total suspended solids	Weekly Monthly
Lower Esopus Creek	LEC AS, Saugerties Beach	turbidity, temperature, total suspended solids	Weekly

- **Condition: Release Channel Operating & Ashokan Spilling** (In addition to sites listed above, add these sites

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Site Type	Sites	Analytes	Frequency
Lower Esopus Creek	ASP, ASP M-1 CONF	turbidity, temperature, total suspended solids	Weekly