

## Consumptive Use Mitigation Plan for the Bell Bend Nuclear Power Plant Combined License Application

## DCNR Comments according to Areas of Concern (AOC):

1. Cowanesque Lake and Cowanesque River
  - a. No impacts anticipated
  - b. No special concern, threatened or endangered plant species
2. North Branch Susquehanna River from the New York Ste line to the proposed Bell Bend site
  - a. Several grassland and Ice scour communities present
  - b. No impacts anticipated as these community types require period disturbance via flooding
3. North Branch Susquehanna River from the proposed Bell Bend site downstream to its confluence with the West Branch of the Susquehanna River at Sunbury
  - a. One of two areas of known direct project impacts (Bell Bend site)
  - b. No impacts anticipated
  - c. No special concern, threatened or endangered plant species
4. Mainstream Susquehanna River from Sunbury downstream to Harrisburg
  - a. *Magnolia tripetala* occurrences present on large islands of this section but should be safe from minor water level changes
  - b. Will project have capacity to flood whole river islands?
  - c. Regardless, most plants found on these river island communities are flood tolerant; if evolved in floodplain areas
5. Mainstream Susquehanna River from Harrisburg downstream to Holtwood Dam
  - a. *Eleocharis compressa*, *Boltonia asteroides*, *Ammannia coccinea*, *Rotala ramosior*, and *Ludwigia decurrens* are temporary flood tolerant
  - b. *Carex shortiana* should be flood tolerant
  - c. *Sida hermaphrodita*, *Phyllanthus caroliniensis* can probably handle very short periods of flooding, but may be vulnerable
  - d. Any species found south of Holtwood Dam should not be affected by project impacts as the dam regulates water levels
6. Rushton Mine expansion area
  - a. Second of two areas of known direct project impacts
  - b. No impacts anticipated
  - c. No special concern, threatened or endangered plant species
7. Moshannon Creek downstream from Rushton Mine to its confluence with the West Branch of the Susquehanna River
  - a. No impacts anticipated
  - b. No special concern, threatened or endangered plant species
8. West Branch of the Susquehanna River from Moshannon Creek downstream to its confluence with the North Branch of the Susquehanna River at Sunbury
  - a. No impacts anticipated

- b. No special concern, threatened or endangered plant species
- 9. Tioga-Hammond Reservoir project and the Tioga River
  - a. No impacts anticipated
  - b. No special concern, threatened or endangered plant species

### Special Concern Species

#### AOC

- 2 ***Magnolia tripetala* (Umbrella Magnolia):** locally documented as tree and shrub cover in large canopy gaps and a mix of native and exotic herbs and vines in the understory; prefers rich wooded slopes and floodplains; flowers in May with the leaves. Current status: Threatened; Proposed status: Rare.
- 5 ***Sida hermaphrodita* (Sida):** locally documented in moist bottomland woods; prefers stream banks; flowers July-October. Current status: Endangered; Proposed status: Endangered.
- 5 ***Phyllanthus caroliniensis* (Carolina Leaf-flower):** locally documented along an open, disturbed riverbank; prefers moist, sandy soil, stream banks, and ravines; flowers August-September. Current status: Endangered; Proposed status: Endangered.