



Triadelphia Reservoir Sediment Removal

Presented by WSSC Water

June 14, 2022

Agenda

- Project team introductions
- Background & purpose of the reservoir
- Reservoir sediment removal and sediment placement plan
- Description of operations
- DNR Forest Conservation Compliance and Protection of Environmental Resource
- Project schedule
- Q&A



Project Team Introduction



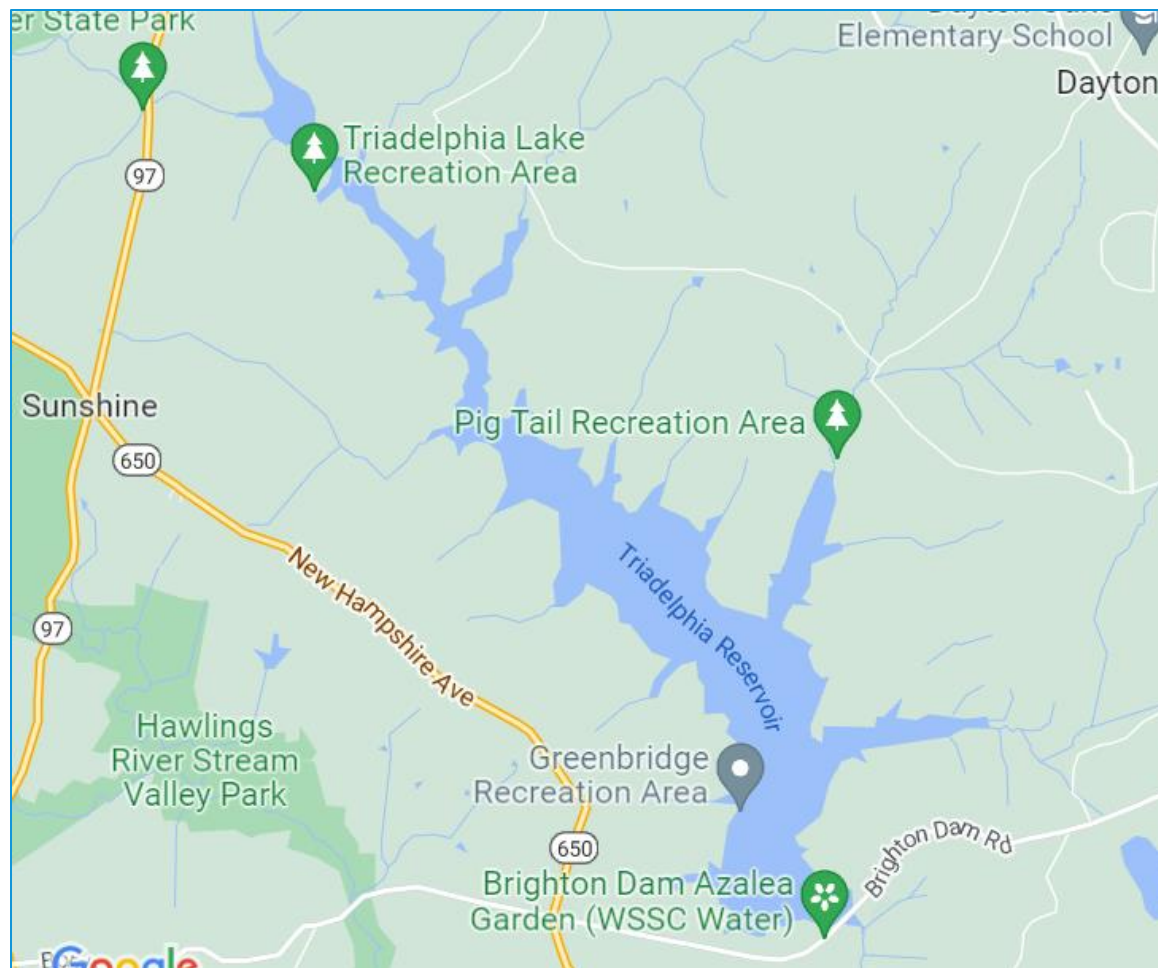
- Karen Wright
- John Kasprzak
- Eddie Franceschi
- David Harris, II
- Subra Das
- Donna An
- Chris Overcash
- Nikki Wildart



Background/Purpose of the Reservoir



General Location



Triadelphia Reservoir Background

- Drinking water reservoir that holds 7.2 billion gallons of water via Brighton Dam
- Supplies 30% of drinking water to Howard, Prince George's, and Montgomery County residents
- Built: 1943
- Public amenity – use of water and surrounding land



Reservoir Sediment Removal and Sediment Placement Plan

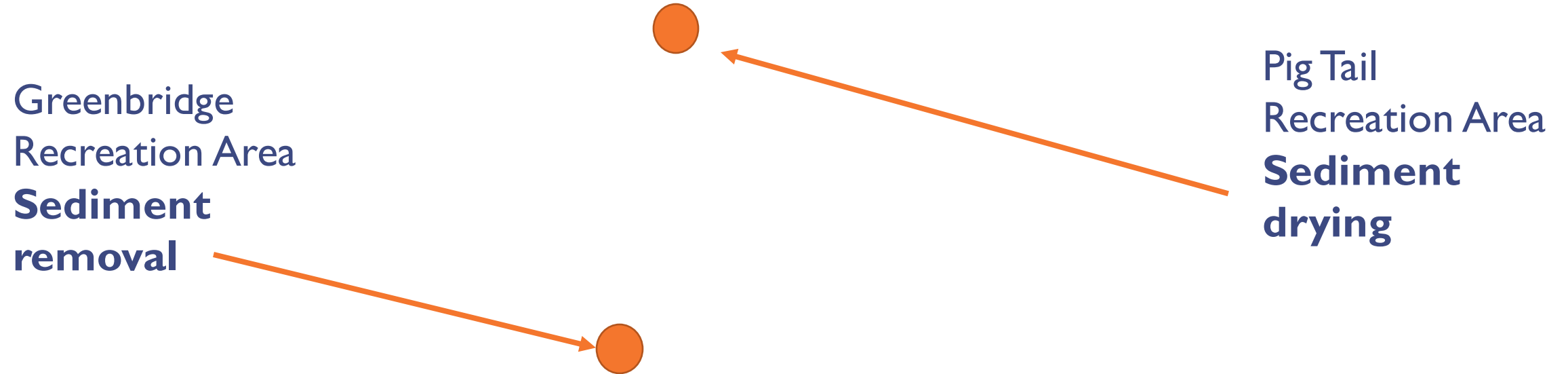


Sedimentation

- Reservoir storage reduced from 7.2 to 6.4 billion gallons
- At Brighton Dam up to 6 feet of sediment has deposited in areas
- Brighton Dam intake tower lower sluice gates have restricted use due to sediment build up



Sediment Removal and Placement Locations



Description of Operations



Project Components

Physical removal of sediment from bottom of reservoir

- Remove from surface of the water by dredging vessel

Transport of sediment

- Haul material by truck

Dewatering

- Stockpile wet sediment and allow to drain/dry naturally

Beneficial Use of Sediment

- May include use at nearby properties as a soil amendment;
- or use at construction projects;
- or use at landfills for daily cover;
- or blend with organic material for re-use as topsoil

Sediment Removal

Sediment will be removed north of Brighton Dam

- Approximately 18,500 CY

Cranes and/or excavators on barges will remove sediment

- Accessed through Greenbridge boat ramp



Sediment Transport

Greenbridge Boat Ramp to Pig Tail Recreation Area

1,850 truck loads overall

- 10 cy / truck
- 15-25 round trips per day
- 7am-5pm Monday through Friday
- Some weekend work may occur if it's been raining during the week



Dewatering



DNR Forest Conservation Compliance and Protection of Environmental Resources

Forests

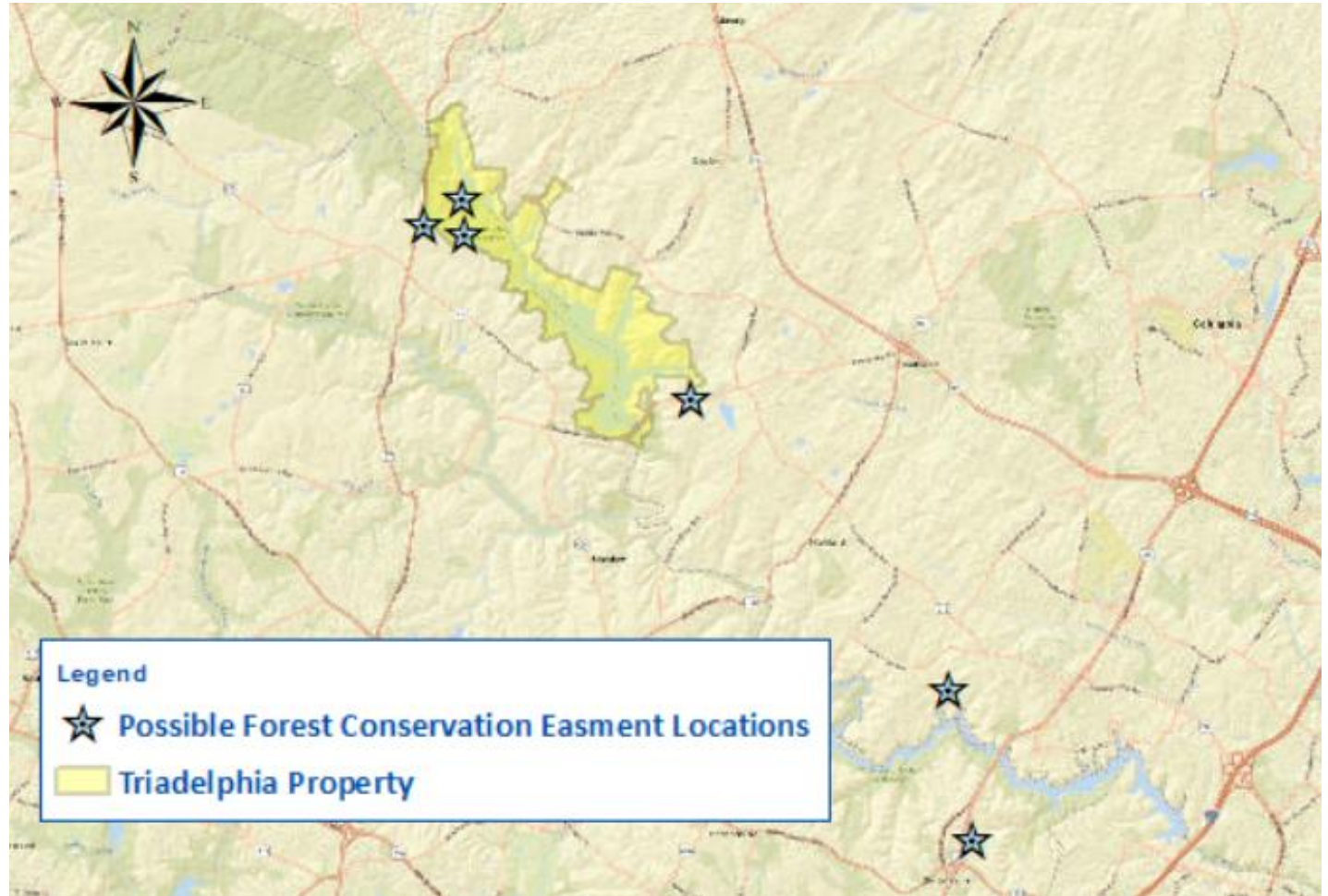
- No existing forests are proposed to be impacted
- WSSC Water will place property into a long-term protective DNR forest conservation easement

Fish

- No in-water work during sensitive spawning March 1 to May 31

Water Quality

- No wetland or stream loss
- No creation of impervious surface
- Erosion and sediment controls will be in place



Project Schedule

Tentative Schedule

- Schedule is subject to change and will be dependent upon availability of funding, permits, weather and other potential factors
- Final permitting – July to December 2022
- Construction – 4 to 5 months after acquisition of final permits

Closures during Project

- All boat ramps will be closed, and no boating allowed
- Shore fishing will be allowed within the reservoir property, except at the Greenbridge and Pig Tail Recreation Areas

Project Updates

- Updates related to this project will be shared via:
 - WSSC Water Watershed Recreation Facebook Page
 - Outdoor Recreation Email Newsletter
 - Website – <https://www.wsscwater.com/triadelphia>

Questions?

