

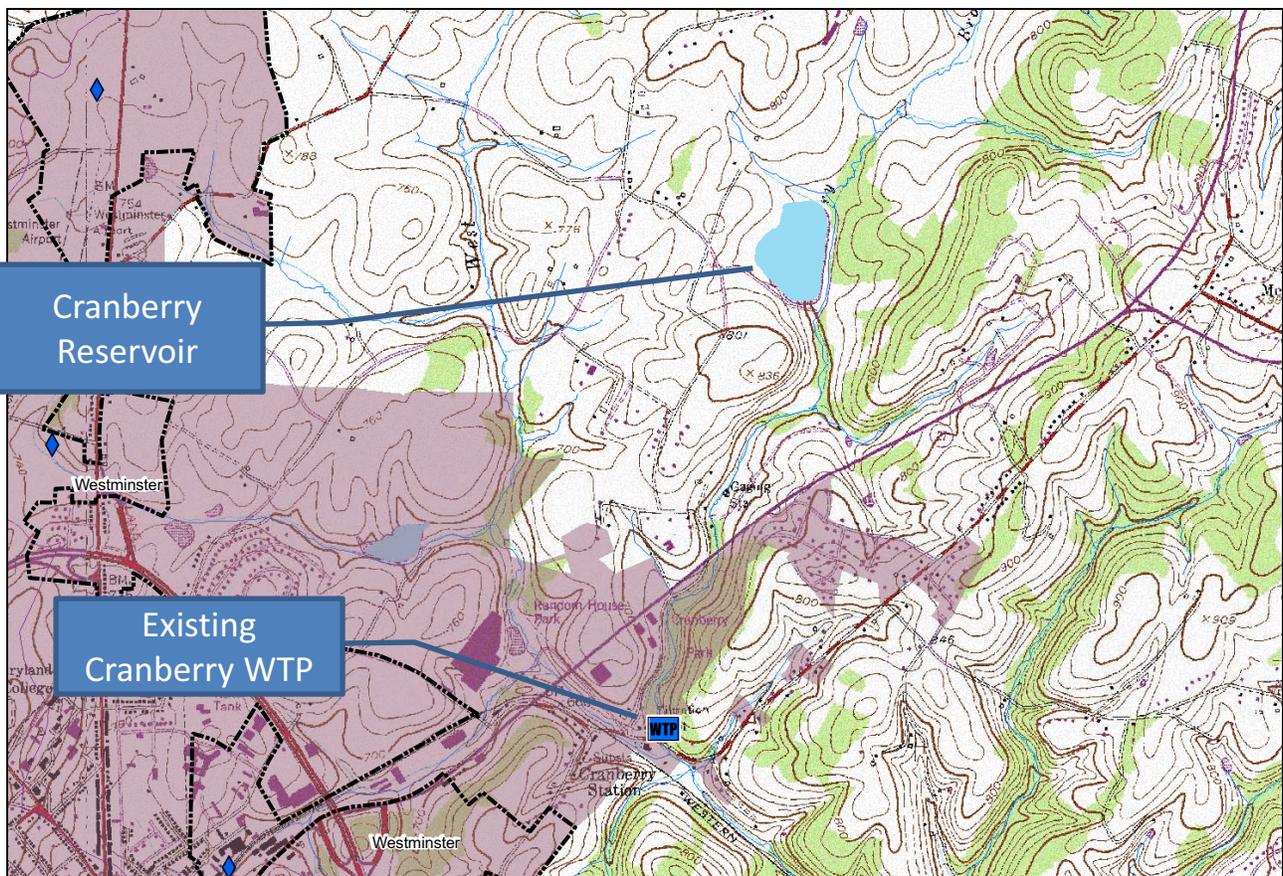
Alternative R-5: Increase Capacity of Cranberry Reservoir

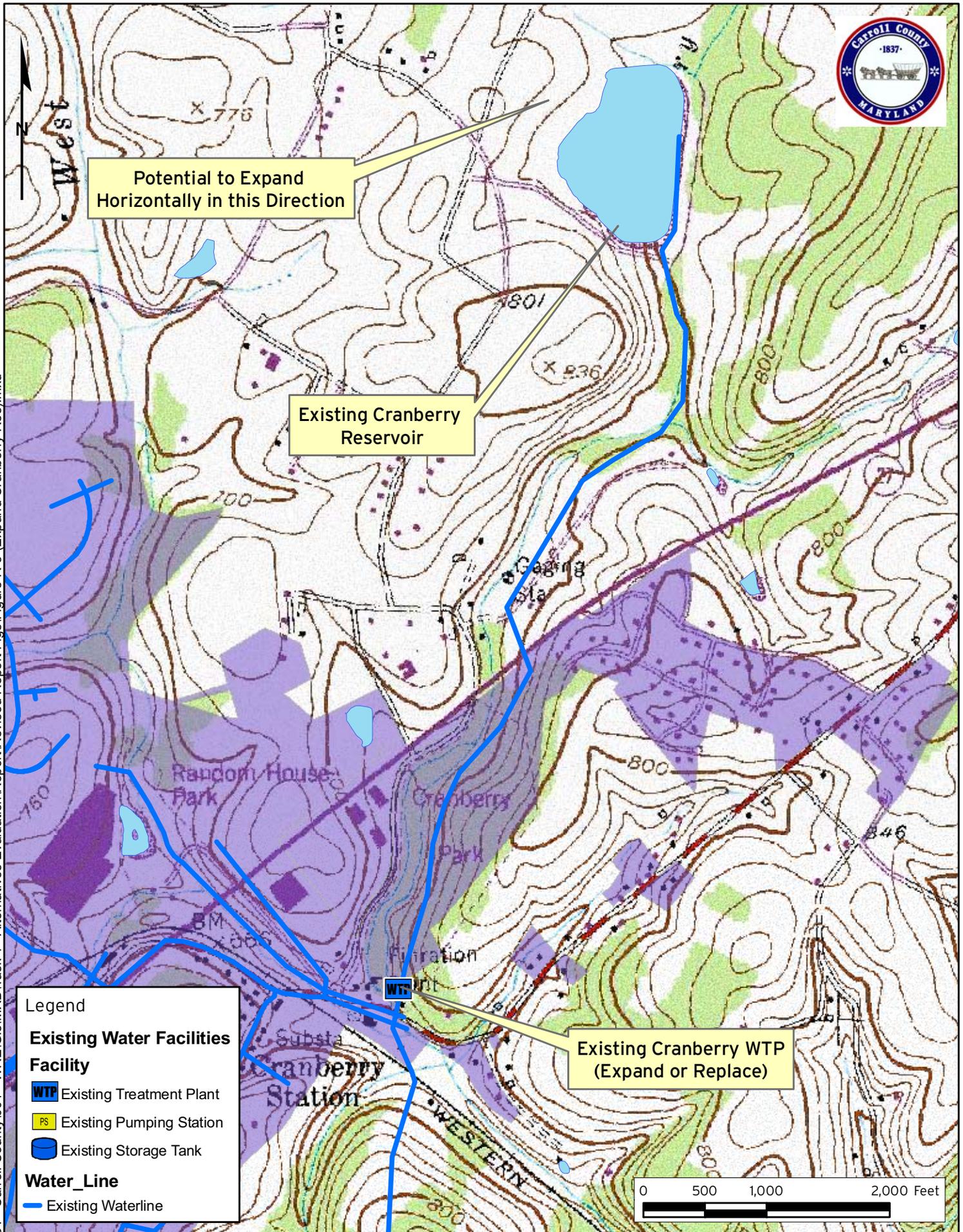
Description of Alternative:

- 115 MG raw water reservoir located along Cranberry Branch, north of Lucabaugh Mill Rd.
- All water in the reservoir is pumped from the raw water intake on Cranberry Branch. The raw water in the reservoir is used either when conditions prevent direct withdrawal from the stream or to supplement low stream flow.
- Two potential expansion options:
 - Expand horizontally through purchase of additional property (60 MG increase)
 - Expand vertically through raising dam one foot (~8 MG increase).
- According to Westminster staff, vertical expansion is the most likely alternative, resulting in an estimated 0.1 mgd safe yield increase (based on the current safe yield of 1.17 mgd and existing capacity of 115 MG).

Key Implementation Steps:

- City of Westminster to purchase additional land and/or receive permission from MD Dam Safety to raise dam by one foot.
- Key Permit Required:
 - Dam Safety Permit
- Overcome political and community opposition with the horizontal expansion option. Previous attempts to purchase land required for horizontal expansion of the reservoir have been unsuccessful.





Potential to Expand Horizontally in this Direction

Existing Cranberry Reservoir

Existing Cranberry WTP (Expand or Replace)

Legend

Existing Water Facilities

- Existing Treatment Plant
- Existing Pumping Station
- Existing Storage Tank

Water_Line

- Existing Waterline



L:\6531 - Carroll County\001 - WRE\GIS\MXD\Task 4 - Alternatives Evaluation\Report\Revised Report Figs\Figure R-5 (Expand Cranberry Res).mxd