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Narragansett Bay Watershed SCP Watson Reservoir (RI0007035L-07) Little Compton, RI

Subwatershed Summary

- The subwatershed is located in Little Compton and Tiverton.
- The subwatershed is 2,278 acres and 3.6% impervious.
- The general land uses within the subwatershed are deciduous and mixed forest, cropland, pasture, and low- and medium-density residential.
- RIDOT maintained property in the subwatershed is 25.1 acres and 12.2 impervious acres.

Site Description

Watson Reservoir (RI0007035L-07) is located within the Narragansett Bay Watershed. The majority of the subwatershed is located in Little Compton, in the northwest part of the town. Watson Reservoir is located centrally in the subwatershed, receiving inflow from about seven small tributaries, including Pachet Brook. The outflow of Watson Reservoir continues as Pachet Brook, where it enters the Pachet Brook subwatershed (RI0010031R-03). The Watson tributaries receive runoff from outfalls located along Peckham Road and East Main Road to the south and West Main Road (Route 77) to the west. RIDOT maintained property in the subwatershed is 25.1 acres; 12.2 acres of which is impervious.

The Rhode Island Department of Environmental Management (RIDEM) water quality classification for the Watson Reservoir is Class AA. Class AA waters are designated as a source of public drinking water supply (PDWS) or as tributary waters within a public drinking water supply watershed, for primary and secondary contact recreational activities and for fish and wildlife habitat. According to RIDEM's Clean Water Act (CWA) Integrated List of Waterbodies – Appendix A 2016 Index of Waterbodies and Category Listing,¹ the impairments affecting this waterbody segment are total phosphorus and total organic carbon (TOC). RIDEM has classified Watson Reservoir as a Category 5 waterbody that is not supporting fish and wildlife habitat or public drinking water supply. The waterbody is fully supporting primary and secondary contact recreation, and is not assessed for fish consumption. A TMDL is under development for the phosphorus and total organic carbon impairments and scheduled to be adopted in 2019

According to 2011 land use data obtained from the Rhode Island Geographic Information System (RIGIS),² the general land uses within the Watson Reservoir subwatershed are deciduous and mixed

¹ RIDEM, March 2018, 2016 Integrated Water Quality Monitoring and Assessment List – Appendix A 2016 Index of Waterbodies and Category Listing. Available at: <http://dem.ri.gov/programs/benviron/water/quality/surfwq/pdfs/iwr16.pdf>

² Rhode Island Department of Environmental Management, Rhode Island Department of Administration, Statewide Planning Program, Photo Science, Inc. www.rigis.org

forest, cropland, pasture, and low- and medium-density residential. The subwatershed is approximately 2,278 acres, 3.6% of which are impervious based on 2011 impervious cover data from RIGIS.

The Watson Reservoir subwatershed is less than 10% impervious; therefore, no SCP is required for Watson Reservoir.