

Appendix A

Water Quality – Town of Greenwich

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Impaired Water Bodies – Town of Greenwich

Segment	Location	Water Body Segment Size	Impaired Designated Use	Cause	Potential Source
Horseneck Brook-01	From mouth at Greenwich Harbor (just downstream [DS] of I95 crossing, at exit 3 offramp), US to Putnam Lake Reservoir outlet dam (just upstream [US] of Dewart Road crossing)	5.78 Miles	Habitat for Fish, Other Aquatic Life and Wildlife	Cause Unknown	Source Unknown
Byram River-01	From head of tide (US of Route 1 crossing, at INLET to ponded portion of river, just DS of Upland Street East area), US to Pemberwick outlet dam (US of Comly Avenue crossing, and US of confluence with Pemberwick Brook	0.49 Miles	Habitat for Fish, Other Aquatic Life and Wildlife	Cause Unknown	Sources Outside State Jurisdiction or Borders, Source Unknown, Highway/Road/Bridge Runoff (Non-construction Related)
			Recreation	Escherichia coli	Illicit Connections/Hook-ups to Storm Sewers, Source Unknown
Putnam Lake Reservoir (Greenwich)	Impoundment of Horseneck Brook, just south of Rt. 15	95.56 Acres	Habitat for Fish, Other Aquatic Life and Wildlife	Alterations in wetland habitats	Habitat Modification - other than Hydromodification
LIS WB Inner - Indian Harbor (upper), Greenwich	Western portion of LIS, Inner Estuary, upper Indian Harbor (lower portion of Greenwich Creek) from Davis Avenue crossing, US to saltwater limit at West Brother Drive crossing (includes I95 crossing).	0.025 Square Miles	Habitat for Marine Fish, Other Aquatic Life and Wildlife	Dissolved oxygen saturation; Nutrient/Eutrophication Biological Indicators; Oxygen, Dissolved	Residential Districts, Municipal Point Source Discharges, Non-Point Source, Unspecified Urban Stormwater
LIS WB Inner - Greenwich Harbor, Greenwich	Western portion of LIS, Inner Estuary, from SA/SB water quality line at mouth of Greenwich Harbor (Round Island to Smith Cove), US to saltwater limit just below I95 (mouth of Horseneck Brook).	0.104 Square Miles	Habitat for Marine Fish, Other Aquatic Life and Wildlife	Dissolved oxygen saturation; Nutrient/Eutrophication Biological Indicators; Oxygen, Dissolved	Unspecified Urban Stormwater, Non-Point Source, Residential Districts, Municipal Point Source Discharges, Residential Districts
			Commercial Harvesting where Authorized	Fecal Coliform	Marina/Boating Sanitary On-vessel Discharges, Residential Districts, Waterfowl, Non-Point Source, Unspecified Urban Stormwater
LIS WB Inner - Byram River (CT), Greenwich	Western portion of LIS, Inner Estuary, from SA/SB water quality line at mouth of Byram River, US to saltwater limit just above Route 1 crossing, out to CT/NY border (includes CT half of River), I95 crosses river in segment	0.037 Square Miles	Recreation	Enterococcus	Sources Outside State Jurisdiction or Borders, Residential Districts, Sanitary Sewer Overflows (Collection System Failures), Non-Point Source, Waterfowl, Unspecified Urban Stormwater, Marina/Boating Sanitary On-vessel Discharges, Illicit Connections/Hook-ups to Storm Sewers
			Commercial Shellfishing Harvesting where Authorized	Fecal Coliform	Sources Outside State Jurisdiction or Borders, Residential Districts, Sanitary Sewer Overflows (Collection System Failures), Non-Point Source, Waterfowl, Unspecified Urban Stormwater, Marina/Boating Sanitary On-vessel Discharges, Illicit Connections/Hook-ups to Storm Sewers

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LIS WB Shore - Stamford Harbor (West), Greenwich	Western portion of LIS from Greenwich Point to Peck Point (includes Greenwich Point Beach, western portion of Stamford Harbor) out approximately 1000 ft offshore.	0.54 Square Miles	Shellfish Harvesting for Direct Consumption Where Authorized	Fecal Coliform	Non-Point Source, Waterfowl, Residential Districts, Unspecified Urban Stormwater, Marina/Boating Sanitary On-vessel Discharges
LIS WB Shore - Greenwich Cove, Greenwich	Western portion of LIS from Todd Point to Greenwich Point (includes Elias Point, Greenwich Island, Pelican Island, Flat Neck Point, Greenwich Cove) out approximately 1000 ft offshore	1.244 Square Miles	Shellfish Harvesting for Direct Consumption Where Authorized	Fecal Coliform	Waterfowl, Non-Point Source, Residential Districts, Marina/Boating Sanitary On-vessel Discharges, Unspecified Urban Stormwater
LIS WB Shore - Cos Cob Harbor, Greenwich	Western portion of LIS from Tweed Island to Todd Point (includes Horse Island, Goose Island, Cos Cob Cove) out approximately 1000 ft offshore.	0.704 Square Miles	Shellfish Harvesting for Direct Consumption Where Authorized	Fecal Coliform	Non-Point Source, Marina/Boating Sanitary On-vessel Discharges, On-site Treatment Systems (Septic Systems and Similar Decentralized Systems), Waterfowl, Unspecified Urban Stormwater, Residential Districts
LIS WB Shore - Smith Cove, Indian Harbor, Greenwich	Western portion of LIS from Field Point to Tweed Island (includes Round Island, Tweed Island, Smith Cove, Indian Harbor) out approximately 1000 ft offshore.	0.374 Square Miles	Habitat for Marine Fish, Other Aquatic Life and Wildlife	Dissolved oxygen saturation; Nutrient/Eutrophication Biological Indicators; Oxygen, Dissolved	Unspecified Urban Stormwater, Non-Point Source, Residential Districts, Municipal Point Source Discharges, Residential Districts
			Shellfish Harvesting for Direct Consumption Where Authorized	Fecal Coliform	Marina/Boating Sanitary On-vessel Discharges, Unspecified Urban Stormwater, Residential Districts, Waterfowl, Non-Point Source
LIS WB Shore - Byram Harbor, Greenwich	Western portion of LIS from just west of Shore Island to Field Point (includes Shore Island, Rich Island, Farwells Island, Game Cock Island, Byram Harbor) out approximately 1000 ft offshore.	0.34 Square Miles	Recreation	Enterococcus	Highway/Road/Bridge Runoff (Non-construction Related), Sources Outside State Jurisdiction or Borders, Non-Point Source, Waterfowl, Illicit Connections/Hook-ups to Storm Sewers, Sanitary Sewer Overflows (Collection System Failures), Residential Districts, Unspecified Urban Stormwater, Marina/Boating Sanitary On-vessel Discharges

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			Shellfish Harvesting for Direct Consumption Where Authorized	Fecal Coliform	Waterfowl, Illicit Connections/Hook-ups to Storm Sewers, Residential Districts, Marina/Boating Sanitary On-vessel Discharges, Sanitary Sewer Overflows (Collection System Failures), Sources Outside State Jurisdiction or Borders, Highway/Road/Bridge Runoff (Non-construction Related), Unspecified Urban Stormwater, Non-Point Source
LIS WB Shore - Byram Harbor (West), Greenwich	Western portion of LIS from NY/CT border at Byram River to just west of Shore Island (includes mouth of Byram River, Byram Point) out approximately 1000 ft offshore	0.244 Square Miles	Shellfish Harvesting for Direct Consumption Where Authorized	Fecal Coliform	Sanitary Sewer Overflows (Collection System Failures), Sources Outside State Jurisdiction or Borders, Residential Districts, Unspecified Urban Stormwater, Non-Point Source, Marina/Boating Sanitary On-vessel Discharges, Waterfowl, Illicit Connections/Hook-ups to Storm Sewers, Highway/Road/Bridge Runoff (Non-construction Related)
LIS WB Midshore - Outer Stamford Harbor, Greenwich	Western portion of LIS from approximately 1000 ft offshore (Greenwich Point to Shippan Point area), out to 50 ft contour.	2.101 Square Miles	Habitat for Marine Fish, Other Aquatic Life and Wildlife	Dissolved oxygen saturation; Nutrient/Eutrophication Biological Indicators; Oxygen, Dissolved; Total Nitrogen	Non-Point Source, Residential Districts, Unspecified Urban Stormwater, Atmospheric Deposition - Nitrogen, Industrial Point Source Discharge, Municipal Point Source Discharges
			Shellfish Harvesting for Direct Consumption Where Authorized	Fecal Coliform	Marina/Boating Sanitary On-vessel Discharges, Residential Districts, Waterfowl, Unspecified Urban Stormwater, Non-Point Source
LIS WB Midshore - Outer Cos Cob Harbor, Greenwich	Western portion of LIS from approximately 1000 ft offshore (Bush Island to Greenwich Point area), out to 50 ft contour	2.378 Square Miles	Habitat for Marine Fish, Other Aquatic Life and Wildlife	Dissolved oxygen saturation; Nutrient/Eutrophication Biological Indicators; Oxygen, Dissolved; Total Nitrogen	Non-Point Source, Residential Districts, Atmospheric Deposition - Nitrogen, Unspecified Urban Stormwater, Industrial Point Source Discharge, Municipal Point Source Discharges
			Shellfish Harvesting for Direct Consumption Where Authorized	Fecal Coliform	Unspecified Urban Stormwater, Marina/Boating Sanitary On-vessel Discharges, Non-Point Source, Residential Districts, Waterfowl

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LIS WB Midshore - Outer Captain Harbor, Greenwich	Western portion of LIS from Connecticut New York state line just beyond Great Captain Island to east of Wee Captain Island, out to 50 ft contour.	2.007 Square Miles	Habitat for Marine Fish, Other Aquatic Life and Wildlife	Dissolved oxygen saturation; Oxygen, Dissolved; Total Nitrogen, Organic Enrichment (Sewage) Biological Indicators	Residential Districts, Industrial Point Source Discharge, Non-Point Source, Municipal Point Source Discharges, Unspecified Urban Stormwater, Illicit Connections/Hook-ups to Storm Sewers, Atmospheric Deposition - Nitrogen
LIS WB Midshore - Captain Harbor, Greenwich	Western portion of LIS from approximately 1000 ft offshore (Bryant Point at Connecticut/New York state line, to Brush Island, Captain Harbor area), out to just beyond Great Captain Island to Wee Captain Island.	3.422 Square Miles	Habitat for Marine Fish, Other Aquatic Life and Wildlife	Dissolved oxygen saturation, Nitrogen (Total), Nutrient/Eutrophication Biological Indicators, Oxygen, Dissolved	Unspecified Urban Stormwater, Sources Outside State Jurisdiction or Borders, Atmospheric Deposition - Nitrogen, Residential Districts, Non-Point Source, Illicit Connections/Hook-ups to Storm Sewers, Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO), Industrial Point Source Discharge, Municipal Point Source Discharges
			Shellfish Harvesting for Direct Consumption Where Authorized	Fecal Coliform	Industrial Point Source Discharge, Unspecified Urban Stormwater, Illicit Connections/Hook-ups to Storm Sewers, Marina/Boating Sanitary On-vessel Discharges, Municipal Point Source Discharges, Residential Districts, Waterfowl, Non-Point Source, Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO), Sources Outside State Jurisdiction or Borders
LIS WB Offshore - Greenwich	Western portion of LIS from 50ft contour to CT/NY State line.	11.753 Square Miles	Habitat for Marine Fish, Other Aquatic Life and Wildlife	Dissolved oxygen saturation, Nitrogen (Total), Nutrient/Eutrophication Biological Indicators, Oxygen, Dissolved	Unspecified Urban Stormwater, Industrial Point Source Discharge, Combined Sewer Overflows, Municipal Point Source Discharges, Non-Point Source, Atmospheric Deposition - Nitrogen, Residential Districts

Source: 2010 State of Connecticut Integrated Water Quality Report (Final - May 31, 2011)

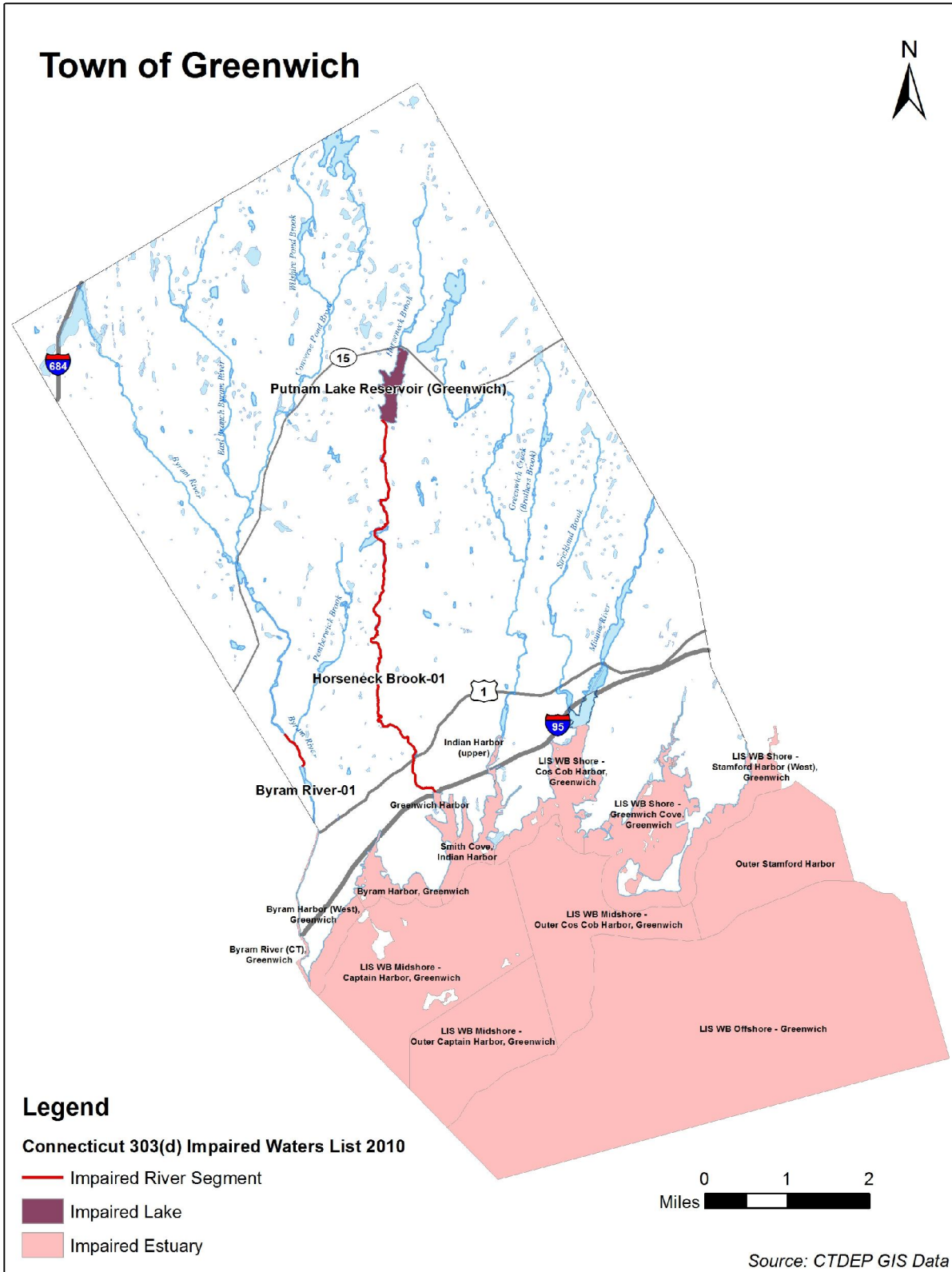


Figure A-1. Impaired Water Bodies