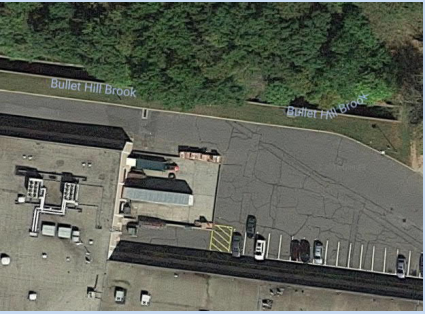





BMP Prioritization Matrix for Potential Areas of Concern
Pomperaug River Watershed Based Plan

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| POMPERAUG RIVER SUBWATERSHED | | | | | | | | | | |
| Equestrian 1 (Pomperaug-01 and Transylvania Brook) | East Flat Hill Road, Southbury | Horse manure in paddocks Two drainage paths - one flows through Audubon old pasture, excellent buffer; another flows out drainage ditch to Transylvania Brook. | <ul style="list-style-type: none"> • Bioretention in drainage ditch adjacent to Audubon Property • Filter berm at bottom of paddock • Improved buffer around intermittent streams on equestrian property or reconfigured paddocks/runs/training areas • Move drainage away from the center of paddocks/pasture | <ul style="list-style-type: none"> • Outreach for manure management best practices • Connecticut Horse Environmental Awareness Program (HEAP) and Connecticut Horse Farm of Environmental Distinction Program | Medium (bioretention) High (filter berm/buffer) | Medium Medium | Medium Low | Yes | YES - LARGE | |
| Public School 1, Golf 1, Golf 2, Golf 3 (Pomperaug-03) | Old Field Road & Poverty Road, Southbury | Geese observed at both golf courses and in field adjacent to river at elementary school. | <ul style="list-style-type: none"> • Increase vegetated buffer around water hazards and adjacent to streams/river • Implement other waterfowl deterrent strategies | | Medium (buffer) Low (other deterrent strategies) | Low Medium | Low High | Yes | YES - SMALL | |
| Residential Neighborhood 3 (Pomperaug-03) | Flood Bridge / River Hill neighborhood, Southbury | Failing or malfunctioning septic systems. Stormwater runoff. | <ul style="list-style-type: none"> • Sanitary/septic survey of Branch Road/Riverhill Road neighborhood • Infiltration in ROW or underground • Inspect Flood Bridge Road houses along riverbank for proper septic system sizing and function | | Medium (IDDE/Septic investigation) High (infiltration BMP) | Medium High | N/A High | Yes | YES – LARGE Combine with Residential Neighborhood 2 | |
| Residential Neighborhood 4 (Pomperaug-03) | River Trail, Spring Road, Middle Road ("Cedarlands"), Southbury | Failing or malfunctioning septic systems. Raw sewage odor noted during stream walk near River Trail. | <ul style="list-style-type: none"> • Investigate septic odor • Encourage septic system inspections • Educate homeowners and homebuyers about proper use and maintenance of septic systems • IDDE investigation of drainage discharging at Cedarland Park | | High | Low | Low | Yes | |  |
| Residential Neighborhood 1 (Pomperaug-01) | Western side of Pomperaug River outlet to the Housatonic, North of River Road | Stormwater runoff | <ul style="list-style-type: none"> • Infiltration below roadway, especially cul-de-sac at Pascoe Drive and Pomperaug Trail and at Pascoe Drive and Berkshire Road intersection • Increase buffer along river • More frequent catch basin cleaning | | High | High | High | Yes | YES - LARGE | |
| Residential Neighborhood 1 (Pomperaug-01) | Western side of Pomperaug River outlet to the Housatonic, North of River Road | Failing or malfunctioning septic systems | <ul style="list-style-type: none"> • Advanced subsurface sewage disposal systems (sand filter or similar) in riverside lots • Inspect septic systems for failure • Ledge/bedrock could be a constraint • Educate homeowners and homebuyers about proper use and maintenance of septic systems | | High | High | High | Yes | | |
| Residential Neighborhood 2 (Pomperaug-01) | Eastern side of Pomperaug River outlet to the Housatonic, North of River Road | Stormwater runoff | <ul style="list-style-type: none"> • Underground infiltration (limited space in ROW) | <ul style="list-style-type: none"> • Septic system inspection and outreach • Turf management • Grass clippings – outreach or establish collection for disposal | High | High | High | Yes | YES – LARGE Combine with Residential Neighborhood 3 | |


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| Mixed Residential / Commercial Complex 1 (Pomperaug-03) | Heritage Road, Southbury | Stormwater runoff | <ul style="list-style-type: none"> Underground infiltration in ROW Bioretention cells where feasible Pervious pavement at older parking lots (e.g. Meeting House) needing maintenance | <ul style="list-style-type: none"> Heritage Village should be included as a priority area in the Town of Southbury's MS4 Stormwater Management Program, including IDDE program implementation Conduct a stormwater BMP retrofit inventory/feasibility study for Heritage Village, which would support Southbury's efforts to reduce and disconnect DCIA as required by the MS4 Permit | High | High | High | Yes | YES - LARGE | |
| Wastewater Treatment Facility 1 (Pomperaug-03) | Heritage Road, Southbury | Wastewater treatment plant | <ul style="list-style-type: none"> Conduct additional ambient water quality monitoring at new sampling locations to determine extent of impairment and possible source(s) of bacteria | | N/A | Low | N/A | Yes | | |
| Commercial Complex 1 (tributary to Pomperaug-03) | East side of intersection of Route 6 and Main Street South, Southbury (South of Bullet Hill Brook) | Stormwater runoff, waste management, past septic issues | <ul style="list-style-type: none"> Incorporate LID retrofits into site redevelopment Underground infiltration, permeable pavement Inspect septic systems for failure (due to size this falls under DPH or DEEP jurisdiction) | <ul style="list-style-type: none"> Cover dumpsters with roof Review stormwater control plan, if exists Heavily channelized stream Conduct survey for potential illicit discharges from businesses in plaza | High | High | High | Yes | |  |
| Business District 1 (Pomperaug-03) | Main Street South Corridor, Southbury (particularly concentrated at Municipal Complex west of the intersection with Peter Road | Stormwater runoff | <ul style="list-style-type: none"> Develop and implement GI/LID "master plan" for Main Street South corridor LID retrofits of municipal and commercial properties and within the municipal ROW between Route 6/Southbury Plaza and South Britain Road (Route 172) Potential municipal sites include: <ul style="list-style-type: none"> Southbury Police, Fire, and DPW Southbury Town Hall Southbury Park and Recreation Rochambeau Middle School Pomperaug Elementary School Southbury Library Municipal ROW Numerous commercial redevelopment sites along the corridor | | High | High | High | Yes | |  |
| Health Care 2 (tributary to Pomperaug-03) | Intersection of Main Street South and Garage Road | Dry weather discharge (pavement stained) | <ul style="list-style-type: none"> Follow up sampling of dry weather discharge and removal of any illicit connections found | | Medium | Low | Low | Yes | |  |

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| Equestrian 2 | Pomperaug River Crossing on Route 172, South Britain | Equestrian facility, manure piles, paddock | <ul style="list-style-type: none"> Move manure piles to alternative site with filter berms or drainage away from Pomperaug Filter berms or increased buffer to pond Bank stabilization and buffer improvement along river edge Evaluate need for farm pond Move and regrade paddock/training areas to improve buffer | <ul style="list-style-type: none"> Manure management in place Most paddocks drain away from Pomperaug and toward a pond with algal mats that drains to Pomperaug Farm to the north allows cows/cattle access to tributary. Add buffer and fencing around stream. Outreach for manure management best practices Connecticut Horse Environmental Awareness Program (HEAP) and Connecticut Horse Farm of Environmental Distinction Program | High | Medium | Low | Yes | YES - SMALL | |
| Equestrian 4 | Intersection of Route 67 and Crook Horn Drive | Manure in open dumpsters | <ul style="list-style-type: none"> Cover dumpsters or ensure drainage away from river | <ul style="list-style-type: none"> Outreach for manure management best practices | High | Low | Low | Yes | |  |
| State Facility 1 | Garage Road, Southbury | Stormwater runoff, potential illicit discharges (buried stream) | <ul style="list-style-type: none"> Good housekeeping/pollution prevention Infiltration where possible | | | | | No | |  |
| Town Park 2 | Judson Avenue / Jack's Bridge Road, Woodbury | Pet and wildlife waste | <ul style="list-style-type: none"> Pet waste management Increase buffer width | | | | | No | YES – SMALL | |
| Earthworks / Quarry 1 | Route 67, Southbury | Sedimentation ponds, dynamic river channel, non- bacterial | <ul style="list-style-type: none"> N/A | | | | | No | | |
| Town Park 1 | | Pet and wildlife waste | <ul style="list-style-type: none"> Pet waste management | | | | | No | | |
| Dog Park 1 | Route 67 along the north bank of the Pomperaug River, Southbury | Pet waste, bank erosion | <ul style="list-style-type: none"> Increase buffer width, already slated for bank stabilization project | | | | | No | YES - SMALL | |
| Residential Complex 2 | Main Street South, Woodbury just north of the Southbury Town Line | Concerns about large residential septic system | <ul style="list-style-type: none"> Inspect septic system for proper function | | | | | No | | |

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| Equestrian 3 | Route 67 along South Branch of Bullet Hill Brook | Stream running through paddock | <ul style="list-style-type: none"> Encourage sufficient buffer Animal exclusion fencing | | | | | No | |  |
| Residential Complex 3 | Route 6 across intersection from South Pomperaug Avenue, Middle Quarter, Woodbury | Past septic issues | <ul style="list-style-type: none"> Inspect septic system for proper function | | | | | No | | |
| Commercial Complex 2 | West side of Route 6; south of intersection with Route 64, Middle Quarter Woodbury | Historical groundwater contamination Septic failure issues | <ul style="list-style-type: none"> Inspect septic system for proper function | | | | | No | | |
| Health Care 1 | North of intersection of Route 172 and Main Street South, Southbury adjacent to Pomperaug River | Past septic issues | <ul style="list-style-type: none"> Inspect septic system for proper function | | | | | No | | |
| WEEKEEPEEMEE RIVER SUBWATERSHED | | | | | | | | | | |
| Cropland / Livestock 1 (Weekeepemee-01) | Intersection of Chohees Trail & Weekeepemee Road | Run-off from livestock pasture and feeding paddocks. Livestock access to intermittent stream. Row crops. | <ul style="list-style-type: none"> Filter berms along pasture and Weekeepemee Increased vegetated buffer width Infiltration BMP on north farm next to road Remove stream access through buffer and/or fencing | <ul style="list-style-type: none"> Fencing in good repair, encourage maintenance Encourage effective manure application (e.g., not before rain storm) | High | Medium | Low | Yes | YES - SMALL | |


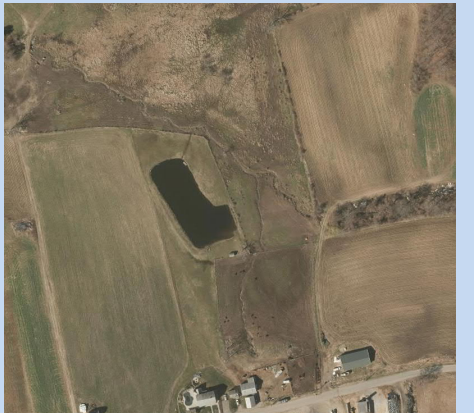
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| Equestrian 5 (Weekeepeemee-01) | Weekeepeemee Road Woodbury, just south of the Bethlehem town line | Livestock (horses, goats, alpaca) manure | <ul style="list-style-type: none"> Filter berms along intermittent stream Increase buffer width | <ul style="list-style-type: none"> Fencing in good repair, encourage maintenance Outreach for manure management best practices | High | Medium | Low | Yes | |  |
| Cropland 1 (Weekeepeemee-01) | Weekeepeemee Road South of Peter Road, Woodbury | Row crops | <ul style="list-style-type: none"> Increase buffer width | Timing relevant to application of manure / fertilizer on the fields | High | Medium | Low | Yes | |  |
| Livestock (Weekeepeemee-01) | Weekeepeemee Road South of Peter Road, Woodbury | Livestock (few head); | <ul style="list-style-type: none"> Filter berms along Weekeepeemee Increase buffer width | <ul style="list-style-type: none"> Encourage effective manure application (e.g., not before rain storm) Outreach for manure management best practices | High | Medium | Low | Yes | YES - SMALL | |
| Cropland 2 (tributary to Weekeepeemee-01) | North of Peter Road, adjacent to Carmel Hill Brook | Row crops / vegetable | <ul style="list-style-type: none"> Increase buffer width | | High | Medium | Low | Yes | | |
| Livestock 3 | Guilds Hollow Road | Livestock grazing and feed lot | <ul style="list-style-type: none"> Filter berm along Dowd Brook | <ul style="list-style-type: none"> Feeding appears to occur in a local depression, ensure that it does not drain under road | High | Medium | Low | Yes | YES – SMALL | |
| Cropland / Livestock 2 | Thomson Road, Bethlehem | Livestock access to tributary | <ul style="list-style-type: none"> Increased buffer and fencing or filter berms | <ul style="list-style-type: none"> Evaluate manure storage Outreach for manure management best practices | High | Low | Low | Yes | YES - SMALL | |

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| Livestock 2 | Robert Leather Road, Bethlehem | Convent with active farm operation. Past grant recipient for cattle management to get cows out of a wetland area. | <ul style="list-style-type: none">Encourage effective manure management | | | | | Yes | |  |
| Earthworks 2 (Weekeepeemee-01) | North of Crane Hollow Road, east of Weekeepeemee River | Earth excavation and school bus yard | <ul style="list-style-type: none">Encourage effective sediment and erosion controls, runoff infiltration | | | | | No | | |
| Residential Neighborhood 6 | Kasson Grove, Bethlehem | Lake side housing community -- old seasonal camps, many now year round residences | <ul style="list-style-type: none">Inspect septic system for proper function and sizing | | | | | No | | |
| Residential Neighborhood 5 | Lake Drive | Lake side housing community -- old seasonal camps, many now year round residences | <ul style="list-style-type: none">Inspect septic system for proper function and sizing | | | | | No | | |
| Dairy Farm 1 | West of Todd Hill Road, north of intersection with Wood Creek Road, Bethlehem | Manure storage | <ul style="list-style-type: none">Encourage effective manure management | <ul style="list-style-type: none">Evaluate manure storageOutreach for manure management best practices | | | | No | |  |


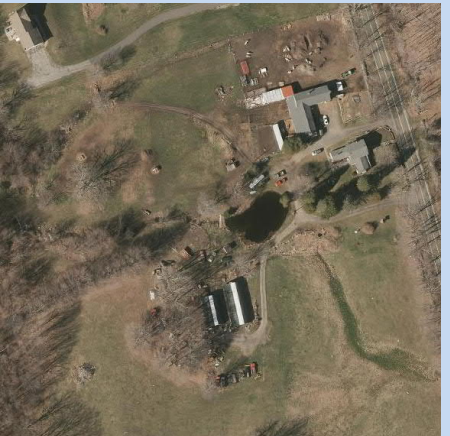
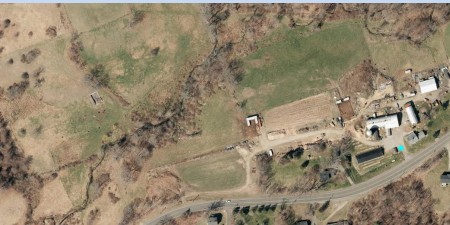

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| Equestrian 6 | east of Todd Hill Road, south of Bergman Hill Road, Bethlehem | Manure storage | <ul style="list-style-type: none"> Encourage effective manure management | <ul style="list-style-type: none"> Evaluate manure storage Outreach for manure management best practices | | | | No | |  |
| Equestrian 7 | Middle Road Turnpike, Woodbury | Horse access to tributary stream | <ul style="list-style-type: none"> Filter berms and/or increased buffer in pasture Reconfigure paddocks to avoid stream | <ul style="list-style-type: none"> Some buffer exists in parts of pasture land Outreach for manure management best practices Connecticut Horse Environmental Awareness Program (HEAP) and Connecticut Horse Farm of Environmental Distinction Program | High | Medium | Low | Yes | YES - SMALL | |
| Dairy Farm 2 | Artillery Road, Woodbury | Livestock access to tributary. Incomplete coverage of manure storage. | <ul style="list-style-type: none"> Filter berms or fencing and increased buffer around stream to prevent livestock access Reconfigure manure composting to divert runoff away from catch basins Consider covered manure storage or manure composting | | High | Medium | Low | Yes | |  |



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| Residential Neighborhood 7 | Quassapaug Road at Soucy Road, Woodbury | Impacts to wetland areas Historic (chronic) septic failures | <ul style="list-style-type: none">• Ensure wetland limits have been respected• Septic inspections | | | | | No | |  |
| Livestock 4 | Hard Hill Road South, approximately 1/4 mile north of intersection with Nonnewaug Road, Bethlehem | Livestock paddock near farm pond Possible junkyard | <ul style="list-style-type: none">• Encourage adequate buffer to water body• Ensure proper waste storage and disposal | | | | | No | |  |
| Plant Nursery 1 | North of Washington Road (Route 47 Bridge), Woodbury | Fertilizer and pesticide applications | <ul style="list-style-type: none">• Encourage effective application (and storage) strategies and timing | | | | | No | |  |

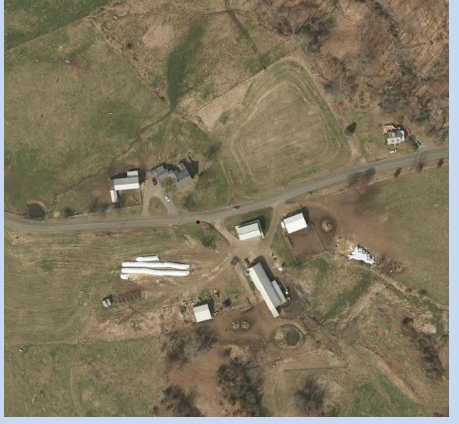


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| Livestock 7 | West side of Flanders Road near intersection with Church Hill Road, Woodbury | Cattle | <ul style="list-style-type: none"> Encourage effective manure management | <ul style="list-style-type: none"> Outreach for manure management best practices | | | | No | |  |
| Livestock 6 | West side of Flanders Road near intersection with Church Hill Road, Woodbury | Cattle, chickens, pigs, etc | <ul style="list-style-type: none"> Encourage effective manure management | <ul style="list-style-type: none"> Outreach for manure management best practices | | | | No | |  |
| Livestock 5 | Route 6 near Guernseytown Road on the Woodbury/Watert own townline | Cattle, chickens, pigs, etc | <ul style="list-style-type: none"> Encourage effective manure management | <ul style="list-style-type: none"> Outreach for manure management best practices | | | | No | |  |
| Cropland 3 | East of Main Street North (Route 6), north of Scratchville Road along Nonnewaug River | Cornfield – application of manure as fertilizer | <ul style="list-style-type: none"> Encourage effective application strategies and timing Enhance width of riparian buffer | | | | | No | |  |

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| EAST SPRING BROOK SUBWATERSHED | | | | | | | | | | |
| Equestrian 7 | Route 61, Morris north of fairgrounds | Manure storage | <ul style="list-style-type: none"> Increase buffer to stream | <ul style="list-style-type: none"> Manure management measures appear to be in place Outreach for manure management best practices Connecticut Horse Environmental Awareness Program (HEAP) and Connecticut Horse Farm of Environmental Distinction Program | High | Low | Low | Yes | |  |
| Fish Hatchery 1 | Nonnewaug Road, Bethlehem | Nutrients | <ul style="list-style-type: none"> If still active, encourage effective waste management, possibly through multi-trophic aquaculture | | | | | No | | |
| Dairy Farm 3 | Magnolia Hill Road and Hard Hill Road South, Bethlehem | Livestock access to tributary. Manure storage | <ul style="list-style-type: none"> Filter berms or fencing and increased buffer around stream to prevent livestock access Evaluate manure storage practices | <ul style="list-style-type: none"> Outreach for manure management best practices | | | | No | |  |
| TRANSYLVANIA BROOK SUBWATERSHED | | | | | | | | | | |
| State Facility 2 | Route 172, Southbury north of South Britain Historic District | Ag easement, including leases to local farming operations | <ul style="list-style-type: none"> Encourage effective manure management and timing for spread of fertilizer/manure on cropland areas | Outreach for manure management best practices | | | | No | | |
| State Facility 2 | Route 172, Southbury north of South Britain Historic District | Waterfowl | <ul style="list-style-type: none"> Establish / increase riparian buffer width to filter runoff from fields where geese graze | Pond infested with water chestnut | | | | No | YES - SMALL | |

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| Dairy Farm 4 | Spruce Brook Road, Southbury | Manure storage | <ul style="list-style-type: none"> Encourage effective manure management | <ul style="list-style-type: none"> Outreach for manure management best practices | | | | No | |  |
| HESSEKEY BROOK SUBWATERSHED | | | | | | | | | | |
| Residential Complex 4 | Transylvania Road & Woodlake Road | Private sewage treatment plant | <ul style="list-style-type: none"> Ensure correct sizing and effective monitoring for failures | | | | | No | |  |
| Dairy Farm 5 | north of intersection of Grassy Hill Road and North Road, Woodbury | Manure storage / Cattle pastured on slope draining to pond with minimal buffer width | <ul style="list-style-type: none"> Filter berms or fencing and increased buffer around stream to prevent livestock access | <ul style="list-style-type: none"> Outreach for manure management best practices | | | | No | |  |