

Town of Gorham
Canandaigua Lake Watershed

	Best Management Practices (BMP)	Existing Means of Implementation (law, regulation, practice, etc)	Degree of Implementation
			(2-fully, 1-partially, 0-not at all, n/a-not applicable)
1-01	Identify retrofit opportunities		0
1-02	Identify habitat and natural conveyance system restoration opportunities		0
1-03	Establish retention/detention areas	Soil Erosion and Sedimentation Control Law: Sec. 35-12, P: There shall be provided such measures as benches, berms, terraces, diversions, and sediment, debris and retention basins, where necessary, to minimize erosion and sediment...	2
1-04	Acquire additional land for locating treatment facilities		0
1-05	Encourage homeowners to place compost piles away from waterbodies and roadways		0
1-06	Encourage proper use and disposal of lawn and other household chemicals	Practice: Ontario County Household Hazardous Waste program; 2004 EPF grant	2
1-07	Institute turf management practices on golf courses and parks and recreation areas		0
1-08	Undertake storm drain stenciling	Practice: Canandaigua Watershed Task Force	2
1-09	Encourage volunteer programs, such as adopt-a-highways and adopt-a-stream, etc.	Practice: Canandaigua Lake Watershed Council, Canandaigua Lake Watershed Alliance, and Canandaigua Lake Watershed Task Force all active organizations	2
1-10	Include high percentage of indigenous plants in new landscaping on privately-owned properties (excluding arboretums, horticultural gardens, and sites requiring turf grasses)		0
1-11	Encourage water conservation		0
1-12	Develop outreach programs targeted at specific problems related to water quality management & resource conservation	Practice: FL/LOWPA, the Finger Lakes Institute, county SWCD, Cornell Cooperative Extension and local watershed groups each develop programs	2
1-13	Encourage proper control of pet wastes		0
1-14	Encourage continued operation of private storm water runoff control structures		0
1-15	Discourage feeding of waterfowl		0

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1-16	Discourage the introduction of exotic aquatic species (Eurasian water milfoil, zebra mussels, water chestnut, etc	Practice: Finger Lakes Institute "Weeds Watch Out" program, as well as other initiatives by CCE, SWCD, and other local watershed groups	2
1-17	Encourage continued (periodic) operation and maintenance of private septic disposal systems	Practice: Canandaigua Watershed Council; other organizations such as SLAP-5, CCE and SWCD's also conduct similar education and outreach programs	2
1-18	Effective and consistent application and enforcement of stormwater regulations & requirements		0
1-19	Require certification of existing on site septic systems for property transfers or building expansions.	Part 132 of NYS Public Health Law: used by Canandaigua Lake Watershed Commission to inspect at transfers and new construction	2
1-20	Require entire property (existing as well as proposed) to be included in stormwater analysis/calculation.		0
1-21	Minimize the amount of land disturbed and the duration of disturbance	Z.O. Sec. 31.29, Planned Dev. Districts: <i>A Purpose (2)</i> To provide for the most appropriate, <u>efficient</u> and environmentally sound use of designated land areas within the Town. <i>B Objectives (2)</i> Provide open space as an integral part of the plan. Preserve open space and rural character while allowing sufficient residential density and/or sufficiently intensive development of other types to support the extension of infrastructure to the PDD;... <i>(4)</i> Preserve trees, outstanding natural topography and sensitive environmental features; <i>(5)</i> Make creative use of land resulting and related physical development; <i>(6)</i> Make efficient use of land resulting in smaller networks of utilities and streets and thereby lowering costs for construction, maintenance and housing.	2

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1-22	Preserve natural features and conform substantially with the natural boundaries and alignment of waterbodies	Z.O. Sec. 31.29, Planned Dev. Districts: A Purpose (2) To provide for the most appropriate, <u>efficient</u> and environmentally sound use of designated land areas within the Town. B Objectives (2) Provide open space as an integral part of the plan. Preserve open space and rural character while allowing sufficient residential density and/or sufficiently intensive development of other types to support the extension of infrastructure to the PDD;...(4) Preserve trees, outstanding natural topography and sensitive environmental features; (5) Make creative use of land and related physical development... See also Soil Erosion and Sedimentation Control Law, Sec. 35-12, B	2
1-23	Retain and protect trees and other natural vegetation on and near disturbed sites	Z.O. Sec. 31.29, Planned Dev. Districts: A Purpose (2) To provide for the most appropriate, <u>efficient</u> and environmentally sound use of designated land areas within the Town. B Objectives (4) Preserve trees, outstanding natural topography and sensitive environmental features...	2
1-24	Account for topography and soil type in efforts to minimize erosion potential	Soil Erosion and Sedimentation Control Law: Sec. 35-12, B: Site preparation and construction shall be fitted to the vegetation, topography and other natural features of the site and shall preserve as many of these features as feasible;	2
1-25	Maintain runoff rates similar to pre-construction levels	Soil Erosion and Sedimentation Control Law: Sec. 35-12, M: The natural drainage system shall generally be preserved in preference to modifications of this system...	2
1-26	Minimize the creation of impervious areas		0
1-27	Control increased runoff caused by changed surface conditions to minimize the danger of flooding, erosion, sedimentation and pollutants entering waterbodies prior to, during and after construction	Soil Erosion and Sedimentation Control Law: Sec. 35-12, L: Prior to, during, and after site preparation and construction, an integrated drainage system shall be provided which at all times minimizes erosion, sediment, hazards of slope instability, and adverse effects on neighboring property owners.	2
1-28	Use temporary vegetation and mulching to protect exposed and critical areas during development	Soil Erosion and Sedimentation Control Law: Sec. 35-12, F: Mulching or temporary vegetation suitable to the site shall be used where necessary to protect areas exposed by site preparation, and permanent vegetation which is well adapted to the site shall be installed as soon as practical.	2

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1-29	Redistribute topsoil within the boundaries of the disturbed land for seeding and planting	Soil Erosion and Sedimentation Control Law: Sec. 35-12, K: Topsoil which is excavated from a site shall be stockpiled and used for the restoration of the site, and such stockpiles shall be seeded or otherwise treated to minimize the effects of erosion, if the pile is to remain for a period of more than 90 days.	2
1-30	Stabilize disturbed soils as soon as possible	Soil Erosion and Sedimentation Control Law: Sec. 35-12, E: The exposure of areas by site preparation shall be kept to the shortest practical period of time prior to the construction of structures or improvements or the restoration of the exposed area to an attractive natural condition;	2
1-31	Minimize the use of cut and fill operations. Conform such operations to topography and soils to minimize erosion potential and adequately accommodate runoff		0
1-32	Use appropriate solid and hazardous waste generation and disposal practices including source controls and recycling		0
1-33	Encourage construction site management techniques which include the proper handling and disposal of pesticides and petroleum products and containers		0
1-34	Ensure proper operation and maintenance of runoff management facilities		0
1-35	Target training for contractors, inspectors and zoning and planning officials.	Practice - town engineers, supervisors are encouraged to seek training and often do	2
1-36	Require tree surveys and/or cutting plans.		0
1-37	Develop priority list for BMP's - use of vegetative low areas for retention/infiltration.		0

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1-38	Encourage cluster development.	Comp. Plan, Pg. 59: The Town should also encourage cluster development as an option to preserve farmland, agricultural uses, and open space in areas where municipal services are available, yet prime agricultural soils exist. Any Cluster development should include easements granted to the Town protecting the preserved space from future development. Z.O. 31.56: Pg. 61- Cluster development is encouraged in order to preserve open space and forested areas. The Planning Board is authorized to allow or require cluster development.	2
1-39	Require connection to and/or extension of existing water & sewer if project is within 500 feet of existing infrastructure		0
1-40	Enact limits on driveway grades.		0
1-41	For redevelopment, employ regulations that provide for technologically advanced (on and off) site wastewater treatment systems to optimize efficiencies and address "challenging" sites		0
1-42	Implement Federal/State Stormwater (SPDES) Phase II requirements	Practice: rules for Pre/Post Construction facilitated by county SWCD, county planning and the regional planning council	2
2-01	Consider potential water quality impacts when selecting silviculture system (yarding system, site preparation, pesticides employment, etc)		0
2-02	Consider harvesting practices		0
2-03	Seasonal preference for logging operations		0
2-04	Have specialists (geologist, soil scientist, geotechnical engineer, wildland hydrologist) review plans in high erosion hazard areas		0
2-05	Preplan harvest areas, skid trails, and access so as to be on stable soils, avoiding steep gradients, multiple stream crossings, poor drainage areas, etc.		0
2-06	Limit grades of access roads.		0
2-07	Require stabilization of roads/drives to forestry site.		0

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2-08	Employ natural topography and contour for design of road network		0
2-09	Require stormwater controls for increased runoff from ground cover modification		0
2-10	Consider site restoration		0
2-11	Use Agricultural Environmental Management (AEM)	Practice: Active and administered by county SWCD; projects are prioritized each year based on local needs and EPF funding	2
2-12	Require farms seeking agricultural value assessment to participate in AEM		0
3-01	Develop an operation and maintenance program for existing modified streams that includes identification of opportunities and actions to restore habitat and the physical and chemical characteristics of these streams.		0
3-02	Improve stream quality by controlling instream sedimentation and selectively clearing debris		0
3-03	Establish or reestablish riparian buffers		0
3-04	Prevent animal wastes from entering waterbodies		0
3-05	Attempt vegetative stabilization before undertaking structural measures		0
3-06	Design and construct shore erosion control facilities, in accordance with an erosion and sedimentation control plan, in areas where marsh creation and soil bioengineering are ineffective or where existing protection methods are being flanked or are falling		0
3-07	Schedule the periodic maintenance of sediment control measures, and inspect and repair them as needed in conformance with established schedule.		0

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3-08	Protect streambanks through direct nonstructural means, such as new vegetation or protection of existing vegetation; direct structural means, such as revetments and bulkheads; indirect nonstructural means, such as regulating irrigation near streambanks or rerouting overbank drainage; or indirect structural means, such as deflecting channel flow away from streambanks with dikes, board fences and gabions		0
3-09	Use setbacks to minimize disturbance of land adjacent to streambanks and shorelines	Soil Erosion and Sedimentation Control Law: Sec. 35-12 Standards, H. Site preparation and construction shall not adversely affect the free flow of water by encroaching on, blocking or restricting watercourses except as permitted by approved detention systems...	2
3-10	Prevent discharges to waterbodies in amounts that would adversely affect the taste, color or odor of the waters, or would impair the waters for their best usages		0
3-11	Consider wetlands and riparian areas and their non-point source (nps) control potential on a watershed scale		0
3-12	Identify existing functions of those wetland and riparian areas with significant nps control potential when implementing nps management practices. Do not alter wetlands or riparian areas to improve their water quality at the expense of their other functions		0
3-13	Conduct permitting, licensing, certification and nonregulatory nps pollution activities in a manner that protects wetland functions		0
3-14	Special zoning considerations to protect wetland areas		0
3-15	Use appropriate pretreatment practices such as vegetated systems or detention or retention basins to prevent adverse impacts to wetland functions that affect nps pollution abatement from hydrologic changes, sedimentation, or contaminants		0

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3-16	All projects should require wetlands certification.		0
4-01	Clean maintenance areas regularly preferably by vacuuming to remove trash, sandings, paint chips, etc.		0
4-02	Prevent residue from being carried into surface waters by performing abrasive blasting within plastic tarp enclosures on windless days or within spray booths		0
4-03	Provide proper disposal/recycling facilities to marina patrons, preferably covered receptacles		0
4-04	Establish fish cleaning areas, and implement rules governing the conduct of fish cleaning operations		0
4-05	Educate boaters on the importance of proper fish cleaning practices		0
4-06	Implement fish composting where appropriate		0
4-07	Store materials in areas impervious to the type of material stored. Build curbs, berms, or other barriers around the areas to contain spills		0
4-08	Use separate, clearly labeled containers for the disposal of oil, gasoline, antifreeze, diesel, kerosene, and mineral spirits		0
4-09	Target outreach programs about proper disposal at marina patrons through the use of signs, mailings, and other means		0
4-10	Promote the use in bilges of oil-absorbing materials, and replace them as necessary, preferably recycling, or disposing of them in accordance with petroleum disposal regulation		0
4-11	Use a container under the air vent while refueling inboard tanks if the tank vents are not equipped with a fuel/air separator		0
4-12	Prohibit in-water hull scraping or any underwater process to remove paint from boat hulls		0

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4-13	Wash the boat hull above the waterline by hand, using only necessary amounts of detergents and cleaning compounds that are phosphate-free and biodegradable		0
4-14	Prohibit the use of detergents and cleaning compounds containing ammonia, sodium hypochloride, chlorinated solvents, petroleum distillates, alcohol, or lye		0
4-15	Educate individuals about the importance of trash reduction and recycling through: interpretive and instructional signs placed at marinas and boat-launching sites, pamphlets or flyers, newsletters, inserts in billings, meetings and presentations, workshops, and certification programs		0
4-16	Inspect pumpout facilities regularly, and repair them, if practical, under a maintenance contract with a competent contractor		0
4-17	Add language to slip lease agreements mandating the use of pumpout facilities and specifying penalties for failure to comply		0
4-18	Place dye tablets in holding tanks to identify and discourage illegal disposal		0
4-19	Prohibit motorized vessels from areas (define areas) that contain important shallow-water habitats		0
4-20	Establish and enforce no-wake zones to decrease turbidity and reduce erosion potential from boat wakes		0
4-21	Design and site marinas to maximize exchange of marina basin water. Limit basins and channels with square corners that tend to trap flotsam, and place dock structures in a manner that promotes circulation		0
4-22	Perform a preconstruction assessment, which includes a water quality monitoring and modeling methodology, to predict post-construction water quality conditions		0

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4-23	Monitor water quality during construction to protect ambient water quality to the maximum practicable extent		0
4-24	Develop a marina siting policy to discourage development in areas containing important habitat designated by local, State, or federal agencies		0
4-25	Conduct surveys and employ rapid bioassessment techniques to assess historic habitat function (e.g. spawning, nursery, and migration pathways) and potential impacts to these and other biological functions and resources		0
4-26	Encourage the redevelopment or expansion of existing marina facilities that have demonstrated minimal environmental impacts instead of developing new marina facilities		0
4-27	Consider alternative sites with minimal potential environmental impacts when the use of previously disturbed sites is not feasible		0
4-28	Minimize disturbance of indigenous vegetation in the riparian area		0
4-29	Use soil bioengineering or plants, wherever conditions allow, to restore damaged habitat along shorelines and streambanks		0
4-30	Use properly designed and constructed engineering practices that minimize shoreline disturbance in areas where soil bioengineering and plants are ineffective	Z.O. 31.18A LFO Lake Front Overlay Dist.; and Z.O. 31.85C Yacht Club, Marina, or Boat Launch (B) Site location and suitability, 1	2
4-31	Use appropriate shore erosion control methods, such as returns or return walls, in areas where existing protection methods are being flanked or are falling	Z.O. 31.18A LFO Lake Front Overlay Dist.; and Z.O. 31.85C Yacht Club, Marina, or Boat Launch (B) Site location and suitability, 1	2
4-32	Plan and design all steambank, shoreline, and navigation structures so that they do not transfer erosion energy to or otherwise cause visible loss of surrounding streambanks or shorelines		0

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4-33	Locate and design fuel stations so that spills can be contained in a limited area		0
4-34	Design and install underground fuel storage tanks according to State regulations, including the provision of detection systems and automatic fuel tank and pump leak shut-offs		0
4-35	Provide aboveground fuel tanks and fueling areas with a curbed or diked storage area to handle containment volumes meeting State (and local) codes and inspect regularly		0
4-36	Use preferred pumpout systems: fixed-point, portable, dedicated slipside, and pumpout boats		0
4-37	Design onsite wastewater treatment systems to specifically handle waste from vessels		0
4-38	Post pumpout facility location and regulations at the marina. Charge fees that encourage rather than discourage facility use. Consider offsetting the cost of maintaining pumpout facilities by fuel sales where these facilities are conveniently located in close proximity to one another		0
4-39	Restrict boat repair and maintenance activities to clearly marked designated areas to prevent debris from falling into the water and preventing invasive species		0
4-40	Secure all fueling facilities and storage areas with appropriate shut-off devices and security locks and inspect regularly		0
4-41	Design fueling stations with spill containment equipment that is stored in a clearly marked location, accessible to work and storage areas. Post emergency phone numbers in a prominent location		0
4-42	Design a spill contingency plan		0

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4-43	Inspect and maintain all containment berms or devices in accordance with State regulations. Investigate immediately signs of leakage or spillage, and undertake cleanup in accordance with applicable best management practices		0
4-44	Have a trained operator present and prepared to respond to accidental spills		0
4-45	Maintain daily inventory records to identify abnormal loss or gain of liquid		0
4-46	Prohibit the cleaning of hoses, fittings, pumps, and other accessory equipment on piers, docks or adjacent upland to prevent runoff into the marina basin or other surface or groundwater		0
4-47	Create and/or maintain a dedicated fund for maintenance in the case of government-owned facilities		0
4-48	Restrict the operation of pumpout facilities to trained marina personnel only		0
5-01	Conduct road and bridge maintenance (de-icing material usage and storage, pot-hole repair, bridge washing, scraping and painting, etc) according to best management practices	Practice - Supervisor aware of the importance of using BMPs; de-icing use and storage when practical	1
5-02	Conduct right-of-way activities (mowing, brush removal, pesticide and fertilizer use, etc) - according to best management practices	Practice - No chemicals used, seasonal conditions considered whenever possible, topographical conditions always considered	2
5-03	Include high percentage of indigenous plants in new landscaping on public-owned properties (excluding arboretums, horticultural gardens, and site requiring turf grasses)	Practice - all landscaping referred to a professional landscaper knowledgeable with native and site-tolerant species	2
5-04	Implement a regular inspection and maintenance plan of existing structures	Practice - inspections conducted regularly, as needed	1
5-05	Develop and identify erosion/sediment control areas (examples include steep slopes, easily erodible soils, and nearby sensitive areas) and retrofit opportunities	Practice - underground storage system installed, other retrofit opportunities continually identified	2

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5-06	Require percentage of roads to be tested with non-salt and non-sand de-icing.	Practice - alternatives have been tested, with very limited success;	1
5-07	Minimize the amount of land disturbed and the duration of disturbance	Practice: standard procedure	2
5-08	Preserve natural features and conform substantially with the natural boundaries and alignment of waterbodies	Z.O. Sec. 31.29, Planned Dev. Districts: A Purpose (2) To provide for the most appropriate, <u>efficient</u> and environmentally sound use of designated land areas within the Town. B Objectives (2) Provide open space as an integral part of the plan. Preserve open space and rural character while allowing sufficient residential density and/or sufficiently intensive development of other types to support the extension of infrastructure to the PDD;...(4) Preserve trees, outstanding natural topography and sensitive environmental features; (5) Make creative use of land and related physical development... See also Soil Erosion and Sedimentation Control Law, Sec. 35-12, B	2
5-09	Retain and protect trees and other natural vegetation on and near disturbed sites	Z.O. Sec. 31.29, Planned Dev. Districts: A Purpose (2) To provide for the most appropriate, <u>efficient</u> and environmentally sound use of designated land areas within the Town. B Objectives (4) Preserve trees, outstanding natural topography and sensitive environmental features...	2
5-10	Retain additional runoff sites		0
5-11	Minimize the creation of impervious areas		0
5-12	Treat increased runoff caused by changed surface conditions to minimize the danger of flooding, erosion and pollutants entering waterbodies prior to, during and after construction	Practice - check dams widely employed	2
5-13	Use temporary vegetation and mulching to protect exposed and critical areas during development	Law - Soil Erosion and Sedimentation Control Law: Sec. 35-12, F: Mulching or temporary vegetation suitable to the site shall be used where necessary to protect areas exposed by site preparation, and permanent vegetation which is well adapted to the site shall be installed as soon as practical. Practice - hydroseeding and hand seeding always conducted as needed	2

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5-14	Redistribute topsoil within the boundaries of the disturbed land for seeding and planting	Law - Soil Erosion and Sedimentation Control Law: Sec. 35-12, K: Topsoil which is excavated from a site shall be stockpiled and used for the restoration of the site, and such stockpiles shall be seeded or otherwise treated to minimize the effects of erosion, if the pile is to remain for a period of more than 90 days.	2
5-15	Stabilize disturbed soils as soon as possible	Practice: standard procedure	2
5-16	Minimize the use of cut and fill operations. Conform such operations to topography and soils to minimize erosion potential and adequately accommodate runoff	Practice: standard procedure	2
5-17	Control erosion and sedimentation prior to, during and after site preparation and construction	Practice: standard procedure	2
5-18	Require long term stormwater management plan.	Law - Soil Erosion and Sediment Control Law Practice - Stormwater districts formed as necessary; highway dept. makes itself available to conduct routine maintenance if no other entity is identified	2
5-19	Require long term sedimentation control & maintenance.	Law - Soil Erosion and Sediment Control Law Practice - highway dept.	2
5-20	Target existing public holdings, such as parks, for removing unnecessary impervious surfaces		0
5-21	Incorporate New York State Department of Transportation design and guidance documents, standard specifications, and procedural manuals (<i>Highway Design Manual, Environmental Procedures Manual, Maintenance Guidelines, etc</i>) into local laws and operating procedures	Practice - familiarity with programs/procedures, but no specific efforts	1
5-22	Ensure application of appropriate solid and hazardous waste generation and disposal practices including source controls and recycling	Practice - hazardous waste not used by dept., solid waste properly contained and transferred	1
5-23	Ensure proper operation and maintenance of runoff management facilities	Practice: standard procedure	2
5-24	Participate in Cornell Local Roads Program activities and training	Practice: Supervisor attends regularly	2
5-25	Target training programs at highway officials, contractors, construction workers, inspectors, zoning and planning officials	Practice - town engineers, supervisors are encouraged to seek training and often do	2

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5-26	Target training and outreach programs about the proper handling of materials, leakage and spill prevention and spill response procedures at maintenance staff and workers	Practice - several employees are volunteer fire fighters; supervisor training in hazmat; major problems referred to appropriate agency (fire, DEC, 911 call, etc.)	2
6-01	Conduct regular inspections of OWTS at a frequency adequate to determine failure and undertake required maintenance		0
6-02	Institute setback guidelines		0
6-03	Promulgate plumbing codes that require practices that are compatible with OWTS		0
6-04	Target outreach programs at homeowners, contractors and developers	Practice: Cornell Cooperative Extension, Soil and Water Conservation District, Canandaigua Lake Watershed Council all conduct education and outreach programs	2
6-05	Inspection of all OWTS at property transfer or within 1 year prior to transfer	Part 132 of NYS Public Health Law: used by Canandaigua Lake Watershed Commission to inspect at transfers and new construction	2
6-06	Require all properties within 500' of municipal service to connect.		0
6-07	Set goals for effluent limits (nitrogen, phosphorous, BOD, etc)		0