

Town of Clarendon
Black Creek Watershed

<i>BMP #</i>	Best Management Practices (BMP)	Existing Means of Implementation (law, regulation, practice, etc)	Implementation
			2-full, 1-partial, 0-not at all, n/a-not applicable
Section 1: Development			
<i>Existing Developments</i>			
1-01	Identify retrofit opportunities such as addition of stormwater ponds to older developments or construction of wastewater treatment systems to replace older septic systems		0
1-02	Identify habitat and natural conveyance system restoration opportunities		0
1-03	Establish retention/detention areas	Local Law, pg.35, II.5.5 - 5.5.1.5 - The town has determined that storm water detention basins will be required. C.P. Section 4, Drainage Policies, 2 - Retention and Detention basins shall be designed.	2
1-04	Acquire additional land for locating treatment facilities	Local Law, pg.39, II.9.2.1 - Where sanitary sewers are not available or where the proposed development is too distant from existing facilities, development may be permitted on the basis of providing septic tanks and leach beds.	2
1-05	Encourage homeowners to place compost piles away from waterbodies and roadways	Practice: 1999-2003 GLOW Composting Education Demonstration Sites set up with informational brochures	2
1-06	Encourage proper use and disposal of lawn and other household chemicals	Z.O. Article X, Section 1004 H - Adequate provisions are made for the collection and disposal of: waste (liquid, solid, gaseous, or of other character). 1995, 1999, 2003, 2006 GLOW Region Solid Waste Management Committee, in cooperation with GLOW Region Soil and Water Conservation, Farm Bureau and Cornell Cooperative Extension offices, farm pesticide collection programs; Household Hazardous Waste programs held regularly	2
1-07	Institute turf management practices on golf courses and parks and recreation areas		0
1-08	Undertake storm drain stenciling	Practice: conducted in both watersheds at various points in time; MS4s and stormdrains are relatively limited in rural towns, however	2
1-09	Encourage volunteer programs, such as adopt-a-highways and adopt-a-stream, etc.	Practice: Oatka/Black Creek Watershed Committee, Cornell Cooperative Extension and SWCD have various programs and volunteer efforts geared toward stream and ecosystem stewardship	2

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1-10	Include high percentage of indigenous plants in new landscaping on privately-owned properties (excluding arboretums, horticultural gardens, and sites requiring turf grasses)	Practice: SWCD tree and shrub sale, occurs on an annual basis; hardy varieties of native species are provided to the public at low-cost	2
1-11	Encourage water conservation		0
1-12	Develop outreach programs targeted at specific problems related to water quality management & resource conservation	Practice: CCE, SWCD and the two watershed groups have been developing several distinct programs regarding water quality, including (but not limited to) septic system outreach, erosion and sediment control workshops, agricultural BMPs, watershed planning and household hazardous waste	2
1-13	Encourage proper control of pet wastes		0
1-14	Encourage continued operation of private storm water runoff control structures	Local Law, pg.32, II.5.1.1 - Particular attention should be given to storm drainage facilities. These facilities shall be designed to take the runoff from streets, lawns, paved areas, and roof areas.	2
1-15	Discourage feeding of waterfowl		0
1-16	Discourage the introduction of exotic aquatic species (Eurasian water milfoil, zebra mussels, water chestnut, loosestrife, hogweed, etc)		0
1-17	Encourage continued (periodic) operation and maintenance of private septic disposal systems	C.P. Section 4, Sewage Disposal System Policies, 3 - The Town of Clarendon shall require review and approval of all new or modified sewage/septic disposal systems, and shall encourage the upgrading and existing private septic systems.	2
1-18	Effective and consistent application and enforcement of stormwater regulations & requirements	Z.O. Article X, Section 1004 H - Adequate provisions are made for the collection and disposal of: storm water runoff from the site. Local Law, pg.32, II.5.1.1 - Adequate and comprehensive drainage system shall be provided to convey the storm water runoff. C.P. Section 4, Drainage Policies, 2 - Adequate drainage facilities shall be required to accommodate natural storm water and increased surface water runoff anticipated as a result of development.	2
1-19	Require certification of existing on site septic systems for property transfers or building expansions.	Orleans County Sanitary Code: inspections performed when repairs, expansions or alterations take place; inspections performed upon request when property transfers or refinancing takes place	1

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1-20	Require entire property (existing as well as proposed) to be included in stormwater analysis/calculation.		0
1-21	Use of drainage districts	Design Criteria II.5.6.6 Storm Water District Formation: A storm water district formation, with the approval of the Town Board, shall be required for all new developments that contain detention basins, groundwater recharge and storm sewers, main channel improvements including straightening, bank stabilization and removal of debris.	2
<i>New Development and Substantial Redevelopment</i>			
1-22	Minimize the amount of land disturbed and the duration of disturbance		0
1-23	Preserve natural features and conform substantially with the natural boundaries and alignment of waterbodies	Z.O. Article VII Section 702, 1. B - The design of any building shall conform to the general character of the area and will not adversely affect the property. Z.O. Article X, Section 1004 B - The proposed use is physically and visually compatible with, and will not discourage the development of the general area or adversely affect the character of the existing land. C.P. Section 4, Drainage Policies, 1 - Policy of the Town of Clarendon to minimize the modification of existing vegetation.	2
1-24	Retain and protect trees and other natural vegetation on and near disturbed sites		0
1-25	Account for topography and soil type in efforts to minimize erosion potential	Local Law, pg.9, 15 - The developer shall provide erosion control barriers during construction. Local Law, pg.23, II.2.2 - Utilities shall be designed to conform with the topography of the property.	2
1-26	Maintain runoff rates similar to pre-construction levels	C.P. Section 4, Drainage Policies, 2 - Adequate drainage facilities shall be required to accomodate natural storm water and increased surface water runoff anticipated as a result of development. Local Law, pg.32, II.5.1.1 - Drainage systems shall have sufficient capacity to accommodate the potential future runoff based upon the probably land use and ultimate development.	2
1-27	Minimize the creation of impervious areas [encourage permeable surface]		0

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1-28	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	Zoning, Article VII, Section 703 Excavation and Mining 3-F Issuance of Special Permits for Mining and Excavation Operations 4-d: An adequate and comprehensive drainage system shall be provided to convey the storm water runoff originating on and crossing the premises in accordance with the natural direction of runoff for the total watershed area. Soil erosion, sedimentation and ground water seepage shall be controlled so as to prevent any negative effects on bodies of water... Local Law, pg.9, 15 - The developer shall provide erosion control barriers during construction.	2
1-29	Use temporary vegetation, silt barriers, and mulching to protect exposed and critical areas during development including timeline requirements (i.e. two weeks of no activity would need to be seeded)	Zoning, Article VII, Section 703 Excavation and Mining 3-F Issuance of Special Permits for Mining and Excavation Operations 4-F: Sediment control measures shall be installed to keep sediment damage, if any, totally within the applicant's property. See Also Design Guidelines III.7 Final Grading, and Restoration of Grassed Surfaces, [sections refer to hydroseeding, grading, covering and otherwise returning disturbed areas to a stable, vegetated state]	2
1-30	Redistribute topsoil within the boundaries of the disturbed land for seeding and planting	Design Guidelines III.7 Final Grading, and Restoration of Grassed Surfaces, [sections refer to hydroseeding, grading, covering and otherwise returning disturbed areas to a stable, vegetated state]	2
1-31	Stabilize disturbed soils as soon as possible	Design Guidelines III.7 Final Grading, and Restoration of Grassed Surfaces, [sections refer to hydroseeding, grading, covering and otherwise returning disturbed areas to a stable, vegetated state]	2
1-32	Minimize the use of cut and fill operations. Conform such operations to topography and soils to minimize erosion potential and adequately accommodate runoff		0
1-33	Use appropriate solid and hazardous waste generation and disposal practices including source controls and recycling	Z.O. Article VI Section 645, 1. E - No discharge beyond lot lines of any toxic or noxious matter in quantities that are detrimental or dangerous to public health, safety, comfort or welfare, or cause damage to property. Z.O. Article X, Section 1004 H - Adequate provisions are made for the collection and disposal of: waste (liquid, solid, gaseous, or of other character).	2

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1-34	Encourage construction site management techniques which include erosion control practices (follow SWPPPs) and the proper handling and disposal of pesticides and petroleum products and containers	Article VII, Section 703 Excavation and Mining 3-13: The reclamation plan and overlay map to natural features map shall be prepared and certified by a NYS licensed engineer or surveyor...	2
1-35	Ensure proper operation and maintenance of runoff management facilities	Design Criteria, Maintenance Security 1.6.2.1: In as much as weather conditions dictate practicality of performance as well as accessibility for appropriate inspection of the improvements, all Maintenance Bonds shall commence no earlier than June 1 or later than October 1 and expire two years thereafter. and 1.6.2.2: If the Developer chooses, Maintenance Securities may be established at the completion of the facilities or improvements listed below [storm sewers, catch basins, drainage facilities, detention ponds, etc.] and II.5.5.2, Access for Maintenance: If not adjacent to a public right of way, an easement shall be provided for access for purposes of maintaining the detention/retention basin...	2
1-36	Target training for contractors, developers, inspectors and zoning and planning officials.		0
1-37	Require tree surveys and/or cutting plans.		0
1-38	Develop priority list for BMP's - use of vegetative low areas for retention/infiltration.		0
1-39	Encourage cluster development/conservation subdivisions		0
1-40	Require connection to and/or extension of existing water & sewer if project is within 500 feet of existing infrastructure		0
1-41	Enact limits on driveway grades.		0
1-42	For redevelopment, employ regulations that provide for technologically advanced (on and off) site wastewater treatment systems to optimize efficiencies and address "challenging" sites		0

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1-43	Implement Federal/State Stormwater (SPDES) Phase II requirements including MS4 and Construction Permits as well as Municipal and Industrial Discharge Permits	Practice: Construction site and Construction Permit inspection conducted by the county SWCD at the request of NYSDEC; G/FLRPC continues to assist municipalities with other aspects of Phase II Stormwater compliance	2
1-44	Discourage development in flood plain and/or development below base flood elevation	Local Law, pg.38, II.7.2 - Attention shall be paid to development in the vicinity of creeks and their flood plains. No alteration of the existing characteristics of the area shall take place. *The town of Clarendon is the only municipality in Orleans County which does not require regulations for flood damage prevention of flood hazard area maps.*	2
Section 2: Forestry and Agriculture			
<i>Forestry</i>			
2-01	Consider potential water quality impacts when selecting silviculture system (yarding system, site preparation, pesticides employment, etc)		0
2-02	Consider harvesting practices	Practice: SWCD in conjunction with DEC offers woodlot management outreach services to land owners	2
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
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
<i>Agriculture</i>			

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2-11	Use Agricultural Environmental Management (AEM)	Practice: See county SWCD AEM Five Year Plan	2
2-12	Require farms seeking agricultural value assessment to participate in AEM	Does not apply: Legality of such a practice questioned by regional SWCD managers	n/a
2-13	Concentrated Animal Feeding Operations (CAFO) regulations and permits being followed	Practice: See county SWCD AEM Five Year Plan	2
2-14	Use of Comprehensive Nutrient Management Plans	Practice: Round VIII 2001-2005 Tier 3B CNMPs were completed for CAFO operations in the entire Oatka Creek watershed involving Monroe, Genesee and Wyoming counties. Round XI AEM Tier 4 2004 - undetermined 23 BMPs will be implemented on 12 priority farms in the Black, Oatka and Salmon Creek watersheds in Monroe, Genesee and Wyoming counties These projects will address the highest priority agricultural concerns in the entire watershed. The District will continue to work with willing farmers in the watershed as opportunities become available.	2
2-15	Barnyard runoff controls	see 2-14	2
2-16	Grazing in environmentally sensitive areas (e.g. streams)	Practice: Caring for Creeks, EPF Ag NPS Abatement grants	2
2-17	Use of agricultural protection such as Agricultural Districts, agricultural preservation ordinances and practices, right to farm laws, and Agricultural and Farmland Protection Plans	Ag. District Present. C.P. Section 4, Ag. Policies, 2 - The town of Clarendon shall support the formation and retention of agricultural districts established under the NYS Agriculture and Markets Law.	2
2-18	Existing Open Space Plans		0
Section 3: Waterways and Wetlands			
<i>Modified Waterways</i>			
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	Practice: SWCD	2
3-03	Establish or reestablish riparian buffers	Practice: SWCD works in conjunction with land owners, farmers in particular, implementing federally-funded programs	2

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3-04	Prevent animal wastes from entering waterbodies. Examples may include: animal control ordinances and/or practices that pertain to animal waste disposal; waterfowl abatement programs.	Practice: SWCD/NRCS implementing AEM, comprehensive nutrient management plans, bunker storage systems, etc.	2
3-05	Attempt vegetative stabilization before undertaking structural measures	Practice: SWCD has used vegetated systems, such as downed trees and logs, to stabilize severely eroded banks	2
3-06	Schedule the periodic maintenance of sediment control measures, and inspect and repair them as needed in conformance with established schedule.	Design Criteria, Maintenance Security I.6.2.1: In as much as weather conditions dictate practicality of performance as well as accessibility for appropriate inspection of the improvements, all Maintenance Bonds shall commence no earlier than June 1 or later than October 1 and expire two years thereafter. and I.6.2.2: If the Developer chooses, Maintenance Securities may be established at the completion of the facilities or improvements listed below [storm sewers, catch basins, drainage facilities, detention ponds, etc.] and II.5.5.2, Access for Maintenance: If not adjacent to a public right of way, an easement shall be provided for access for purposes of maintaining the detention/retention basin... Practice: SWCD is always looking for opportunities to devise check dams; maintains several that are in operation	2
3-07	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	Practice: also SWCD has used vegetated systems, such as downed trees and logs, to stabilize severely eroded banks	2
3-08	Use setbacks to minimize disturbance of land adjacent to streambanks and shorelines		0
3-09	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	Local Law, pg.40, II.11.4 - No laundry, sanitary, or kitchen wastes shall be discharged to a storm drainage system.	2

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<i>Wetlands and Riparian Area Management and Restoration</i>			
3-10	Consider wetlands and riparian areas and their non-point source (nps) control potential	Practice: guiding principle of SWCD operations, as exemplified in efforts in the field (Wetland Reserve Program) as well as education and outreach programs	2
3-11	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
3-12	Conduct permitting, licensing, certification and nonregulatory nps pollution activities in a manner that protects wetland functions		0
3-13	Special zoning considerations to protect wetland areas		0
3-14	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
3-15	All projects should require wetlands certification.		0
Section 4: Recreation			
<i>Docks and Launches</i>			
4-01	Required site planning and approval for docks and launches		0
4-02	Use of naturally resistant non-treated wood for docks		0
4-03	Docks constructed to allow for free-flow of water beneath them to prevent erosion and sedimentation along shoreline		0
4-04	Limit size of docks		0
4-05	Maintenance of dock - application of preservatives and paints		0
4-06	Consideration of access to dock and launches to mitigate erosion		0
<i>Golf Courses</i>			

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4-07	Pesticide storage - covered, locked concrete or steel building with adequate ventilation and metal shelving, no floor drains, and berm or sill to contain spills		0
4-08	Pesticide mixing and loading - use of chemical mixing center and proper operation and maintenance		0
4-09	Solvents and Degreasers - separate solvent collection systems such as solvent wash baths		0
4-10	Solvents and Degreasers - consideration of storage, use (contained), and disposal		0
4-11	Fertilizer Storage - covered fertilizer storage areas with curbs or berms to prevent water from entering. Secondary containment should be used even where not required		0
4-12	Fertilizer Loading: Make specific accommodations for fertilizer loading and mixing so that spills may be collected and managed. Examples include covered, impermeable surfaces intended for mixing; sloped surfaces that direct spills toward a liquid-tight sump for recovery; provision of appropriate cleaning materials, such as cat litter or sand.		0
4-13	Disposal of grass clippings: Grass clippings should remain on the surface in order to provide a natural source of organic matter and nutrients. If this is not preferred, clippings should be spread lightly in the rough or other unmanaged areas away from surface waters, outside of aquatic buffer zones.		0
4-14	Used Oil, antifreeze and lead acid batteries - collection and recycling		0

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4-15	Gasoline, Diesel fuel - compliance with DEC regulations for above-ground and below ground tanks, closing of stormwater drains in immediate vicinity of fueling point		0
4-16	General Equipment Washing: Minimize the use of detergents or degreasers; high pressure systems are used to decrease water usage; If less than 500 gallons per day, wastewater from equipment washing may drain to a grassed retention area or swale away from receiving waterbodies; otherwise discharges should be directed to a municipal treatment system		0
4-17	Encourage use of vegetated buffers near aquatic areas, such as streams, ponds, lakes and wetlands		0
Section 5: Roads and Bridges <i>[incomplete pending conversation with Highway Superintendent]</i>			
<i>Existing Roads and Bridges</i>			
5-01	Conduct road and bridge maintenance (de-icing material usage and storage, pothole repair, bridge washing, scraping and painting, etc) according to best management practices		0
5-02	Conduct right-of-way activities (mowing, brush removal, pesticide and fertilizer use, etc) - according to best management practices		0
5-03	Include high percentage of indigenous plants in new landscaping on public-owned properties (excluding arboretums, horticultural gardens, and site requiring turf grasses)		0
5-04	Implement a regular inspection and maintenance plan of existing structures		0
5-05	Develop and identify erosion/sediment control areas (examples include steep slopes, easily erodible soils, and nearby sensitive areas) and retrofit opportunities		0

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5-06	Incorporate alternatives to traditional de-icing practices, including adjusting mix rates, using non-salt and non-sand alternatives		0
<i>New Roads and Bridges</i>			
5-07	Minimize the amount of land disturbed and the duration of disturbance		0
5-08	Preserve natural features and conform substantially with the natural boundaries and alignment of waterbodies	Z.O. Article VII Section 702, 1. B - The design of any building shall conform to the general character of the area and will not adversely affect the property. Z.O. Article X, Section 1004 B - The proposed use is physically and visually compatible with, and will not discourage the development of the general area or adversely affect the character of the existing land. C.P. Section 4, Drainage Policies, 1 - Policy of the Town of Clarendon to minimize the modification of existing vegetation.	2
5-09	Retain and protect trees and other natural vegetation on and near disturbed sites	Local Law, pg.25, II.4.7 - The developer shall take adequate measures to preserve desirable existing trees in suitable locations within the development.	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		0
5-13	Use temporary vegetation and mulching to protect exposed and critical areas during development	Design Guidelines III.7 Final Grading, and Restoration of Grassed Surfaces , [sections refer to hydroseeding, grading, covering and otherwise returning disturbed areas to a stable, vegetated state]	2
5-14	Redistribute topsoil within the boundaries of the disturbed land for seeding and planting	Design Guidelines III.7 Final Grading, and Restoration of Grassed Surfaces , [sections refer to hydroseeding, grading, covering and otherwise returning disturbed areas to a stable, vegetated state]	2
5-15	Stabilize disturbed soils as soon as possible	Design Guidelines III.7 Final Grading, and Restoration of Grassed Surfaces , [sections refer to hydroseeding, grading, covering and otherwise returning disturbed areas to a stable, vegetated state]	2

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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		0
5-17	Control erosion and sedimentation prior to, during and after site preparation and construction		0
5-18	Require long term stormwater management plan.		0
5-19	Require long term sedimentation control & maintenance.	Practice: Stormwater Phase II Pre/Post Regulations are required; SWCD will inspect implementation at the request of the DEC or constituent municipalities	1
<i>All Roads and Bridges</i>			
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</i> , etc) into local laws and operating procedures		0
5-22	Ensure application of appropriate solid and hazardous waste generation and disposal practices including source controls and recycling	Z.O. Article VI Section 645, 1. E - No discharge beyond lot lines of any toxic or noxious matter in quantities that are detrimental or dangerous to public health, safety, comfort or welfare, or cause damage to property. Z.O. Article X, Section 1004 H - Adequate provisions are made for the collection and disposal of: waste (liquid, solid, gaseous, or of other character).	2

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5-23	Ensure proper operation and maintenance of runoff management facilities	Design Criteria, Maintenance Security 1.6.2.1: In as much as weather conditions dictate practicality of performance as well as accessibility for appropriate inspection of the improvements, all Maintenance Bonds shall commence no earlier than June 1 or later than October 1 and expire two years thereafter. and 1.6.2.2: If the Developer chooses, Maintenance Securities may be established at the completion of the facilities or improvements listed below [storm sewers, catch basins, drainage facilities, detention ponds, etc.] and II.5.5.2, Access for Maintenance: If not adjacent to a public right of way, an easement shall be provided for access for purposes of maintaining the detention/retention basin...	2
5-24	Participate in Cornell Local Roads Program activities and training		0
5-25	Target training programs at highway officials, contractors, construction workers, inspectors, zoning and planning officials		0
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		0
5-27	Culvert maintenance: Culverts are routinely inspected and maintained so that they will remain unobstructed, allowing for the free flow of water during storm events. Blockages resulting from sedimentation, debris, excessive vegetation and structural failure are issues to be aware of.		0
5-28	Culvert sizing for existing land use		0
5-29	Culvert sizing for changes in upstream land use and imperviousness		0
Section 6: Onsite Wastewater Treatment Systems			
6-01	Conduct regular inspections of OWTS at a frequency adequate to determine failure and undertake required maintenance	C.P. Section 4, Sewage Disposal System Policies, 3 - The Town of Clarendon shall require review and approval of all new or modified sewage/septic disposal systems, and shall encourage the upgrading and existing private septic systems.	1
6-02	Institute setback guidelines		0

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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: Orleans County DOH, CCE, SWCD all offer various education and outreach materials and programs	2
6-05	Inspection of all OWTS at property transfer or within 1 year prior to transfer	Orleans County Sanitary Code	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