

Town or Village	Project	Description	Cost
Cayuga County			
Town of Aurelius	Water and sewer treatment consolidation	Aurelius town and the Village of Cayuga combined water and sewer systems. Village water was eliminated and the new source is Auburn. A new sewage treatment facility was built in town, north of village. The village had to comply with a DEC consent order to end settling ponds treatment systems and non compliance septic in lake shore residences. Also see 'County Planning, Health, and Water' entries.	\$ 15,000,000
Village of Aurora	Hydrilla herbicide monitoring	Village is monitoring. Some local people looking out on lake. E.g. the person who runs swim program has to be told that they are applying herbicides and send figures to village mayor (monitor and send numbers periodically at drinking intake pipe and swimming areas. (*Also see Army Corps of Engineers in County Planning, Health, and Water')	Unquantified, staff time
	Ditch work: French drain	Ditch work to help with runoff from CAFO farms to water plant. 2018 dug French drain.	\$ 1,500
	Ditch work: Court St.	Cleaning out open ditch on Court St. Contain water and get it into the storm drain.	\$ 2,000
	Carbon filter	Carbon filters for cyanobacteria: spent all spring getting money from state to put in carbon filters to deal with cyanobacteria. College and village made everyone aware how dire algae problem is.	\$ 1,500,000
	Water supply	The village is looking for new water supply - connecting north and south of the village- and waiting to hear on a countywide approach and/or considering other regional options.	
Town of Genoa	Water District Extension & Improvement Project	Water line district consolidation project, well and pump house up-grades	\$ 1,782,041
Town of Ledyard	Culvert and bridge replacement	Culvert and bridge replacement; they replace culverts a lot	
	Septic codes enforcement	Town rule is that septic and well have to be 50 feet from boundary line, enforced by the code enforcement officer. Every house has to have an acre to build to on to accommodate well and septic.	
	Ditch maintenance	Ditch maintenance: check the clearing and working order of ditches	
Town of Locke	Building enforcement	Erosion- e.g. verifying residential construction sites put silt fence up if digging near waterway; mulching, stockpiling dirt; no special projects currently	
Town of Springport	Water treatment project (proposed)	Proposed project concerning water treatment/ addressing illegal lake front septic- starting to explore with the Village.	
	Extra holding capacity for heavy rain	Extra holding capacity for heavy rain events at Union springs waste water treatment plant.	
Village of Union Springs	Fire hydrants and water main valves replacement	Received some grant funding and are borrowing funds to replace most of the fire hydrants and water main valves through-out the village.	
	New larger Main St culvert	In the past three years they suffered two floods in the downtown business area. A large stream that intersects the main street and downtown overflowed its culverts due to accumulation of debris and excess water flow. The state DOT has approved a major project to remove some older buildings and construct a new larger culvert to carry excess water and debris safely away. As part of this project the Village received grant funding to assist with construction of a sediment/debris filtration system.	
	Local Waterfront Revitalization Program, LWRP	Village is part of the local LWRP and involved with regional planning.	
	New boat ramps	In the process of accepting bids for construction of new boat ramps at their municipal park.	
Cortland County			
Town of Harford	New water district	Serving 14 homes; put in after previous well contamination issues. New pump houses, wells, everything.	\$ 1,000,000
Town of Scott	Revamp/ align lake friendly zoning w/other municipalities	Working with other municipalities to revamp zoning to be more water friendly. Zoning from each muni is totally different. Some of the restrictions small towns like theirs don't have. Lawn fertilization is an issue in some communities.	Attorney time
Town of Virgil	Flood recovery / repair/ reinforcements	DEC grant to replace bridge, dredge creek, and rebuild streambank.	\$ 300,000
Schuyler County			
Town of Hector	Flood cleanup	Town is contracting to finance private property owner flood cleanup in response to summer storm/ August 2018 flood	Town budget DPW/ TBD
	Culvert replacements	Culvert replacement to create trout stream at Willamee and Stilwell Rd.	\$250,000 and \$250,000
Town of Catharine	Zoning/ septic laws	Anyone with septic near sensitive area has setback rules.	
Seneca County			
Town of Covert	Culvert replacement/ flood recovery	Lost/ replaced 12 culverts. They have applied for FEMA together with TG Miller to re-do culverts there. They will try to get bigger culverts in place. Looking at rate of dumping.	\$250,000 (\$3500 max from Town)
	Water retention ponds (5)	Hired consultant to represent them concerning additional water retention ponds. They currently added one to help with one creek, but need 5 more.	
	Pipe/headwall corrections and upgrades	Pipes that have failed need to be corrected-. Headwalls have failed and pipe upgrades are needed.	
	Drastic runoff problem NYSEG railroad trestle	Railroad trestle from 1935 taken out and replaced- pipes in bottom rotting out and plugged up. This is NYSEG-owned railroad trestle on County Road 150.	\$250,000 (\$3500 max from Town)
	Riprap	Riprap in ditches to slow water down.	\$50,000-60,000 (year)
Town of Fayette	New drinking water lines	Trying to get some pipe in ground next year to provide more people in Fayette drinking water hook up.	
		Townline Road from end of Water District 5 to NYS Route 89 (End of Water District 3); Approximately 11,600 of 12" diameter water main; 12 main line valves, 23 fire hydrants, 6 water services pressure reducing valve required for the interconnection	\$ 514,000
		NYS Rte. 96A from Rose Hill Water storage tank to NYS Rte. 336 and NYS Rte. 336 from NYS Rte. 96A to (end of Water District 5)	\$ 1,065,000
		Yellow Tavern Rd from Rose Hill water storage tank to NYS Rte. 96 and NYS Rte. 96 from County House Rd to Sweets Hill Rd	\$ 3,301,000
		NYS Rte. 96 from Sweets Hill Road to NYS Rte. 336 (Connection Water District 5)	\$ 262,000
		NYS Rte. 414 from end of Water District 5 to Town of Seneca Falls	\$ 760,000
		NYS Rte. 89 from Townline Road (Connection Water District 3) to Parker Road	\$ 580,000
		Yellow Tavern Road from NYS Rte. 96 to NYS Rte. 414	\$ 476,000
		East Lake Road from Water District 4	\$ 475,000
Sewer service on whole town border of Cayuga and Seneca Lakes	Feasibility stage		

Village of Interlaken	Build a capital plan to cover water costs	Costs on tax role: some on water and sewer bill	
	Medium household income survey	RCAP made the survey with village based on template. Survey send out and will do door to door survey as well, with cover letter to explain situation to every resident.	
	Tank repair & SCADA upgrade	In the process of replacing the water tank and adding other infrastructure, as well as developing plans for replacing the wastewater plant.	
Town of Lodi	Water study	5 municipality study about getting municipal water. Since then, Lodi assessed that Trumansburg and Interlaken are not likely to partner, so they are looking into grants for Lodi Village and Town combined, as well as buying water.	
Town of Romulus	Water line on Route 89	Putting in water system on Route 89. Hooking into Varick and continuing. Paid by customers.	
	Riprap ditches	Highway got Seneca County SWD to put riprap on problem ditches a few years ago to control erosion.	
Town of Varick	Map, plan and report for sewer line	It will take a lot of grant money and cooperation from the the Town of Fayette to make this a reality. Seneca Falls needs to accept the sewage. It's a \$2 million proposal.	\$ 10,000
	Water line on Route 89	Whole length of route 89 in Varick - 4 miles of pipe. They borrowed from Rural Development Association and bid out to contractor. Romulus is hooking into Varick line/ extending it.	\$ 1,700,000
Tioga County			
Town of Spencer	Culvert (4) and bridge (1) replacements- various	Various culvert and block replacements, one of which is caused by flooding from Newfield (Hulbert Hollow Rd); (Railroad Ave. and Tompkins Rd, Burheight Rd., and bridge replacement on East Hill Rd)	\$ 1,325,500
Tompkins County			
Caroline	Buffalo Road Creek Stream Stabilization	Bank and streambed stabilization on Buffalo Road Creek to protect the roadway	\$ 203,544
	Ekroos Road culvert replacement and creek bed and bank stabilization	Replace the two deteriorated culverts with single, larger, embedded culvert and employ natural bed and bank reconstruction and stabilization to mitigate erosion, allow the natural floodplain to maintain function, and restore aquatic connection of Boyer Creek.	\$ 262,145
	Ekroos Road water quality improvement project	Same as above. Ekroos Rd. BridgeNY and WQIP grants were awarded simultaneously for the same project. We are currently working with each state agency to define project scope and total funding needs. Emergency culvert replacement was done by Town in Fall 2018.	\$ 247,568
Village of Cayuga Heights	Wastewater Treatment Plant Improvements Project	This facility provides sewer treatment service to all of the Village of Lansing and parts of the Towns of Ithaca, Dryden, and Lansing. NYSDEC is also providing a 25% grant towards the improvement project. Phase 1 of the project replaces the "headworks" facility which is responsible for filtering out grit and other debris; Phase 2 is bring the rest of the facility up to current code standards (e.g. new methane gas management, heating system, and electrical equipment and a SCADA system for optimal operations.)	\$ 11,300,000
Town of Danby	Brown Road Streambank Stabilization Project	The project will stabilize the streambank along Brown Road in the Towns of Danby and Newfield. This will provide stability to the embankment, protect adjacent Brown Road, and significantly reduce the sediment load entering the stream through this reach. The proposed project will provide a long-term solution for the Town to prevent bank failure. Sediment in the Cayuga Inlet is an ongoing problem; reducing sediment sources in the upstream portions of the drainage area is part of the solution by attacking the problem at the source.	\$ 580,429
Town of Dryden	Source Water Protection Plan	Development and implementation of a local source water protection plan; identify water resources to be protected, identify threats to the water supply, implement measures to reduce threats, and plan for the future. Adopt or enact source water protection plans, regulations or laws.	
Town of Enfield	Fish Road ditches	Following damage from a flooding event, riprap was installed in approximately a 1/4 mile of road ditches.	
	Trumbulls Corners Road work	Following a flooding event, extensive damage had occurred from Enfield Creek along Trumbulls Corners Road. Shoulders from the bridge were damaged and excessive erosion occurred. Nearby homes and garages were flooded. TCSWCD worked with the Highway dept to repair the streambank, including tree planting along approximately 1 mile of roadway.	
	Harvey Hill Roadwork	Following an extreme flash flooding event, major damage had occurred to the roadway and ditches, including many driveway culverts being tom out. Homes also were flooded with water and excessive sediment. Culverts were repaired and check dams were installed along the hill to slow down future storm water events.	
	Salt Storage Barn	A planned project to construct a salt storage barn to keep deicing salt in a covered location where it will not runoff into nearby Enfield Creek. A grant was recently approved from WQIP funds to provide a 50-50 match for the construction of a salt storage facility at the Highway Department.	\$ 600,000
	USGS Aquifer Study	Contracted with the USGS to conduct a study of the Enfield Aquifer.	\$ 77,000
Town of Ithaca	Sewer infrastructure repair and upgrades	Repairing leaks in sewer system, preparing manholes for rehabilitation, installing sanitary sewer structural concrete liner, removal and installation of sewer manhole frames, lids, and benches, grout injection pipe repairs, and 5 Cured-In-Place Pipe (CIPP) spot repairs. Total of 31 sanitary sewer manholes and miscellaneous spot repairs throughout the sewer system. Project e.g.'s: Installation of Cured In Place Pipe (CIPP) within an existing 8-inch sewer main; Reinstatement and lining of sewer laterals utilizing CIPP technology and removal/reinstallation of existing sewer manhole frame and lids.	\$ 250,000
	Mapping, engineering and analysis of the town wide sanitary sewer system.	The sewer system is comprised of approximately 65 miles of gravity sewer main, 9500 LF of sewer force-main, 1800 manholes, and 12 pump stations.	\$ 183,300
	Storm water practices / oversight	Annual Roadside Ditch Maintenance: maintain ditches on town roads on a yearly basis to repair washouts/erosion.	\$ 150,000
	Catch Basin cleaning	Annual Catch Basin Cleaning; Vacuum and clean sediment from all town owned catch basins on a yearly basis	
	Erosion control projects and SW management building and permitting oversight	Regulated approximately 150+ erosion control projects and SW building/permitting oversight town wide. Enforced installation of adequate erosion control measures for earth disturbance activities ranging from 50 CY to 150 CY in scale. Implemented Full Erosion Control SPDES Permits town wide.	
	Inflow and Infiltration solutions, including Wastewater Treatment Plants (Cayuga Heights & Ithaca) Upgrade Discussions	Regular meetings with Town and City of Ithaca, Lansing Village and Town, and Cayuga Heights. The plants are closer and closer to capacity. They are meeting with other involved engineers looking at how to upgrade or swap flows to City which has more capacity than Cayuga Heights.	
	Ithaca Area Waster Water Treatment Facility improvements/upgrades	Proposed water improvement (see TB packet Feb 11). Town of Ithaca owns roughly a 42% share of the IAWWTF.	\$ 7,190,000
	USGS Gaging Station	Brooktondale, Six Mile Creek. real time flow and storm sediment loading	\$ 5,500
	USGS Gage	Bethel Grove, Six Mile Creek, real time flow and storm sediment loading	\$ 12,000
	Hydrilla Interns	Provide support for signage, outreach and water sampling for hydrilla project	\$ 20,000
	Water Chestnut removal	Year 1 of water chestnut removal from City drinking water reservoir	\$ 1,200

City of Ithaca	Water Week, Earth Day, Reggae Fest, etc.	Participation in local events celebrating water or the natural environment; Educating about drinking water and protecting the source	\$ 600
	Minimum Detection Limit (MDL) Study	Determine MDL for total chlorine for state discharge permit	\$ 7,000
	Cyanotoxin Management Plan	Write plan for our water system	\$ 2,000
	Reservoir Management Plan	Create plan for our water source	\$ 2,000
	Oxidant Demand Study	Chemical dosage optimization for new treatment facility and new chemicals	\$ 20,000
	Flood study	Update FEMA flood mapping	\$ 100,000
	Dredging	Inlet, lower Cascadilla	\$ 4,000,000
	Dredging	Silt Pond	\$ 1,000,000
	60' Dam dredging and rehabilitation	Dredging to remove material off face of dam, new gate house, mew inlet structure, dam repair, sluice drain rehabilitation	\$ 10,000,000
	New water treatment plant	Replacement of City's 1903 plant and residuals management facility.	\$ 17,000,000
	New water treatment plant residuals management treatment facility	Replacement of City's residuals management facility.	\$ 4,000,000
	Raw water pipeline embankment stabilization	Repair and reinforcement of designated potential failure and erosion concerns along the pipeline	\$ 250,000
	Coddington Road water tank dome replacement	Full replacement of a 1.5MG storage tank dome	\$ 700,000
	Five Corners water main replacement	Replaced 525-LF of 1920's 12" main and 325LF of 6" and 8" sewer pipe	\$ 160,000
University Avenue water & sewer replacement	Replace 2500-LF of 1900's 8" water main and reline 2,000-LF of sanitary sewer	\$ 800,000	
Town of Lansing	Myers Park Upgrades and Improvements project	Includes several water quality related projects: Provide rip-rap wall along Salmon Creek, bulkhead erosion control - Marina Inlet, dredging at Salmon Creek and Marina Inlet, provide tree plantings, new restroom facilities, and a new septic system for the existing bathhouse as examples of total project investment.	\$ 1,460,823
	Storm water mitigation/ building oversight	Looks at job sites requiring storm water and gets TG Miller to meet requirements at beginning and end.	
	Ludlowville flooding waterway restoration, increase pipe size and redo paving along Salmon Creek road	Installed bigger cross pipes under road: 15 inch perf HDPE pipe on east side of road to help with water runoff; 12 inch of HDPE Per pipe on west side of road with catch basins to direct water away from houses and road; 18 inch HDPE pipe across road to drain water from west to east; rip rap in water ways to calm water flow to cross pipes under road; seed and mulch to prevent erosion; resurface 0.40 miles of Salmon Creek road	\$ 114,493
	Storm water mitigation plan: Waterwagon	Highway dept. working with adjacent landowners to investigate ways to mitigate runoff.	
	Cleaning farm trenches	Working with the Ag Committee and Cornell Cooperative Ext. on outreach and awareness to reduce water runoff / sedimentation issues. An Ag Plan and committee was created to address this.	
	Water district expansion projects	Milton Meadows 9 buildings with 72 units and community center- water district needs to be extended; Village Solar's 18 unit developments expanded water district and sewer district	Varies based on district.
	Septic system (Cargill)	The project is on Ridge Rd. An engineered septic system at Cargill site. They are building Shaft #4 that has better access for work and emergency situations, as well as electricity, utility and facility upgrades.	
Town of Newfield	New MOU with Lansing Village and Cayuga Heights to create sewer district 1	Renegotiation MOU with Village of Lansing and Cayuga Heights, which have a sewer transmission pipe to transport and treat. This is a new sewer district with 8 tax parcels (in Waterwagon, N. Triphammer and East Shore areas).	\$ 125,000 (Lansing town)
	Forming conservation advisory committee	It is being set up to analyze quality of water flowing into Cayuga Lake, among other priorities. (e.g. Salmon Creek runoff / effluents from septic and their adequacy); includes	\$ 5,000
	Leach field expansion	Put out a RPF for expanding leach field.	\$ 150,000
	Tributary sampling	Testing Cayuga Lake watershed and Chesapeake Bay watershed. Turbidity, e-coli, phosphorous and microorganisms, wildlife overview. Water sample qualities baseline.	\$ 6,000
	Flood repair: Stone Jug, bridge repair	Stone Jug, bridge repair. Seasonal Old Mill, flood took out old embankment and they are still repairing. When complete, state money will come in.	\$ 190,000
	Streambank stabilization floodplain: Shelter Valley	Shelter Valley area / 34-96 river area. County or state project. Debris moved. There were jams at culvert and bridges and homes flooded 2-3 years ago. Town had jurisdiction; county involved.	
	Streambank stabilization floodplain: Carter Creek Rd. project	Stabilizations work after flooding problem in 2015	\$ 150,000
	Initial well feasibility study	Town will look to expand aging well; Applied for grant for feasibility study.	\$ 60,000
Village of Trumansburg	Water tower	Town has project for a new water tower.	\$ 1,100,000
	Second Water Source	Exploration, design, and construction of a water well project at the Taughannock Falls State Park to act as a fully redundant secondary water source for the Village. This system is now on line and runs in tandem with the Village's older water system which draws from a beach well further up the lake.	\$ 5,100,000
Town of Ulysses	Purchased land	Purchased land along Trumansburg Creek.	\$ 57,000
	Purchased foreclosed land	Purchased foreclosed land from Tompkins County in a county-designated UNA along Cayuga Lake.	\$ 5,200
	Ulysses zoning update	Has parts to preserve water quality through local regulations on manure storage, tree removal on steep slopes, setbacks from water bodies including intermittent streams, setbacks from building on the lake, restrictions to the size lot and number of times it may be subdivided along the lake to discourage residential development	
	Illicit discharge law		
	Drinking water in Jacksonville	Drinking water in Jacksonville comes from Bolton Point (Cayuga Lake source). Because it has such a long way to travel, that water district has severe problems with a by-product of chlorination--Total Trihalomethanes (TTHMs). This is in large part due to high organic matter in the lake, including HABs.	\$ 1,000,000
Drinking water along Cayuga Lake	Many people along Route 89 draw drinking water from the lake. The HABs have very much negatively impacted their drinking water, but unfortunately the cost of installing a water district is too high to move ahead without outside funding, which at the moment is not available to this area due to the incomes of some of the residence.	Est \$2000-4000 per year	