

TOWN OF ESOPUS
ENVIRONMENTAL BOARD
MEETING MINUTES – March 20, 2019

MEMBERS PRESENT:

Mark Ellison, Chairman
Susan Barbarisi
Cynthia McVay
Don Carragher
Susan Leiching
Laurie Sheridan (7:45 p.m.)

MEMBERS EXCUSED:

Francesca Sansone
Karen Helgers

ALSO PRESENT:

Supervisor Shannon Harris
Legislator Laura Petit
Town Councilman Jared Guess
Town Councilwoman Kathy Quick
Building Inspector Salvatore Morello III
Hwy. Superintendent Michal Cafaldo
Planning Board Member Darin Dekoskie
Confidential Secretary Karen Winkle-Gorsline

Chairman Mark Ellison commenced the meeting with the Pledge of Allegiance at 5:30 p.m. and provided an excerpt from the Town's Comprehensive Plan (mission statement) which recommended the establishment of the Climate Smart and Stormwater Task Forces. Additionally, Chairman Ellison provided a revised contact list and requested that any corrections and/or additions be made and returned to Secretary Lisa Mance and the Chairman.

Stormwater Task Force

Supervisor Harris acknowledged the expertise being "brought to the table" and commended the members and volunteers. She also noted the urgency of completing the stormwater drainage assessment in the hopes of being able to obtain larger funded initiatives to address critical situations and areas in need.

Thereafter, the meeting was turned over to Dan Valentine and Erin Moore, Engineers with Tighe & Bond, the Consulting Agency which was coordinating the Stormwater Infrastructure Assessment and Capital Improvement Plan. Agenda prepared by Tighe & Bond is annexed hereto and made a part hereof as "Agenda." Plan was discussed as to conducting site plan visits and seven (7) non-consecutive days in the field at various zones were anticipated to determine significance.

Residents Cynthia & Rogers Frary in St. Remy provided background as to their water issues. Each property had unique story as to issues and site visits would provide insight as to whether it was a neighbor issue, water flow issue, etc. and what could occur to alleviate the problem. John and Kristie Mazzaccari also provide overview of their issues to Dan Valentine as well as Cynthia MacVay and members of the Committee. Short term goal was to identify easement issues after the site visits. The Stormwater Task Force concluded at 6:35 p.m.

Climate Smart Task Force

Europa McGovern (HV Regional Council) was present to provide support to the Task Force. Chairman Ellison noted that the goal of the CSTF was to determine how it would fit into program that Ms. McGovern administers and provides guidance for and as well, information provided by Legislator Laura Petit in filling in required elements. Criteria needed to obtain Climate Smart Community Certification is annexed hereto and made a part hereof as "CSC Checklist." Town of Esopus was designated as a Clean Energy Community and Europa McGovern was present as a result of a NYSERDA Grant and the Town was qualified to be eligible for an additional \$5,000.00 grant monies. The Town had completed some of the tasks listed in the Checklist. Laura Petit volunteered to take information provided and place into link on website for Town to determine where the Town is currently in the process. Deadline was in July so the Town would most likely be looking into 2020 for the submission of the whole package. The Task Force was charged with reviewing the Certification Action Checklist, locate the appropriate documentation and submit to Laura Petit to load into the database. Chairman Ellison stated he would own anything relative to greenhouse emissions and benchmarking; Don Carragher volunteered for PE 7; Susan Leiching for PE6 and Laura Petit already involved with PE5 and implementation.

New Business

Councilwoman Kathy Quick was investigating locations within Town which may be suitable for Farmer's Market.

Chairman Ellison introduced newest member Don Carragher who provided a brief biohistory.

Climate Action Planning Institute: Next meeting 4/10 @6:00 p.m.

The meeting ended at 9:02 p.m.
Lisa Mance, Board Secretary

NEXT ENVIRONMENTAL BOARD MEETING: April 17, 2019

AGENDA

Esopus Stormwater Infrastructure Assessment and Capital Improvement Plan Kickoff Meeting Agenda

LOCATION: Esopus Town Hall, 284 Broadway, Ulster Park, NY

DATE: Wednesday, March 20, 2019

START TIME: 5:30 PM

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1. Introductions/Project Team
 - a. Tighe & Bond
 - i. Erin Moore – Client Manager/Public Communications Leader
 - ii. Dan Valentine – Project Manager/Technical Leader
 - b. Town of Esopus
 - i. Shannon Harris - Supervisor
 - ii. Jared Geuss, Kathie Quick, Gloria VanVliet - Town Board
 - iii. Mark Ellison - Environmental Board Chair
 - iv. Environmental Board Members – Karen Helgers, Cynthia McVay, Laurie Sheridan, Francesca Sanson, Lisa Mance
 - v. Sal Morello - MS4 expert
 - vi. Mike Cafaldo - Highway Super
 - vii. Mike Dauner - Water Dept
 - viii. Darin Dekoskie - Planning Board Stormwater Engineer
 2. Review Project Scope
 - c. **Task 1 – Drainage System Inventory**
 - i. Compile available mapping from the Town and Ulster County Department of the Environment
 - ii. Compile available mapping from the NYSDOT Region 8
 - iii. Identify drainage easements through Ulster County parcel mapping
 - iv. Develop GIS base mapping and field data collector application
 - v. Perform field work to inventory Town-owned stormwater infrastructure
 - d. **Task 2 – Site Visits and Recommended Remediation of Know Flooding Areas**
 - i. Perform Site Visits to up to 40 previously identified drainage flooding “trouble spots”
 - ii. Develop qualitative recommendations to address “trouble spots”
 - iii. Identify which “trouble spots” may benefit from additional engineering analysis
 - e. **Task 3 – Geographic Information System (GIS) Drainage System Mapping**
 - i. Digitize available drainage mapping
 - ii. Develop stormwater features from mapping and field data collection

- iii. Provide the Town with a mobile data collection device (iPad) and ArcGIS online application, including one year of data hosting

f. Task 4 – Evaluation of Condition and Capacity of Structures

- i. Work with this group to identify and evaluation priority drainage facilities for further engineering analysis
- ii. Perform capacity analysis of six (6) specific drainage facilities
- iii. Evaluation one improvement alternative for each of the six drainage facilities
- iv. Prepare a concept level opinion of probable construction cost for each improvement alternative

g. Task 5 – Drainage System Capital Improvements Plan (CIP)

- i. Culmination of previous Tasks 1 – 4
- ii. CIP will be formatted in an engineering report acceptable to EFC to be useful for grant and low-interest loan procurement
- iii. Develop a prioritized plan, schedule, and concept level opinion of probable cost for drainage system component replacement, prioritizing identified current flooding and know capacity issues
 - Category A items have an expected remaining service life of 5 or fewer years, or routine flooding impacts that result in major property damage or health concerns
 - Category B items have an expected remaining service life of between 6 and 10 years, or routine flooding impacts that result in minor property damage
 - Category C items have an expected remaining service life of greater than 10 years or infrequent flooding impacts that result in minor property damage

h. Task 6 – Meetings

- i. Attend five meetings to present the results from the stormwater assessment project
 - Kick-off meeting
 - Presentation of Inventory and GIS Mapping
 - GIS Collector Application Training for Highway Department and Town employees
 - Presentation of a Draft Drainage CIP at a Public Meeting
 - Presentation of a Final Drainage CIP at a Public Meeting

i. Task 7 – Grant Procurement Assistance

- i. Assist the Town in preparing two (2) grant applications, which could include:
 - NYS Local Government Records Management and Improvement Fund (LGRMIF)
 - NYSDEC Water Quality Improvement Program (WQIP)
 - EFC Integrated Solutions Construction Grant Program (ISC)
 - EFC Green Innovation Grant Program (GIGP)
 - Hudson River Estuary Grant Programs

- EPA Grant Programs for Pollution Prevention
- 3. Preliminary Schedule
- 4. Requested Information from the Town:
 - a. Any available drainage facility record drawings
- 5. Additional Discussion

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CSC CERTIFICATION ACTION CHECKLIST

Climate Smart Communities Certification Action Checklist - Version 3.4 (June 6, 2018)

Please note that the information below is only an overview and it might not be the most current description of CSC certification actions. For full details and the most current information, please visit this website: https://climatesmart.ny.gov				
Definition of "Under Review" in Type/Status column: These actions are currently being revised by the CSC interagency team and will be uploaded to the portal within the next few weeks. They are also italicized in the list below.				
Definition of "CSC Grants" in Type/Status column: These actions are fundable under the certification projects category of the 2018 CSC grants program. More info is at this website: http://www.dec.ny.gov/energy/109181.html				
Action Name	Legacy Action #	Legacy Name	Points	Type/Status
PE1: Build a climate-smart community				
PE1 Action: CSC Task Force	1.2	Create a community Climate Smart Community task force focused on climate mitigation and adaptation	20	Mandatory
PE1 Action: CSC Coordinator	1.3	Appoint a Climate Smart Community coordinator	10	Mandatory
PE1 Action: National/Regional Climate Program	1.5	Join a national or regional climate campaign or program	3	
PE2: Inventory emissions, set goals, and plan for climate action.				
PE2 Action: Government Operations GHG Inventory	2.1	Develop a government operations GHG emissions inventory	16	Priority, CSC Grants
PE2 Action: Community GHG Inventory	2.2	Develop a community GHG emissions inventory	16	Priority, CSC Grants
PE2 Action: Government Operations Climate Action Plan	2.5	Develop a government operations climate action plan	12 - 16	Priority, CSC Grants
PE2 Action: Community Climate Action Plan	2.6	Develop a community climate action plan	16	Priority, CSC Grants
PE3: Decrease energy use.				
PE3 Action: Government Building Energy Audits	3.1	Conduct energy audits of local government buildings	8 - 16	Priority
PE3 Action: Interior Lighting Upgrades	3.2	Upgrade interior lighting	1 - 5	
PE3 Action: HVAC Upgrades	3.3	Upgrade HVAC equipment	1 - 5	
PE3 Action: Water-efficient Fixtures	3.4	Install water-efficient fixtures	1 - 4	
PE3 Action: Building Energy Management System	3.5	Install a building energy management system (EMS)	1 - 5	
PE3 Action: Energy Benchmarking for Government Buildings	3.32	Adopt an energy benchmarking requirement for government-owned buildings	2 - 4	
PE3 Action: Green Building Standard for Government Buildings	3.7	Adopt a green building standard for local government buildings and facilities	2 - 4	
PE3 Action: Green Building Certification	3.8	Build a new green building	15	
PE3 Action: Fleet Inventory	NA	NA (This is a new action under version 3.)	4	CSC Grants
PE3 Action: Fleet Efficiency Policy	3.10	Adopt a vehicle fleet efficiency policy	2 - 3	CSC Grants
PE3 Action: Fleet Rightsizing	3.11	Right-size the local government fleet	1 - 3	
PE3 Action: Advanced Vehicles	3.12	Replace traditional vehicles with advanced vehicles	2 - 10	
PE3 Action: LED Street Lights	3.15	Convert streetlights to LED	5 - 10	
PE3 Action: LED Traffic Signals	3.16	Convert traffic signals to LED	1 - 4	
PE3 Action: Outdoor Lighting Reduction	3.17	Reduce number of outdoor lighting fixtures	1 - 4	
PE3 Action: Outdoor Lighting Upgrades	3.18	Upgrade outdoor lighting (other than streetlights and traffic signals) to more efficient and/or solar technology	1 - 4	
PE3 Action: Environmentally Preferable Purchasing Policy	3.24	Adopt an environmentally preferable purchasing policy	1 - 4	
PE3 Action: Financing Mechanism for Government Energy Projects	3.25	Establish a financing mechanism for energy efficiency and renewable energy projects in government owned buildings	5	
PE3 Action: Waste & Energy Provisions in Government Contracts	3.26	Incorporate energy efficiency and waste handling provisions in standard specifications and government contracts	1 - 3	
PE3 Action: Incentives for Employee Carpooling & Transit	3.28	Subsidize and incentivize employee alternative commuting	1 - 3	
PE4: Shift to clean, renewable energy.				
PE4 Action: Green Power Procurement Policy	4.1	Adopt a green power purchase policy to ensure increasing local government energy supplies come from renewables	2 - 4	

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Action Name	Legacy Action #	Legacy Name	Points	Type/Status
PE4 Action: Renewable Energy Feasibility Studies	4.3	Conduct feasibility studies for renewable energy installations	3 - 5	
PE4 Action: Renewable Energy Credits	4.4	Purchase renewable energy credits (RECs)	2 - 7	
PE4 Action: Geothermal Installation	4.5	Install a geothermal heat pump or other geothermal technology at a new or existing public facility	9 - 20	
PE4 Action: Solar Energy Installation	4.6	Install solar hot water and/or solar photovoltaic technology on public property	9 - 20	
PE4 Action: Power Purchase Agreement for Renewables	4.7	Serve as a host site for a renewable energy installation and enter into a long-term service contract or power purchase agreement (PPA)	9 - 20	
PE4 Action: Wind Energy Installation	4.8	Install a wind system on public property	9 - 20	
PE4 Action: Wood Pellet Installation	4.9	Install a wood pellet heating system on public property	6 - 17	
PE5: Use climate-smart materials management.				
PE5 Action: Government Solid Waste Audit	3.23	Conduct a local government waste audit and track diversion rate over time	2	
PE5 Action: Recycling Bins in Government Buildings	3.20	Provide recycling bins next to all trash receptacles in local government buildings	3	
PE5 Action: Organic Waste Program for Government Buildings	3.21	Provide organic waste collection and composting in local government buildings	1 - 3	
PE5 Action: WasteWise Program	5.3	Participate in the EPA WasteWise program	1 - 2	
PE5 Action: Construction & Demolition Waste Policy	5.5	Adopt a construction and demolition waste reduction program or policy	2 - 6	CSC Grants
PE5 Action: Resource Recovery Center	5.6	Set up and manage a resource recovery center to encourage reuse of gently used or new materials that have been discarded	6	
PE5 Action: Recycling Program for Public Places & Events	5.9	Provide recycling bins in public places and events	1 - 3	
PE5 Action: Waste Reduction Education Campaign	5.13	Create an educational campaign to encourage recycling, composting and waste reduction	2	
PE5 Action: Compost Bins for Residents	5.10	Provide compost bins to residents (for sale or free)	2	
PE5 Action: Residential Organic Waste Program	5.11	Create an organics or yard waste collection program	2 - 22	
PE6: Implement climate-smart land use.				
PE6 Action: Comprehensive Plan with Sustainability Elements	6.1	Develop and adopt a comprehensive plan with sustainability elements	3 - 21	Priority, CSC Grants
PE6 Action: Smart Growth Policies	6.2	Incorporate smart growth principles into land-use policies and regulations		Under Review
PE6 Action: Renewable Energy Ordinance	6.3	Adopt a renewable energy ordinance		Under Review
PE6 Action: Green Building Codes	6.4	Establish green building codes		Under Review
PE6 Action: Resource-efficient Site Design	6.5	Create resource-efficient site design guidelines		Under Review
PE6 Action: Incentives for Renewable Energy & Efficiency Projects	6.6	Incentivize renewable energy and energy efficiency projects		Under Review
PE6 Action: Local Food Systems	6.7	Adopt land-use policies that support or incentivize farmers' markets, community gardens and urban and rural agriculture		Under Review
PE6 Action: GreenLITES	3.27	Utilize a green or sustainability rating system for infrastructure improvement projects		Under Review
PE6 Action: Green Parking Lot Standards	6.8	Adopt green parking lot standards		Under Review
PE6 Action: Complete Streets Policy	6.9	Adopt a complete streets policy	4	Priority, CSC Grants
PE6 Action: Planning & Infrastructure for Bicycling & Walking	6.10	Implement strategies that support bicycling and walking	2 - 15	CSC Grants
PE6 Action: Alternative-fuel Infrastructure	6.11	Install electric-vehicle infrastructure	4 - 18	Priority
PE6 Action: Infrastructure for Transit & Alternative Transportation	6.12	Implement strategies that increase public transit ridership and alternative transport modes		Under Review

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Action Name	Legacy Action #	Legacy Name	Points	Type/Status
PE6 Action: Safe Routes to School	6.13	Implement a Safe Routes to School program		Under Review
PE6 Action: Traffic Calming	6.14	Implement traffic calming measures		Under Review
PE6 Action: Anti-idling Ordinance	6.15	Adopt and enforce an anti-idling ordinance		Under Review
PE6 Action: Transportation Technology Solutions	6.16	Implement transportation technology solutions		Under Review
PE6 Action: Natural Resources Inventory	6.17	Develop a natural resource inventory	8 - 10	Priority, CSC Grants
PE6 Action: Local Forestry Program	6.18	Develop a local forestry or tree planting project or program		Under Review
PE6 Action: Zoning for Natural Resource Preservation	6.19	Preserve natural areas through zoning or other regulations		Under Review
PE7: Enhance community resilience to climate change.				
PE7 Action: Climate Vulnerability Assessment	7.1	Conduct a vulnerability assessment	4 - 16	Priority, CSC Grants
PE7 Action: Climate Resilience Vision	7.2	Develop a climate resilience vision and associated goals	3	
PE7 Action: Climate Smart Resiliency Planning	7.3	Review existing community plans and projects to identify climate adaptation strategies and policies or projects that may decrease vulnerability	6	Priority, CSC Grants
PE7 Action: Climate Adaptation Strategies	7.4	Develop climate adaptation strategies	2 - 8	Priority, CSC Grants
PE7 Action: Climate Resiliency in Local Plans & Projects	7.5	Incorporate climate resiliency vision, goals, and strategies into local plans and projects		Under Review
PE7 Action: Multi-Hazard Mitigation Plan Updates	7.6	Update the multi-hazard mitigation plan to address changing conditions and identify specific strategies to reduce vulnerability to natural hazards		Under Review
PE7 Action: Heat Emergency Plan	7.7	Develop and implement a heat emergency plan	6	CSC Grants
PE7 Action: Shade Structures in Public Spaces	7.8	Require shade structures and features in public spaces	4	
PE7 Action: Cooling Centers	7.9	Open new or expand existing cooling centers		Under Review
PE7 Action: Watershed Assessment	7.10	Create or update a watershed assessment to identify flooding and water quality priorities	2 - 6	
PE7 Action: Floodplain Restoration	7.12	Conserve, revegetate and reconnect floodplains and buffers in riparian areas	1 - 10	
PE7 Action: Conservation of Natural Habitats	7.13	Conserve natural areas for species migration and ecosystem resilience	4 - 16	
PE7 Action: Strategic Relocation Out of Flood-prone Areas	7.14	Facilitate a strategic relocation of uses that are not water dependent from flood prone areas		Under Review
PE7 Action: National Flood Insurance Program Community Rating System	7.15	Promote community flood prevention strategies through the National Flood Insurance Program Community Rating System	3 - 9	CSC Grants
PE7 Action: Green Infrastructure for Stormwater Management	7.16	Use green infrastructure to manage stormwater in developed areas		Under Review
PE7 Action: Conservation of Wetlands & Forests	7.17	Conserve wetlands and forests to manage stormwater, recharge groundwater and mitigate flooding		Under Review
PE7 Action: Nature-based Shoreline Protection	7.18	Use natural, nature-based or ecologically enhanced shoreline protection		Under Review
PE7 Action: Local Freeboard Requirement	7.19	Extend areas in which the two-foot freeboard requirement applies		Under Review
PE7 Action: Consideration of Sea-level Rise in Coastal Development	7.20	Require consideration of sea-level rise in planning coastal development		Under Review
PE7 Action: Removing Dams & Rightsizing Bridges & Culverts	7.21	Right-size bridges and culverts, and remove unnecessary and hazardous dams		Under Review
PE7 Action: Early Warning Systems and Evacuation Plans	7.22	Develop or enhance early warning systems and community evacuation plans		Under Review
PE7 Action: Water Conservation & Reuse	7.23	Implement a water conservation and reuse program		Under Review
PE7 Action: Xeriscaping in the Community	7.24	Encourage xeriscaping		Under Review
PE7 Action: Source Water Protection Program	7.25	Implement a source water protection program		Under Review
PE8: Support a green innovation economy.				
PE8 Action: Green Jobs Training	8.1	Create a green jobs training program	3	

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Action Name	Legacy Action #	Legacy Name	Points	Type/Status
PE8 Action: Green Vendor Fairs	8.2	Hold green vendor fairs	2	
PE8 Action: Green Economic Development Plans	8.3	Include green industries in economic development plans	4	
PE8 Action: Farmers' Markets	8.6	Create and promote local farmers' markets	3	
PE8 Action: Buy Local/Buy Green Campaign	8.7	Create a "buy local/buy green" campaign	2	
PE8 Action: Brownfield Clean-up & Redevelopment	8.8	Redevelop a brownfield site	1 - 18	
PE8 Action: Incentives for Green Businesses	8.9	Establish incentives for green industry or businesses to locate in community	4	
PE8 Action: Energy Benchmarking for Privately Owned Buildings	8.11	Adopt energy benchmarking requirements for privately owned buildings	5 - 10	
PE 8 Action: Financing Program for Building Energy Efficiency	8.12	Establish a residential energy efficiency financing program	2 - 7	
PE9: Inform and inspire the public:				
PE9 Action: Climate Change Education & Engagement	9.1	Create a climate change education, outreach, and engagement program, focusing on mitigation and adaptation	4 - 8	Priority
PE9 Action: Energy Reduction Campaign	9.2	Create and support an energy reduction campaign or challenge	5	
PE9 Action: Climate-related Public Events	9.3	Host climate-related educational seminars, workshops, conferences, or fairs	3	
PE9 Action: Local Climate Action Website	9.4	Maintain a website on local climate protection efforts	3	
PE9 Action: Social Media	9.5	Use social media to inform the community about the progress of local government's efforts	3	
PE10: Engage in an evolving process of climate action:				
PE10 Action: GHG Tracking System	3.31	Implement an energy or GHG management system	5	
PE10 Action: Annual Progress Report	10.1	Report on progress annually	4	
PE10 Action: Updates to Strategies & Plans	10.2	Update strategies and plan(s)	4	
PE10 Action: Partnerships with Other Entities	10.3	Cooperate with neighboring communities and partner agencies	3	
Innovation				
Innovation: New Innovative Actions	11.1	Implement a new innovative action	3 - 18	
Innovation: Innovative Approaches to Existing CSC Actions	11.2	Implement an action using an innovative approach	5 - 10	
Performance				
Performance: Reduce GHGs from Government Facilities	12.1	Reduce GHG emissions from government owned facilities	15 - 45	
Performance: Reduce GHGs from Government Vehicles	12.2	Reduce GHG emissions from government owned vehicles	15 - 45	
Performance: Reduce Solid Waste from Government Operations	12.4	Reduce waste volume from local government operations	3 - 10	