

Capital Project Appropriation Request

6/26/2023

FY 22/23

Project:	CP1457	RESILIENCY AND CLIMATE ADAPTATION IMPLEMENTATION
Agency:	0230	Operations: Land Use

Total Request: \$210,750.00

Part A - Description of Request

The project includes the West Side, Waterside, and Downtown neighborhoods. GIS-based tree inventories will be included for all 3 neighborhoods. The project includes extensive public outreach. The goal is to identify actionable next steps and potential funding mechanisms.



Part B - Appropriation Request Detail

Fund Source	FY 22/23	Capital Forecast						Total
	Amount	FY 23/24	FY 24/25	FY 25/26	FY 26/27	FY 27/28	FY 28/29	
State Grant	210,750.00	0	0	0	0	0	0	210,750.00
Total	\$210,750.00	\$0	\$0	\$0	\$0	\$0	\$0	\$210,750.00

Part C - Project History

Fiscal Year	Authorizations	Encumbered	Expenditure	Balance
2021	50,000.00	0.00	0.00	50,000.00
2023	150,000.00	0.00	0.00	150,000.00
Total	\$200,000.00	\$0.00	\$0.00	\$200,000.00

Part D - Approvals

Preparer <i>OPM Dept</i>	Date 06/27/2023	OPM Director/OPM Asst Director  <small>Eida Sinani (Jun 28, 2023 16:47 EDT)</small>	Date Jun 28, 2023
Department Head <i>Louis Casolo</i>	Date Jun 27, 2023	Director of Administration <i>Bridget Fox</i> <small>Bridget Fox (Jun 29, 2023 10:03 EDT)</small>	Date Jun 29, 2023
Director  <small>Matt Quiñones (Jun 28, 2023 14:58 EDT)</small>	Date Jun 28, 2023	Mayor <i>Caroline Simmons</i> <small>Caroline Simmons (Jun 29, 2023 11:55 EDT)</small>	Date Jun 29, 2023



DEEP Climate Resilience Fund

TRACK 1: PLANNING APPLICATION

November 10, 2022

Section 1 – Applicant Details -

1.	Applicant name:	City of Stamford
2.	Mailing Address:	888 Washington Blvd. Stamford, CT 06901
3.	Primary Contact Name:	Erin McKenna, Associate Planner
	Primary Contact Email Address:	emckenna@stamfordct.gov
	Primary Contact Phone Number:	203 977 4715
4.	Fiscal Agent name:	Emmanuel Bouchotte, Grants Accounts Analyst
	Fiscal Agent contact email address:	ebouchotte@stamfordct.gov
	Fiscal Agent contact phone number:	203 977 5772
5.	Organization EIN:	066001897
6.	Requested Amount:	\$210,750



Section 2 – Proposal Overview -

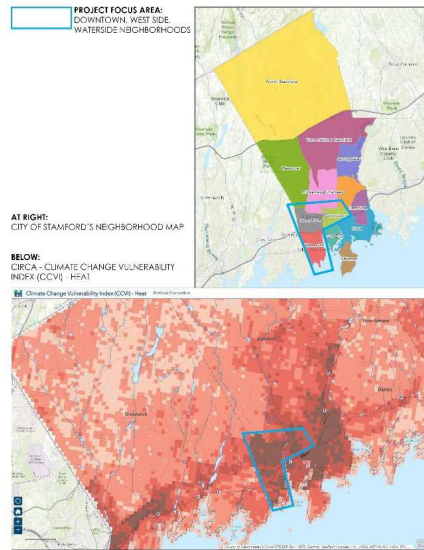
1.	<p>Which of the following relevant hazards will your plan or project address? (select all that apply)</p>	<p><input type="checkbox"/> Extreme precipitation</p> <p><input type="checkbox"/> Flooding from riverine (including ice jams and dam failures), stormwater, tidal sources, or a combination.</p> <p><input type="checkbox"/> Sea level rise (including groundwater impacts)</p> <p><input checked="" type="checkbox"/> Extreme temperatures (heat and cold)</p> <p><input type="checkbox"/> Extreme weather (winter storms, nor'easters, severe thunderstorms, tornadoes)</p> <p><input type="checkbox"/> Tropical storm and hurricane impacts</p> <p><input type="checkbox"/> Windstorms</p> <p><input type="checkbox"/> Fire</p> <p><input checked="" type="checkbox"/> Drought</p>
2.	<p><input checked="" type="checkbox"/> [CHECK BOX] I understand that all plans must examine climate change impacts to 2050 or beyond and that DEEP will provide technical assistance for support throughout the process.</p>	
3.	<p><input checked="" type="checkbox"/> [CHECK BOX] I understand that a climate change vulnerability assessment is a required component of the resilience plan and that the assessment will examine how climate change and related extreme weather will affect community function and assets, including to identified critical facilities and community lifelines.</p>	
4.	<p>Is your planning team including a budgetary request for grant writing for federal resilience funding at the end of the planning process as part of this application?</p> <p>(Note: this is an allowable cost and is encouraged for planning teams that want to pursue federal resilience grant competition funding for next steps.)</p>	<p><input type="checkbox"/> (a) Yes.</p> <p><input type="checkbox"/> (b) No. We have our own support for applying for federal resilience grant funding.</p> <p><input type="checkbox"/> (c) No. We do not intend to apply for federal resilience grant funding.</p>



Section 3 – Community/Regional Overview -

5.	What type of plan will this be?	<input type="checkbox"/> (A) Municipal scale (See question 6) <input type="checkbox"/> (B) Regional scale (Go directly to Question 7) <input checked="" type="checkbox"/> (C) Neighborhood/Hyper-Local scale (Go directly to Question 8)
6.	Which municipality/municipalities will this plan serve? Please include a map of the municipality (a screenshot of a Google map is fine).	Click or tap here to enter text.
7.	<p>(Only answer if you selected B in Question 5)</p> <p>If this is a regional plan, please note the boundaries and how these municipalities/entities have worked together on any previous planning.</p> <p>Please include a map of the plan area (a screenshot of a Google map is fine).</p>	Click or tap here to enter text.
8.	<p>(Only answer if you selected C in Question 5).</p> <p>If this is a hyper-local/neighborhood level plan, please describe the boundaries of this neighborhood</p> <p>Please include a map of the plan area (a screenshot of a Google map is fine).</p>	<p>The planning area consists of the following neighborhoods within the City of Stamford (refer to the attached map):</p> <ul style="list-style-type: none"> • Downtown Stamford • West Side • Waterside <p>These neighborhoods were selected for this planning study because they have high vulnerability to extreme heat, as demonstrated by the heat vulnerability index mapping developed by CIRCA as part of the <i>Resilient Connecticut</i>, have Environmental Justice communities as mapped by CT DEEP, are proximate to critical infrastructure, are contiguous, and represent a diverse cross-section of land uses including a combination of urban and suburban tracts.</p>

See attachment for larger maps.



9. For all plans, please describe any partnership between municipalities and community-based organizations for this proposal and list specific partners that will be receiving any funding as subawards.

The City of Stamford will partner with a number of community-based organizations from the three neighborhoods that comprise the project area. Anticipated partner organizations include:

- Mayor’s Climate Council
- Downtown Special Services District
- Mill River Collaborative
- Waterside Coalition
- West Side NRZ
- Boys & Girls Club of Stamford
- Stamford Hospital
- Eversource
- Fairgate Farm
- SoundWaters
- Chester Addison Community Center
- Representatives of the 3 neighborhoods
- People Friendly Stamford
- Yale Center for Climate Change

Representatives of these organizations will be included on the Technical and Community Advisory Committee and will play an active role in helping to develop and implement the community engagement activities for this project, including the planning and design workshop meetings and development of planning recommendations. Representatives of the community-based organizations in each of the three City of Stamford neighborhoods will serve as community liaisons, helping to reach a broader cross-section of the residents and businesses in these neighborhoods, particularly the EJ communities and other vulnerable populations. The list of community-based partners for this project will be finalized during the formation of the Technical and Community Advisory Committee.

10. Please give a brief overview of current resilience-related issues and concerns. (Do not discuss any previous resilience planning in this section, just focus on any identified concerns and issues.)

Extreme heat events – i.e., temperatures that are well above normal conditions for consecutive days and nights – are an increasing climate risk for urban communities due to both the urban heat island effect and climate change. Buildings, roads, and paved surfaces in the built environment contribute to the heat island effect, which can cause temperatures to be much higher than in surrounding areas. The urban heat island effect is exacerbated by climate change, posing a growing threat to the social, economic, and environmental well-being of communities.

Extreme heat is the number one cause of weather-related deaths in the United States, more than tornadoes, hurricanes, flooding, and cold winter weather combined. In Connecticut, extreme heat is a growing concern with more hot days, longer heat waves, and higher summer temperatures due to climate change. Average temperatures in Connecticut have been increasing steadily for decades and are expected to increase by about 5°F by 2050. Climate projections for Connecticut suggest dramatic increases in the number of summer days (daily maximum temperature above 77°F) and the number of days above 90°F in the coming decades (CIRCA *Resilient Connecticut*).

Increasing temperatures also impact people differently. For vulnerable people, including older populations, children, and those with certain health conditions, and for people with limited or no access to cooling or shade, extreme heat can be dangerous and even deadly. The neighborhoods that are the focus of this planning effort – Downtown Stamford, West Side, and Waterside – have high vulnerability to extreme heat and high social vulnerability due to the presence of Environmental Justice and other vulnerable populations.

Although extreme heat is a growing threat to public health in Connecticut, heat-related illness and death is preventable with appropriate planning and resources. Municipal planning that focuses on equity and environmental justice, identifies short- and long-term actions, prioritizes stakeholder engagement, and facilitates multiagency coordination is needed to protect public health. In Connecticut, more such planning is necessary, especially at the municipal level, but is constrained by limited resources and capacity.

The City of Stamford’s proposal is designed to advance climate resilience in designated Environmental Justice neighborhoods in Stamford, with impact for the state as a whole. Specifically, the proposed Heat Resilience Action Plan will be informed by community engagement and data to create a portfolio of implementable and grant-eligible projects. The Heat Resilience Action Plan will



also create a framework that can guide future extreme heat planning in other Connecticut communities.



Section 4 – Vulnerable Populations –

Executive Order 21-3 states that at least 40 percent of the resources in this program MUST go to planning activities/project development that serves vulnerable populations. For example, if DEEP awards a total of \$10 million in planning grants, at least \$4 million of that amount must directly serve vulnerable populations as defined in Section 16-243y(7). The questions in this section will help DEEP evaluate whether your proposed plan will benefit vulnerable populations.

11.	Is your plan located in an Environmental Justice municipality or census tract identified on the DEEP Connecticut Environmental Justice Communities map?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
12.	Is your plan located in a community eligible for community reinvestment pursuant to section 36a-30 and the Community Reinvestment Act of 1977, 12 USC 2901 et seq., as amended from time to time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
13.	<p>People who are considered vulnerable to climate change with limited capacity to adapt include:</p> <ul style="list-style-type: none"> • Communities of color • Children and seniors • Low-income communities • People with disabilities • Pregnant people • People with Limited English Proficiency (LEP) • Other historically disadvantaged people • People impacted by the social determinants of health • Populations identified by the American Public Health Association. <p>Tell us more about the vulnerable populations in the planning area? Be specific and include data if available.</p> <p>The project planning area includes three contiguous Stamford neighborhoods in the southern part of the City – Downtown Stamford, West Side, and Waterside. All three neighborhoods include mapped census tracts identified on the CT DEEP Connecticut Environmental Justice Communities map. The following information summarizes the vulnerable populations within each neighborhood.</p> <ul style="list-style-type: none"> • Downtown Stamford – Downtown Stamford, situated immediately north of Interstate 95 in the south-central portion of the city, contains several mapped EJ census block groups and tracts in the western and eastern portions of downtown. Minorities (Black, Asian, Hispanic, and other races) account for between approximately 46 and 70 percent of the population in these census tracts and approximately 54 percent of the overall population in Downtown Stamford. The census tracts on the west side of Downtown Stamford are characterized by approximately 17 and 27 percent of households with Limited English Proficiency (LEP) and between 50 and 60 percent of the population is low income (i.e., below 200% of the Federal Poverty Level). Approximately 15% of the population in Downtown Stamford is 65 or older, 	

slightly higher than the percentage of seniors in Stamford overall (14.4%).

- **West Side** – The Westside neighborhood is located immediately west of Downtown Stamford, extending from the Mill River to the Greenwich town line north of Interstate 95. The West Side neighborhood is predominantly located within mapped EJ census block groups and tracts. The population in this neighborhood is approximately 84 percent minority (primarily Hispanic and Black with some Asian). Households with LEP range from 18 to 44 percent throughout this neighborhood, and between 30 and 100 percent of the population in these census tracts is low income.
- **Waterside** – The Waterside neighborhood is located immediately south of the West Side, separated by Interstate 95, extending south to Stamford Harbor and Long Island Sound. The northern two-thirds of the Waterside neighborhood is within mapped EJ census block groups and tracts. The population in these census tracts is between approximately 84 and 96 percent minority (primarily Hispanic and Black) and the overall population in the Waterside neighborhood is 76 percent minority. Approximately 2 to 6 percent of households in these census tracts have LEP, and approximately 55 percent of the population in these census tracts is low income. Approximately 15% of the population in the Waterside neighborhood is 65 or older, slightly higher than the percentage of seniors in Stamford overall (14.4%).

14. **How will your plan and planning process benefit the people you have identified as vulnerable? Be specific.**

The proposed planning process and resulting Heat Resilience Action Plan will directly benefit the Environmental Justice communities and other vulnerable populations within the three neighborhoods that are the focus of this project through:

- Inclusion of community-based organizations and community liaison representatives from each neighborhood on the Technical and Community Advisory Committee and active participation by these individuals and groups in the Action Plan workshop meetings and planning and design process.
- Engagement with youth/school groups that serve the neighborhoods in the project planning area and participation by these groups in the Action Plan workshop meetings and planning and design process. The engagement process will also provide outreach and education to these youth groups regarding extreme heat, climate change, and heat adaptation and response actions.
- Identification of neighborhood and site-specific heat adaptation and response strategies to reduce heat risk, informed by feedback from the community-based organizations. These strategies will provide a pipeline of future actionable and grant eligible projects that will reduce heat impacts on Stamford’s most vulnerable communities.
- Identification of land use policy/zoning issues and potential regulatory strategies to reduce heat risk and associated impacts on Stamford’s most vulnerable communities.



15.

[CHECK BOX] I understand that the vulnerability assessment portion of the planning process must examine [social vulnerability](#).



Section 5 – Planning Process, Including Assessing Vulnerability –

**See attached planning process scope outline for Task breakdown*

16.	<p>Please describe any prior resiliency planning efforts in the municipality(ies)/region you are working in, including natural hazard mitigation planning. If the municipality you are working in has conducted stand-alone resilience planning, make sure to note how this proposal expands upon previous efforts.</p> <p>The City of Stamford has already invested in developing a downtown tree inventory, a study of City-wide drainage issues related to stormwater and riverine flooding, and a separate coastal resiliency study in addition to its part in the WestCOG Multi-Jurisdiction Hazard Mitigation Plan Update (2021-2026). This Heat Resilience Action Plan will help build upon these investments to accelerate Stamford’s progress towards increasing comprehensive climate resilience and protecting our residents from the effects of extreme heat now and in the future.</p>
17.	<p>What are the expected goals and outcomes of this plan?</p> <p>A key objective of the Heat Resilience Action Plan will be to establish a framework for addressing heat risk and resilience which can be replicated in the future in other climate vulnerable communities, both within other areas of the City of Stamford as well as in other Connecticut communities. The plan will be used to create detailed quantitative and qualitative data with the support of vigorous community and stakeholder outreach, with the goal of a Heat Resilience Action Plan producing implementable and grant-eligible projects.</p> <p>The plan will use three (3) climate vulnerable neighborhoods in Stamford as case studies - Downtown, the West Side, and Waterside neighborhoods. These neighborhoods were selected for this planning study because they have high vulnerability to extreme heat, as demonstrated by the heat vulnerability index mapping developed by CIRCA as part of the <i>Resilient Connecticut</i>, have Environmental Justice communities as mapped by CT DEEP, are proximate to critical infrastructure, are contiguous, and represent a diverse cross-section of land uses including a combination of urban and suburban tracts.</p> <p>In addition to site-specific or area-wide heat resilience strategies or interventions within each of these three neighborhoods, the plan will also identify longer-term planning for resilience to extreme heat, policy and regulatory strategies to mitigate the impacts of climate-related hazards, and near-term actions that complement ongoing emergency preparedness and response efforts and existing plans already in place.</p>
18.	<p>Describe how you will assess the planning area’s vulnerability to the climate change impacts you identified at the beginning of the application. Please list the parameters you will use and how you will assess impacts to community assets, including critical facilities and community lifelines.</p>

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This plan effort will begin with an existing plan review where the team will compile and review relevant state/regional/community plans after which findings will be summarized in a plan review matrix. This plan review and matrix will be used as a living document throughout the planning process to identify and summarize how new strategies (i.e., those established as part of this planning effort) can be incorporated into and coordinated with existing strategies.

Upon completion of the comprehensive plan review, a community heat “fact base” will be developed for the planning area. This will entail compiling critical environmental and community data including but not limited to:

- Historical local temperatures
- Maps of the current urban heat island (UHI) effect
- Updated heat vulnerability index values and mapping from Resilient Connecticut
- Current community assets (e.g., existing cooling centers, critical facilities, community lifelines, etc.)
- Pervious/Impervious surfaces
- Tree cover and vegetation
 - Detailed tree inventory will be completed for 2 of the 3 focus neighborhoods
 - Downtown – already completed
 - West Side – funded through this grant application
 - Waterside – funded through this grant application
- Heat vulnerable population and demographic data (social vulnerability)
- Future climate projections for heat (out to 2050 or later planning horizon)

These datasets will be compiled and analyzed by developing a Community Heat Resiliency Planning Map that will be made publicly accessible on the project website. A complimentary map-based feedback portal, community heat walks, and any additional remote heat sensor data (pending the deployment of sensors by CIRCA) will be used to further ground truth the information gathered from online databases and provide additional layers of information on local “hot spots,” additional community assets, and ideas for potential priority project areas.

19. **Please describe the proposed processes for assessing vulnerability and developing a plan in a stakeholder-driven process and what, if any, resilience frameworks your team will use.**

This planning process will build upon the work and planning produced by the CIRCA *Resilient Connecticut* program by incorporating their Climate Change Vulnerability Index for Heat Vulnerability, which is expected to be updated soon to include a statewide assessment, 2020 census data, and several other variables not previously considered. Building upon this past work, as well as other regional/state/local planning efforts will be critical to this process, but even more central will be coordinating closely local stakeholders in the focus neighborhoods. This is particularly critical when addressing a topic like heat, which the public is generally less familiar with than other more visible hazards such as wildfires, urban flooding, sea level rise, and hurricanes.

Heat planning is in the early stages of development and this project is an opportunity to test out and develop a framework for addressing heat risk and resilience which can be replicated in the future in other climate vulnerable communities. The planning process presented here is grounded on the

essential considerations for holistically addressing urban heat resilience in planning as published in the 2022 APA PAS Report 600, planning for Urban Heat Resilience.

It is important to frame heat as a risk that affects everyone, but particularly those in climate vulnerable communities. Heat can be experienced very differently across a community, so seizing opportunities to discuss and learn about those different experiences will be central to this process.

In addition to identifying actionable solutions to address heat risks, this process will all work to raise awareness in these focused neighborhoods and the City of Stamford in general. The communities and residents most impacted by heat are often those historically left out of public participation processes, so this plan will take extra care to include them in the development of community visions for urban heat resilience and the strategies that will advance that vision.

In addition to working closely with the local communities, the team will seek opportunities to discuss heat in more technical terms with officials and leaders working in public health, social services, emergency management, and utility functions to further understand existing impacts as well as future concerns and goals.

20. **How will local government staff be incorporated in this planning process? Please detail any commitment for municipal staff time, including departments and positions of those that will participate, and a brief description of their roles/duties.**

NOTE: If primary applicant is not a municipality, we strongly encourage applicants to work with local government staff and include letters of support stating how they will participate.

This planning effort will be centralized around the formation of a Technical and Community Advisory Committee. The Citizen and Technical Advisory Committee (CTAC) should reflect a broad cross section of community stakeholders with varied expertise on the study neighborhoods. Together with the City and the consultant team, the CTAC will attend four (4) dedicated project meetings over the course of the project.

Erin McKenna, Associate Planner with the City of Stamford Land Use Bureau, will serve as the municipal point of contact and overall project manager for this project. Erin will be responsible for the administrative aspects of the project and project management, and she will serve as the City's lead for the project. Erin will be assisted by staff from other City departments including Engineering; Parks & Facilities; Stormwater Management; Transportation, Traffic & Parking; Land Use Bureau; and others.

The City Engineer and Engineering Department staff will provide expertise related to infrastructure and engineering/constructability issues relative to heat mitigation alternatives and actions.

The Parks & Facilities Department (Parks & Facilities Manager and Foreman) will provide critical input on development of heat mitigation strategies involving urban tree canopy and parks and open space.

The Transportation, Traffic, and Parking Department (Bureau Chief and staff) will provide expertise related to vehicular, bicycle, and pedestrian infrastructure planning and engineering for heat

	<p>mitigation alternatives involving street trees, urban tree canopy, and green infrastructure within the municipal right of way.</p> <p>The City's Stormwater Management Regulatory Compliance and Administrative Officer will provide input on the development of heat mitigation strategies involving green stormwater infrastructure.</p> <p>Land Use Bureau/Planning and Zoning staff will provide expertise related to possible policy and regulatory strategies for addressing heat impacts on a city-wide scale, including recommendations for a future, more detailed land use regulatory/policy evaluation and update.</p> <p>We also anticipate involvement in the project by representatives of the Mayor's Office and coordination with community-based organizations through the Mayor's recently formed Climate Council.</p>
21.	<p>How will your planning team evaluate nature-based solutions as part of the process?</p> <p>This plan will prioritize implementation solutions which incorporate nature-based solutions to varying degrees. This planning study will prioritize nature-based solutions which reduce extreme heat risks to the community members now and in the future, support nature's ability to withstand and adapt to increasing temperatures, and potentially even reduce heat risk to water supply and systems. The team will explore cooling strategies in public and private outdoor spaces, including through planting trees and integration with green stormwater infrastructure, expanding greenspace, providing shade, providing access to water, and introducing cooling centers, as well as public education and social resilience initiatives.</p>
22.	<p>How will your planning team evaluate the inclusion of project ideas that have co-benefits (reduce emissions, solve multiple problems, serve as a community amenity, etc.)?</p> <p>As mentioned in question 21, cooling strategies which prioritize nature-based solutions will be prioritized in this planning effort. By incorporating nature-based solutions, the strategies identified will innately provide the City and its residents with multiple layers of co-benefits. Nature-based solutions describe a range of ecosystem-related approaches that mimic, protect, and/or restore nature to deliver multiple outcomes, including addressing climate change impacts from urban flood risk, protecting public health, increasing equity, creating ecological habitat, and providing psychological benefits to community members.</p> <p>In addition, many heat mitigation and management strategies have co-benefits for other community goals, such as using green stormwater infrastructure to reduce both heat and flooding. The planning efforts will look for opportunities to build upon other City goals identified in the plan review and in conjunction with the City and Advisory Committee. Public education about these layers of co-benefits will be incorporated into the outreach materials to help the communities better understand the relationship between the location of new green infrastructure investments and heat mitigation benefits, for example.</p>

23. **Anything else you would like to share with DEEP regarding the community's commitments to improving resilience?**

The City of Stamford is committed to city-wide climate resilience and sustainability initiatives, as demonstrated through an ongoing city-wide drainage assessment, an upcoming coastal resilience planning project, the recently completed tree inventory for downtown Stamford, implementation of a city-wide stormwater drainage manual to promote the implementation of Low Impact Development and green infrastructure practices, and the Mayor's Climate Council and Task Force on Sustainability. This heat resilience study will build upon and complement these other resilience and sustainability initiatives.

The project team will be led by City staff and supported by a consultant team, working closely with a Technical and Community Advisory Committee including community-based organizations. **Erin McKenna**, Associate Planner with the City of Stamford Land Use Bureau, will serve as the municipal point of contact and overall project manager for this project. Erin will be responsible for the administrative aspects of the project and project management, and she will serve as the City's technical lead for the project. She has 12+ years of experience managing municipal planning projects, managing the mayor's sustainability task force, coordinating sustainability and transportation projects, and managing grant funded resilience and sustainability projects. Erin will be assisted by staff from other City departments including Engineering; Parks & Facilities; Stormwater Management; Transportation, Traffic & Parking; Land Use Bureau; and others.

The City intends to retain the planning and engineering consulting firm **Fuss & O'Neill, Inc.** to provide technical expertise and capacity to complete this project. Fuss & O'Neill provides comprehensive climate resilience and adaptation services to municipalities to address a variety of climate risks including extreme heat and flooding. Fuss & O'Neill is currently working on several CIRCA-led flood and heat resilience planning studies and concept design projects to develop heat adaptation solutions for urban neighborhoods in the Fair Haven neighborhood of New Haven and downtown Danbury. The Fuss & O'Neill team will be led by **Alex Maxwell (Project Manager)** and a support team that includes **Sara Morrison, Erik Mas, and Diane Mas**. Alex has experience performing surface temperature modeling in support of heat vulnerability assessments and adaptation projects. Alex and the supporting principals from Fuss & O'Neill are working on the CIRCA-led heat resilience assessments and similar projects elsewhere in southern New England. Diane, as Fuss & O'Neill's Chief Resilience Officer, is also on the Public Health Working Group for the Connecticut Governor's Council on Climate Change (GC3), which is addressing issues of extreme heat, heat resilience, and public health.

The City also intends to retain the urban forestry consulting firm **Davey Resources Group** to complete tree inventories of the West Side and Waterside neighborhoods, similar to a tree inventory that they recently completed for Downtown Stamford. The Davey Resources Group team will be led by **Andrew Ullman and Cali Fox**, both with significant experience conducting large-scale tree inventories in the New York City area, including Downtown Stamford.

Resumes for the above principals are attached to this application.



- | | |
|-----|---|
| 24. | <input checked="" type="checkbox"/> [CHECK BOX] I understand that the final plan must include a list of prioritized next steps, including identified potential projects that, if implemented, would reduce vulnerability and increase community resilience. This list shall also identify potential federal funding opportunities the applicant or partners intend to pursue for funding implementation. |
| 25. | <input checked="" type="checkbox"/> [CHECK BOX] I understand the final plan must include an exercise for municipal government to assess capacity to raise locally derived match funding and other capital costs associated with implementing resilience measures. This includes examining the measures authorized in An Act Concerning Climate Change Adaptation (Public Act 21-115), including the opportunity to form stormwater authorities, explore special taxing districts, and form flood prevention, climate resilience, and erosion control boards. |



Section 6 – Community and Stakeholder Engagement –

**See attached planning process scope outline for Task breakdown*

26. **Describe how this team will engage residents and stakeholders. Be specific. Include details about the number of meetings, charettes, workshops, public feedback sessions, etc., and any other outreach and engagement strategies. Also include how much notice you will provide to the public regarding public meetings and how information collected during those sessions will be used to inform the project.**

Note: Planning teams must hold a minimum of three (3) public meetings, including one (1) to share results with residents. Meetings must provide adequate public notice.

ADVISORY COMMITTEE:

The City of Stamford will partner with a number of community-based organizations from the three neighborhoods that comprise the project area. Anticipated partner organizations include:

- Mayor’s Climate Council
- Downtown Special Services District
- Mill River Collaborative
- Waterside Coalition
- West Side NRZ
- Boys & Girls Club of Stamford
- Stamford Hospital
- Eversource
- Fairgate Farm
- SoundWaters
- Chester Addison Community Center
- Representatives of the 3 neighborhoods
- People Friendly Stamford
- Yale Center for Climate Change

Representatives of these organizations will be included on the Technical and Community Advisory Committee and will play an active role in helping to develop and implement the community engagement activities for this project, including the planning and design workshop meetings and development of planning recommendations. Representatives of the community-based organizations in each of the three City of Stamford neighborhoods will serve as community liaisons, helping to reach a broader cross-section of the residents and businesses in these neighborhoods, particularly the EJ communities and other vulnerable populations. The list of community-based partners for this project will be finalized during the formation of the Technical and Community Advisory Committee.

YOUTH AND SCHOOLS ENGAGEMENT:

The planning process will identify youth/school groups that serve the neighborhoods in the project planning area and engage these groups in the Action Plan workshop meetings and planning and design process. The engagement process will also provide outreach and education to these youth groups regarding extreme heat, climate change, and heat adaptation and response actions.

ADDITIONAL OUTREACH METHODS:

The project will develop and maintain a GIS Storymap website for the overall project with featured case studies for each of the focus neighborhoods. The data sets compiled on the Community Heat Resiliency Planning Map will also be made publicly accessible on the project website which will also entail a map-based feedback portal for public comment and geospatial public notations. This website will be updated and maintained throughout the duration of the planning process and will remain public upon completion.

Additional community feedback opportunities will come through our data ground truthing process by way of community heat walks where we will layer on information on local “hot spots,” additional community assets, and ideas for potential priority project areas shared by the community.

STAKEHOLDER AND PUBLIC MEETINGS:

The planning process will include:

- Four (4) Community and Technical Advisory Committee Meetings
- One (1) Brainstorming session with Youth/School groups
- Two (2) additional meetings with youth/school groups to encourage participation and guide through process
- Two (2) Public action planning meetings (virtual or in-person)
 - Public project kickoff and goalsetting
 - Preliminary identification & prioritization of key strategies/actions
- One (1) Stakeholder “Walkshop” Day
 - Full days effort for City and consultant staff. Site visit with stakeholders to each of the three (3) neighborhoods with planned route and schedule
- One (1) Stakeholder/Public Concept/Visioning Workshop Day
 - Full days effort for City and consultant staff. Open house format with small group discussions and one-on-one interviews.
- One (1) VIRTUAL Public Presentation of “Walkshop” and Concept/Visioning
- One (1) VIRTUAL or In-person Public Presentation Final Plan

Materials will be distributed in English and one other language. The public will be notified of engagement events through the project website, press release, printed pamphlets, and social media. Language translation/interpretation will be provided for the public meetings.

27. Describe how your project team specifically will engage and collaborate with residents who are considered vulnerable populations.

The three City neighborhoods that comprise the project planning area were selected for their high percentage of mapped Environmental Justice communities and vulnerable populations. We will engage and collaborate with residents of these neighborhoods, many of whom are considered vulnerable populations, through our proposed community-based, stakeholder-driven approach described in our response to Question 26 above.

28. How will you communicate the findings of the plan and get final input from residents and stakeholders?



Note: Planning teams must hold at least 1 public meeting to disseminate results to residents.

The planning process will culminate in a final public meeting (virtual or in-person) when the final plan recommendations and strategies will be shared with this public. In addition to this opportunity to learn about the findings, the project website will be updated to reflect all information shared at the public meeting. The Community Heat Resiliency Planning Map and map-based feedback portal for public comment will be updated and will remain publicly accessible on the project website.



Attachments:

Please attach this application document and the following documents in an email to DEEP.climate resilience@ct.gov as your application submission.

- **Milestone Chart** ([Please use template provided.](#))
- **Budget summary and justification** ([Please use template provided.](#))
- **Resumes for all principals** (please keep to no more than 2 pages and edit to include only relevant experience, including volunteer work)
- **Letters of support from project partners, municipalities, community-based organizations, etc.**
 - Letters must include how project partners or organizations will participate in the project.
 - If the applicant is not a municipality, i.e., a Council of Government or non-profit organization, letters of support should come from every municipality involved in the plan, and those letters must commit staff time to participating in the planning process and engagement efforts.
 - Letters of support can be sent as part of the package or emailed by the author directly to DEEP.climate resilience@ct.gov. Subject line must include the name of the primary applicant and must be received by the application deadline.
- **Optional: Map of planning area.** You may send your required map as an attachment if you are not able to embed the image file into the application.



DEEP Climate Resilience Fund Budget
 COOLER Stamford: Heat Resilience Action Plan
 City of Stamford

Budget Summary

Salaries *	\$0
Fringe	\$0
Total Salary & Fringe	\$0
Travel	\$0
Participant Support Costs	\$6,750
Subawards	\$0
Contractual Services	\$200,000
Materials and Supplies	\$4,000
Total Other Direct	\$204,000
Indirect	\$0
Total Budget:	\$210,750

Budget Justification

Direct Costs: \$210,750 **Indirect Costs: \$0** **Total Request: \$210,750**

Personnel **\$0**

We are not requesting grant funding for City of Stamford personnel.

Fringe Benefits **\$0**

We are not requesting grant funding for City of Stamford personnel.

Travel **\$0**

We are not requesting grant funding for project-related travel by City of Stamford personnel. Consultant travel costs are included in the contractual services budget item.

Participant Support Costs **\$6,750**

We request participant support costs of \$4,000 in Year 1 and \$2,750 in Year 2 (\$6,750 total). We will work in partnership with a Technical and Community Advisory Committee, including community organizations and youth/school groups, to conduct the following project meetings:



Meeting Description	Number of Meetings	In-person or Virtual?	Food Provided?	Language Translation Services?
Technical and Community Advisory Committee Meetings	4	Virtual	No	No
Brainstorming Meeting with Youth/School Groups	1	In-person	Yes	No
Public Project Kickoff and Goal Setting Meeting	1	In-person	Yes	Yes
Action Planning Public Meeting	1	Virtual	No	Yes
Planning and Design Workshop/Charrette (3-day)	3	In-person	Yes	No
Public Presentation of Final Plan	1	In-person	Yes	Yes

In order to facilitate a high level of community participation, funds will be used to provide food for in-person meetings and language translation services for public/community-focused meetings. We expect that up to 25 people will participate in each in-person meeting where food will be provided at a cost of approximately \$15 per person, per meeting (\$375 per meeting x 6 meetings = \$2,250). Meetings are anticipated to be 1 to 2 hours in duration (except for the full-day planning and design workshop/charrette meetings) depending on the specific focus of the meeting and include a light breakfast, lunch, or dinner depending on time of day. No facility rental fees are anticipated. An allowance of \$4,500 is requested for language translation services for up to 3 meetings (\$1,500 per meeting).

Other Direct Costs \$204,000

Other direct costs include contractual services for a lead planning and engineering consultant and a consulting arborist to conduct tree inventories, as well as materials, supplies, and printed translational services in support of the community engagement and action planning workshop meetings.

Contractual Services \$200,000

We request \$170,000 to contract with Fuss & O’Neill, the lead consultant for the planning process for this project. Fuss & O’Neill will work closely with the City, Technical and Community Advisory Committee, community organizations, and youth/school groups, providing overall project management, technical expertise related to documenting existing and projected future heat conditions and impacts, and development of the heat resilience action plan.



We also request \$30,000 to contract with Davey Resource Group to conduct tree inventories of the West Side and Waterside neighborhoods. Davey Resource Group recently completed a tree inventory for downtown Stamford. We propose to use the services of this same firm to conduct similar tree inventories of the other two neighborhoods within the proposed project area.

Materials and Supplies \$4,000

We request \$2,000 for materials, supplies, and printing/distribution of outreach materials in support of the community engagement and action planning workshop meetings. These are anticipated to include fact sheets, flyers, solicitations for feedback and participation in the project (e.g., on-line survey or questionnaire), and related materials. These materials will be distributed via electronic methods and via USPS to households and businesses within the project area. We request an additional \$2,000 for written translation services to translate English language community outreach and engagement materials to Spanish. The proposed materials, supplies, and written translation services are essential for increasing participation in and enhancing the effectiveness of the community engagement and action planning workshop meetings.

Indirect Costs \$0

We are not requesting grant funding for indirect costs.

Primary Tasks	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	5th Qtr.	6th Qtr.	7th Qtr.	8th Qtr.
TASK 3: Community Engagement								
Subtask 3.1: Technical and Community Advisory Committee/Working Group	X		X	X	X	X		
Subtask 3.2: Youth/Schools Engagement	X		X		X			
Subtask 3.4: Project Website	X	X	X	X	X	X		
TASK 4: Develop Action Plan								
Subtask 4.1: Action Planning Meeting 1 (Public Project Kickoff and Goal Setting)		X						
Subtask 4.2: Preliminary Identification and Prioritization of Key Strategies/Actions			X					
Subtask 4.3: Planning and Design Workshop				X				
Subtask 4.4: Draft Final Plan					X			
Subtask 4.5: Present Final Plan						X		

COOLER Stamford: Heat Resilience Action Plan

PLANNING SERVICES SCOPE BUDGET: \$170,000

Scope Summary

Task Fee

TASK 1: Project Management & Coordination \$15,000

Subtask 1.1: Kickoff with City Staff, Grant Administrator, and Consultant Team

Subtask 1.2: Monthly Progress Meetings

- Draft agendas
- Host/schedule meetings

Subtask 1.3: Project Management

- Monthly grant progress reports

TASK 2: Existing & Future Conditions Review & Integration \$30,000

Subtask 2.1: Existing Plan Review & Integration

- Compile relevant state/regional/community plans
- Develop plan review matrix to summarize findings
- Identify and summarize how new strategies (i.e., those established as part of this planning effort) can be incorporated into/coordinated with existing strategies

Subtask 2.2: Develop Community Heat Fact Base

- Collect data for a community heat “fact base”
 - Historical temperatures
 - Maps of the current UHI effect
 - Current community assets (e.g., existing cooling centers, etc.)
 - Pervious/Impervious surfaces
 - Tree cover and vegetation
 - Detailed tree inventory will be completed for 2 of the 3 focus neighborhoods
 - Downtown – complete
 - West Side – funded through this grant application
 - Waterside – funded through this grant application
 - Heat vulnerable population and demographic data
 - Future climate projections for heat
 - Etc

Subtask 2.3: Community Heat Resiliency Planning Map

- Develop geodatabase
- ArcGIS Online map and feedback form

TASK 3 Community Engagement \$25,000

Subtask 3.1: Technical and Community Advisory Committee/Working Group

- Develop list of group members

Potential stakeholders:

- Mayor's Climate Council
 - Downtown Special Services District
 - Mill River Collaborative
 - Waterside Coalition
 - West Side NRZ
 - Boys & Girls Club of Stamford
 - Stamford Hospital
 - Eversource
 - Fairgate Farm
 - SoundWaters
 - Chester Addison Community Center
 - Representatives of the 3 neighborhoods
 - People Friendly Stamford
 - Yale Center for Climate Change
- Four (4)/quarterly working group meetings - (1) initial mtg, (2) mtg to review draft plan goals, (3) mtg to review plan review outcomes, (4) mtg to review draft plan

Subtask 3.2 - Youth/Schools Engagement

- Develop contact list for a specific school/after school group for each neighborhood
- Hold brainstorming session with youth on project ideas
- Incorporation of youth/school groups with charrette activities
- Coordination with youth representative in Working Group

Subtask 3.3 - Project Website

- One main project website with "case study" features for each of the 3 neighborhoods
- Initial StoryMap setup
- Maintenance of StoryMap website

Task 4: Develop Action Plan

\$100,000

Subtask 4.1 - Action Planning Meeting 01: Public project kickoff and goalsetting

- Meeting prep (promotional materials, workshop materials – including slide deck, maps, handouts, etc.)
- Meeting format:
 - One (1) in-person evening or weekend 2 hr meeting at a centralized location
 - **OR** three (3) separate 1hr virtual meetings with each neighborhood
- Internal debrief on outcomes

Subtask 4.2 - Preliminary identification and prioritization of key strategies/actions

- Internal workshop to identify key strategies and actions
- Host VIRTUAL Action Planning Meeting 02
 - Meeting prep (promotional materials, workshop materials – including slide deck, maps, etc.)
 - One (1) 1hr virtual public meeting
 - Post-Workshop- Refinement of workshop deliverables

Subtask 4.3 - Planning and Design Workshop (2-Day Intensive)

- Workshop prep
- 2-day intensive workshop:
 - Day 01 – “Walk”-shop (1 day):
 - Full days effort for City and consultant staff
 - Site visit with stakeholders to each of the three (3) neighborhoods with planned route and schedule
 - Day 02 – Concept/Visioning Workshop (1 day):
 - Full days effort for City and consultant staff
 - Open house format - Station for each neighborhood with organized/flexible times for stakeholder discussions
 - Day 03 – Public Virtual (1hr) Workshop Summary presentation
- Post-Workshop - Refinement of workshop deliverables

Subtask 4.4: Draft Final Plan

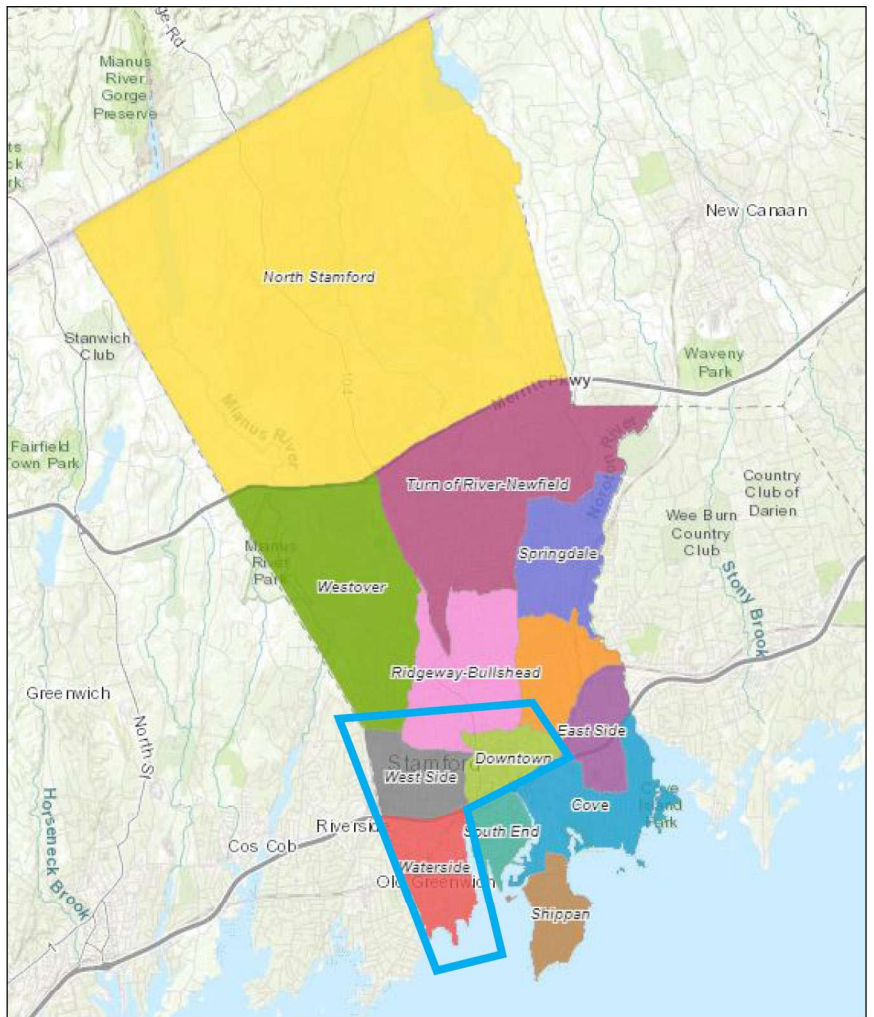
- Document Process and Outcomes: Highly graphic report to include next priority neighborhoods, next recommended actions, actionable next steps for funding next phases of identified neighborhood actions, overarching list of potential funding mechanisms for future heat resilience actions, etc
- Final Plan to include prioritized list of next steps that:
 - Incorporates the Connecticut Institute for Resilience & Climate Adaption's (CIRCA) PERSISTS framework for project identification
 - Identifies federal resilience grant competitions targeted for funding future implementation steps
 - Includes a locally derived match funding strategy exercise that examines measures authorized in An Act Concerning Climate Change Adaptation (Public Act 21-115)
- Finalize StoryMap website

Subtask 4.5: Present Final Plan

- In-person or VIRTUAL public meeting

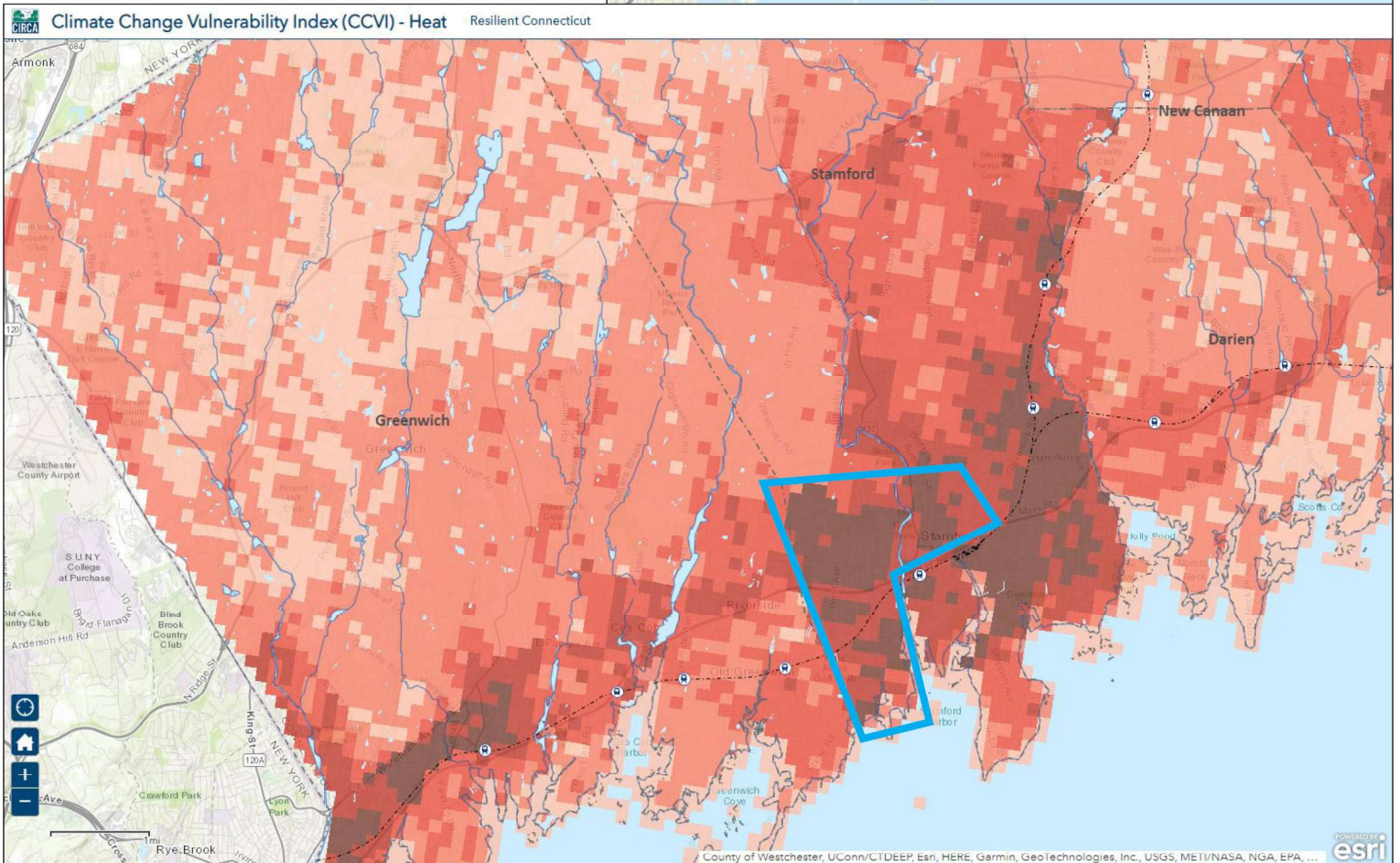


PROJECT FOCUS AREA:
DOWNTOWN, WEST SIDE,
WATERSIDE NEIGHBORHOODS



AT RIGHT:
CITY OF STAMFORD'S NEIGHBORHOOD MAP

BELOW:
CIRCA - CLIMATE CHANGE VULNERABILITY INDEX (CCVI) - HEAT





November 7, 2022

CT Department of Energy & Environmental Protection
79 Elm Street
Hartford, CT. 06106

CT DEEP:

I am extremely enthusiastic to lend my support to the City of Stamford's application to the DEEP Climate Resilience Fund Program Track 1- Planning, to develop a Heat Resilience Action Plan for our downtown, West Side and Waterside neighborhoods that can be replicated in other climate vulnerable communities within our city. The City of Stamford and our community partners will utilize DEEP funding to develop a Heat Resilience Action Plan for the targeted neighborhoods to serve as an actionable roadmap for a comprehensive approach to address heat resilience by producing a framework resulting in a cooler environment. This Action Plan will identify longer-term planning for resilience to extreme heat, strategies to mitigate the impacts of climate-related hazards, and near-term actions that complement ongoing emergency preparedness efforts and existing plans already in place.

The City of Stamford has already invested in developing a downtown tree inventory, a study of City-wide drainage issues related to storm water and riverine flooding, and a separate coastal resiliency study. This Action Plan will help to build upon these investments to accelerate our progress towards increasing climate resilience, and charter the course to protect our residents from the effects of extreme heat.

I would be happy to discuss our application with you in greater detail. Please contact me directly at (203) 977-4150 or at mayorsoffice@stamfordct.gov. I thank DEEP for your consideration of this worthy project.

Sincerely,

A handwritten signature in blue ink, appearing to read "Caroline Simmons".

Caroline Simmons
Mayor

31ST BOARD OF REPRESENTATIVES CITY OF STAMFORD

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Minority Leader
MARY L. FEDELI

November 9, 2022

CT Department of Energy & Environmental Protection
79 Elm Street
Hartford, CT. 06106

CT DEEP:

I represent the Waterside Neighborhood, District 2, in Stamford's Board of Representatives. The population of my District, census tract 223, is over 80% minority, a substantial segment low income, about 25% below the poverty line.

The District is bordered on the north by I-95, and includes a substantial amount of commercial and industrial uses with extensive areas of blacktopped pavement; most of the area is denuded of a tree canopy- a fitting example of an urban heat island.

Therefore, I am writing to lend my strong support for the City of Stamford's application to the DEEP Climate Resilience Fund Program Track 1- Planning to Develop a Heat Resilience Action Plan. My underserved constituents will certainly benefit from the knowledge gained, which will certainly confirm the magnitude of the problem and support mitigating actions.

Sincerely,



Virgil de la Cruz
Board of Representatives, District 2



People Friendly Stamford

www.peoplestamford.org

November 9, 2022

CT Department of Energy & Environmental Protection
79 Elm Street
Hartford, CT. 06106

Re: Heat Resilience Action Plan

Dear Connecticut DEEP:

We are writing to lend my support for the City of Stamford's application to the DEEP Climate Resilience Fund Program Track 1- Planning to develop a Heat Resilience Action Plan for the Downtown, West Side, and Waterside neighborhoods. These neighborhoods have high indices of heat vulnerability, are CT DEEP 2022 Environmental Justice Communities, are proximate to critical infrastructure, and represent a diverse cross-section of land uses – a combination of high urban density and suburban tracts. A key objective of the Heat Resilience Action Plan will be to establish a framework for addressing heat risk and resilience which can be replicated in the future in other climate vulnerable communities.

The City of Stamford and community partners will utilize DEEP funding to create detailed quantitative and qualitative data with the support of vigorous community and stakeholder outreach, with the goal of a Heat Resilience Action Plan producing implementable and grantable projects. It will also identify longer-term planning for resilience to extreme heat, strategies to mitigate the impacts of climate-related hazards, and near-term actions that complement ongoing emergency preparedness efforts and existing plans already in place.

The City of Stamford has already invested in developing a downtown tree inventory, a study of City-wide drainage issues related to stormwater and riverine flooding, and a separate coastal resiliency study. This Action Plan will help build upon these investments to accelerate our progress towards increasing climate resilience, and protecting our residents from the effects of extreme heat.

Sincerely,
People Friendly Stamford
info@peoplestamford.org



Board of Commissioners

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Reckson

Vice Chairman: Marjan Murray, Executive Vice President

People's United Bank

Secretary: George Boyce, Agent

State Farm Insurance Co.

Treasurer: Dan Stolzenbach, General Manager

Stamford Town Center

Five Landmark Square, Suite 110, Stamford, CT 06901

Tel (203)348-5285 Fax (203)348-6857

dssd@stamford-downtown.com stamford-downtown.com

Greg Belew, Division President

LMC, a Lennar Company

Bruce Berg, Chief Executive Officer

Cappelli Organization

John Cannavino, Chairman, Litigation Group

Cummings & Lockwood LLC

Margaret Carlson, Portfolio Director

RFR Realty LLC

Casey Craig, General Manager

URBY Stamford

Mark Finnegan, General Manager

George Comfort & Sons, Inc.

Bridget Fox, Mayor's Chief of Staff

City of Stamford

Robert J. Granata, Chairman & CEO

First County Bank

Joseph Graziose, Sr. Vice President

RXR Realty

Stephen J. Hoffman, Managing Partner

Hoffman Investment Partners LLC

Russ Hollander, President

R. Hollander: Master Goldsmith Inc.

Alice S. Knapp, CEO

Ferguson Library

Beth Krupa, Allied ASID, IDS Associate, GREEN AP

Beth Krupa Interiors

Todd Lindvall, General Manager

Courtyard by Marriott Stamford Downtown

Residence Inn by Marriott Stamford Downtown

Gregory Lodato, President

MarLo Associates, Inc.

Michael Marchetti

Columbus Park Trattoria

Nagi Osta, General Manager

36 Atlantic St LLC and Old Town Square LLC

Teddy Pappas, Property Manager

Rubenstein Partners

Denis Patterson

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CBRE

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City of Stamford

Robert Stoddard, Partner Strategic Corporate Tax

KPMG

Dr. Sharon J. White, Principal

Dr. Sharon J. White & Associates, LLC

Alex Yaraghi, Textile Buyer

Safaviieh

Ari Yagur, Principal

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Ex-Officio Commissioners

Ralph Blessing, Land Use Bureau Chief

City of Stamford

Heather Cavanagh, President & CEO

Stamford Chamber of Commerce

Alice S. Knapp, CEO

Ferguson Library

Loren Nadres, Executive Director

Urban Redevelopment Commission

Dr. Jennifer Orlikoff, Campus Director

UConn Stamford

Jon Winkel, Executive Director

The Stamford Partnership, Inc.

Commissioners Emeriti

Carl Bildner, President

Bildner Capital Corp.

Robert H. Kahn, Present

United Realty, Inc.

Robert Karp, President

BE Rep Group

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Pyramid Real Estate Group

Frank J. Mercede, President & CEO

Frank Mercede & Sons, Inc.

David M. Kooris, President

November 9, 2022

CT Department of Energy & Environmental Protection
79 Elm Street
Hartford, CT. 06106

To Whom It May Concern:

I am writing to express my support for the City of Stamford's application to the DEEP Climate Resilience Fund Program Track 1- Planning to develop a Heat Resilience Action Plan for the Downtown, West Side, and Waterside neighborhoods. These neighborhoods have high indices of heat vulnerability, are CT DEEP 2022 Environmental Justice Communities, are proximate to critical infrastructure, and represent a diverse cross-section of land uses – a combination of high urban density and suburban tracts. A key objective of the Heat Resilience Action Plan will be to establish a framework for addressing heat risk and resilience which can be replicated in the future in other climate vulnerable communities.

The City of Stamford and community partners (such as our organization) will utilize DEEP funding to create detailed quantitative and qualitative data with the support of vigorous community and stakeholder outreach, with the goal of a Heat Resilience Action Plan producing implementable and grantable projects. It will also identify longer-term planning for resilience to extreme heat, strategies to mitigate the impacts of climate-related hazards, and near-term actions that complement ongoing emergency preparedness efforts and existing plans already in place.

The City of Stamford has already invested in developing a downtown tree inventory in partnership with our organization, a study of City-wide drainage issues related to stormwater and riverine flooding, and a separate coastal resiliency study. This Action Plan will help build upon these

investments to accelerate our progress towards increasing climate resilience, and protecting our residents from the effects of extreme heat.

Sincerely,

A handwritten signature in blue ink, consisting of a stylized 'D' followed by 'K' and a flourish.

David Kooris
President, Stamford Downtown
Co-Chair, Stamford Climate Council



Connecting
People and Nature

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Matt Quinones
Ryan Salvatore
J.J. Sendelbach
Jim Shapiro
Camille S. Spaulding
Jon Winkel
Jennifer Young
Fabrizio Zichichi
Nate Zubal

Nette Compton,
President & CEO

November 7, 2022

CT Department of Energy & Environmental Protection
79 Elm Street
Hartford, CT. 06106

CT DEEP:

I enthusiastically support the City of Stamford's application to the DEEP Climate Resilience Fund Program Track 1- Planning to develop a Heat Resilience Action Plan for the Downtown, West Side, and Waterside neighborhoods. These neighborhoods have high indices of heat vulnerability, are CT DEEP 2022 Environmental Justice Communities, are proximate to critical infrastructure, and represent a diverse cross-section of land uses – a combination of high urban density and suburban tracts. A key objective of the Heat Resilience Action Plan will be to establish a framework for addressing heat risk and resilience which can be replicated in the future in other climate vulnerable communities.

As a community partner directly adjacent to and serving these communities, we are committed to supporting the city to use DEEP funding to create detailed quantitative and qualitative data with the support of vigorous community and stakeholder outreach. We are deeply invested in supporting the outcomes of a Heat Resilience Action Plan producing implementable and grantable projects. We recognize the importance of this plan to also identify longer-term planning for resilience to extreme heat, strategies to mitigate the impacts of climate-related hazards, and near-term actions that complement ongoing emergency preparedness efforts and existing plans already in place.

The City of Stamford has already invested in developing a downtown tree inventory, a study of City-wide drainage issues related to stormwater and riverine flooding, and a separate coastal resiliency study. This Action Plan will help build upon these investments to accelerate our progress towards increasing climate resilience and protecting our residents from the effects of extreme heat.

Sincerely,

A handwritten signature in blue ink, appearing to read "Nette Compton".

Nette Compton

Yale SCHOOL OF PUBLIC HEALTH
Center on Climate Change and Health

November 8, 2022

To the Connecticut Department of Energy & Environmental Protection:

I am pleased to provide this letter in support of the City of Stamford's application to the DEEP Climate Resilience Fund Program Track 1- Planning to develop a Heat Resilience Action Plan for the Downtown, West Side, and Waterside neighborhoods.

Extreme heat is a growing threat to public health in Connecticut, and yet heat-related illness and death is preventable with appropriate planning and resources. Municipal planning that focuses on equity and environmental justice, identifies short- and long-term actions, prioritizes stakeholder engagement, and facilitates multiagency coordination is needed to protect health. In Connecticut, more such planning is necessary, especially at the municipal level, but is constrained by limited resources and capacity.

The City of Stamford's proposal is designed to advance climate resilience in environmental justice- designated neighborhoods in Stamford, with impact for the state as a whole. Specifically, their proposal is to develop a Heat Resilience Action Plan informed by community engagement and data and to create a portfolio of implementable and grantable projects, but also, to create a framework that can guide future extreme heat planning in other communities.

If funded, the Yale Center on Climate Change and Health looks forward to opportunities to collaborate with and learn from this project.

Sincerely,



Laura Bozzi, PhD
Director of Programs, Yale Center on Climate Change and Health
Lecturer, Yale School of Public Health
laurabozzi@yale.edu

Erin McKenna

CITY OF STAMFORD LAND USE BUREAU

888 WASHINGTON BLVD.

STAMFORD, CT 06901

(203) 977 4715

EMCKENNA@STAMFORDCT.GOV

Associate Planner with 12+ years of experience primarily managing parks planning projects; managing the mayor's task force on sustainability; and coordinating sustainability and transportation projects.

I am looking to broaden my knowledge of urban sustainability strategies, particularly with regard to urban adaptation to climate change.

Professional Experience relevant to Innovative Governance of Large Urban Systems Program

CITY OF STAMFORD, STAMFORD, CT

Associate Planner, April 2004 - present

- Project management of all aspects of design development for park master plans including hiring consultants, public meetings, the design process, consultant contracts, permitting, and coordinating with City staff during both planning and construction.
- Co-founded the Mayor's Task Force on Sustainability. Accomplishments include the Solarize Stamford program, membership in Energize CT's *Clean Energy Communities* program, the *Corporate Challenge* (energy & water efficiencies), creation and adoption of the Sustainability Amendment to the City's Master Plan, and the LEED Ordinance for City Buildings.
- Project management of the 2015 Glenbrook/Springdale Transit Oriented Development Feasibility Study, centered on the two neighborhood train stations.
- Project management of sustainability projects including electric car charging stations in City garages, one which is connected to a solar array; ongoing work with hydrogen advocate groups to locate a demonstration hydrogen fueling station in Stamford; and ongoing efforts with the Grants & Engineering Departments and local business organizations to pursue funding/grants to create a comprehensive climate change risk assessment for the City.
- Coordination of policies, grants, constructions projects, outreach, and volunteer projects for "Friends of Parks" groups, including Friends of Mianus River Park, the Scalzi River Nature Preserve, the Cove Island Wildlife Sanctuary, and the Friends of Sleepy Hollow Park.

NEW YORK CITY PARKS DEPARTMENT – STREET TREES DIVISION, NEW YORK, NY

Construction Project Manager, September 1997 – September 2000

- Construction management of all aspects of street tree planting projects and contracts in Greenpoint & Williamsburg neighborhoods in Brooklyn, NY.

Education

YALE SCHOOL OF FORESTRY & ENVIRONMENTAL STUDIES, NEW HAVEN, CT

- MES, Environmental Management

COLUMBIA UNIVERSITY, NEW YORK, NY

- BS English Literature, Geology Minor
- Graduated Magna Cum Laude, Phi Beta Kappa

Additional Skills

- GIS ArcMap



Erik Mas, PE

Project Manager

“Applying math and science to solve environmental problems is what first attracted me to engineering, but working with really bright, passionate people on real-world projects – both simple and complex – is what I enjoy the most about being a consultant.”

emas@fando.com

800.286.2469 x4433

EDUCATION

BS, Civil Engineering - 1992
Tufts University

MSE, Civil Engineering - 1995
Princeton University

LICENSES & REGISTRATIONS

Professional Engineer CT
Professional Engineer MA

PROFESSIONAL AFFILIATIONS

New England Water Env Assoc
Water Environment Federation

EXPERIENCE

29 Years Professional Experience

Erik is a Principal of the firm and his background and experience combine planning and engineering in the areas of flood protection, climate resilience, and stormwater management. Erik is working with the City of Stamford and the City of Danbury on FEMA grant development for flood mitigation initiatives. He directed the creation of the RIDOT Road-Stream Crossing Assessment Handbook and developed a flood resilience plan for the 300-square-mile Wood-Pawcatuck watershed in southeastern CT and southern RI. He is also the lead author for updates to the Connecticut state stormwater manuals, and leads the firm's MS4 practice in Connecticut. Erik served on the Rivers Subgroup of the Connecticut Governor's Council on Climate Change (GC3) Working and Natural Lands Working Group. He also leads the firm's municipal climate resilience practice in Massachusetts (MVP Program), providing project management and technical oversight of climate vulnerability assessments and adaptation projects for municipalities.

REPRESENTATIVE PROJECTS:

FEMA BRIC/FMA Grant Development, Coastal Flood

Resilience Plan, Stamford, CT: Project Manager for development of a city-wide coastal resilience plan to address existing and future flood prone areas.

FEMA HMGP Grant Development, Neighborhood-Scale Flood Mitigation Evaluations, Stamford, CT:

Project Director for evaluation of flood protection alternatives to address riverine and drainage-related flooding in the Dannell Drive and Cummings Pond neighborhoods.

FEMA BRIC Grant Development, Upper Falls Dam Removal Feasibility Evaluation, Norwich, CT:

Project Director for a feasibility study to evaluate the removal of Upper Falls Dam to reduce flood risk along the Yantic River.

Municipal Stormwater Drainage Manuals, Greenwich, Stamford, Danbury, CT: Project Manager for development of municipal design manuals to promote the use of low impact development and green infrastructure for more effective and resilient stormwater management.

Updates to Connecticut Statewide Stormwater Manuals, CT DEEP, CT: Project Manager and lead author for updates to the Connecticut Stormwater Quality Manual and Connecticut Guidelines for Soil Erosion and Sediment Control.

Coastal Flood Resilience Project, City of Milford, CT: Project Manager for the initial planning phase of coastal resilience projects to address flooding in low-lying areas of Milford. The projects included a vulnerability assessment and feasibility study for raising a section of Beachland Avenue, and conceptual design of drainage infrastructure and outfall improvements to address tidal and storm-related flooding in the Bayview Beach area.

RIDOT Statewide Manual and Road-Stream Crossing Assessment Pilot Study, Woonasquatucket River Watershed, RI: Project Director for an assessment of 300+ culverts and bridges in the Woonasquatucket River watershed as part of the development of a statewide road-stream crossing assessment manual for RIDOT.

Wood-Pawcatuck Watershed Flood Resilience Management Plan, RI and CT: Led the development of a flood resiliency management plan for the 317-square-mile Pawcatuck River watershed.

Town-wide Road Stream Crossing Assessment and Climate Change Adaptation Plan, Town of Belchertown, MA: Project Director for Belchertown's MVP Action Grant in the first round of MVP implementation funding from EEA. The project identified and provided recommendations for high-priority crossings to enhance community resiliency, mitigate existing and potential future flooding, and increase stream continuity and aquatic passage. The project included field survey of beaver activity and development of vulnerability assessments to quantify potential flood storage or flood risk from beaver impoundments and recommend management actions from restoration to beaver exclusion.

Infrastructure Planning for Climate Change Resilience, City of Northampton, MA: Project Manager for development of resilience strategy recommendations related to storm drainage infrastructure and flood control/floodplain management to support development of a Climate Resiliency and Regeneration Plan.

Integrated Water Infrastructure Vulnerability Assessment and Climate Resiliency Plan, Towns of Charlton and Spencer, MA: Project Manager for a joint MVP Action Grant project in the first round of MVP implementation from EEA. The project examined culverts and bridges, dams, water and wastewater infrastructure, and green infrastructure opportunities.

Upper Susquehanna River Watershed Flood Resilience Study, Tioga and Broome Counties, NY: Project Manager for the development of a watershed-based flood resilience study and management plan for flood-prone tributaries to the Upper Susquehanna River in the Southern Tier of NY.



Sara Morrison, MLA, WEDG

Coastal Adaptation and Community Engagement

"I get most excited about working on projects at the intersection of land and water and am passionate about helping communities and ecosystems evolve and adapt in the face of an evolving climate. I like working on multi-disciplinary teams to integrate natural and engineered systems using nature-based solutions to achieve socially-resilient, economically-viable, and environmentally-sustainable projects."

smorrison@fando.com

800.286.2469 x5300

EDUCATION

MS, Landscape Architecture - City College of New York

BS, Psychology - 2005 Louisiana Tech University

LICENSES & REGISTRATIONS

WEDG Associate

PROFESSIONAL AFFILIATIONS

American Soc Adaptation Profs
CT Association of Flood Managers
MA Assoc of Floodplain Mgmt
American Soc of Landscape Architects

EXPERIENCE

15 Years Professional Experience

Sara Morrison is a Business Line Manager specializing in Climate Adaptation in our Water and Natural Resources Business Line with a background in systems-based, urban landscape architecture and large-scale climate resilience design and planning. Sara's expertise is integrating natural and engineered systems using nature-based solutions to achieve socially resilient, economically viable, and environmentally sustainable projects. She has led the management, planning, and design of climate adaptation projects of varying scales across the northeast including complex, interdisciplinary coastal resilience projects in NYC in the aftermath of Superstorm Sandy. Her experience includes both coastal and inland environments and ranges from living shorelines, salt marsh and dune enhancements to floodplain and river restoration projects.

REPRESENTATIVE PROJECTS:

Pocasasset River Flood Control Improvements, Cranston, RI: A \$48M capital project that combines traditional gray infrastructure and nature-based practices. The project includes buy-outs of more than 120 privately-owned buildings, with plans to convert that space to restored floodplain in urban neighborhoods. In addition to creating floodplain storage in a high-vulnerability watershed, these restored floodplain nodes will create open space and recreational access to the river in their urban neighborhoods. Sara leads the coordination of the buyout process and design of nature-based solutions, community access, and floodplain compensation.

Tottenville Shoreline Protection Project, Staten

Island, NY: At her previous firm, Sara served as Project Manager and Lead Designer for this \$32.5M coastal and community resiliency project to provide a layered system of risk reduction, ecological resiliency, and social resiliency for the community of Staten Island's south shore. The design of the system incorporates structured dunes, eco-revetments, and a robust shoreline planting and restoration plan to reduce erosion and attenuate wave action. Sara was responsible for coordination among five internal cross-disciplinary groups and six subconsultants. She supported the client by leading working groups that included members of the public, city/state agencies, academics, and elected officials to foster communication and attain buy in, improve understanding of local issues, and educate on risks to coastal habitats.

Updates to Connecticut Statewide Stormwater

Manuals, Statewide, CT: Supported lead author in developing updates to the Connecticut Stormwater Quality Manual and Connecticut Guidelines for Soil Erosion and Sediment Control.

Easton's Beach Program Planning Study, City of

Newport, RI: Fuss & O'Neill is performing a program planning study at Easton's Beach taking into account the impacts of our changing climate and visitor needs now and in the future. As the Atlantic's water levels rise, storm activity increases in frequency and strength, and overland flooding threatens the beach from the north. Preserving the beach and any associated structures and amenities required by beachgoers necessitates rethinking how the constructed and natural landscape interact.

Portland Landing, Portland, ME: At a previous firm, Sara led the resiliency design approach for a study of an underutilized three-acre parcel on the Portland waterfront. The City envisioned a highly programmed, climate-change responsive, iconic civic amenity. The proposed solution that not only satisfied the City's program, but also addressed climate change through a dramatic and highly-usable landscape that advanced the City's initiative to sustain and enliven its waterfront.

Climate Change Vulnerability and Risk Assessment of Infrastructure, Winthrop, MA:

At a previous firm, Sara served as Landscape Lead on vulnerability assessment of public infrastructure to coastal flooding using the Boston Harbor Flood Risk Model. The assessment systematically evaluated and prioritized critical infrastructure at a Town-wide level. Concept level adaptation measures were developed for key locations integrating hard and soft solutions.

GATE 195082A – Jamaica Bay West Pond Shoreline Restoration, Queens, NY:

At a previous firm as Landscape Architectural Designer, Sara lent knowledge to the development of living shoreline solutions leading to the preliminary design for West Pond. The site is one of the largest coastal wetland ecosystems in the region with an approximately 45-acre fresh water pond on the western side of the Jamaica Bay Wildlife Refuge. The embankment of the pond was beached during Hurricane Sandy, resulting water flowing between West Pond and Jamaica Bay. Initiated by the NPS, the goals of the project are to control bank erosion, restore approximately 5 acres of low and high marsh wetland habitat, stabilize the shoreline, and to function as a sustainable living shoreline to protect the breach repair in the West Pond embankment.



Alex Maxwell, PhD

Heat Mitigation

"I got into climate action work because it truly cuts across the fields of science, planning, and engineering. You need science to assess current and future conditions and impacts. You need planning to develop strategies for reducing greenhouse gas emissions and adapting to a changing climate. And you need engineering to implement those strategies in ways that work for the communities and organizations that we serve.

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EDUCATION

BS, Civil Engineering - 2009
Gonzaga University
MS, Environmental Science - 2011
Clarkson University
PhD, Urban Design - 2017
University of Strathclyde

EXPERIENCE

10 Years Professional Experience

As an engineer and urbanist by training with over 10 years of experience, Alex has broadly focused on environmental planning, design, and sustainable development. His experience includes surface temperature modeling in support of heat vulnerability assessments and adaptation projects. Currently, he works as a resilience planner where he works on municipal vulnerability preparedness projects, and climate resilience master plans. Previously, Alex served as a Senior Manager of Climate Programs at Second Nature, taught as an Assistant Professor at Gonzaga University, and worked as an environmental planning consultant on several projects related to local climate action planning and walkable urban design. Overseas, Alex also spent several years working as a Fulbright-University of Strathclyde Research Scholar with the Urban Design Studies Unit in Glasgow, Scotland and for the Climate Change Planning Unit at the United Nations Human Settlements Programme in Nairobi, Kenya.

REPRESENTATIVE PROJECTS:

Shawsheen River Watershed Land Conservation Planning and Prioritization for Climate Resilience and Environmental Justice, Andover, MA: Resilience Planner and Assistant Project Manager for Andover's FY22 MVP Action Grant project to identify and prioritize parcels for future land acquisition along the Shawsheen River with the goal of increasing climate and flood resilience. The assessment focuses on properties that could provide flooding relief to the most flood-prone areas in downtown Andover, including repetitive loss areas, as well as to downstream environmental justice communities in neighboring Lawrence. The assessment also considers habitat, water quality, and other ecosystem services, in addition to coordination with community volunteers.

Cherry Street Green Infrastructure and Slope Restoration Construction, Easthampton, MA:

Resilience Planner for Easthampton's MVP Action Grant project focused on stream bank restoration and stabilization at the Cherry Street outfall and the reconstruction of Cherry Street to increase stormwater infiltration, add tree cover for shading, and improve sidewalk walkability and other resources in a local EJ community. Planning responsibilities include the development of an English and Spanish DIY guide to residential-scale resilient stormwater management solutions for local residents and a related workshop to demonstrate green infrastructure practices.

Climate Resilience and Sustainable Growth Plan, Belchertown, MA:

Project Manager and Resilience Planner for Belchertown's FY 22 EEA Planning Assistance Grant to develop a new Climate Resilience and Sustainable Growth Plan. The Plan will serve as a critical component of the Town's phased update to its Master Plan and will be developed through a community-driven planning process to provide an over-arching policy and planning framework to promote resilience and sustainable growth. The Plan will provide a set of goals and strategies to guide decision-making and develop actionable planning recommendations aimed at making the community more resilient to climate hazards and advance the Massachusetts Sustainable Development Principles.

New City Neighborhood Infrastructure Master Plan, Easthampton, MA:

Resilience Planner for this multidisciplinary CDBG-funded project to complete a neighborhood-wide assessment and master planning effort. This planning effort includes assessing needs related to physical improvements to

aged and inadequate water, sewer, and stormwater infrastructure, streetscape and accessibility improvements, neighborhood connectivity, and green infrastructure improvements. The project is centered around a community-driven engagement process to collect feedback and ideas from residents to inform the design process, including a "walk-shop" event that drew in over 4 dozen residents.

Shawsheen River Master Plan, Andover, MA:

Project Manager and Resilience Planner for Andover's Shawsheen River Master Plan project, which is intended to provide a high-level, graphically-rich planning document and conceptual vision that will build public momentum and develop a road-map for future projects. The planning process builds on input from the community, and is intended to integrate with the high-priority climate resilience actions identified through the Town's MVP planning process.

Mirror Lake Improvements CEPA Environmental Impact Evaluation, UConn, Storrs, CT:

Assistant Project Manager and Resilience Planner for UConn's CEPA environmental impact assessment of the Mirror Lake Improvements Project. The assessment includes an evaluation of potential impacts resulting from planned dam safety improvements, stormwater management improvements, dredging, and landscape improvements. This project will be an opportunity for UConn to address needs by improving the Lake's hydrological performance and natural aesthetic, while expanding access to the water's edge and celebrating the Lake as an important cultural landmark and entry point to the campus. The central purpose of the CEPA process is to determine whether the proposed action will have a significant environmental effect.



Diane Mas, PhD, REHS/RS, CC-P

Resilience QA/QC

“There is a perception that engineering is not a “people” profession, but I’ve always felt that nothing could be further from the truth. Environmental engineering is at the intersection of science, law, policy, and public health. It is the ability of the issues at the heart of the profession to impact the daily lives of people that has always appealed to me.”

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EDUCATION

BA, Geology - 1992
Amherst College
MSE, Civil Engineering - 1995
Princeton University
PhD, Civil Engineering - 2006
University of Massachusetts at Amherst

LICENSES & REGISTRATIONS

Reg Env Health Spec/San
Registered Sanitarian CT, FL

PROFESSIONAL AFFILIATIONS

National Env Health Assoc
Assoc of Climate Change Officers

EXPERIENCE

28 Years Professional Experience

Diane is a Water Resources Engineer, Sanitarian, and Chief Resilience Officer at Fuss & O’Neill, and a founding member of the company’s environmental impact assessment practice. She has spent nearly 25 years working in the areas of water quality modeling, watershed management, and environmental impact assessment. Her current areas of water resources practice focus on climate change resilience and adaptation for water resources; water quality assessment, modeling, and watershed management; harmful algal bloom impacts to drinking and recreational waters; and the relationship between water quality and public health. She also provides technical leadership for the preparation of state and federal environmental impact assessments, continuing to look for ways to streamline and focus analysis on key issues to assess and mitigate potential environmental effects.

REPRESENTATIVE PROJECTS:

Coastal Flood Resilience, City of Milford, CT:

Diane served as the Senior Technical Specialist for resilience projects to improve neighborhood resiliency to existing and projected coastal flooding. In the Beachland Avenue neighborhood, a road was raised to provide access during projected future high tide events and protect private property on the inland side of the road from tidal flooding. In the Bayview Beach neighborhood, four storm drains were reconstructed and raised, and tide check valves were installed. Sand dunes were raised, beach grass was reestablished, and two new pump stations were implemented.

Climate Change Adaptation Plan for Providence

Water, Scituate, RI: Primary author for the development of a climate change adaptation plan for the Scituate Reservoir Watershed, the primary surface

water supply for the Providence Water Supply Board. The plan identifies anticipated vulnerabilities based on current climate projections and potential adaptation actions for this major water supply reservoir.

Risk and Reliability Assessment – South Hadley Fire District 2 Water Supply, South Hadley, MA:

Diane is the resilience engineer working with the Water Supply District to perform a Risk and Resilience Assessment in compliance with the America's Water Infrastructure Act (AWIA) requirements for communities. Through this process the District is able to identify and prepare for all hazard types that may impact the operation of the water supply.

Vulnerability Assessment of Chemically-Impacted and Environmentally Sensitive Properties,

Haverhill, MA: Provided technical input for the development of a vulnerability assessment tool to evaluate and prioritize properties having a history of chemical or hazardous material contamination or storage that were located within Environmental Justice (EJ) communities in Haverhill and had have the potential to experience flooding. The tool incorporated information about the regulatory history of the parcel, proximity to EJ populations, accessibility to first-responders in the event of an incident, and exposure to flooding based on current and anticipated floodplain extends.

Connecticut Stormwater Manuals Update:

Contributing author for updates to the Connecticut Stormwater Quality Manual and Connecticut Soil Erosion and Sedimentation Control Guidelines.

Wood-Pawcatuck Watershed Flood Resilience

Management Plan, CT and RI: Assisted with development of a flood resiliency management plan for the 317 mi² Pawcatuck River watershed. The management plan involves assessing the watershed for vulnerability to flooding and erosion, and developing management recommendations to protect and enhance the resiliency of the watershed communities to flood damages and improve aquatic ecosystems.

Green Infrastructure Plan for Hanscom Air Force

Base and Hanscom Airfield, MA: Technical Specialist and Task Manager for development of a hydrologic model to predict benefits of a green infrastructure stormwater management plan for a civilian air field and Air Force Base. Leading development of green infrastructure plan to restore the Shawsheen River.

Sheffield Brook Stream and Floodplain

Restoration, Old Colony Beach Club Association, Old Lyme, CT: NEPA specialist for documentation (an Environmental Assessment) required to consider potential project impacts. Key environmental topics include wetlands, floodplain, and coastal area management. Sheffield Brook is susceptible to flooding and coastal storms create high-tide conditions that force water up into the culvert, which floods the brook and neighboring properties. This was part of our eventual work providing additional flood storage and conveyance, restoring wetland and floodplain areas, and installing tidal controls on the culvert(s). This project improves climate change resilience.



Andrew Ullman

Project Developer

Andrew Ullman is a Project Developer and consultant with Davey Resource Group (DRG). Andrew is primarily responsible for sales and business development on urban forestry and environmental consulting related projects in the New York City region.

Andrew has more than 20 years of experience in arboriculture, urban forestry, environmental stewardship and restoration. Prior to joining DRG, Andrew worked in public service as an urban forester with the New York City Department of Parks and Recreation (NYC DPR). First in the title of Forester, then becoming a Deputy Director, and finally serving as Director of the Brooklyn Forestry Division with the NYC DPR.

In these roles, Andrew interacted with elected officials, city and state agency officials, community boards, and other local community-based organizations. Before that, he worked as a practicing arborist climbing and caring for trees in the Pacific Northwest with his tree service Cascadia Tree Preservation.

Education

- M.Sc., Arboriculture and Urban Forestry, University of Central Lancashire Preston, England
- B.A., Liberal Arts, The Evergreen State University, Olympia, WA
- A.A.S., Urban Tree Management, Paul Smith's College, Paul Smiths, NY

Certifications

- Certified Arborist (#PN-6113A), International Society of Arboriculture (ISA)
- Tree Risk Assessment Qualification, ISA
- Adult First Aid/CPR/AED, American Red Cross



Cali Fox

Project Manager

Cali Fox is a project manager for New York City's Urban Forestry team and oversees large-scale tree inventories, pre-construction projects, and tree preservation inventories in the northeast United States region, primarily New York.

A selection of Cali's project experience includes oversight of day-to-day operations of a tree inventory in Lancaster, PA with over 10,000 trees; oversight of day-to-day operations, data collection quality control, and Community Forest Management Plan preparation for Governor's Island, NY; and the organization, execution, and oversight of a tree planting project of over 200 bare root trees in Green-Wood Cemetery.

Prior to her role as a project manager for DRG, Cali served as an arborist consultant for large-scale pre-construction inventories, supervising on-site forestry operations, providing on-site tree recommendations, and authoring arborist reports. She also served as the Forester for the New York Department of Parks and Recreation.

In addition to her experience with DRG's large-scale inventory projects, Cali performed oversight of street tree planting operations and field inspections for tree health, as well as organized and supervised data collection on Nature Reserves throughout Ontario, authoring an accompanying management plan.

Education

- Certificate in Advanced Principles of Urban Tree Care, New York Botanical Garden School of Horticulture and Landscape Design
- M.F.C., Forest Conservation, University of Toronto

Certifications

- Certified Arborist (#NY-6411A), International Society of Arboriculture (ISA)
- ISA Tree Risk Assessment Qualification (TRAQ)
- Adult First Aid/CPR/AED, American Red Cross