



TOWN OF SOUTHAMPTON

Department of Community Preservation
24 W Montauk Hwy, Hampton Bays, NY 11946
Ph: 631-287-5720 Fx: 631-728-1920

www.southamptontownny.gov/WQIPP

COMMUNITY PRESERVATION FUND (CPF) WATER QUALITY IMPROVEMENT PROGRAM CHECKLIST/APPLICATION INSTRUCTIONS

The CPF Water Quality Improvement Project Plan (WQIPP) Fund follows the objectives in the adopted [Water Quality Improvement Project Plan](http://www.southamptontownny.gov/WQIPP) (see <http://www.southamptontownny.gov/WQIPP>)

To apply for funding, an application must be COMPLETED and submitted along with detailed narratives and supporting information as described below. Parcel acquisitions will be considered on an ongoing basis, independent of this application process.

Note: Electronic application submission required and 4 - full printed sets of application, site plan and narrative. Upload application at www.southamptontownny.gov/WQIPPSUBMISSION

A Public Hearing and Town Board Resolution will be required for all projects pursuant to Chapter 140 of the Town Code.

WATER QUALITY IMPROVEMENT PROJECT MEANS:

[1] DEFINITIONS:

1. **Wastewater Treatment Improvement Project** means the planning, design, construction, acquisition, enlargement, extension, or alteration of a wastewater treatment facility, including alternative systems to a sewage treatment plant or traditional septic system, to treat, neutralize, stabilize, eliminate or partially eliminate sewage or reduce pollutants in treatment facility effluent, including permanent or pilot demonstration wastewater treatment projects, or equipment or furnishings thereof. Stormwater collecting systems shall also be included within the definition of a wastewater improvement project.
2. **Nonpoint Source Abatement and Control Program Projects** developed pursuant to section eleven-b of the soil and water conservation districts law, title 14 of article 17 of the environmental conservation law, section 1455b of the federal coastal zone management act, or article forty-two of the executive law;
3. **Aquatic Habitat Restoration Project** means the planning, design, construction, management, maintenance, reconstruction, revitalization, or rejuvenation activities intended to improve waters of the state of ecological significance or any part thereof, including, but not limited to ponds, bogs, wetlands, bays, sounds, streams, rivers, or lakes and shorelines thereof, to support a spawning, nursery, wintering, migratory, nesting, breeding, feeding, or foraging environment for fish and wildlife and other biota.
4. **Pollution Prevention Project** means the planning, design, construction, improvement, maintenance or acquisition of facilities, production processes, equipment or buildings owned or operated by municipalities for the reduction, avoidance, or elimination of the use of toxic or hazardous substances or the generation of such substances or pollutants so as to reduce risks to public health or the environment, including changes in production processes or raw materials; such projects shall not include incineration, transfer from one medium of release or discharge to another medium, off-site or out-of-production recycling, end-of-pipe treatment or pollution control.
5. **The Operation of the Peconic Bay National Estuary Program**, as designated by the United States Environmental Protection Agency. Such projects shall have as their purpose the improvement of existing water quality to meet existing specific water quality standards. Projects which have as a purpose to permit or accommodate new growth shall not be included within this definition



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COMMUNITY PRESERVATION FUND (CPF)
WATER QUALITY IMPROVEMENT PROGRAM
PROPOSAL SUMMARY

Project Applicant: _____

Project Title: _____

Project Manager Name: _____

Name	
Title	
Organization	
Address	
Phone	
Email	

Property owner (if different from Project manager organization):

Name	
Affiliation	
Organization	
Address	
Phone	
Email	

Project Address: _____ SCTM #(S) _____

Type of Project (Check all that apply):

- Reduction Remediation Restoration

Project Summary: (Provide a brief narrative description of proposed WQIPP project)



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If additional information is needed to describe the project; a project narrative can accompany the application. Please limit the narrative to approximately 3 pages of project description, provide a summary of water quality benefits/objectives of approximately 2 pages and provide a cost estimate of approximately 2 to 4 pages with supporting estimates. Any additional materials should be focused specifically on the proposed project with references to other studies that are pertinent

1. PROJECT TYPE (check all that apply)

Must meet at least one of the definitions of “Water Quality Improvement Project” per State Law Chapter 551 cited above. Check all that apply.

- Wastewater Treatment Improvement Project
- Non-point source abatement and control
- Aquatic habitat restoration
- Pollution prevention
- Operation of Peconic Bay National Estuary Program (Grant Match)

Note: Monitoring costs are only potentially eligible for CPF funding within Aquatic habitat restoration projects.

2. PRIORITY AREA(S) (check all that apply)

Priority areas are defined in the [Water Quality Improvement Project Plan \(WQIPP\)](#).

- 303(d) Impaired
- High
- Medium
- Outside High and Medium priority areas*

*If Outside High and Medium priority areas, explain how the project is relevant to WQIPP goals.

3. PROJECT DESCRIPTION

3a. Existing conditions of applicable groundwater/sub-watershed/waterbody and most recent and relevant data available (provide sources).

3b. How the proposed solution addresses the issue in the context of Reduction, Remediation and/or Restoration as per the CPF Water Quality Project Plan. Note all remediation and restoration projects must assure that reduction measures are also addressed.



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3c. Describe the proposed technology and its demonstrated efficacy in similar settings. May include published data.

3d. How the project supports Town of Southampton, Suffolk County, NYSDEC, Long Island Nitrogen Action Plan (LINAP) or other adopted goals/policies (provide references with page numbers).

3e. Review the following statements and indicate whether they are applicable to your project. For all "Yes" responses, please indicate how your project addresses the requirements indicated.

YES	N/A	
<input type="checkbox"/>	<input type="checkbox"/>	If stormwater system or drainage is proposed: The project must indicate compliance with the New York State Stormwater Design Manual (2015 and as updated).
<input type="checkbox"/>	<input type="checkbox"/>	If project is related to farmland: Describe any Agricultural Stewardship Plan or other long term strategy for Nitrogen abatement.
<input type="checkbox"/>	<input type="checkbox"/>	If the project is for habitat restoration: The narrative must address how underlying causes are being ameliorated and expected outcomes for local species populations or other ecological considerations are given.
<input type="checkbox"/>	<input type="checkbox"/>	If project is a Sewage Treatment Plant (STP) or cluster treatment system: Fund allocation request is based on cost for reduction of pre-existing conditions and not for purpose of accommodating new density (describe pre-existing density and associated flow (gallons per day) and total projected nitrogen reduction in narrative). Include detailed information on how many homes the system would treat as well as potential for formation of Sewer District, if required by Suffolk County Health Department or Town Law.
<input type="checkbox"/>	<input type="checkbox"/>	If the project is requesting grant match: Include information related to funding program source and purpose of application and any relevant items on this checklist. Note: A Town Board resolution will be required in order to encumber matching funds for grant applications.

4. WATER QUALITY BENEFIT

4a. Identify Nitrogen, Pathogen or Pollutant of Concern (POC) including Existing Condition and Target Reduction.

4b. Describe plans for collecting and reporting on water quality over time.



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4c. Indicate useful life of proposed technology (must meet or exceed five years).

5. COST FACTORS

5a. Explain how you have confirmed that the proposed budget is reasonable, appropriate and necessary. If available, provide third party estimates or other documentation of how costs were determined.

5b. Describe any matching funds to be provided.

5c. Explain: i. Why project cannot proceed and intended benefits cannot be achieved without external funding.
ii. if funds are awarded at a lower level than requested, or if there are cost overruns, explain how the project will proceed.

6. MANAGEMENT, EXPERIENCE, ABILITY

6a. Describe applicant's experience in completing similar projects.

6b. Describe community support or opposition to project. If there is opposition, explain how this is to be addressed.

6c. Describe any permits needed and time frame/status of approvals. If permits are approved, indicate same.



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7. MAINTENANCE, MONITORING, EVALUATION

Estimate ongoing maintenance costs and explain how these will be supported. Explain stewardship and monitoring activities planned for ensuring sustainability of the project.

See Attachment 1.

8. DURATION OF PROJECT

8a. Provide a projected project timeline.

See Attachment 1.

8b. If project is multi-year or phased, provide a breakdown of budget and milestones for each year and phase.

See Attachment 1.

9. ATTESTATION

Allocation of CPF funds will not be for the purpose of accommodating new growth, as this is prohibited by State law.

Check box to certify that funds will not be directed for projects for the purpose of accommodating new growth.

Signature: _____

Date: 5/13/21

10. REQUIRED ATTACHMENTS Confirm that the following required documents are attached to this application:

- Photos of existing conditions
- Location Map
- State Environmental Quality Review Act (SEORA) Long or Short Environmental Assessment Form (EAF)
<https://www.dec.ny.gov/permits/6191.html>
- Completed EPA Spreadsheet Tool for Evaluating Pollutant Load (STEPL)
<https://www.epa.gov/nps/spreadsheet-tool-estimating-pollutant-loads-step1> or similar standardized methodology (describe)
- Project budget (see attached template)
- Ownership commitment is provided via letter of intent (LOI) for non-municipal owners or municipal resolution for municipal owners

11. OTHER ATTACHMENTS

List other attachments provided, including cost estimates, bids, plans, documentation of matching funds, and other as appropriate to demonstrate project readiness, quality, feasibility, and cost effectiveness



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BUDGET PROPOSAL

PLANNING/ENGINEERING/DESIGN	Town CPF Request	Matching Funds Committed	Matching Funds Pending	Estimated Total Project Costs
Task 1-	\$-	\$-	\$-	\$-
Task 2-	\$-	\$-	\$-	\$-
Task 3-	\$-	\$-	\$-	\$-
Task 4-	\$-	\$-	\$-	\$-
Task 5-	\$-	\$-	\$-	\$-
Task 6-	\$-	\$-	\$-	\$-
	\$-	\$-	\$-	\$-
Planning/Engineering/Design Cost Total	\$-	\$-	\$-	\$-

Contractual Services				
	\$-	\$-	\$-	\$-
	\$-	\$-	\$-	\$-
	\$-	\$-	\$-	\$-
	\$-	\$-	\$-	\$-
	\$-	\$-	\$-	\$-
	\$-	\$-	\$-	\$-
	\$-	\$-	\$-	\$-
	\$-	\$-	\$-	\$-
Contractual Services Cost Total	\$-	\$-	\$-	\$-

Construction & Site Improvements				
	\$-	\$-	\$-	\$-
	\$-	\$-	\$-	\$-
	\$-	\$-	\$-	\$-
	\$-	\$-	\$-	\$-
	\$-	\$-	\$-	\$-
	\$-	\$-	\$-	\$-
	\$-	\$-	\$-	\$-
	\$-	\$-	\$-	\$-
Construction & Site Improvements Cost Total	\$-	\$-	\$-	\$-



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COMMUNITY PRESERVATION FUND (CPF) WATER QUALITY IMPROVEMENT PROGRAM LETTER OF INTENT

APPLICANT'S INFORMATION

Owner: _____

Contact First and Last Name: _____

Contact Address: _____

Contact Phone: _____

Contact Email: _____

CONTRACT RECIPIANT INFORMATION

Name/Organization: _____

Contact Person/Officer: _____

Contact Address: _____

Contact Phone: _____

Contact Email: _____

PROJECT INFORMATION

Project Title: _____

Project Location: _____

Project Description (1-3 sentences): _____

ANTICIPATED PROJECT TIMELINE

Begin: _____

Complete: _____

Notes: _____

**TOWN OF SOUTHAMPTON COMMUNITY PRESERVATION FUND
WATER QUALITY IMPROVEMENT PROGRAM**

**ATTACHMENT 1
SUPPLEMENTAL NARRATIVES**

**VILLAGE OF SOUTHAMPTON
NUGENT LANE BIOSWALE**

PROJECT SUMMARY:

Bioswale infrastructure will be installed at 71 Nugent Street to treat stormwater that would otherwise flow directly to Lake Agawam through existing infrastructure. All technologies will conform to the NYSDEC Stormwater Management Design Manual and, where necessary, will be enhanced to improve pre-treatment and inlet control as well as outlet control. Eastern Long Island native plants will be used. The bioswale will be designed to reduce discharges of pollutants from stormwater runoff into Lake Agawam.

3. PROJECT DESCRIPTION

3a. Existing conditions of applicable groundwater/sub-watershed/waterbody and most recent and relevant data available (provide sources).

Lake Agawam appears on the NYS List of TMDL waters. NYSDEC reports that Harmful Algal Blooms (HABs) have been confirmed with High Toxins every year from 2013-2020. NYSDEC PWL and TMDL listings as well as the Lake Agawam Comprehensive Management Plan (CMP) (2009) and Lake Agawam Harmful Algal Bloom Action Plan (2020) identify stormwater runoff as a key contributor of the excess nutrients that have led to hypereutrophic conditions and past fish kills. The CMP and HAB plan recommend that the Village identify all possible land opportunities for recharge facilities in the watershed including rain gardens where feasible.

3b. How the proposed solution addresses the issue in the context of Reduction, Remediation and/or Restoration as per the CPF Water Quality Project Plan. Note all remediation and restoration projects must assure that reduction measures are also addressed.

At the intersection of Nugent Street and Windmill Lane is a Village-owned open space with existing infrastructure pipes running along Windmill Lane adjacent to the open space. Currently these pipes convey untreated stormwater to Agawam Lake. The project plan is to expose the storm drain running along Windmill Lane at the north end of the open space by connecting in two to three 12" PVC pipes into the side of the existing culvert and adding in a diversion weir within the existing culvert to divert the stormwater into the smaller pipes. In large flows, the low volume of stormwater will be directed into the diversion pipes, allowing the large flow to continue along the existing culvert. The diversion pipes will direct stormwater into the open space on the north end of property with a riprap outlet. The outlet will direct the flow into a long bio-swale that will switch back and forth to the south adjacent to the sidewalk along Windmill Lane and reconnecting into an outlet similarly configured to redirect the flow back into the culvert.

The bio-swale will have an engineered soil mix placed within the length of the swale and protected with rock at key locations. The swale will sway in the landscape to create a long

meandering stream effect to slow and treat the water as it travels through. Check dams made of Envirolok® bags will be placed every 6” in vertical height down the swale to slow down and back up the water for further treatment.

For larger rain events, stormwater that overtops the check dams will be hardened to allow flow but not allow erosion. No hard structures will be placed into the open space and the bio-swale will provide opportunities for both cleaning and infiltration of the stormwater from the culvert.

3c. Describe the proposed technology and its demonstrated efficacy in similar settings. May include published data.

Bioretention systems are often referred to by a variety of names such as bioinfiltration areas, biofilters, rain gardens, bioswales, or recharge gardens, and are recognized by the NYSDEC and other agencies as practices that are very effective at removing pollutants and reducing stormwater runoff. Properly designed bioretention practices mimic natural ecosystems through species diversity, density and distribution of vegetation, and the use of native species. This allows for the bioretention system to be resistant to insects, disease, pollution, and climatic stresses.

3d. How the project supports Town of Southampton, Suffolk County, NYSDEC, Long Island Nitrogen Action Plan (LINAP) or other adopted goals/policies (provide references with pages numbers).

Town of Southampton Water Quality Improvement Project Plan¹

The plan indicates that stormwater collection/abatement initiatives meet State Law Chapter 551 definition of “water quality improvement project” and “wastewater treatment improvement project.” Stormwater Best Management Practices and treatment fall within the category of mitigation initiatives for nitrogen pollution (p. 21). Agawam Lake is shown in the Plan as being situated in a High Priority area. See attached map.

Lake Agawam Harmful Algal Blooms Action Plan (2020)²:

The proposed project is listed as a Priority 1 initiative on page 33 under item 6, “7b. - Examine Village/Town owned land opportunities for recharge facilities such as Windmill Lane and Nugent Street; the west side of Windmill Lane; and north of Bowden Square.”

Long Island South Shore Estuary Reserve Comprehensive Management Plan (SSER CMP)³

The NYSDEC Priority Waterbodies List (PWL) indicates that the waterbody is included within the South Shore Estuary Reserve (SSER). The SSER CMP is an element of the LI Nitrogen Action Plan. The project is supported by SSER implementation action 1-1: *Construction of stormwater abatement projects in significant nonpoint source contributing areas associated with closed shellfish beds, impaired living resources, and bathing beaches that experience periodic closures due to water quality concerns.*

¹ <https://www.southamptontownny.gov/DocumentCenter/View/7318/Water-Quality-Improvement-Plan-CPF-Referendum-PDF?bidId=>

² https://www.dec.ny.gov/docs/water_pdf/habapagawam.pdf

³ <https://www.dos.ny.gov/opd/sser/pdf/Full%20CMP%20Document.pdf>

Long Island Nitrogen Action Plan⁴

The project aligns with stormwater management options outlined in the Action Plan scope, which discusses the benefits of bioretention on page 31, Section 6.13,

Suffolk County Subwatershed Plan⁵

Agawam Lake is discussed as a water body that has experienced freshwater Harmful Algal Blooms (HABs), and is indicated as a Priority 1 subwatershed for nitrogen reduction via wastewater management (p. 2-74). While the Village is actively investigating wastewater management options relating to onsite septic systems, stormwater inputs are a near-term action that will improve water quality.

The Lake Agawam Comprehensive Management Plan (CMP)⁶

The plan supports this project under recommendation 7, *“Intercept and recharge stormwater runoff in higher elevations of the watershed,”* (page 22) and 7b, *“Examine Village/Town owned land opportunities for recharge facilities such as Windmill Lane and Nugent Street,”* (page 22).

Village-wide Water Quality Improvement Project Plan (in process)

In May 2021 the Village retained the firm Nelson, Pope & Voorhis to prepare a village-wide Water Quality Improvement Project Plan. This plan will synthesize information provided in the above-listed plans and other relevant reports, and supplement these with further analyses and updates required to assemble a prioritized list of water quality projects for the entire Village. The Village will self-fund this new plan as its matching share for this proposal. Given that the Nugent Street project is a longstanding priority and specifically supported by existing plans, it is expected to also be supported by the Village-wide plan, when completed. The new plan will provide a roadmap to inform Village leadership decision-making on future investments and grant applications for water quality initiatives.

4. WATER QUALITY BENEFIT

4a. Identify Nitrogen, Pathogen or Pollutant of Concern (POC) including Existing Condition and Target Reduction.

POC reduction estimates were prepared by the Village Engineering firm and use the 2013 Watershed Treatment Model by the Center for Watershed Protection. This is an approved methodology by NYSDEC. Reductions in POCs have been modeled as follows:

TP: 1/3 LBS/YEAR

TN: 10.9 LBS/YEAR

TSS: 598 LBS/YEAR

FECAL COLIFORM: 407 BILLION/YEAR

4b. Describe plans for collecting and reporting on water quality over time.

The Village will continue to work with Dr. Gobler of the NYS Center for Clean Water Technology for ongoing water quality monitoring.

⁴ https://www.dec.ny.gov/docs/water_pdf/linapscope.pdf

⁵ <https://suffolkcountyny.gov/Portals/0/formsdocs/planning/CEQ/2020/RevisedComplete%20SWP2-21-20.pdf>

⁶ <http://lakeagawam.com>

4c. Indicate useful life of proposed technology (must meet or exceed five years).

The expected useful life of the proposed improvements is 20+ years.

5. COST FACTORS

5a. Explain how you have confirmed that the proposed budget is reasonable, appropriate and necessary. If available, provide third party estimates or other documentation of how costs were determined.

Village consulting engineer Nelson, Pope & Voorhis has prepared the watershed analysis, conceptual design, cost estimate and pollutant load reduction estimate for this project, and will be responsible for all remaining design tasks. CVs of representative personnel are attached. The project cost is estimated per the consulting engineer's estimate (attached) which was prepared using knowledge of current market conditions. No extraneous or unnecessary costs are included in the budget.

5b. Describe any matching funds to be provided.

In May 2021 the Village retained its consulting engineering firm Nelson, Pope & Voorhis to prepare a village-wide Water Quality Improvement Project Plan. This plan will synthesize information from prior planning projects and other reports and provide a prioritized list of water quality projects for the entire Village. The Village will self-fund this new plan as its matching share for this proposal. Given that the Nugent Street project is a longstanding priority and specifically supported by existing plans, it is expected to also be supported by the Village-wide plan, when completed. The new plan will provide a roadmap to inform Village decision-making on future investments and grant applications for water quality initiatives.

The cost of the study is \$17,500 as shown in the application attachments.

5c. Explain: i. Why project cannot proceed and intended benefits cannot be achieved without external funding. ii. if funds are awarded at a lower level than requested, or if there are cost overruns, explain how the project will proceed.

The Village has invested substantial funding to complete numerous stormwater remediation and other water quality improvement initiatives throughout the Village over the past 10+ years. It is also currently working toward design and engineering for a sewer district. Because its funding needs far outweigh available local resources, the Village has attempted to leverage SCWQPRP, Community Preservation Fund (CPF), NYS, local, and other sources whenever possible. If funds are not awarded by CPF, or are awarded at a lower level than requested, the project may be delayed while funding for the balance of the project budget is identified.

Cost overruns are not anticipated. This is because the Village's consulting engineer has carefully designed the project and prepared a detailed budget estimate. Project management by the Village Superintendent of Public Works will include careful monitoring of field conditions to proactively address projected cost overruns by modifying the design as necessary to stay within funding limitations. Significant overruns or design changes will be discussed with the CPF program leadership in advance to ensure conformance with terms of a funding award.

6. MANAGEMENT, EXPERIENCE, ABILITY

6a. Describe applicant's experience in completing similar projects.

Gary Goleski, Superintendent of Public Works, will perform the role of Project Manager. He has a degree in Public Sector Management from Cornell University and has been with the Village for more than 25 years. His educational and experiential background make him well qualified to oversee successful implementation of the proposed project.

Under Mr. Goleski's direction, the Village has successfully administered several prior CPF and SCWQPRP grant awards in compliance with Town and County requirements.

Design services are provided by the firm Nelson, Pope & Voohis (NPV). Curricula Vitae of project staff are provided with the application attachments.

6b. Describe community support or opposition to project. If there is opposition, explain how this is to be addressed.

The Village community is supportive of projects that will improve the health of Lake Agawam and lead to HAB reduction. No opposition is noted.

6c. Describe any permits needed and time frame/status of approvals. If permits are approved, indicate same.

No permits are required.

The parcel at 71 Nugent Street was purchased with CPF funds. The Village Superintendent of Public Works has verified that the proposed work is allowable under the CPF statute.

7. MAINTENANCE, MONITORING, EVALUATION

Estimate ongoing maintenance costs and explain how these will be supported. Explain stewardship and monitoring activities planned for ensuring sustainability of the project.

Maintenance is required to sustain the function and viability of the green infrastructure practice. Frequency of maintenance will be monthly in the first year after installation, then bi-monthly maintenance in year two, and three times annually from year three and beyond. The following is recommended for long-term maintenance.

Village Inspections: As part of routine Village of Southampton infrastructure maintenance, the Village will inspect the project annually to ensure their functionality. Bio-infiltration and bio-retention basins are considered functional if no standing water is present 24-48 hours after a rainfall event, pretreatment chambers are operational, no erosion is present, minimal weeds are present, and plants are well-established. Maintenance activities may include:

A. Pre-Treatment Chamber Inlet: Inspect pre-treatment chamber inlet periodically and remove debris from the grate surface as needed (an estimated 3-4 times per year). Remove any sediment that makes it into the rain garden.

B. Mulch: Inspect mulch coverage annually and add double shredded hardwood mulch in order to maintain an average 3" layer. Adequate mulch coverage will suppress weeds and ensure adequate moisture availability for plants. Once plants are established and the mulch is not visible, mulch replenishment can be stopped.

C. Edging: Inspect the edging every spring for damage, including edging that has lifted up from the freeze/thaw cycle. If the edging has lifted, remove a few inches of soil underneath and reinstall the edging. The top of the edging must be flush with the grass to minimize potential damage during lawn maintenance and to ensure that runoff can enter the rain garden from a maximum amount of area, depending on the design of the individual rain garden.

D. Watering: During the first growing season, add a minimum of 1" of water per week if no rainfall occurs. This amount should be adjusted based on observed plant stress. Once established, rain gardens generally do not require any water unless several weeks have passed without rain.

E. Weeding: Weeding must be performed a minimum 3 times a growing season during the first three seasons. Weeding may be increased to monthly to maintain the desired appearance.

F. Replacement Plants: Replace plants as needed to maintain intended plant coverage within the rain garden. Use plant species from the approved rain garden plan. If a large percentage of plants require replacement, contact the Village to help determine the cause and to develop a replacement planting plan.

G. Pest Maintenance: If severe pest damage is noted, contact the Village for more information.

8. DURATION OF PROJECT

8a. Provide a projected project timeline.

The following timeline will commence as of the date of contract execution with the Town. Some modification of the construction timeline may occur depending on weather conditions.

Task 1: Execute Contract with Town CPF

Task 1 Description: Grant contract with Town CPF will be executed prior to commencing work.

Task 1 Deliverable: Executed contract

Task 2: Project Site Survey

Task 2 Description: Conduct project site surveys in coordination with Village staff and consultant.

Task 2 Deliverable: Base map for project site

Anticipated Completion Date for Task 2: Within two weeks after Task 1 completion.

Task 3: Test soils and Identify Local Utilities

Task 3 Description: Test soils, mark out utilities, update model pollutant load modeling based on soils data, prepare final conceptual plan, update cost estimates. Obtain Village approval of cost estimates.

Task 3 Deliverables: Soils data, final concept plan, pollutant load modeling, updated cost estimates. Village approval for final conceptual plans and cost estimates.

Anticipated Completion Date for Task 3: One month after surveys are complete.

Task 4: Final Design and Cost Estimates

Task 4 Description: Prepare final construction document design and cost estimates.

Task 4 Deliverables: Final construction documents and cost estimates.

Anticipated Completion Date for Task 4: One month after soil testing and final conceptual plans are created.

Task 5: Construction and Inspection

Task 5 Description: Schedule construction from the approved contractor proposals. Village and Village consultant will inspect construction as it is being built.

Task 5 Deliverables: Construction procurement documentation, construction administration documentation, completed bio-swales.

Anticipated Completion Date for Task 5: six months from completion of Task 1.

Task 6: Monitoring/Operations and Maintenance Plans

Task 6 Description: Schedule monitoring observations for long-term maintenance and functionality of project.

Task 6 Deliverables: Monitoring schedule to assess function of the bio-swales and address any required maintenance.

Anticipated Completion Date for Task 6: One month from completion of construction.

Task 7: Village-wide Water Quality Improvement Project Plan

Task 7 Description: The Village has retained a qualified consultant to prepare a village-wide water quality improvement project plan.

Task 7 Deliverables: Completed plan.

Anticipated Completion Date for Task 7: The project was authorized May 2021 and is expected to be complete by September 2021.

Task 8: Project Close-out

Task 8 Description: Provide all project reporting and documentation to Town for reimbursement.

Task 8 Deliverables: Final report including reimbursement documentation.

Anticipated Completion Date for Task 8: One month from completion of monitoring schedule.

8b. If project is multi-year or phased, provide a breakdown of budget and milestones for each year and phase.

N/A

Supporting Documentation

Resolution

SEQRA

Engineer's Cost Estimate

Water Quality Improvement Project Plan Cost (Matching Share)

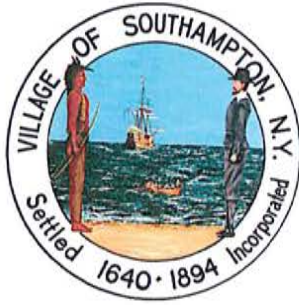
Consultant Qualifications

Location Map

CPF WQIPP Priority Area Map

Photos of Existing Conditions

Conceptual Plan (includes Pollutant Load Reduction Estimate)



Village of Southampton

23 MAIN STREET
SOUTHAMPTON, NEW YORK 11968-4899

Phone: (631) 283-0247
Fax: (631) 283-4990
Website: www.southamptonvillage.org

Resolution 2021-18

Information: Approve the 2021 Town of Southampton Community Preservation Fund Water Quality Improvement Program application to support the Construction of a Bio-Swale at 71 Nugent Street.

Department:	Village Hall	Sponsors:
Category:	Resolutions	Functions:

Financial Impact


Body

RESOLVED, that the Village of Southampton hereby authorizes the Mayor or his designee to execute any and all documents pertaining to the 2021 Town of Southampton Community Preservation Fund Water Quality Improvement Program application to support estimated project costs associated with construction of a Bio-Swale at 71 Nugent Street.

Voting

Motioned: Mayor Warren
Seconded: Trustee Arresta
All in favor: Mayor Warren, Trustee Arresta, Trustee McLoughlin, Trustee Parash, Trustee Pilaro.
Y: Five
N: None
A: None
N/A:

Certified By:



Charlene G. Kagel-Betts CPA, CGMA
Administrator, Village of Southampton



Office of the Village Planner
55 Main Street,
Sag Harbor, NY 11963



NELSON, POPE & VOORHIS, LLC

ENVIRONMENTAL • PLANNING • CONSULTING
572 WALT WHITMAN ROAD, MELVILLE, NY 11747 - 2188
(631) 427-5665 FAX (631) 427-5620
www.nelsonpopevoorhis.com

To: Gary J. Goleski, Superintendent DPW
Village of Southampton
From: Charles J. Voorhis, CEP, AICP
Date: December 3, 2019
Re: Green Infrastructure Grant Submission to Suffolk County
Village Bioswale Grant Application
SEQRA Review

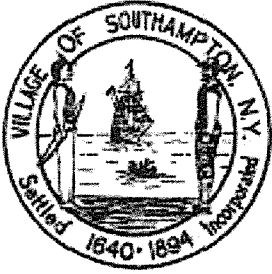
We have reviewed the grant application to the Suffolk County Water Quality Protection and Restoration Program for the proposed Village Bioswale Grant Application green infrastructure practices at Old Town Pond and for two (2) projects in the Lake Agawam watershed, and have consulted the Type II Actions List contained in 6 NYCRR Part 617.5 State Environmental Quality Review. Based on this review we find that the proposed initiatives may be classified as a Type II Action under SEQRA based on the §617.5(c)(3) category cited below:

- 617.5(c)(3): *“retrofit of an existing structure and its appurtenant areas to incorporate green infrastructure.”*

Type II Actions are those actions that have been determined not to have a significant impact on the environment and are thus not subject to further review under SEQRA.

It is recommended that the resolution authorizing the submission of this grant application include language which acknowledges that the action has been reviewed pursuant to SEQRA and has been classified a Type II Action.

Please feel free to contact me if you have any questions.



Village of Southampton

23 MAIN STREET
SOUTHAMPTON, NEW YORK 11968-4899

Phone: (631) 283-0247

Fax: (631) 283-4990

Website: www.southamptonvillage.org

email: info@southamptonvillage.org

VILLAGE ADMINISTRATOR
RUSSELL A. KRATOVILLE

BUILDING INSPECTOR
CHRISTOPHER M. TALBOT

MAYOR
JESSE M. WARREN

TRUSTEES
KIMBERLY ALLAN
MARK PARASH
ANDREW C. PILARO
RICHARD W. YASTRZEMSKI

STATE OF NEW YORK)

ss: .

COUNTY OF SUFFOLK)

This is to certify that the following is a true, accurate, and complete copy of a resolution which was adopted by the Board of Trustees of the Village of Southampton on December 3, 2019. The original of this resolution is on file in the Clerk's office in Village Hall, 23 Main Street, Southampton, N.Y. 11968.

WHEREAS, the Suffolk County Water Quality Protection and Restoration Program (WQPRP) provides grant funding on a competitive basis for water quality projects defined in Article 12 Section 2(B) of the Suffolk County Charter; and

WHEREAS, Lake Agawam is included on the current (2016) and draft 2018 NYS Section 303(d) List of Impaired/TMDL Waters; and

WHEREAS, the Village of Southampton has an interest in improving and protecting water quality in the various water bodies of the Village, including but not limited to Lake Agawam; and

WHEREAS, the Village of Southampton intends to submit a proposal to the Suffolk County WQPRP Review Committee, which has established a deadline of December 6, 2019 for proposals; and

WHEREAS, the proposed project will provide for design and development of rain gardens and related drainage system improvements in the Agawam Lake watershed, specifically at Bowden Square, Windmill Lane and Linden Lane; and

WHEREAS, the proposed project will reduce the flow of pollutants of concern to Lake Agawam and is supported by the Lake Agawam Comprehensive Management Plan; and

WHEREAS, the Suffolk County WQPRP program provides grant funding in support of selected projects, and requires 50% matching share; and

WHEREAS, the Village will submit a grant application to the WQPRP program in the approximate amount of \$93,920 for an anticipated total project cost \$187,840; and

WHEREAS, the County grant is reimbursement based up to the grant award amount;

NOW, THEREFORE, BE IT RESOLVED, that the Village Board of the Village of Southampton hereby states its support of the Lake Agawam Watershed Rain Gardens Project; and be it further

RESOLVED that the Village will support the required minimum 50% matching funds toward the total project cost supported by the Suffolk County WQPRP, should the project receive funding approval from the County, anticipated to be \$93,920; and be it further

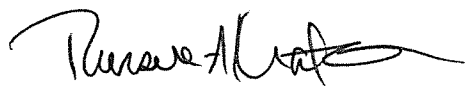
RESOLVED, that the Village will be responsible for funding any project costs incurred above the County grant amount; and be it further

RESOLVED, the proposed project is classified as a Type 2 Action pursuant to §617.5(c)(3) which states: “(2) retrofit of an existing structure and its appurtenant areas to incorporate green infrastructure;” and as such, no Environmental Assessment Form or State Environmental Quality Review Act (SEQRA) Determination of significance is necessary and no further review under SEQRA is required; and be it further

RESOLVED, the that Village Board authorizes the Mayor or his designee to sign any and all necessary documents pertaining to the project, including but not limited to an intermunicipal agreement, subject to review and approval of the Village Attorney, to participate in the above referenced program

On the motion of Mayor Warren and seconded by Trustee Yastrzemski, the resolution was approved: Ayes 3 Nays 0 Absent 2.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of the Village of Southampton this 4th day of December, 2019.



Russell A Kratoville
Village Administrator
Incorporated Village of Southampton

Short Environmental Assessment Form

Part 1 - Project Information


Instructions for Completing

Part 1 – Project Information. The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

Part 1 – Project and Sponsor Information			
Name of Action or Project: Nugent Street Bioswale			
Project Location (describe, and attach a location map): 71 Nugent Street, Southampton NY			
Brief Description of Proposed Action: Bioswale infrastructure will be installed at 71 Nugent Street to treat stormwater that would otherwise flow directly to Lake Agawam through existing infrastructure. All technologies will conform to the NYSDEC Stormwater Management Design Manual and, where necessary, will be enhanced to improve pre-treatment and inlet control as well as outlet control. Long Island native plants will be used. The bioswale will be designed to reduce discharges of pollutants from stormwater runoff into Lake Agawam.			
Name of Applicant or Sponsor: Village of Southampton		Telephone: 631-283-0247	
Address: 23 Main Street		E-Mail: ggoleski@southamptonvillage.org	
City/PO: Southampton		State: NY	Zip Code: 11968
1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.			NO <input type="checkbox"/>
2. Does the proposed action require a permit, approval or funding from any other government Agency? If Yes, list agency(s) name and permit or approval: No permits. Funding is requested from Town of Southampton CPF			YES <input checked="" type="checkbox"/>
3. a. Total acreage of the site of the proposed action? _____ 0.60 acres b. Total acreage to be physically disturbed? _____ 0.55 acres c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? _____ 0.60 acres Village road system			
4. Check all land uses that occur on, are adjoining or near the proposed action: <input type="checkbox"/> Urban <input type="checkbox"/> Rural (non-agriculture) <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Commercial <input checked="" type="checkbox"/> Residential (suburban) <input type="checkbox"/> Forest <input type="checkbox"/> Agriculture <input type="checkbox"/> Aquatic <input checked="" type="checkbox"/> Other(Specify): Institutional <input type="checkbox"/> Parkland			

5. Is the proposed action, a. A permitted use under the zoning regulations?	NO	YES	N/A
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Consistent with the adopted comprehensive plan?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Is the proposed action consistent with the predominant character of the existing built or natural landscape?	NO	YES	
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area? If Yes, identify: _____	NO	YES	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
8. a. Will the proposed action result in a substantial increase in traffic above present levels? b. Are public transportation services available at or near the site of the proposed action? c. Are any pedestrian accommodations or bicycle routes available on or near the site of the proposed action?	NO	YES	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
9. Does the proposed action meet or exceed the state energy code requirements? If the proposed action will exceed requirements, describe design features and technologies: N/A - project is a bioswale (green infrastructure) installation; no energy will be used other than for construction. _____	NO	YES	
	N/A		<input type="checkbox"/>
10. Will the proposed action connect to an existing public/private water supply? If No, describe method for providing potable water: _____ N/A - project is a bioswale (green infrastructure) installation; no water supply will be used other than temporary irrigation from a water truck (if needed) during establishment of plantings. _____	NO	YES	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11. Will the proposed action connect to existing wastewater utilities? If No, describe method for providing wastewater treatment: _____ N/A - project is a bioswale (green infrastructure) installation; no wastewater will be generated. _____	NO	YES	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12. a. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places? b. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?	NO	YES	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency? b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody? If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: _____ _____ _____	NO	YES	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply:		
<input type="checkbox"/> Shoreline <input type="checkbox"/> Forest <input type="checkbox"/> Agricultural/grasslands <input type="checkbox"/> Early mid-successional <input type="checkbox"/> Wetland <input type="checkbox"/> Urban <input checked="" type="checkbox"/> Suburban		
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered?	NO	YES
	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16. Is the project site located in the 100-year flood plan?	NO	YES
	<input checked="" type="checkbox"/>	<input type="checkbox"/>
17. Will the proposed action create storm water discharge, either from point or non-point sources? If Yes, a. Will storm water discharges flow to adjacent properties? b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)? If Yes, briefly describe: _____	NO	YES
	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Bio-swale infrastructure will be installed to divert stormwater from an existing conveyance system and add detention and treatment. Stormwater will be returned to the conveyance system post-detention/treatment.		
18. Does the proposed action include construction or other activities that would result in the impoundment of water or other liquids (e.g., retention pond, waste lagoon, dam)? If Yes, explain the purpose and size of the impoundment: _____	NO	YES
	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Bio-swale infrastructure will be installed to divert stormwater from an existing conveyance system and add detention and treatment. Stormwater will be returned to the conveyance system post-detention/treatment.		
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility? If Yes, describe: _____	NO	YES
	<input checked="" type="checkbox"/>	<input type="checkbox"/>
20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste? If Yes, describe: _____	NO	YES
	<input type="checkbox"/>	<input type="checkbox"/>
Unknown at this time		
I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE Applicant/sponsor/name: <u>Village of Southampton/Charles J. Voorhis, Agent</u> Date: <u>May 10, 2021</u> Signature: <u></u> Title: <u>Village Environmental Consultant</u>		

PRELIMINARY ENGINEER'S ESTIMATE
 FOR
VILLAGE SOUTHAMPTON NUGENT STREET BIOSWALE
 May 2021
 N&P No. XXX



71 NUGENT

ITEM No.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL
1	WORK ZONE TRAFFIC	LS	1	\$12,000.00	\$12,000.00
2	MOBILIZATION	LS	1	\$12,000.00	\$12,000.00
3	UNCLASSIFIED EXCAVATION	CY	750	\$90.00	\$67,500.00
4	12" DIAMETER PVC RIGID PIPE - STUMPS	LF	75	\$40.00	\$3,000.00
5	12" DIAMETER PVC COVERS	EA	5	\$20.00	\$100.00
6	CONNECTIONS TO EXISTING DRAINAGE FACILITIES	EA	2	\$500.00	\$1,000.00
7	4 FOOT DIAMETER MANHOLE	EA	2	\$4,500.00	\$9,000.00
8	ROCK - RIP RAP	TON	10	\$600.00	\$6,000.00
9	ENVIROLOK BAGS	EA	40	\$8.00	\$320.00
10	PERENNIALS	1 Gal.	1400	\$30.00	\$42,000.00
11	SHRUBS	3 Gal.	100	\$75.00	\$7,500.00
12	PLANT DELIVERY	Trip	1	\$300.00	\$300.00
13	MULCH	CY	44	\$45.00	\$1,980.00
TOTAL					\$162,700.00
ENGINEERING AND DESIGN FEE					\$25,000.00
TOTAL					\$187,700.00



February 26, 2021

Mayor Jesse Warren
Village of Southampton
55 Main Street
Southampton, NY 11968

**Re: Village Water Quality Improvement Project Plan
Proposal for Professional Services**

Dear Mayor Warren:

We are pleased to be afforded the opportunity to present this proposal for a Village Water Quality Improvement Project Plan (WQIPP).

A WQIPP is important for water quality protection in the Village. Such plans create a list of water quality related projects to improve the quality of groundwater and surface water to provide a healthier and more sustainable environment.

A WQIPP is also an important document for project prioritization and to assist in seeking funding sources for project implementation. NPV prepared the WQIPP for the Village of Sag Harbor, and since preparation, over \$2 MM in Community Preservation Fund (CPF) funding has been received for water quality improvement projects based on the plan.

We appreciate the opportunity to provide this proposal for preparation of a WQIPP for the Village of Southampton. Attached, please find Exhibit A which provides the scope of services and cost to prepare the plan. Per your request, I reviewed the scope and modified the proposal in such a way as to reduce the cost by about half of the original proposal.

Please review and feel free to call should you have any questions.

Respectfully submitted,

NELSON, POPE & VOORHIS, LLC

Charles J. Voorhis, CEP, AICP
Partner

ACCEPTED AND APPROVED:

BY: _____ DATE: _____
(Please sign and return one with retainer)

EXHIBIT A
VILLAGE WATER QUALITY IMPROVEMENT PROJECT PLAN (WQIPP)
SCOPE AND COST OF SERVICES

1) Water Quality Improvement Project Plan – prepare a Village-wide Water Quality Improvement Project Plan (WQIPP) based on the following outline:

- 1.0 Introduction
 - 1.1 Purpose and Need
 - 1.2 Integration with Town of Southampton CPF Program
 - 1.3 Town of Southampton WQIPP
- 2.0 Village of Southampton Water Resource Protection
 - 2.1 Village Comprehensive Plan
 - 2.2 Village Regulations
 - 2.3 Consistency with Prior Plans
- 3.0 Physical Characteristics and Natural Resources
 - 3.1 Topography
 - 3.2 Water Resources
 - 3.3 Water Quality Issues/Standards
 - 3.4 Depth to Groundwater
 - 3.5 Groundwater Time of Travel Zones
 - 3.6 Wetlands and Surface Waters
- 4.0 Zoning, Land Use and Groundwater Management Zones
- 5.0 Infrastructure
 - 5.1 Stormwater Systems
 - 5.2 Water Supply
 - 5.3 Village Wastewater Treatment Initiatives (from existing H2M report)
- 6.0 Analysis and Opportunities
 - 6.1 Water Quality Improvement Methods
 - 6.2 Field Inventory and Analysis
 - 6.2 Issues/Opportunities for Water Quality Improvements
- 7.0 Recommendations
 - 7.1 Stormwater Management
 - 7.2 Groundwater Management (include Roux Old Town project)
 - 7.3 Wastewater Management (from existing H2M report)
 - 7.4 Other Legislative, Policy and Implementation Recommendations
- 8.0 Action Plan
 - 8.1 Prioritization
 - 8.2 Implementation
- 9.0 Summary and Conclusion

Budget: \$17,500.00

2) Meetings, Conference Calls, Presentations – if requested, attend Village Board meetings; prepare meeting presentation materials on a time rate basis using approved Village rate schedule.

Title

Managing Partner of Firm, Nelson, Pope & Voorhis, LLC; Melville, New York

Education & Training

- SUNY at Stony Brook; Master of Science in Environmental Engineering, concentration in Water Resource Management, 1984
- Princeton Associates; Groundwater Pollution and Hydrology Short Course, Princeton, New Jersey, 1983
- New York State Health Department, Environmental Health Training Course, Hauppauge, New York, 1982
- Southampton College of Long Island University; Bachelor of Science in Environmental Geology, 1977
- OSHA 10-Hour Construction Industry Training
-

Professional Affiliations, Certifications & Training

- American Planning Association, Washington, D.C.
- National Association of Environmental Professionals, Alexandria, VA
- Environmental Assessment Association, Scottsdale, Arizona
- American Water Resources Association, Syracuse, New York
- New York Water Pollution Control Association, Riverdale, NY
- Water Pollution Control Federation, Washington, D.C.
- Long Island Seaport & EcoCenter, Inc., Director, Port Jefferson, NY
- Boy Scouts of America, Trained Scoutmaster, Nathaniel Woodhull District,
- Historical Society of Port Jefferson, Trustee, Port Jefferson, NY
- Environmental Conservation Board, Village of Port Jefferson, NY
- Port Jefferson Village, Waterfront Advisory Committee, Port Jefferson, NY
- Town of Brookhaven Mount Sinai Harbor Advisory Committee, Medford, NY
- Brookhaven Conservation Advisory Council, Medford, NY

Professional Experience

Charles Voorhis is a professional planner (AICP) and a certified environmental professional (CEP) with both private sector and public sector experience. Mr. Voorhis has managed municipal projects including regional and local planning studies, wetlands and shoreline restoration, environmental impact statements, permit compliance and environmental analysis. Charles Voorhis has over 39 years of professional environmental planning experience, including the position of Director of Environmental Protection of the Town of Brookhaven, supervising the environmental implementation of the Town of Brookhaven Comprehensive Plan Update and secured grants under the Local Waterfront Revitalization Program. As a private consultant for over 23 years, Mr. Voorhis has managed environmental planning and analysis of large scale planning and development projects throughout Nassau and Suffolk Counties. Recent projects include a study to eradicate aquatic invasive/nuisance species in upper and lower Canaan Lakes, Yaphank, stormwater management studies on the north and south shores for the Town of Brookhaven and Town of Islip, completion of the Water Supply Management & Watershed Protection Strategy for the Town of Southold, completion of the Suffolk County North Shore Embayments Watershed Management Plan, and completion of the Lake Agawam Comprehensive Management Plan, as well as numerous environmental impact statements, wetland and shoreline feasibility analyses and management plans.

Project Experience

- Great Cove Watershed Management Plan, 2011
- Town of Southold Comprehensive Plan Update, Economic Chapter, 2010
- Beaver Dam Creek Watershed Management Plan, 2009
- Lake Agawam Comprehensive Management Plan, 2009
- Southold TDR Planning Report and GEIS, 2008
- The Residences at North Hills, DEIS and FEIS, 2005-06
- Town of Southold Comprehensive Implementation Strategy, 2003
- Southampton Agricultural Opportunities Subdivision, DEIS, FEIS and Findings, 2001
- Old Orchard Woods, DEIS and FEIS, 2000
- Town of Smithtown Armory Park, DEIS, 2000
- Town of Southold Water Supply Management & Water Protection Strategy, 2000
- Knightsbridge Gardens, DEIS and FEIS, 1997
- Camelot Village @ Huntington, DEIS, 1997
- Airport International Plaza, DEIS and FEIS, 1996
- Price Club @ New Rochelle, DEIS and FEIS, 1995
- Commack Campus Park @ Commack DEIS and FEIS, 1994
- Water Mill Shops @ Water Mill DEIS, 1993
- Town of Brookhaven Land Use Plan, 1987

Rusty Schmidt



Title

Landscape Ecologist

Education & Training

- University of MN at Twin Cities, Masters Degree in Landscape Architecture, 2000
- University of MN at Duluth, Bachelor of Science Biology, Art and Chemistry, 1993
- Certified Professional in Erosion and Sediment Control (CPESC)
- Certified Wetland Delineator from University of MN Qualifications.

Professional Affiliations, Certifications & Training

- MN American Society of Landscape Architects.
- MN Stormwater Assessments and Maintenance with the St. Anthony Falls Research Center.
- Invasive Plant Sub-Committee, Town of Huntington.
- Board Member, Long Island Native Plant Initiative
- LI Horticultural Society.

Professional Experience

Prior to becoming a Long Island resident, Mr. Schmidt was a Landscape Ecologist with the Washington Conservation District in Minnesota where he designed and built over 100 projects dedicated to improving water quality annually. Prior to the District, Mr. Schmidt conducted EIS, wetland delineations, wetland restoration and alternative storm water designs and, site planning for new and renovated developments and habitat restorations for URS Corporation.

Mr. Schmidt is a wildlife biologist and landscape ecologist with over 20 years of natural resource experience. Mr. Schmidt has expertise in designing and constructing alternative methods for managing storm water runoff in an environmentally conscious way. He has created designs for habitat restorations, raingardens, bio-infiltration swales, bio-retention basins and stormwater ponds for many different sized sites and locations ranging from small backyard raingardens to a large 500-foot long raingarden for a commercial property.

Mr. Schmidt has assisted in the design of raingardens, such as the “10,000 Rain Garden Initiative” in Kansas City, Missouri and the Metro Blooms and Blue Thumb Programs in Minnesota. Mr. Schmidt is a co-author of three books on plant selections for stormwater management applications entitled, “Plants for Stormwater Design” Volumes 1 and 2, and the “Blue Thumb Guide to Raingardens”.

Project Experience

- Over 1,000 Infiltration and Green Infiltration Systems have been designed and built of various sizes throughout the US.
- Raingarden Projects on public land from design through construction and maintenance for the cities of Burnsville, Maplewood, Bloomington, Plymouth, Arden Hills and Minnetonka MN.
- Commercial infiltration projects for IKEA, Target, USPS, Stillwater Country Club, various religious institutions, colleges and universities.
- Green Initiative Report for the city of Minneapolis, MN, determining where to implement city’s green initiatives, such as green roofs, raingardens, bio-infiltration practices and pervious pavements.
- Cliff Fen Park, Burnsville, MN, designed and implemented a project to improve water quality by restoring a historic wetland using surface water that bypassed the area.
- MAC (Minnesota Airport Commission) Storm Water Pond, Minneapolis, MN. The MSP Airport directed stormwater to a low land area. A restoration plan and a 40 acre stormwater pond facility for treatment was created.
- Sergeant’s Lake Project, Minneapolis, MN created a floodplain forest wetland along the Mississippi River for the MAC.
- Wetland Delineations at multiple locations throughout the Midwest and the State of Virginia.

Ashley Crespo



Title

Assistant Landscape Ecologist

Education & Training

- Bachelor of Arts Degree in Architecture and Earth Science (double major), Landscape Studies (minor), University of Pennsylvania, 2017

Computer Skills

- Proficient in AutoCAD and SketchUp, GIS
- Proficient in Adobe Creative Suite (Illustrator, Photoshop, InDesign, Lightroom)
- Proficient in Autodesk Revit, Rhino, Grasshopper, Rhino VRay,
- Experience in 3D printing (MakerBot and Powder Prints)
- Experience in Laser Cutting

Language Skills

- Fluent in Spanish

Professional Experience

Ashley Crespo holds a Bachelor of Arts Degree with a double major in Architecture and Earth Science, and a minor in Landscape Studies and has recently joined NP&V. Ms. Crespo contributes professional planning and graphic expertise for NP&V's sustainable landscape design services. Her skills are used to bring redevelopment concepts to life creating 3D views, photo simulations, and shadow studies. Ms. Crespo integrates the existing environment and proposed landscaping with the built environment through site analysis, model making and preparation of graphic illustrations. Ms. Crespo has created rain garden designs and wetland buffer restorations ranging in size and location from small backyard gardens to a large 700-foot long median. She also designs promotional, educational and environmental signage for raingardens, solar arrays, parks and institutional properties.

Ms. Crespo regularly assists with environmental monitoring visits focusing on habitat composition, delineation and field assessments for a variety of terrestrial and marine habitats across Long Island.

Relevant Experience

- **Asst. Landscape Ecologist, Nelson, Pope & Voorhis, LLC, Melville NY:**
 - Ecological and Environmental Analysis
 - Southern Pine Beetle Surveys
 - Preparation of ecological sections of EIS documents
 - Wetland Restoration Plan Design and Review:
 - Lake Agawam Restoration Plan
 - The Meadows Restoration Plan
 - Environmental Signage:
 - Ronkonkoma Train Station Rain Garden Signage
 - Manorhaven Park and Preserve
 - Shadow Studies and Visual Assessment:
 - New Rochelle Downtown Overlay Zone
 - Village of Woodsburgh Planning and Zoning Analysis
 - 2016 Arthur Ave CEQR EAS
- **Architectural Intern, N2Design and Architecture (Pt Washington, NY):** Daily tasks included drafting, expediting contract administration responsibilities, and site surveys. Ms. Crespo was also responsible for the set up of all construction drawings for the current projects, as well as the input of all redline changes and revisions.
- **Summer Institute Intern, NYC Parks and Recreation (NYC, NY):** Through the NYC Parks Initiative, she worked with a group of teenagers who were interested in sustainable design. She was responsible for creating and teaching weekly lessons that explored the local landscape and human dynamics through site analysis, model making, graphic presentations and SketchUp tutorials.
- **Soil Biogeochemistry Research Assistant, University of Pennsylvania (Philadelphia, PA):** Assisted with the processing and packaging of soil samples from the Luquillo CZO plot in Puerto Rico to be analyzed by the Carbon-Nitrogen elemental analyzer. In summer, partnered with the US Forest Service to conduct soil pit extractions in the Delaware River Basin.



NELSON & POPE
ENGINEERS & SURVEYORS

Russell Z. Scott, P.E.

Transportation & Municipal Site Department

Education:

BSCE, Rensselaer
Polytechnic Institute

Registration/Certifications:

Professional Engineer:
New York

Certified Nuclear
Moisture/Density
Equipment Operator

Years with This Firm: 17

Affiliations:

American Society of Civil
Engineers (ASCE)

New York State
Association of
Transportation Engineers
(NYSATE)

Continuing Education

Coursework:

Designing and
Implementing
Roundabouts

University of Wisconsin at
Madison (2007)

Work Zone Safety
Inspection, National
Highway Institute (2001)

Techniques for Pavement
Rehabilitation,
ASCE/FHWA (2002)

Roadside Design, ASCE
(2003)

Certificate in Traffic
Engineering, Polytechnic
University (2006)

Professional Profile

Mr. Scott has 17 years' experience in traffic engineering and civil engineering fields. His responsibilities have included the project management of various traffic signal and roadway projects for the New York State Department of Transportation, Nassau County Department of Public Works, Suffolk County Department of Public Works, private development clients, local Towns and Villages. Tasks have included conceptual layout, alignment computations, drainage design, traffic signal design, grading design and quantity take-off and estimating.

Experience:

Town of Islip

Streetscape Improvement Projects, Town of Islip

Mr. Scott is project manager for this streetscape improvement contracts that encompasses three projects for the downtown revitalization along NY27A in which N&P is to provide Final Design Plans and obtain a New York State Department of Transportation Highway Work Permit.

Nassau County Department of Public Works

Long Island Motor Parkway Mixed-Use Trail

Project Manager for the Motor Parkway Trail Vision Plan, an initiative to restore and enhance important transportation connections through Nassau County and adapting to new environmentally-friendly and healthy forms of transportation.

Town of Brookhaven

Stony Brook Road Traffic Improvements

Project Manager overseeing the necessary engineering services for the implementation of traffic improvements along Stony Brook Road, from North Country Road (NYS 25A) to Smithtown Bypass (NYS 347), excluding the area between Development Drive and Oxhead Road, approximately 10,000 feet)

North County Road Complete Streets Miller Place, NY

Project Manager for this design and construction inspection services safety improvement project that encompasses a one-mile segment of North Country Road between Honey Lane and Rolling Road, in the hamlet of Miller Place.

Governor's Office of Storm Recovery Projects (GOSR)

Project Manager for Master Drainage Study projects awarded to Nelson and Pope under NY Rising Community Reconstruction Program of the Governor's Office of Storm Recovery. They included the following:

- Survey, inventory, and drainage infrastructure upgrade plan for the Bellmore/Merrick and Seaford/Wantagh South of Merrick road outfalls, storm

drains and bulkhead in the Town of Hempstead.

- Development of a comprehensive drainage infrastructure master plan for the Village of Lindenhurst
- Prepare a Hydrologic and Hydraulic (H&H) drainage improvement study and plan to gain a watershed understanding of the hydrology and hydraulics affecting the Village of East Rockaway and the Hamlet of Bay Park in the Town of Hempstead.

Roundabout Design

**Locations: Lower Sheep Pasture Road Intersections, Town of Brookhaven
NYS Route 9A, Village of Ardsley, Town of Greenburgh**

N&P was retained by the Town of Brookhaven to analyze and develop modern roundabout designs for two STOP controlled intersections on Lower Sheep Pasture Road in Setauket and a major signalized intersection on NYS Route 9A for the Town of Greenburgh's Ridgehill Study/Roadway Improvement Project. Mr. Scott assisted in this project which included capacity analysis utilizing VISSIM software; conceptual design; topographic survey and mapping; community outreach; preliminary and final design; construction inspection & support services and construction survey stakeout.

Town of Brookhaven

Mastic Beach Municipal Parking Lot

Project Manager for this Town of Brookhaven Department of Housing and Human Services project for the preparation of decorative lighting plans and sidewalk for the parking lot in compliance with Town Code and the Illuminating Engineering Society of North America standards. Plans included the electrical distribution system and connection to LIPA's system for service. N&P also prepared landscaping plans for trees, shrubs, and grass at the perimeter of the parking lot and at interior islands and provided construction phase services.

Town of Brookhaven Aquatic Center Parking Lot, Mastic Beach

Project Manager for this Town of Brookhaven Department of Housing and Human Services project which includes the construction of a new parking lot. Project components include survey and mapping; construction plans, bid specifications; bid review and award assistance and construction inspection.

Multi-Use Court at Town of Brookhaven Aquatic Center, Mastic Beach

Project Manager for this Town of Brookhaven Department of Housing and Human Services project for a multi-purpose court. Project components include topographic surveying and mapping; construction plans; bid review and award assistance and construction inspection.

Municipal Parking Lot on Broadway, Rocky Point

Project Manager for this Town of Brookhaven Department of Housing and Human Services project which includes soil borings; survey and mapping; detailed design and construction plans; bid specifications and assistance with award; grant application and construction inspection.

Traffic Signal/Pedestrian Improvements at Neighborhood Road @ Mastic Road and Bayview Drive @ Cranberry Drive, Mastic Beach

Project Manager for this Town of Brookhaven Department of Housing and Human Services project which includes survey and mapping; traffic signal plans; intersection improvement plans; pavement marking & signing plans; cost estimates; bid specifications; bid review and award assistance.

Shore Road Stormwater Infrastructure Improvements, Mt. Sinai

Project Manager for this NYSDOT grant funded project to progress stormwater infrastructure improvements along Shore Road between Mt. Sinai-Coram Road and Rocky Hill Road in Mt. Sinai. The project area is adversely impacted by stormwater runoff and by erosion of Shore Road where it borders Mt. Sinai Harbor. The goal of the project is to provide working solutions through green infrastructure stormwater management practices and shoreline stabilization using a combination of structural and natural techniques in order to establish a more appropriate and functional interface between the natural resources of Mt. Sinai Harbor and the transportation linkage provided by Shore Road. The overall project is expected to have significant benefits in reducing pollutant load to Mt. Sinai Harbor, and will improve aesthetics and function of the existing road infrastructure.

Energy Efficient Street Lighting Study – Town of Brookhaven

Project Manager for the study of potential energy efficient street lighting alternatives to the existing high pressure sodium (HPS) and low pressure sodium (LPS) street light fixtures being used throughout the Town. The objective of the study was to compare the life-cycle cost over a 20-year period for each type of technology versus the current. The life cycle cost included the initial capital cost, as well as applicable yearly energy and maintenance costs.

Amagansett Drive Storm Drainage

Design Engineer for this project which involved studying and improving the storm drainage facilities in the vicinity of Amagansett Drive in the Sound Beach area. The study consisted of defining tributary areas and different alternatives for water quality treatment of stormwater runoff. This project also included the design of water quality drainage devices, slope stabilization of an existing washed out bluff, and outfall protection, preparation of construction documents, procuring NYSDEC permits, and assisting the Town of Brookhaven during the bid phase.

West Meadow Creek Stormwater Management for Various Roadways

Design Engineer on this project which involved stormwater mitigation improvements for a tributary area of approximately 24 acres in the Old Stony Brook area. This

project entailed the design and preparation of mitigation plans which included water quality drainage design, roadway demolition and restoration, erosion control plans and details, procurement of NYSDEC permits, and assisting the Town of Brookhaven during the bid phase.

Town of Islip

Connetquot Stormwater Project

Project Manager for this Town of Islip project for design of stormwater and road improvements on Middlesex Avenue between Shore Avenue and east to the street end at Grand Canal in Oakdale. The streets in this area experience flooding during significant rainfall events making it difficult for residents to access their properties. N&P identified and developed alternatives to address the storm water quantity/quality issues. Project components included survey and mapping; test holes; drainage investigation; environmental permitting; preparation of conceptual plans; detailed design & construction plans; bid specifications and bid award assistance.

Suffolk County

Improvements at the Intersections of CR 51 @ CR 94 and CR 63 @ CR 104/NYS 24, Riverhead, Suffolk County

Mr. Scott provided engineering assistance for the initial three concepts on this Suffolk County Department of Public Works intersection improvement project which entails the reconfiguration of the existing traffic circle into a modern roundabout along with other related traffic improvements. He is now serving as the Project Manager to develop additional concept, perform additional analysis and will progress the preliminary and final design. The project will entail analyzing traffic counts and data, creating and applying growth factors to the traffic data and, using VISSIM software, determining the lane configurations needed to achieve an acceptable level of service for a modern roundabout in an effort to address traffic congestion and safety concerns in the downtown Riverhead area.

Town of Oyster Bay

Syosset Streetscape & Walkability Improvement Project

Nelson & Pope has been retained by the Town of Oyster Bay for a project to improve pedestrian walkability, accessibility and safety in the heavily congested downtown Syosset commercial area. Mr. Scott served as the Project Manager for this TEP project which included the preparation of the Design Approval Document, design of new pedestrian crosswalks and upgrade of existing pedestrian crossings; installation of decorative pavers at pedestrian crossings; creation of pedestrian safe havens; installation of decorative lighting; creation of green spaces through the planting of street trees and planters; replacement of large areas of concrete sidewalk with

decorative paving stones and the installation of benches, trash receptacles & directional signage.

Massapequa Park Drainage, Massapequa

Mr. Scott was a project engineer involved in the study and design of drainage improvements for Park Avenue located in the Village of Massapequa. A range of alternatives was developed in an effort to reduce the volume of runoff diverted to the Village street network at Park Lane/ Pennsylvania Avenue. The project also consisted of the design and preparation of the roadway improvement plans which included roadway plan and profile sheets, along with the preparation of detailed construction quantity takeoff and construction bid documents.

Colony Lane Area Roadway Improvements, Syosset

This project entailed the study of existing storm drainage systems, topographic survey of existing conditions and a comprehensive design report for approximately eight miles of Town owned roadways in Syosset along with three Nassau County owned recharge basins. Mr. Scott's tasks include organizing and coordinating the field personnel in collection of storm drainage system as-built information, creating a drainage study plan, developing a preliminary design for drainage improvements, analysis of existing recharge basins, preparation of a comprehensive design report including description of typical existing roadway features and conditions and identification of non-standard or deficient design elements. Also included in the report are alternative solutions and recommendations to address deficiencies in the existing drainage system and roadway construction.

Town of Hempstead

Coes Neck Park, Baldwin

Mr. Scott was Project Manager for this project which entailed the preparation of contract drawings, bid documents and engineering cost estimate for Coes Neck Park. Project components included sports field layouts (handball, tennis, basketball), electrical service analysis and upgrades, surveying and mapping, lighting and other miscellaneous site improvements.

Bedford Avenue Area Drainage and Roadway Improvements, Hempstead

The project entailed the study and analysis of the existing drainage system within a mile of a residential neighborhood in conjunction with the development of a project design report and preparation of contract documents and specifications. Mr. Scott's responsibilities included analyzing the existing drainage system to determine the need for modifications, generating new roadway profiles to improve storm drainage flow and determining the amount of restoration necessary outside the roadway section.

Bay Drive Area Drainage and Roadway Improvements, Hempstead

This project entailed the study and analysis of the existing drainage system within a residential neighborhood in conjunction with the development of a project design report that described existing conditions such as geometry, pavement condition, traffic control devices, etc. Mr. Scott's tasks included analyzing the existing drainage system to ascertain any necessary modifications, generating new roadway profiles to improve storm drainage flow, developing an improved centerline profile, preparing construction plans, contract documents and specifications.

Town of Islip

Connetquot Stormwater Project

Mr. Scott was Project Manager for this Town of Islip project to implement storm water and road improvements on Middlesex Avenue between Shore Avenue and east to the street end at Grand Canal in Oakdale. The streets in this area experience flooding during significant rainfall events making it difficult for residents to access their properties. N&P identified and developed alternatives to address the storm water quantity/quality issues. Project components included survey and mapping; test holes; drainage investigation; environmental permitting; preparation of conceptual plans; detailed design & construction plans; bid specifications and bid award assistance.

Nassau County

Meadow Lane/Marbridge Road Flooding Mitigation

Mr. Scott was Project Manager for this Nassau County Department of Public Works project which entailed performing a detailed investigation and report for recommendations to mitigate significant flooding conditions on Meadow Lane in the vicinity of Marbridge Road in Lawrence which occurred during storm events. The Meadow Lane/Marbridge Road/Causeway Road drainage area is located in the Incorporated Village of Lawrence in the vicinity of the Lawrence Golf Club and Bannister Creek, which discharges into Reynolds Channel near the Atlantic Beach Bridge. N&P inventoried the existing drainage system within the project limits and identified potential drainage issues, and subsequently developed and evaluated feasible corrective alternatives including related costs and implementation requirements and constraints.

New York State Department of Transportation

Various Roadway Improvement Plans for NYSDOT, Nassau and Suffolk Counties

Mr. Scott's responsibilities included various design tasks including typical sections, MPT details, pavement widening, traffic signal plans, grading, pavement markings and drainage. He was also responsible for the preparation of plans in AutoCAD.

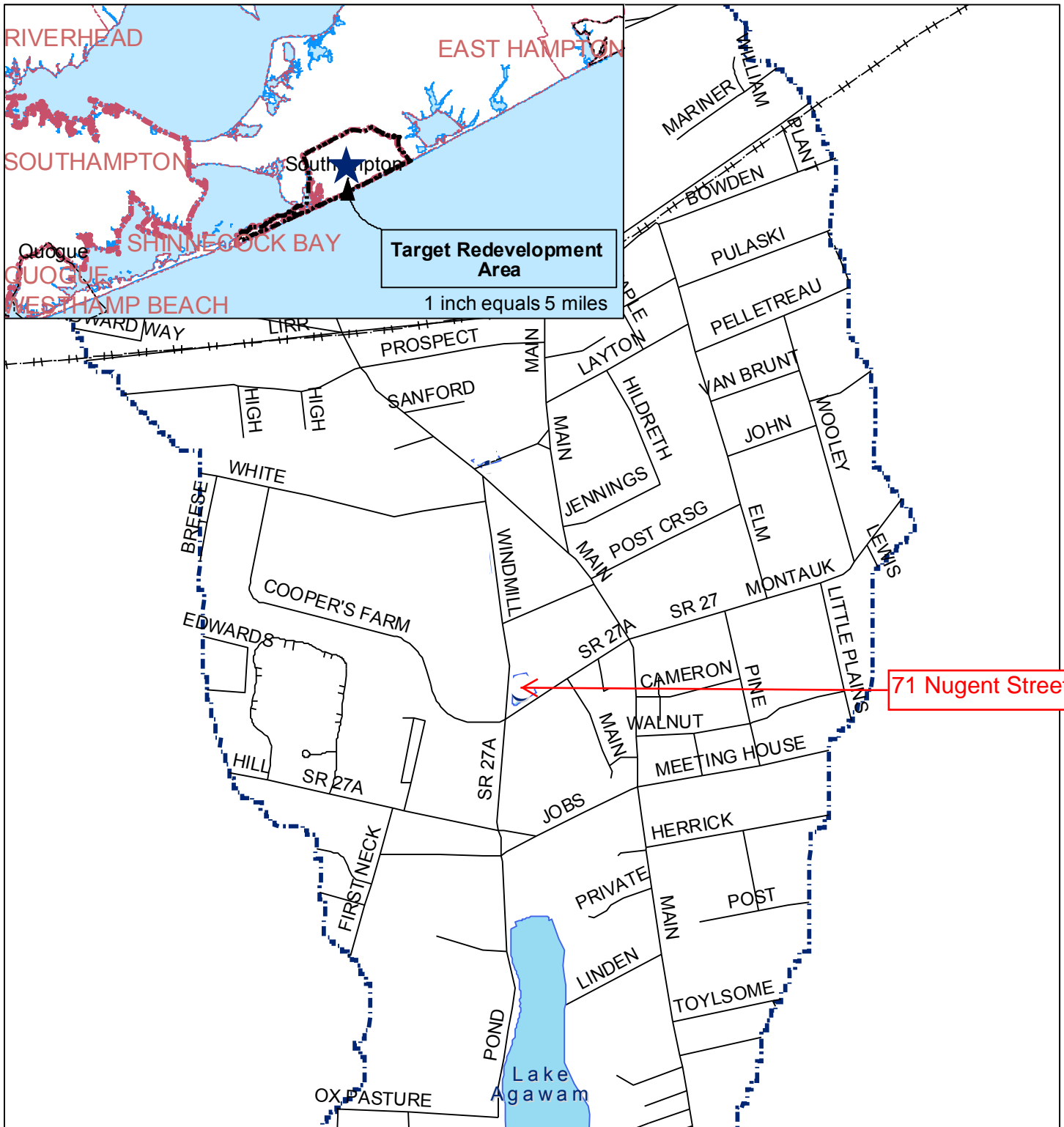
**Various SCDPW, NCDPW and Town Roadway Improvement Permit Plans,
Nassau and Suffolk Counties**

Mr. Scott was involved with the preparation and design of traffic signal and traffic signal modification plans for private developers and municipalities in Suffolk County.

**Traffic Signal Projects, Various Locations
(NYSDOT, Nassau County, Suffolk County, Town of Brookhaven)**

These projects include the design of traffic signals from modifications to existing traffic signals to completely new traffic signals throughout Long Island. Mr. Scott's tasks include developing construction plans illustrating the proposed improvements with appropriate State, County or Town item numbers and details, including the location of traffic signal poles, pedestrian signal poles, pullboxes, detector loops, proper signal head placement, sizing of steel conduit, wiring diagrams, spacing diagrams, sequence diagrams. Traffic signal as-builts were prepared once the construction of the traffic signal was complete.

VILLAGE OF SOUTHAMPTON DOWNTOWN AREA



Legend

- Lake Agawam
- Roads
- Town Boundary
- Lake Agawam Watershed
- Village of Southampton

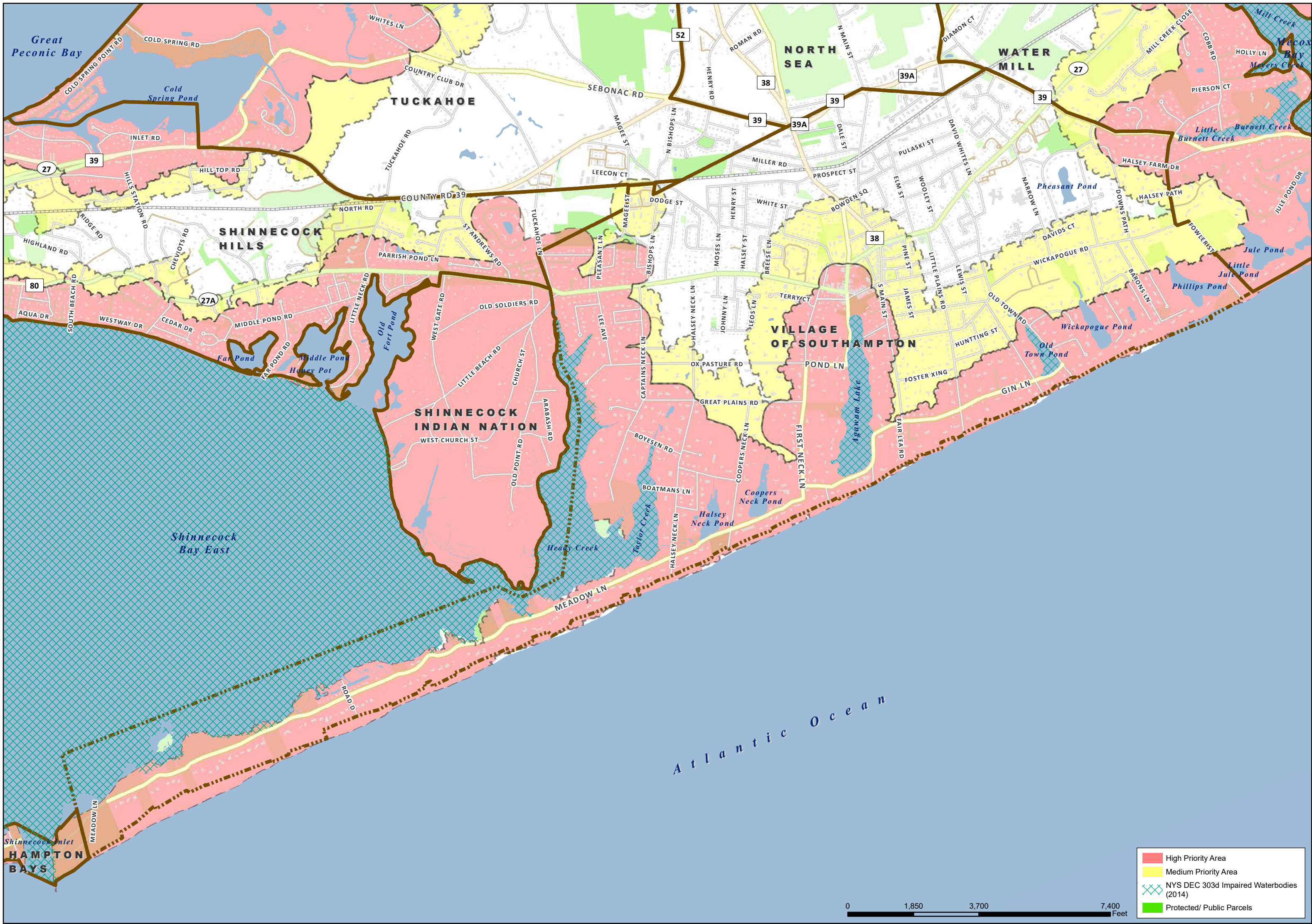


FIGURE 1 LOCATION MAP

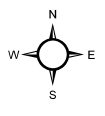
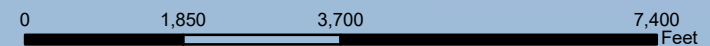
Source: Village of Southampton GIS
NPV GIS Library
Scale: 1 inch equals 1,000 feet



Village of Southampton



	High Priority Area
	Medium Priority Area
	NYS DEC 303d Impaired Waterbodies (2014)
	Protected/ Public Parcels



Town of Southampton CPF Water Quality Improvement Project Plan

VILLAGE OF SOUTHAMPTON

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Prepared By: The Town of Southampton Dept of Geographic Information Systems Date: 7/5/2016 - MAP ID: 2514



Village of Southampton Nugent Street Bioswale

Existing Conditions

Existing Conditions



