



Village of Southampton

Town of Southampton Community Preservation Fund 2023

Sewer System Design Engineering



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

2023

**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)



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

2023

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

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

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

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

- 303(d) Impaired
- Peconic Estuary Program - [PEP map](#)
- 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.



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

2023

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.



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

2023

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

[Redacted area for response to 4c]

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.

[Redacted area for response to 5a]

5b. Describe any matching funds to be provided.

[Redacted area for response to 5b]

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.

[Redacted area for response to 5c]

6. MANAGEMENT, EXPERIENCE, ABILITY

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

[Redacted area for response to 6a]

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

[Redacted area for response to 6b]

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

[Redacted area for response to 6c]



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

2023

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. Note: The Committee will only make recommendations for shovel-ready projects that can commence this fiscal year.

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 all boxes & sign.

- We certify that funds will not be directed for projects for the purpose of accommodating new growth.
- We understand that progress reports will need to be generated as specified in our Water Quality Improvement Contract AND a final report showing qualitative and/or quantitative data will be generated upon project completion.

Signature: _____

Date: _____

3/13/23

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 (SEQRA) 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
- Public agencies must complete SEQRA on the project and submit determination of significance and associated documentation.

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



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

2023

BUDGET PROPOSAL

Is the applicant a municipality? Yes No
 If yes, please enter the request date or anticipated request date of RFP (Request for Proposals) _____.

| 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 | \$- | \$- | \$- | \$- |



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

2023

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
2023 COMMUNITY PRESERVATION FUND**

**VILLAGE OF SOUTHAMPTON
SEWER SYSTEM DESIGN ENGINEERING
APPLICATION ATTACHMENTS**



INDEX

Attachment 1 – Supplemental Narratives 3
Location / WQIPP Map 14
Design Phase Cost Proposal 15
Consultant Qualifications 28
Environmental Assessment Form 31

Sewer System for the Village of Southampton Engineering Design Report (2022)

Note: Village Board Resolution will be provided under separate cover.

ATTACHMENT 1 SUPPLEMENTAL NARRATIVES

PROJECT OVERVIEW

The Village of Southampton will retain a qualified consultant firm to complete engineering design of the Southampton Village Sewage Collection and Treatment System, which will be comprised of a gravity collection system, submersible sewage pumping station, and sequential batch reactor treatment plant. The proposed sewer service area is projected to include 254 parcels, with associated flow of 198,330 gallons per day (gpd).

The scope of work will encompass subsurface investigation and geotechnical report; topographic survey and utility investigation; preliminary design; permitting and agency approvals; cost estimating, public outreach, stormwater pollution prevention plan; and final design, inclusive of plans and specifications suitable for bidding.

The system will alleviate the environmental impact associated with the deterioration of on-site wastewater systems. The project aligns with Town of Southampton Water Quality Improvement Project Plan goals for nitrogen reduction in high priority areas. Research performed by Dr. Christopher Gobler of the Stony Brook University School of Marine and Atmospheric Sciences found that sewerage would substantially reduce nitrogen loading to Agawam Lake, thereby improving water quality and reducing the incidence and severity of Harmful Algal Blooms.¹ Modeling performed by the Village's consulting engineer determined that sewerage will remove 37,400 pounds of nitrogen annually from sanitary flows.

This request builds on progress to date, which includes:

- The Sewerage Recommendations Report, Map, Plan and Report, and Engineering Design Report have been prepared by the Village's consulting engineer, D&B Engineers & Architects. This work was funded in part by 2021 CPF funds.
- The Village has identified a parcel, at 1 Bowers Lane, that will be used as the site of the sewage treatment facility. Acquisition of this property is currently in process in partnership with the Town of Southampton CPF.
- The Sewage Collection and Treatment System is included on the 2023 NYS Environmental Facilities Corporation Intended Use Plan.

¹ *Quantifying Nitrogen Loading From Southampton Village To Surrounding Water Bodies And Their Mitigation By Creating A Sewer District*. Christopher J. Gobler, Ph.D., Stony Brook University School of Marine and Atmospheric Sciences (February 2017). Accessed at: <https://www.southamptonvillage.org/DocumentCenter/View/188/Lake-Agawam-Water-Quality-Study-Feb-2017PDF>

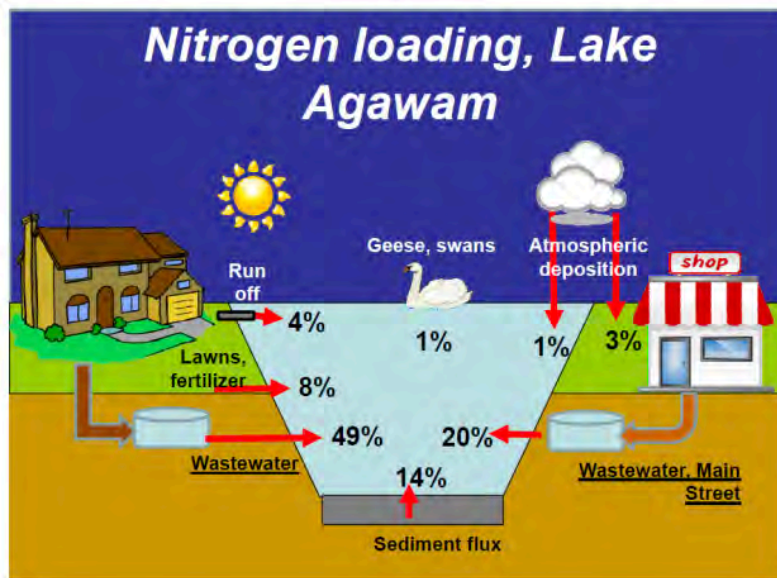
3. PROJECT DESCRIPTION

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

Lake Agawam Water Quality

Lake Agawam is located within the South Shore Estuary Reserve and is included on the 2016 NYS Section 303(d) List of Impaired/TMDL waters.² The Lake Agawam Comprehensive Management Plan (2009) identified groundwater outflows as a key contributor of the excess nutrients that have led to hypereutrophic conditions and past fish kills.³

An analysis prepared by Dr. Christopher Gobler of the Stony Brook University School of Marine and Atmospheric Sciences (SOMAS), titled, “Quantifying Nitrogen Loading to from Southampton Village to Surrounding Water Bodies and their Mitigation by Creating a Sewer District,” (2017) finds that wastewater from sanitary/septic systems is the main source of nitrogen loading entering the Lake Agawam watershed, accounting for an estimated 69% of the total load.¹



Source: SOMAS, 2017

In September 2018, scientists from Stony Brook University reported that a toxic algae bloom in the lake was the densest growth ever recorded in a Long Island water body.⁴ Public health warnings have been issued by the Suffolk County Health Department to urge community members, especially children and pets, to avoid the contaminated water.

² New York State November 2016 Section 303(d) List of Impaired Waters Requiring a TMDL/Other Strategy. https://www.dec.ny.gov/docs/water_pdf/303dListfinal2016.pdf

³ Lake Agawam Comprehensive Management Plan (2009). Accessed at <https://www.southamptonvillage.org/DocumentCenter/View/187/Lake-Agawam-Management-Plan-2009-PDF>

⁴ <http://www.27east.com/news/article.cfm/East-End/570094/Lake-Agawam-Coated-By-Worst-Algae-Bloom-Ever-Recorded-On-Long-Island>

The Lake Agawam Harmful Algal Bloom Action Plan,⁵ adopted April 2020, documents the historic frequency and severity of Harmful Algal Blooms (HABs) from 2013-2019:

| Year | Earliest Sample Date | Latest Sample Date | Average of BGA Chlorophyll | Average of microcystin | Number of Confirmed | Number of Confirmed with High Toxins |
|------|----------------------|--------------------|----------------------------|------------------------|---------------------|--------------------------------------|
| 2013 | 7/15/2013 | 10/8/2013 | 48 | 15 | 6 | 3 |
| 2014 | 5/28/2014 | 10/14/2014 | 52 | 14 | 15 | 3 |
| 2015 | 5/3/2015 | 10/22/2015 | 218 | 56 | 15 | 8 |
| 2016 | 4/27/2016 | 1/5/2017 | 1770 | 150 | 17 | 11 |
| 2017 | 5/8/2017 | 12/26/2017 | 270 | 70 | 15 | 17 |
| 2018 | 5/7/2018 | 10/16/2018 | 4492 | 316 | 7 | 17 |
| 2019 | 6/17/19 | 10/30/19 | 1086 | 1090 | 18 | 18 |

In 2020, the NYSDEC recorded 28 reports of HABs, the highest annual count to date. One HAB was reported in 2021 and one in 2022.⁶

The following photos depict existing conditions of the lake.



⁵ https://www.dec.ny.gov/docs/water_pdf/habapagawam.pdf

⁶ https://www.dec.ny.gov/docs/water_pdf/habsarchive2020.pdf



Toxic blue-green algae in Lake Agawam

- Highest and most consistent presence of *microcystin* of any lake in NYS (NYSDEC); carcinogenic, aerosolized, lethal to pets, fish kills, threat to ocean bathers.
- Two decades of research has identified **excessive nitrogen pollution** from onsite septic systems as the prime driver of algae and toxins in Lake Agawam.
- According to the **2020 HABs Action Plan by NYSDEC**, reducing nitrogen loads into the lake will lessen the intensity of blooms and the toxicity of blooms.



Existing Conditions, Lake Agawam. Source: Dr. Christopher Gobler.

Village Sewer System Planning

Planning for the Sewer System began more than a decade ago. Relevant plans and studies that highlight the need for sewerage for water quality and community sustainability purposes include:

- *Village Center Vision Plan (2009)*⁷
- *Southampton Village Center Zoning & Architectural Design Guidelines (2013)*⁸
- *Map and Plan for the Formation of the Inc. Village of Southampton Sewer System (2015)*
- *Sewer Systems Alternatives Analysis Report for the Village of Southampton (2020)*
- *2022 Southampton Village Comprehensive Plan Update*⁹

In 2021, the Village retained the firm D&B Engineers and Architects to update previous engineering work and consider various alternatives for a collection, conveyance and treatment system. As of March 2023, the Village has completed a Sewerage Recommendations Report, Map, Plan and Report, and Engineering Design Report (attached). The Engineering Design Report forms the basis of the design engineering tasks that are described in this proposal.

3b. How the proposed solution addresses the issue in the context of Reduction, Remediation and/or Restoration as per the CPF Water Quality Improvement Project Plan (WQIPP).

The project addresses the Reduction element of the WQIPP by supporting the engineering design of a Sewage Collection and Treatment System that will provide better nitrogen removal performance relative to existing onsite systems.

Currently the Village has no centralized sewer collection system. Sewage treatment and disposal consists of on-site sewerage systems situated at each parcel. These systems consist of cesspools that provide solid/liquid separation and leaching and/or septic tanks connected to leaching pipes to allow clarified effluent to seep into the ground. Stony Brook University's (SBU) Nitrogen Loading Model indicates that wastewater from these sanitary on-site septic systems contribute the majority of nitrogen loading to the lake via groundwater flows. The report by Dr. Christopher Gobler of SBU titled, "Quantifying Nitrogen Loading to from Southampton Village to Surrounding Water Bodies and their Mitigation by Creating a Sewer District," determined that wastewater from sanitary/septic systems accounts for 69% of the lake's nitrogen load.

As described in the attached Engineering Design Report, the proposed sewer system is projected to serve 254 parcels in the Agawam watershed area. The system is designed to accommodate a projected flow of 198,330 gallons per day (gpd). The method of sewerage will be a gravity collection system that will convey wastewater flows via a pumping station to a wastewater treatment plant at

⁷ *Southampton Village Vision Plan*. 2008. Ehrenkrantz Eckstut & Kuhn Architects.

<https://www.southamptonvillage.org/DocumentCenter/View/205/Southampton-Village-Center-Vision-Plan-2008>

⁸ *Southampton Village Center Zoning & Architectural Design Guidelines*. 2013. Ehrenkrantz Eckstut & Kuhn Architects. <https://www.southamptonvillage.org/DocumentCenter/View/302/SH-Village-Center-Zoning-and-Architectural-Design-Guidelines-2013>

⁹ <https://www.southamptonvillage.org/DocumentCenter/View/1379/VofSouthampton-Comp-Plan-Adopted---092122>

1 Bowers Lane in Southampton. The treatment technology is a Sequencing Batch Reactor (SBR) biological system which will be followed by a filtration process. Effluent will be discharged via a subsurface discharge field consisting of leaching pools. The existing on-site cesspools and septic tanks will be properly abandoned, and wastewater will be diverted to the treatment facility.

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

The proposed design engineering scope of work for the Village Sewage Collection and Treatment System will encompass subsurface investigation and geotechnical report; topographic survey and utility investigation; preliminary design; permitting and agency approvals; cost estimating, public outreach, stormwater pollution prevention plan; and final design, including preparation of plans and specifications suitable for bidding.

The scope of work is summarized below, and described in greater detail in the attached Design Phase Cost Proposal prepared by D&B Engineers and Architects dated March 2, 2023.

Task 1 – Subsurface Investigation and Geotechnical Report

Deliverable: Geotechnical report and boring data to be included with contract drawings.

Task 2 – Topographic Survey and Utility Investigation

Deliverables: Auto-CAD file with topographic and utility information as well as a Civil 3D surface model and orthophoto.

Task 3 – Preliminary Design

Deliverable: preliminary design package detailing sewer alignment drawings and profiles, pumping station and treatment plant layout and equipment sizing, civil site drawings and general drawings.

Task 4 – Permitting and agency approvals

Deliverables: Permit submittals for State Pollutant Elimination System (SPDES) and Suffolk County Department of Health Services/Sewer Agency; coordination on subsurface design phase for the LIRR crossing at David Whites Lane with Metropolitan Transit Authority Long Island Railroad (LIRR); and utility approvals from Suffolk County Water Authority and PSEG for new service to the STP.

Task 5 – Cost Estimating

Deliverables: Construction cost estimates at 50% and final design phase.

Task 6 – Public Outreach and Funding Support

Deliverables: Participation in public meetings and stakeholder meetings, and provision of technical support for funding applications.

Task 7 – Stormwater Pollution Prevention Plan (SWPPP)

Deliverable: SWPPP in accordance with NYSDEC SPDES General Permits for Stormwater from Construction Activity.

Task 8 – Final Design

Deliverables: contract drawings and specifications and bid package.

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).

Town of Southampton Water Quality Improvement Project Plan (WQIPP)¹⁰

The project supports the goals and objectives of this plan as follows:

- In accordance with State Law Chapter 551, a “wastewater treatment improvement project,” is a “water quality improvement project” that is eligible for CPF funding. Under the statute, “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 [emphasis added].” Therefore, the proposed project is eligible for CPF funding.
- The WQIPP quotes the Suffolk County Comprehensive Water Resources Management Plan (2015), which states that, “nitrogen pollution from septic systems has clearly emerged as the most widespread and least well addressed of the region’s growing list of water pollutants.” The plan goes on to say that “nitrogen loading to watersheds of Southampton must be reduced in order to restore ecological health and maintain drinking water standards.”
- Agawam Lake is located in a WQIPP High Priority area (P. 53). See attached map.

NYS DEC Lake Agawam Harmful Algal Bloom Action Plan (2020)¹¹

The project is specified as a Priority 1 action in this plan, which identifies three primary factors that contribute to HABS in the lake:

- Nitrogen inputs associated with septic system discharge
- Internal loading of legacy nitrogen from in-lake sediments
- Nonpoint source nutrient inputs from the contributing watershed

The plan was developed by an interagency team and local steering committee that worked cooperatively to identify, assess feasibility and costs, and prioritize both in-lake and watershed management strategies aimed at reducing HABS in Lake Agawam. The team consisted of representatives from the NYSDEC, Town of Southampton, Southampton Village, Lake Agawam Conservancy, consultants, residents and stakeholders. The team developed a list of priority actions intended to address watershed inputs that influence in-lake conditions that support HABS. The plan

¹⁰ <https://www.southamptontownny.gov/DocumentCenter/View/7318/Water-Quality-Improvement-Plan-CPF-Referendum-PDF?bidId=>

¹¹ https://www.dec.ny.gov/docs/water_pdf/habapagawam.pdf

offers three prioritized project lists. Priority List 1 indicates projects that could be accomplished within 3-5 years. Establishing a sewer system appears on this list as item #6 (p. 34).

Suffolk County Subwatershed Plan¹²

Lake Agawam 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).

Suffolk County Water Resources Management Plan¹³

The proposed project supports Nitrogen recommendation 1.15, Seek ways to remediate existing nitrogen pollution and its impacts. Recommendation 1.15.a. continue to implement the Harmful Algal Bloom strategy, which in Southampton Village includes creation of a sewer district.

3e. 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.

The project will support the existing level of development and is not for the purpose of accommodating new density. *The Southampton Village Center Zoning & Architectural Design Guidelines (2013)*⁸ were prepared in anticipation that sewerage would be introduced to the Village central business district (VB District) at some time in the future. The zoning changes provided dimensional and parking restrictions to ensure that future development or redevelopment will fit in and be appropriate to the Village's building and architectural traditions.

The sewer system will enable existing businesses to repurpose their spaces for increased wet uses (e.g. restaurants). Limitations of wet uses due to inadequate capacity of onsite systems has been a longstanding concern and an inhibiting factor on the economic sustainability of the downtown area. However these optimized uses do not constitute new density.

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

The Village's consulting engineer prepared the following estimate of nitrogen reduction:

Nitrogen concentration for sanitary sewer used in the design of the sewer system was 70 mg/l as TKN (this is the estimated concentration of the sanitary discharge from each parcel). Effluent concentration following SBR treatment is expected to be between 5 and 8 mg/l. Using the higher value of 8 mg/l the pounds per day removed from the sanitary sewer via the SBR treatment equates

¹² <https://suffolkcountyny.gov/Portals/0/formsdocs/planning/CEQ/2020/RevisedComplete%20SWP2-21-20.pdf>

¹³

<https://www.suffolkcountyny.gov/Portals/0/FormsDocs/Health/EnvironmentalQuality/ComprehensiveWaterResourceManagementPlan/Section%209%20Plan%20Implementation.pdf>

to 37,400 Lbs/year. This value represents the nitrogen removed from the sanitary sewer prior to subsurface discharge.

Removal of 37,400 lbs/year of nitrogen from groundwater flows will substantially improve the quality of Lake Agawam and its surrounding waterbodies. With reduced nitrogen levels, dissolved oxygen will become much more available, reducing the frequency and severity of HABS. Aquatic ecosystems will thrive.

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

The Village will continue to partner with the Stony Brook Center for Clean Water Technology and NYSDEC to monitor water quality in Lake Agawam.

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

The design life for non-mechanical infrastructure (i.e. pipes, manholes, concrete, etc.) is based on a 50-year useful life cycle and the design life for the mechanical components (i.e. pumps, motors, electrical systems) is typically based on a 20-year useful life cycle. However, there are instances when specific mechanical components have expected useful life that is either shorter or longer than the typical 20-year period.

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.

The project budget is based on a detailed and itemized scope of work, schedule and budget for the design of the Village's Sewage Collection and Treatment System prepared by D&B Engineers and Architects. The design fee is below 5% of the estimated construction cost, a figure that is below typical design fees for comparable projects in the current market environment. Please see the attached cost estimate.

5b. Describe any matching funds to be provided.

The following Village investments comprise matching share to this project:

- 2015 *Map and Plan* prepared by H2M: \$65,000.
- 2020 Engineering Report, *Sewer System Alternatives Analysis Report for the Village of Southampton* prepared by H2M: \$40,000.
- 2021 Comprehensive Plan prepared for the Village by BFJ Planning: \$66,000

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.

In addition to planning for formation of a sewer system, the Village has invested substantial funding to complete numerous stormwater remediation and other water quality improvement initiatives over the past 10+ years. 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 is identified.

6. MANAGEMENT, EXPERIENCE, ABILITY

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

Village Administrator Charlene Kagel-Betts, CPA has more than 20 years of experience in municipal finance, and before joining the Village in 2020, worked as Chief Internal Auditor for East Hampton Town, served as the Southampton Town comptroller, and was chief fiscal officer for the Town of Brookhaven. She began her career as an agent for the Internal Revenue Service in New York City, before going into public accounting and government auditing. Leveraging her depth of experience in municipal management and finance, Ms. Kagel-Betts will oversee deliverables and manage the contract with the selected consultant. The Village has successfully administered several prior CPF, Suffolk County and New York State grant awards in compliance with grantor requirements.

Paul Travis is the former Chair of the Southampton Village Planning Commission, and has recently transitioned to a volunteer position as chair the Village Sewer Committee. He will continue to oversee the consultant's work and act as liaison with Village boards and community stakeholders. As a village resident with deep experience and credentials in real estate, public policy and political science, Mr. Travis is well suited to this role. He is the founder and Managing Partner of Washington Square Partners, and over the years has worked with corporations, non-profit institutions and government entities to reconfigure real estate assets and solve land use issues. Since its inception, the firm has been responsible for several major redevelopment initiatives such as Moynihan Station, New York Historical Society, Downtown Brooklyn Redevelopment, Cooper Union, Theatre Row, New York Methodist Hospital and 400 Fifth Avenue. He is also a member of the Urban Land Institute, the oldest and largest network of cross-disciplinary real estate and land use experts in the world.

The Southampton Village Sewer Committee was established by the Village Board of Trustees in February 2021 for the specific purpose of planning and establishing a sewer district in the Village. It is comprised of the Village Administrator and Village residents with relevant financial, legal and land use expertise. The committee will work with the selected consultant and hold regular meetings to advance the project in a timely manner.

D&B Engineers and Architects has been retained for professional engineering design services. The firm has extensive experience and expertise in Sewer Planning and Design projects, including but not limited to:

- Suffolk County Department of Public Works – Suffolk County Sewer District Not. 3 Southwest Sewer District Service Area Expansion Feasibility Study
- Suffolk County Department of Public Works – Planning and Design Services for Carlls River Watershed Sewer Project
- Suffolk County Department of Public Works – Sewering of the Huntington Station Hub
- Town of Brookhaven -- North Bellport Sewer Feasibility Study and Map and Plan
- Village of Ocean Beach -- Sanitary Sewer Collection System Replacement

Robert L. Raab, P.E., BCEE, CCM – Project Director. Mr. Raab has over 40 years of civil and environmental engineering experience, including over two decades as the Commissioner of Public Works/City Engineer for the City of Long Beach, New York. This experience provides him with a unique perspective for managing and delivering public works projects. During his tenure with D&B, Mr. Raab has directed and managed the study, design and construction of many wastewater treatment and collection projects, resulting in an extensive technical understanding of wastewater systems. Through his involvement as Project Director the SCDPW Carlls River Watershed Sewer Project, he was responsible for the preparation of an Engineering Report and Final Design for sanitary sewers in North Babylon, Wyandanch, Deer Park and West Babylon that will connect approximately 2,500 homes to Suffolk County Sewer District No. 3. In addition, Mr. Raab has been involved with several major sewer feasibility projects including the SCDPW Southwest Sewer District No. 3 Expansion Feasibility Study and a comprehensive Sewering Study for the Town of Brookhaven. See attached resume.

Adriana S. Restrepo, P.E. – ENV SP, Project Manager. Ms. Restrepo has over two decades of experience in the planning and design of wastewater projects. She has served as both a Project Manager and design engineer for numerous planning assignments that include gravity sewers, force mains, combined sewer systems, pump stations, and water pollution control plants. Ms. Restrepo leverages her experience to evaluate systems and recommend the most effective solutions for each project. Ms. Restrepo is currently serving as the Project Manager for the Carlls River Watershed Sewer Project and as a Technical Advisor on the Sewering of the Huntington Station Hub and North Bellport. See attached resume.

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 has been noted to date.

The Village has continually engaged the community in the sewer planning process. The Planning Commission held multiple public meetings and hearings in relating to system planning and design.

Extensive community engagement occurred in connection with the Southampton Village Comprehensive Plan Update (2022). The sewer project is a key recommendation supported by the adopted Plan. The Village will continue to engage residents moving forward.

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

The engineering scope of work does not require any permits to proceed. The proposed project scope of work includes all permitting and agency approvals that will be required prior to construction. These include: permit applications for State Pollutant Elimination System (SPDES) and Suffolk County Department of Health Services/Sewer Agency; coordination on subsurface design phase for the LIRR crossing at David Whites Lane with Metropolitan Transit Authority Long Island Railroad (LIRR); and utility approvals from Suffolk County Water Authority and PSEG for new service to the STP.

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.

An operation and maintenance plan is provided as part of the attached Engineering and Design report.

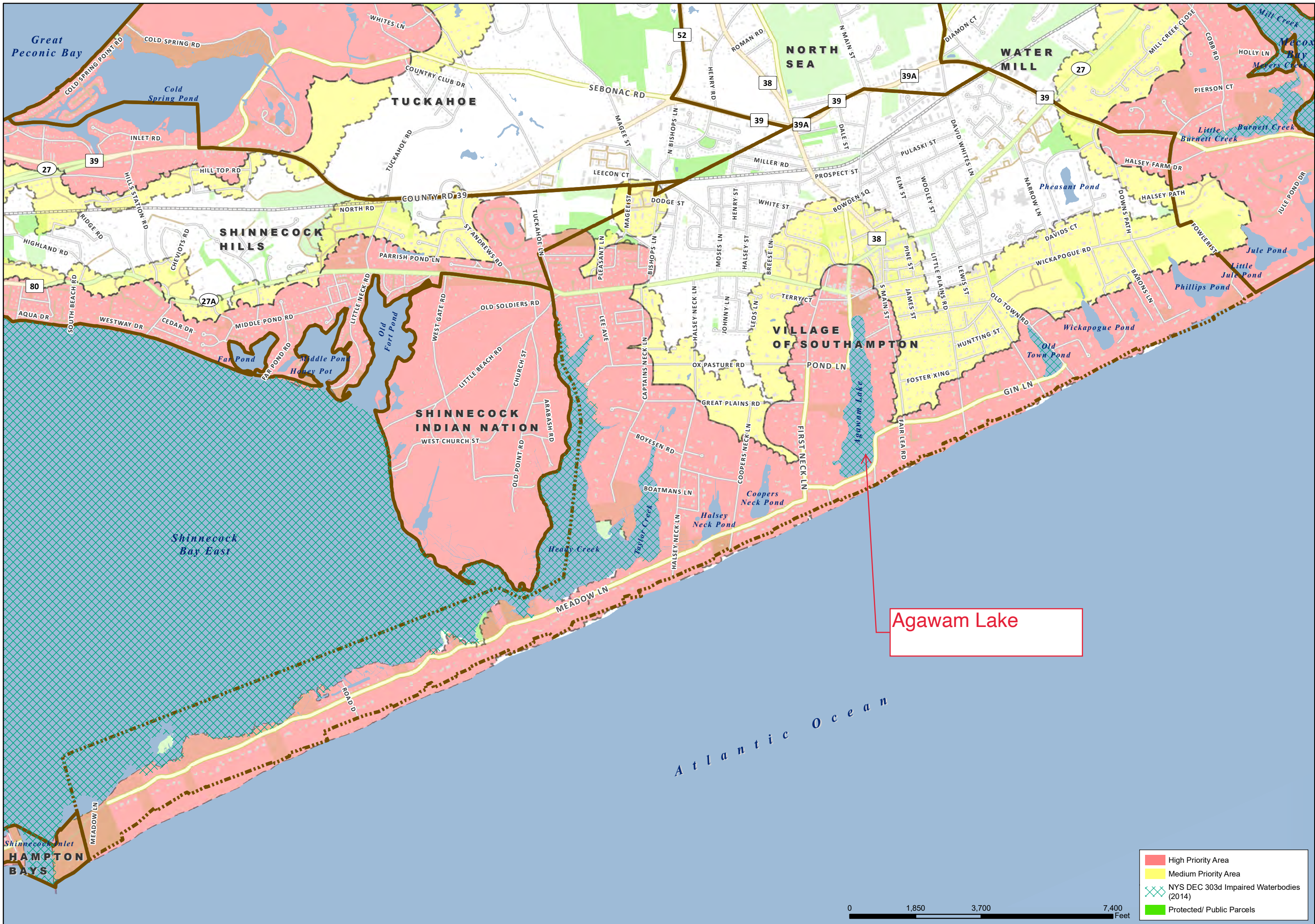
8. DURATION OF PROJECT

8a. Provide a projected project timeline.

The Village estimates that the design engineering phase will begin June 1, 2023, with final bid documents expected in June 2024. A detailed project schedule is included with the attached Design Phase Cost Estimate.

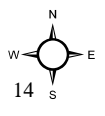
8b. If project is multi-year or phased, provide a breakdown of budget and milestones for each year and phase.

N/A



Town of Southamptton CPF Water Quality Improvement Project Plan

VILLAGE OF SOUTHAMPTTON



Suffolk County Real Property Tax Service
 COPYRIGHT 2016, COUNTY OF SUFFOLK, N.Y.
 This property tax map parcel line work used with permission of
 Suffolk County Real Property Tax Service Agency (R.P.T.S.A.)

Prepared By: The Town of Southamptton Dept of Geographic Information Systems Date: 7/15/2016 - MAP ID: 2514

Principals

Steven A. Fangmann, P.E., BCEE
President & Chairman

William D. Merklin, P.E.
Executive Vice President

Robert L. Raab, P.E., BCEE, CCM
Senior Vice President

Joseph H. Marturano
Senior Vice President

March 2, 2023

Charlene G. Kagel-Betts, CPA CGMA
Village Administrator
Village of Southampton
23 Main Street
Southampton, NY 11968

Re: Village of Southampton
Sewage Collection and Treatment System
Design Phase Proposal

Dear Ms. Kagel-Betts:

D&B Engineers and Architects (D&B) has been requested to provide a fee and schedule to proceed with the design phase for the proposed \$35 million downtown sewer collection/transmission and treatment system, as well as securing approvals from the regulatory agencies. To date, a Sewering Recommendations Report, a Map, Plan and Report, and an Engineering Design Report have been prepared by D&B and all were reviewed and accepted by the Sewer Task Force. These reports will now form the technical basis for securing Village Board approval, educating the public as well as obtaining regulatory/funding agencies' backing.

Status of the Project

All reports associated with the assessment and selection of a proposed collection and treatment system are now complete. A gravity collection system, a submersible sewage pumping station and a sequential batch reactor treatment plant were key components required to collect, convey and treat the sewage flows projected from the Village's downtown area. Several sites were investigated for the location of the pumping station and the treatment plant. The benefits and challenges of each site were presented during the study and a final selection was made by the Sewer Task Force. Acquisition of the sewage treatment plant site is currently under negotiation between the Town of Southampton and the parcel owner. The lot will be purchased utilizing a Community Preservation Fund (CPF) allocation slated specifically for water quality improvement projects.

The State Environmental Review (SEQR) process is on-going. The required Environmental Assessment Form (EAF) Part 1 and consultation with the State Historic Preservation Office (SHPO) were completed, and the Village performed a coordinated review, serving as the lead agency role. In its review, SHPO recommended that a Phase 1A archeological survey of the service area be undertaken. Phase 1A was completed and a report submitted to SHPO. The report concluded that no additional

Charlene G. Kagel-Betts, CPA CGMA
Village Administrator
Village of Southampton
March 2, 2023

Page 2

investigation was necessary for the service area but recommended a Phase 1B archeological investigation for the sewage treatment plant parcel be initiated. This report is currently under review by SHPO, and if in agreement, a Phase 1B will need to be completed for this parcel. This investigation will consist of shovel test pits excavated throughout the parcel positioned approximately every 50 ft. Data from each pit profile will be recorded on standardized forms and the pits properly backfilled. Artifact processing, cataloging and analysis will be completed as required. A report following the SHPO requirements will be generated at the end of the investigation for review. Following the review and a projected finding of no adverse effects by SHPO, parts 2 and 3 of the EAF will be completed. A *determination of significance* by the Village Board will then be produced; a copy of the declaration is then filed and distributed to all involved agencies and a publication made in the Environmental Notice Bulletin (ENB). A negative declaration will end the SEQRA process.

The proposed design will start concurrently with the submittal of the Map, Plan and Report to the NYS Commissioner of Health following the approval by the Village Board. Efforts to obtain funding will be undertaken concurrently with the update of the documents submitted to the Environmental Facility Corporation (EFC) and an application to the CPF.

Design Scope of Work

The design package will include the completed drawings and specifications for the construction of a collection, conveyance, treatment, and disposal system for the Village's downtown area. The final design will be based on the conceptual design developed and agreed upon during the preliminary study phase. The system proposed consists of a gravity collection system discharging to a single pumping station that will pump flow to a new sewage treatment plant (STP). The STP will utilize sequencing batch reactor technology to provide tertiary level treatment of the sewage. Discharge of the effluent will be to leaching pools situated within the limits of the same parcel.

The collection system was conceptually designed utilizing the Suffolk County Department of Health Services (SCDHS) standards including consideration of pipe size, slope and material and manhole location and type. Depth of sewer pipe was based on maintaining a minimum depth to avoid existing utilities (water main assumed to be approximately 4.5 ft from grade) following SCDHS requirements. The depth of the existing sanitary waste line connecting each parcel was not factored in the conceptual design. The highest elevation of the proposed sewer main was set six feet below grade. This will reduce the depth at the pump station while maintaining an adequate slope.

The sewage treatment plant conceptual design was based on utilizing Sequencing Batch Reactor technology and sized based on projected flows for current as well as future development and included an analysis of the anticipated sewage concentration characteristics from Ten State Standards, Suffolk County Department of Public Works (SCDPW) and comparable treatment facilities.

Charlene G. Kagel-Betts, CPA CGMA
Village Administrator
Village of Southampton
March 2, 2023

Page 3

The detailed design of the proposed treatment system will be based upon the NYS Design Standards for Intermediate Sized Wastewater Treatment Systems, the Recommended Standards for Wastewater Facilities (aka "Ten State Standards"), the SCDHS standards and the SCDPW standards.

Based upon our understanding of the technical analysis performed to date, and the work remaining to be completed to successfully finalize the design phase of the downtown sewer collection and treatment system, we have summarized our proposed scope into the following eight tasks.

Task 1 – Subsurface Investigation and Geotechnical Report

A thorough geotechnical subsurface investigation will be completed throughout the project limits to gather necessary information on the physical properties of the soil where new structures are to be located. This information is vital for the proper design of underground structures such as manholes, piping installation, foundations and other structures. This investigation also provides information related to the location of groundwater in the area. The elevation of the groundwater is critical to determine construction strategies and structural design methods. This task will include forty-two (42) borings ranging from a depth of 10 to 40 feet below grade. The soil borings will be collected along the routes of the proposed gravity sewer alignment and force main as well as at the identified sites of the pump station and treatment plant. The soil investigation will include soil classification, groundwater elevation and full boring logs. Two (2) piezometers will also be installed to provide access for securing readings regarding area groundwater elevations. A geotechnical report will be completed to provide subsurface conditions identification throughout the project site, and foundation recommendations. The subsurface investigation is estimated to be completed in fifteen (15) days.

Soil borings are proposed within the rights of away, requiring road permits from the Village. We assume the Village will grant all required permits for the investigation. During this exercise, the boring contractor anticipates utilizing traffic control devices including barrels, caution tape and signage, a flag-person is not expected to be required.

A subsurface investigation plan will be prepared for the MTA LIRR, a requirement for securing approval of installing borings located within 200ft of their structures. This will include the review of MTA LIRR track records related to the site and the preparation of a location plan for the subsurface investigation. Four (4) borings are estimated to be completed within the jurisdictional area. Obtaining site specific soil conditions near the MTA LIRR is critical for determining the most feasible and cost-effective method for crossing beneath the existing tracks.

The deliverable of this task includes a geotechnical report and boring data information to be included in the contract drawings.

Charlene G. Kagel-Betts, CPA CGMA
Village Administrator
Village of Southampton
March 2, 2023

Page 4

Task 2 – Topographic Survey and Utility Investigation

The topographic survey will cover the full right of way of the service area as well as the force main route, the pump station and sewage treatment plant location sites. The service area includes approximately 175 Acres and 36,400 LF of roadway length. New aerial imagery will be taken for mapping of the area using photogrammetry, additional surveying will be required past the public right of way to include the pump station and the treatment plant sites. Survey crews will place control points on the ground for mapping in datum. All visible surface features will be mapped. Once mapping has been generated “virtual” editing will be completed in the office utilizing orthophotos and Google Street View (program), to identify any missing features.

It will be necessary for a field crew to visit the site to identify and locate any features not visible from imagery. Randomized ground measurements will also be taken to provide quality assurance and quality control of the data. Mapping will be compiled in AutoCad and a surface model generated from the survey data and used to produce one-foot contours. This surface model will then be used to generate sewer alignment and profiles using Civil 3D.

Right of way lines for the area will be taken from publicly available GIS centerline files. Property line boundaries for the sewage treatment plant site at 1 Bowers Lane are assumed to have been completed during the purchase of the parcel. Property lines for the treatment plant site are necessary for submittal to the SCDHS.

Easement may be necessary for the routing of the sewer lines outside the Village boundaries and on private property where the route is more conducive to future parcel connection. The boundaries for the easement and legal proceedings are not included in the scope of work.

Utility investigation will be completed following Quality Level C per ASCE standard Guidelines for the Collection and Depiction of Existing Subsurface Utility Data.

Quality Level C – information obtained by surveying and plotting visible above-ground utility features and by using professional judgement in correlating this information to existing records.

Underground utility records will be requested for utility owners based on a list of stakeholders in the area provided by “New York 811”.

Stormwater sewers and structures will be investigated to measure pipe inverts, sizes, materials and connectivity. No confined space entry is expected during this investigation. Collaboration from the Village is anticipated to clear the structures of debris for inspection.

This task will provide an Auto-CAD file with topographic and utility information as well as a Civil 3D surface model and orthophoto.

Charlene G. Kagel-Betts, CPA CGMA
Village Administrator
Village of Southampton
March 2, 2023

Task 3 – Preliminary Design

During this task we will confirm flow projections assembled during the planning phase, and reconfirm all design calculations including sewer piping calculations, pumping station sizing and treatment plant process layout and sizing.

The survey information will be used to advance the identification of the proposed sewer piping alignment and adjust the route as necessary to allow for future connection of all parcels within the sewer area. Sewer piping plan and profiles will be set up under this task and utilities identified on the drawings. Alignment and depth of sewer pipe will be based on compliance with the water separation requirements set by the SCDHS. Location of the proposed sewer structures including manholes and cleanouts will be confirmed at this time. The conceptual design assumed that road restoration will include only trench width. Complete mill and overlay of the roads was included as an alternate (estimated at 2.9 Million), but not made part of the project.

Hydraulic calculations will be completed to confirm pumping station equipment sizing. Support equipment and access will be designed and selected following the SCDPW pumping station design standards. The pumping station will consist of a below-grade wet-well equipped with submersible pumps and a one-story structure to house controls and other equipment.

Process design for the treatment plant will progress and will include hydraulic considerations for flow transfer, tank sizing and selection of equipment. The layout of the treatment plant building will be established during this task and will include providing access for personnel and allow for clearances around equipment for operation and maintenance, internal piping layout configuration, and designation of areas for auxiliary systems (electrical room, mechanical room and laboratory). Supporting disciplines including structural, civil, electrical, and architectural will advance at this time. This will also require the sizing of the electrical service and emergency power as well as the electrical equipment necessary to support the operation of the treatment units; site development including parking lot areas, access roads and effluent disposal area; and structural and architectural design including foundation and building structure, general building layout and the selection of façade appearance.

Preliminary contract drawings and specifications for the main equipment will be completed at this time. This will include sewer alignment drawings and profiles, pumping station and treatment plant layout and equipment sizing, civil site drawings and general drawings.

The full preliminary design package will undergo an internal QA/QC process prior to submittal to the Village for comments. Comments received will be responded to and implemented as part of the following design submittal. A copy of the documents will be given to the cost estimator to provide a construction cost estimate.

Charlene G. Kagel-Betts, CPA CGMA
Village Administrator
Village of Southampton
March 2, 2023

Page 6

Task 4 – Permitting and Agency Approvals

State Pollutant Discharge Elimination System (SPDES): A permit for the new treatment plant and for the discharge of treated effluent will be necessary for the plant. A preapplication meeting with the NYSDEC will be scheduled at the beginning of this task to initiate the process for completing the application. An updated version of the application (March 2022), form NY-2A New and Existing Publicly Owned Treatment Works, is currently available.

SCDHS and/or Sewer Agency Approvals: Conversations with the sewer agency were initiated during the planning phase, according to initial discussions, it is anticipated that approvals for design documents will come from the SCDHS. An engineering report will be prepared for submission to the SCDHS. This report will include the items outlined in Appendix B of the SCDHS Standards for Approval of Plans and Construction for Sewage Disposal Systems for Other Than Single-Family Residences.

Metropolitan Transit Authority Long Island Railroad (LIRR): the project includes a crossing of the LIRR on David Whites Lane. Approval for the subsurface investigation will be completed prior to executing the soil borings. Construction plans and specifications for the crossing of the railroad tracks will be submitted also for approval. Coordination with the MTA is expected during the subsurface investigation and the design phase. An LIRR Entry Permit for construction will be the responsibility of the selected Contractor.

Utility Approvals: A new water and electric service is anticipated to be required for the pumping station and the sewage treatment plant. It is anticipated that the services will be brought up by the utility companies (SCWA and PSEG) to the property and that there is sufficient capacity available for the operation of these facilities. Coordination with the utilities will include electrical load letters to PSEG and request for connection from SCWA.

Task 5 – Cost Estimating

A construction cost estimate will be completed following the completion of the preliminary design (50% design development) and following final design prior to bidding the project. The construction cost estimates will be prepared based on the details provided according to the level of design and will include quantities and unit prices. Revisions will be provided based on comments received.

Task 6 – Public Outreach and Funding Support

The goal of this task is to build public support and acceptance of the project. Potential concerns may include cost associated with the project, impact on commercial activities during construction and proximity to sewage system structures including the pumping station and the treatment plant.

Charlene G. Kagel-Betts, CPA CGMA
Village Administrator
Village of Southampton
March 2, 2023

Page 7

Information distributed will focus on benefits of the project and mitigation measures to avoid unwanted impacts.

The task will include participation in meetings with stakeholders and preparation of materials used in presenting the project to the public. This task will be initiated as soon as the Map, Plan and Report is approved by the Village and released for public information.

Coordination with the Village's funding specialist was initiated during the preliminary planning phase. Technical information on the project as well as construction cost estimate and schedule were provided in support of funding applications. During the design phase we plan to continue this support by providing updates on the project and by incorporating the funding agency requirements into the contract documents.

This task will include participation in two public meetings and two meetings with other stakeholders to present the project (Town of Southampton, Village Board).

Take 7 – Stormwater Pollution Prevention Plan

This task will include the completion of a Stormwater Pollution Prevention Plan (SWPPP) in accordance with NYSDEC SPDES General Permits for Stormwater from Construction Activity. This will include three (3) hard copies and electronic transfer of the final SWPPP. Additionally, the details for the SWPPP will be included in the Contract Documents for the Contractor's implementation under his scope of work.

Task 8 – Final Design

This task will complete contract drawings and specifications. Comments received during the preliminary design and all remaining details will be incorporated at this time. The design package will conform to the requirements of the SCDHS. A copy will be submitted for approval and any comments incorporated into the documents prior to bidding.

The bid package will utilize standard specifications used in Suffolk County projects and technical specifications as required to complete the items of the project.

Five (5) hard copies and an electronic copy will be prepared for bidding purposes. The design is estimated to include approximately 110 drawings.

Charlene G. Kagel-Betts, CPA CGMA
Village Administrator
Village of Southampton
March 2, 2023

Proposed Subcontractors

The work performed by D&B will be supported by specialty subcontractors who will prepare required Topographical Surveying and Utility Investigation, Subsurface Investigation and Geotechnical Report and Construction Cost Estimating.

Gayron de Bruin Land Surveying and Engineering, PC (GdB) - Survey

The topographic survey and utility investigation will be completed by GdB. GdB is headquartered in Melville, NY and is an industry leader in providing geospatial services to New York's municipalities and government agencies. Formed in 2010, GdB has predecessor firms dating back to the 1960s that bring more than 60 years of combined experience in land surveying, civil engineering, and geographic information systems (GIS).

GdB consists of 55 professionals including 11 licensed Land Surveyors, running nine field crews daily. Each project GdB is assigned is managed by a licensed professional and developed by office technicians proficient in both CAD and GIS. By utilizing an array of equipment and software, GdB specializes in the production of plans by employing as much customization and automation as possible. For this project GdB will utilize photogrammetry supported by field work to produce a surface model that will be used in the creation of Civil 3D drawings.

Nasco Construction Services Inc. (Nasco) – Construction Cost

Nasco is a construction cost consulting firm that specializes in preparing cost estimates for all design and construction disciplines. They have 29 years of estimating experience and regularly estimate over three-hundred (300) projects per year in all areas of construction including new construction, renovations and rehabilitations of various projects including sewer systems, pump stations, and road improvement projects. Because of their prior construction management work, they are able to translate their marketplace experience into accurate reliable cost estimates. Nasco offers a team of three professional engineers and a certified cost professional along with a team of construction technicians all with significant design and construction experience. Nasco is a certified Women's Business Enterprise (WBE).

Nasco provided cost estimating services for the planning phase of the project and is intimately familiar with all details of the project. This knowledge of the project will allow continuity and efficiency in the cost estimating process.

Mueser Rutledge Consulting Engineers (MRCE) – Geotechnical

Founded in 1910, is the first engineering firm in the United States to combine a geotechnical specialty with structural foundation design engineering. The majority of MRCE's work involves geotechnical

Charlene G. Kagel-Betts, CPA CGMA
Village Administrator
Village of Southampton
March 2, 2023

engineering, geotechnical studies, including analyses of site conditions and soil and rock properties, with structural design of foundations and waterfront structures. MRCE also provides owners, contractors, and engineers with construction assistance and expert testimony.

Proposed Schedule

The schedule for the project assumes design will start concurrently with finalizing the SEQRA process and obtaining state commissioner of health approval. We have estimated to begin June 1, 2023, with final bid ready documents expected in June 2024. Our detailed schedule is included as an attachment to this letter.

Proposed Fee

D&B proposes to provide these services for a not-to-exceed fee of **\$1,739,430**. The fee shall be broken out as follows:

| | |
|--|-----------|
| Task 1: Subsurface Investigation and Geotechnical Report | \$129,780 |
| Task 2: Topographic Survey and Utility Investigation..... | \$282,480 |
| Task 3: Preliminary Design | \$696,600 |
| Task 4: Permitting and Agency Approvals..... | \$51,040 |
| Task 5: Cost Estimating..... | \$69,230 |
| Task 6: Public Outreach and Funding Support..... | \$32,300 |
| Task 7: Stormwater Pollution Prevention Plan..... | \$13,600 |
| Task 8: Final Design..... | \$464,400 |

A detailed fee breakdown including subcontractor costs is attached to this letter for reference.

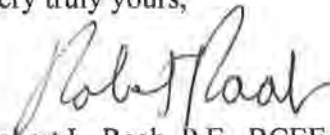
- Billing will be done monthly based on D&B’s standard rates, reflecting the progress of each phase of the work. Payment is expected within thirty (30) days of receipt of each invoice.
- Extra services beyond the base scope of work, as described above, or other extra services shall be done on an hourly basis at our standard hourly rates or on an agreed upon lump sum fee. They are in addition to the fee described above.

Charlene G. Kagel-Betts, CPA CGMA
Village Administrator
Village of Southampton
March 2, 2023

Page 10

We greatly appreciate the opportunity to submit this proposal and look forward to assisting the Village of Southampton on this critical project. If you have any questions or require any additional information, please do not hesitate to contact Adriana Restrepo or me at (516) 364-9890, or by email at arestrepo@db-eng.com or rraab@db-eng.com, respectively.

Very truly yours,



Robert L. Raab, P.E., BCEE, CCM
Senior Vice President

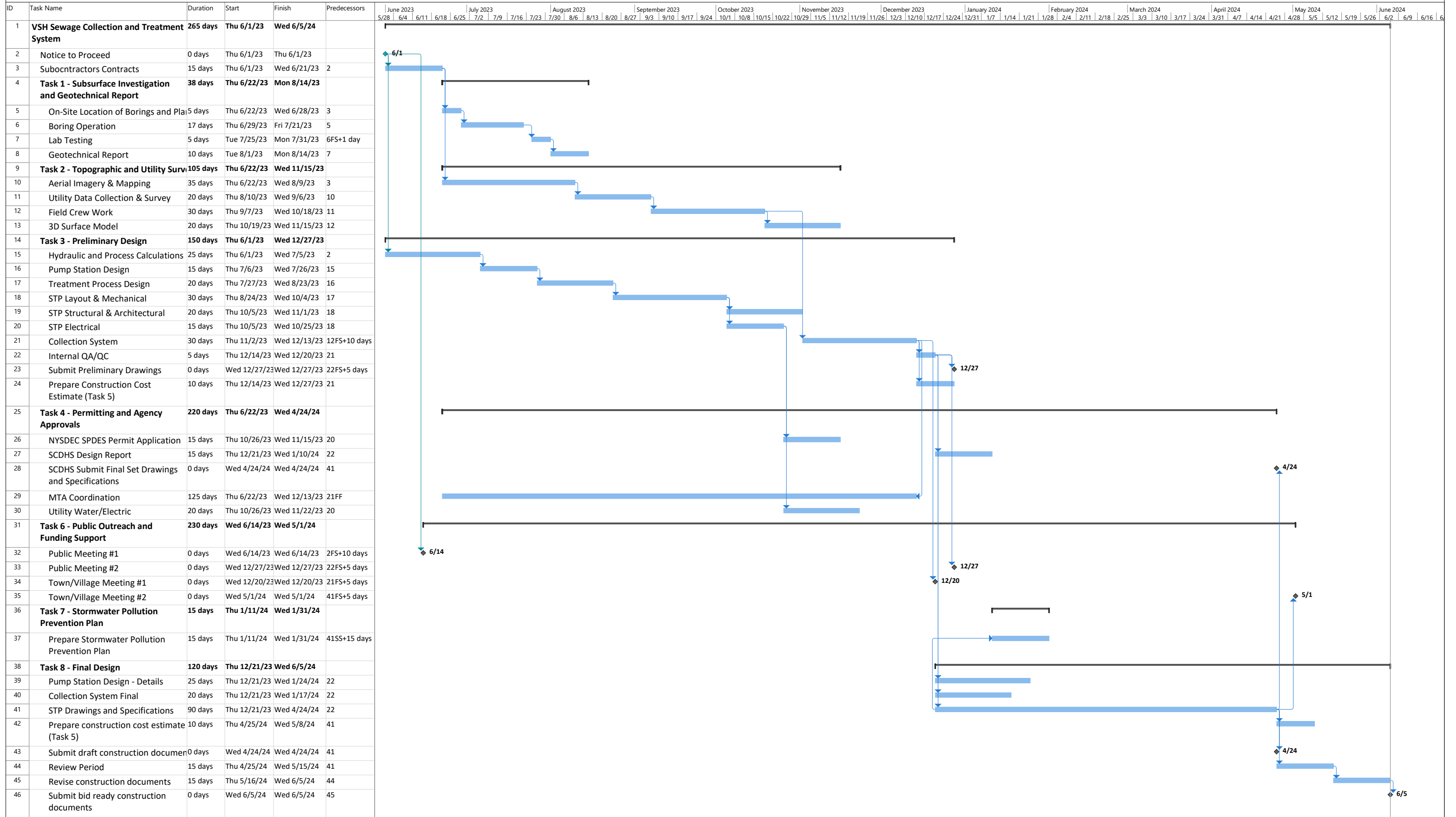
RLR/ARt/kb
Cc: A. Restrepo (D&B)
♦PL11838\RLR030223CK-Ltr

VILLAGE OF SOUTHAMPTON SEWAGE COLLECTION AND TREATMENT SYSTEM
MARCH 2, 2023

| ID | DESCRIPTION OF WORK | TOTAL FEE | D&B | SUBCONTRACTOR | ODC | MRCE | GdB | NASCO | DELTA |
|--------|--|---------------------|------------|---------------|----------|-----------|------------|-----------|-----------|
| TASK 1 | Subsurface Investigation and Geotechnical Report | \$ 129,780 | \$ 8,500 | \$ 121,280 | | \$ 57,800 | | | \$ 63,480 |
| TASK 2 | Topographic Survey and Utility Investigation | \$ 282,480 | \$ 18,480 | \$ 264,000 | | | \$ 264,000 | | |
| TASK 3 | Preliminary Design | \$ 696,600 | \$ 696,000 | \$ - | \$ 600 | | | | |
| TASK 4 | Permitting and Agency Approvals | \$ 51,040 | \$ 51,040 | \$ - | | | | | |
| TASK 5 | Cost Estimating | \$ 69,230 | \$ 9,030 | \$ 60,200 | | | | \$ 60,200 | |
| TASK 6 | Public Outreach and Funding Support | \$ 32,300 | \$ 31,200 | \$ - | \$ 1,100 | | | | |
| TASK 7 | Stormwater Pollution Prevention Plan | \$ 13,600 | \$ 13,600 | \$ - | | | | | |
| TASK 8 | Final Design | \$ 464,400 | \$ 464,000 | \$ - | \$ 400 | | | | |
| | TOTAL | \$ 1,739,430 | | | | | | | |

Construction Cost \$ 35,415,000
Percent of design cost 4.9%
W/MBE Participation 22.3%

VILLAGE OF SOUTHAMPTON SEWAGE COLLECTION AND TREATMENT SYSTEM



| | | | | | | | | | | | | | |
|---|-----------|--|-----------------|--------------------|--|-----------------------|--|----------------|--|--------------------|--|-----------------|--|
| Project: VSH Sewage Collection and Treatment System Date: Thu 3/2/23 | Task | | Summary | Inactive Milestone | | Duration-only | | Start-only | | External Milestone | | Manual Progress | |
| | Split | | Project Summary | Inactive Summary | | Manual Summary Rollup | | Finish-only | | Deadline | | | |
| | Milestone | | Inactive Task | Manual Task | | Manual Summary | | External Tasks | | Progress | | | |



Corporate Title

Senior Vice
President/Sustainability

Education

Manhattan College, M.S.
(Environmental Engineering)

Manhattan College, B.S. (Civil
Engineering)

Professional License

New York

Professional Societies

American Public Works
Association

National Society of Professional
Engineers

Water Environment Federation

Chi Epsilon – Engineering Honor
Society

Years Experience

35+

Office Location

Woodbury, NY

Contact

rraab@db-eng.com

ROBERT L. RAAB, P.E., BCEE, CCM

Professional Experience

Mr. Raab has over 35 years of environment and civil engineering experience on the federal and local government level. His experience in the public sector includes the United States Environmental Protection Agency (EPA) - Region 2, both as a Project Manager with the Environmental Impacts Branch (6 years) and as Section Chief with the Superfund Program (6 years), and later with the City of Long Beach (22 years) where he held the position of Commissioner of Public Works/City Engineer. In all of these assignments, Mr. Raab was instrumental in developing new programs, overseeing complete project development from planning through post-construction and introducing sustainable methodologies.

Since joining D&B, Mr. Raab has been assigned an array of tasks including the development of technical proposals, cost estimates and construction management related to sanitary and storm water rehabilitation and construction projects. Mr. Raab has utilized his extensive project management, construction oversight experience and negotiation skills to provide assistance in managing contractor operations.

Carlls River Watershed Sewer Project - Suffolk County Department of Public Works

Mr. Raab is the Project Director for this project and is responsible for overseeing the design of low pressure sewer systems for 2,500 parcels to the existing Southwest Sewer District. The project connects residential parcels to the pressurized main with a grinder pump station at each parcel. The project area is located within wetlands and includes crossing the Carlls River and the Southern State Parkway.

Sewering Huntington Station Hub - Suffolk County Department of Public Works

Mr. Raab is the Project Director for this project. The purpose of this project is to conduct a feasibility study and design for the sewerage of the Huntington Station Hub, which currently has wastewater disposed through on-site and cesspool systems. The project explores and solves the development potential of Huntington Station using the existing zoning, along with the potential rezoning and redevelopment of industrially-zoned lands close to the train station.

Sewer District No.3 - Southwest Sewer District Service Area Expansion Project (CP-8139) - Feasibility Study, Suffolk County, NY, Suffolk County Department of Public Works.

Mr. Raab is the Project Manager for this project which involves preparing a Feasibility Report for Suffolk County, NY which evaluated the expansion of the Sewer District No. 3 – Southwest service area. The objective of the Feasibility Report was to evaluate a 14.3 square mile study area within North Babylon, West Babylon, Deer Park, West Islip, Wyandanch and Wheatley Heights for expansion of sewer service from Sewer District No. 3 – Southwest.

Town of Brookhaven: Sewering North Bellport

Mr. Raab is the Project Director overseeing this project. D&B was retained to conduct a feasibility study and Map and Plan Report for the sewerage of the North Bellport Transit Orientated Development Area. The project explores and solves the development potential of North Bellport using the existing zoning, along with the potential rezoning and redevelopment. D&B evaluated various scenarios for providing a sewer collection system and treatment strategy that could support future development of the TOD Area. The area includes approximately 270 parcels comprised of residential and commercial properties.

City of Bridgeport: Connecticut Water Pollution Control Authority CSO Improvements

Mr. Raab has been working closely with the Bridgeport Water Pollution Control Authority

ROBERT L. RAAB, P.E., BCEE, CCM

(BWPCA) to develop solutions to eliminate/redirect storm water flows entering the City's aged combined sewer system. The goal is to reduce the frequency of CSO discharges to area waterways. Five of the most problematic sewershed areas have been identified by the BWPCA for evaluation. In each case, two phases of construction are being proposed. The first phase involves the TV inspection, cleaning and CIPP lining of the existing combined sewers to eliminate infiltration from this high ground water area. The focus of Phase B is to remove (separate) storm water from the combined sewer system. The installations of separate storm sewers are being proposed to collect runoff from roadways and other paved surfaces. This should result in the diversion of over 60 % of storm water out of the waste stream. Funding for these projects is from the Clean Water Act which is administered by the Connecticut DEP.

New York City Department of Design and Construction - Gateway Estates – Phase D Roadway and Utility Installation Project – Brooklyn, New York

Mr. Raab is D&B's Project Executive for the recently initiated NYCDDC Gateway Estates – Phase D roadway and utility installation project, where the firm will be providing resident engineering/inspection services. This comprehensive construction will include new sanitary and storm sewers; water mains, utilities as well as creation of new streets in the proposed residential development.

New York City Department of Environmental Protection- Avenue "V" Pumping Station and Force Mains – Brooklyn, New York

Mr. Raab was assigned the responsibility of CM to work with the CM/RE staff to resolve issues that may impact the project's budget and schedule. In this capacity, Mr. Raab met routinely with the NYCDEP staff, resident engineers and contractors to review potential issues and work together to develop solutions. Through this experience at Avenue "V", he has developed a familiarity and understanding of NYCDEP regulations, protocols and SOPs. In addition, Mr. Raab has been instrumental in evaluating the construction contractor's operations, troubleshooting and solving problems, and the preparation of technical reports relating to ongoing construction. Further, he has personally taken on the initiative of finding ways to streamline the administrative process by taking a pro-active approach that "anticipates issues" then "facilitates responses. His experiences with the NYCDEP coincide with his managerial style, which stresses continued communication and coordination. He has utilized a strong technical understanding of water supply and sewer issues and an awareness of associated community and environmental concerns, to avoid potential problems and conflicts. Some specific areas of involvement include regulatory agency and utility protection and coordination, bypassing and temporary pumping, de-watering, pipeline cleaning and lining, roadway restoration design, community involvement and landscape planning and coordination.

Mr. Raab's experience prior to D&B includes:

City of Long Beach, New York, Commissioner of Public Works/City Engineer

- Responsible for the planning, design and construction of projects related to the City's infrastructure, including roadways, bridges, wastewater treatment and water purification facilities, water mains, sanitary and storm sewers, hazardous and petroleum spill remediation, parks, playgrounds, beach structures, shore erosion, municipal buildings, recycling and solid waste facilities, bulk-heading, water tanks, sludge management, street lighting maintenance, etc.
- Oversaw consultant activities and coordinated activities with local, state and federal regulatory agencies.
- Oversaw the preparation of in-house design packages for playgrounds, roadway reconstruction projects, etc.
- Prepared procedural and response documents such as Emergency Water Supply Plan, Solid Waste Management Plan, LWRP, Water Conservation Strategy and Recycling Ordinance, etc.
- Coordinated the City's participation in FEMA's National Flood Insurance Program Community Rating System.
- Served as Long Beach's Project Manager for Corps of Engineers, Long Beach Island Storm Damage Reduction Project.
- Developed and implemented a Citywide Roadway Evaluation Plan.
- Oversaw all aspects of construction inspection and utility maintenance contracts.
- Interacted with political representatives and the public on a daily basis.
- Provided technical and operational guidance for City maintenance crews.
- Oversaw in-house surveying crews.
- Supervised an office of professional and clerical personnel.
- Reported directly to City Manager who reported to a five member City Council.
- Conducts technical presentations to community and school organizations.





Corporate Title

Senior Associate

Education

Universidad de Medellin,
Colombia, B.S. (Civil
Engineering) - 1989

Manhattan College, M.S.
(Environmental Engineering) -
1996

Professional Licenses

New York
Connecticut

Professional Societies

Water Environment Federation

New York Water Environment
Association

Years Experience

24

Office Location

Woodbury, NY

Contact

arestrepo@db-eng.com

ADRIANA S. RESTREPO, P.E.

Professional Experience

Ms. Restrepo is a Professional Engineer with over 20 years of experience in planning, design and development of wastewater projects.

Ms. Restrepo's professional work experience is summarized below:

Technical Advisor – Suffolk County, NY – Huntington Hub Sewer Expansion

Ms. Restrepo is providing technical review for planning and design efforts to expand the Suffolk County sewer system to include a proposed development near Huntington Station. The project includes analysis of the existing gravity system and associated pump stations. The proposed project will have a 1 MGD pump station with approximately 7 miles of force main.

Design Support – Village of Ocean Beach – Ocean Beach WWTP Resiliency Upgrades

Ms. Restrepo is providing design and construction administration support services for the Ocean Beach WWTP upgrade. The project includes the replacement of existing GAC downflow polishing filters and related pumps with a new two stage carbon and mixed media filtration system.

Project Manager – Suffolk County, NY – Carls River Watershed Sewer Project

Ms. Restrepo is responsible for the design of low pressure sewer systems for 2,500 parcels to the existing Southwest Sewer District. The project connects residential parcels to the pressurized main with a grinder pump station at each parcel. The project area is located within wetlands and includes crossing the Carls River and the Southern State Parkway.

Project Manager – New York City Department of Environmental Protection – Bureau of Wastewater Treatment (BWT) – Task Order Contract

Ms. Restrepo was responsible for managing several tasks in support of the operation of the NYCDEP's east region wastewater treatment facilities. Tasks included the design of new ventilation systems for the Jamaica WWTP and the Owls Head WWTP, replacement of the Fire Alarm System at the Paerdegat Pump Station and New Sodium Hypochlorite Storage System for the Rockaway WWTP.

Project Manager - New York City Department of Environmental Protection – Hydraulic Assessment Wards Island Headworks

Ms. Restrepo coordinated the hydraulic design efforts, collection of background information and review of operating staff strategies to complete a hydraulic assessment analysis of the Wards Island headworks facility from the Grit Chambers that collect and treat the incoming flow to the main sewage pump station that pumps a peak flow of 550 MGD for treatment at the plant. This analysis was to be reported to the DEC as part of a consent order between the NYCDEP and the agency to demonstrate the ability of the system to handle the rated capacity with the existing and soon to be replaced equipment (screens and pumps).

Project Manager - Nassau County Department of Public Works - Bay Park WPCP Sludge Thickening Facility Improvements

Ms. Restrepo provided project and design coordination and technical support of a \$15 M upgrade of the WAS sludge thickening facilities at the 70 MGD sewage treatment plant. The upgrade included the modification of existing dissolved air flotation tanks to accommodate polymer feed and storage facilities, an odor control system, and all support systems including electrical, HVAC and instrumentation.

ADRIANA S. RESTREPO, P.E.

Project Manager - New York City Department of Environmental Protection - 26th Ward Water Pollution Control Plant – Caustic System in BNR Building; Brooklyn, New York

Ms. Restrepo provided design and project coordination for a caustic feed and storage system required for the BNR process at the 26th Ward WWTP, a 70 MGD sludge activated plant.

Project Manager - New York City Department of Environmental Protection - Reconstruction of Manhattan, Bronx Grit Screens at Wards Island WPCP

Ms. Restrepo was responsible for the final stages of design and design services during construction of the bar screen replacement at the Bronx and Manhattan Grit Chambers. The Bronx (369 mgd) and Manhattan (182 mgd) grit chambers provide preliminary treatment of CSO flows prior to the Wards Island WPCP. This fast track project included the replacement of eight bar screens at both facilities. Work included a Facility Assessment Report, Bar Screen and Grit Pumping Technical Memoranda, miscellaneous memoranda, permitting assistance, hydraulic analysis, and a CFD model of both grit chambers. Work also included an investigation and analysis of each chamber's grit collection, pumping, and handling operations.

Lead Design Engineer - New York City Department of Environmental Protection - 26th Ward Water Pollution Control Plant – Preliminary Treatment Reliability Improvements; Brooklyn, New York

Ms. Restrepo designed a new primary sludge pumping system to increase capacity to 3.2 MGD and a residuals handling facility to provide centralized treatment, including scum concentration and sludge dewatering and screening, and disposal of plant residuals. Project was developed to 90% design and turned over to the client.

Lead Design Engineer - New York City Department of Environmental Protection - 26th Ward Water Pollution Control Plant – Interim Plant Upgrade Facilities Plan

Ms. Restrepo was responsible for analyzing constructability, reliability, and cost-effectiveness alternatives to upgrade the 85 MGD secondary activated sludge plant to a BNR plant in order to comply with NYSDEC nitrogen discharge limits. The plan included thorough inspection of the plant to determine deficiencies related to existing process, safety, maintenance and operational issues, design of a new aeration system capable of delivering 42,000 cfm of process air and design of separate centrate treatment facilities.

Project Engineer - Bretton Woods Homeowners Association - Bretton Woods Sewage Treatment Plant; Coram, New York

The project involved a 375,000 gpd plant upgrade design and construction. This plant utilizes SBR's for biological treatment with effluent filtration before discharging to recharge beds. The objective of the upgrade was to increase the capacity of the plant, which included several systems. Among these were the addition of an influent equalization system including an aerated influent tank, a sludge holding tank, and an effluent distribution and control system.

**Full Environmental Assessment Form
Part I - Project and Setting**

Instructions for Completing Part I

Part I is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part I 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; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part I is accurate and complete.

A. Project and Applicant/Sponsor Information.

| | | |
|---|---|--------------------|
| Name of Action or Project: Village of Southampton Wastewater Treatment Plant and Sewage Conveyance System | | |
| Project Location (describe, and attach a general location map): Wastewater Treatment Plant (1 Bowers Lane), Pump Station (55 Windmill Lane), and Sewage Conveyance System in Downtown portion of the Village of Southampton (See Attached Map) | | |
| Brief Description of Proposed Action (include purpose or need): The Village of Southampton proposes to install a sewer system to collect, treat and dispose of sewage from the Village's downtown area. The proposed sewer system is a gravity type collection system for the project area. Flow generated will be pumped, via a new pump station, to the proposed wastewater treatment plant at 1 Bowers Lane. The proposed wastewater treatment plant will utilize a Sequencing Batch Reactor biological system, which will be followed by a filtration process. The resulting effluent will have a subsurface discharge field consisting of leaching pools. The project area is characterized by high groundwater levels and consists mainly of commercial and multi-use parcels that utilize on-site wastewater systems (cesspools) for the disposal of sewage. The cumulative impact of nitrogen and other contaminants being discharged from these subsurface disposal systems pose a real environmental and health concern and has contributed to the degradation of nearby surface waters. The proposed sewer system will alleviate the negative impacts to local ground and surface waters associated with the deterioration of these existing on-site wastewater treatment systems. | | |
| Name of Applicant/Sponsor: Village of Southampton | Telephone: 631-283-0247 | |
| | E-Mail: ckage1-betts@southamptonvillage.org | |
| Address: 23 Main Street | | |
| City/PO: Southampton | State: New York | Zip Code: 11968 |
| Project Contact (if not same as sponsor; give name and title/role): Charlene Kage1-Betts, Village Administrator | Telephone: 631-283-0247 | |
| | E-Mail: ckage1-betts@southamptonvillage.org | |
| Address: 23 Main Street | | |
| City/PO: Southampton | State: New York | Zip Code: 11968 |
| Property Owner (if not same as sponsor): See attached list in Section F | Telephone: | |
| | E-Mail: | |
| Address: | | |
| City/PO: | State: | Zip Code: |

B. Government Approvals

| B. Government Approvals, Funding, or Sponsorship. ("Funding" includes grants, loans, tax relief, and any other forms of financial assistance.) | | |
|---|---|---|
| Government Entity | If Yes: Identify Agency and Approval(s) Required | Application Date (Actual or projected) |
| a. City Counsel, Town Board, <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No or Village Board of Trustees | Village Board of Trustees | Projected: September 2022 |
| b. City, Town or Village <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Planning Board or Commission | | |
| c. City, Town or <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Village Zoning Board of Appeals | | |
| d. Other local agencies <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |
| e. County agencies <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Suffolk County Dept. of Health Services: Approval of a new sewer system | |
| f. Regional agencies <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |
| g. State agencies <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | DEC: SWPPP, Dewatering Permit, SPDES DOT: Road Permit | |
| h. Federal agencies <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |
| i. Coastal Resources. | | |
| i. Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway? | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| ii. Is the project site located in a community with an approved Local Waterfront Revitalization Program? | | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| iii. Is the project site within a Coastal Erosion Hazard Area? | | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

C. Planning and Zoning

| C.1. Planning and zoning actions. | |
|--|---|
| Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <ul style="list-style-type: none"> • If Yes, complete sections C, F and G. • If No, proceed to question C.2 and complete all remaining sections and questions in Part 1 | |
| C.2. Adopted land use plans. | |
| a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway; Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| If Yes, identify the plan(s): <u>Comprehensive Management Plan for Lake Agawam, June 2009</u> _____ _____ _____ | |
| c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan or an adopted municipal farmland protection plan? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| If Yes, identify the plan(s): _____ _____ _____ | |

| | |
|---|---|
| C.3. Zoning | |
| a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. If Yes, what is the zoning classification(s) including any applicable overlay district? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| <u>Village of Southampton: Single Family Residence, Highway Business, Office District Business, Light Industry, Village Business, Hampton Road Office District, Multi-Family Residence, & Historic District</u> | |
| <u>Town of Southampton: Highway Business, Country Residence, Light Industrial, & Agricultural Overlay District</u> | |
| b. Is the use permitted or allowed by a special or conditional use permit? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| c. Is a zoning change requested as part of the proposed action? If Yes, | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| i. What is the proposed new zoning for the site? _____ | |
| C.4. Existing community services. | |
| a. In what school district is the project site located? | <u>Southampton Union Free School District</u> |
| b. What police or other public protection forces serve the project site? | <u>Southampton Village Police Department and Southampton Town Police Department</u> |
| c. Which fire protection and emergency medical services serve the project site? | <u>Southampton Fire Department, Southampton Village Volunteer Ambulance</u> |
| d. What parks serve the project site? | <u>Agawam Park, Southampton Basketball Courts, Southampton Dog Park</u> |

D. Project Details

| | |
|--|---|
| D.1. Proposed and Potential Development | |
| a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)? Utility: Sewer System | _____ |
| b. a. Total acreage of the site of the proposed action? | _____ 180 acres |
| b. Total acreage to be physically disturbed? | _____ 8 acres |
| c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? | _____ 2 acres |
| c. Is the proposed action an expansion of an existing project or use? i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % _____ Units: _____ | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| d. Is the proposed action a subdivision, or does it include a subdivision? If Yes, i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types) _____ | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| ii. Is a cluster/conservation layout proposed? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| iii. Number of lots proposed? _____ | |
| iv. Minimum and maximum proposed lot sizes? Minimum _____ Maximum _____ | |
| e. Will the proposed action be constructed in multiple phases? i. If No, anticipated period of construction: _____ 24 months | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| ii. If Yes: | |
| • Total number of phases anticipated _____ | |
| • Anticipated commencement date of phase 1 (including demolition) _____ month _____ year | |
| • Anticipated completion date of final phase _____ month _____ year | |
| • Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases: _____ | |
| _____ | |
| _____ | |

f. Does the project include new residential uses? Yes No
 If Yes, show numbers of units proposed.

| | One Family | Two Family | Three Family | Multiple Family (four or more) |
|-----------------------------|------------|------------|--------------|--------------------------------|
| Initial Phase | _____ | _____ | _____ | _____ |
| At completion of all phases | _____ | _____ | _____ | _____ |

g. Does the proposed action include new non-residential construction (including expansions)? Yes No
 If Yes,

- Total number of structures 2
- Dimensions (in feet) of largest proposed structure: 16 ft height; 27 ft width; and 99.5 ft length
- Approximate extent of building space to be heated or cooled: 2000 square feet

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? Yes No
 If Yes,

- Purpose of the impoundment: _____
- If a water impoundment, the principal source of the water: Ground water Surface water streams Other specify: _____
- If other than water, identify the type of impounded/contained liquids and their source. _____
- Approximate size of the proposed impoundment. Volume: _____ million gallons; surface area: _____ acres
- Dimensions of the proposed dam or impounding structure: _____ height; _____ length
- Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete): _____

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? Yes No
 (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite)
 If Yes:

- What is the purpose of the excavation or dredging? _____
- How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?
 - Volume (specify tons or cubic yards): _____
 - Over what duration of time? _____
- Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them. _____
- Will there be onsite dewatering or processing of excavated materials? Yes No
 If yes, describe. _____
- What is the total area to be dredged or excavated? _____ acres
- What is the maximum area to be worked at any one time? _____ acres
- What would be the maximum depth of excavation or dredging? _____ feet
- Will the excavation require blasting? Yes No
- Summarize site reclamation goals and plan: _____

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? Yes No
 If Yes:

- Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): _____

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:

iii. Will the proposed action cause or result in disturbance to bottom sediments? Yes No
 If Yes, describe: _____

iv. Will the proposed action cause or result in the destruction or removal of aquatic vegetation? Yes No
 If Yes:
 • acres of aquatic vegetation proposed to be removed: _____
 • expected acreage of aquatic vegetation remaining after project completion: _____
 • purpose of proposed removal (e.g. beach clearing, invasive species control, boat access): _____

 • proposed method of plant removal: _____
 • if chemical/herbicide treatment will be used, specify product(s): _____

v. Describe any proposed reclamation/mitigation following disturbance: _____

c. Will the proposed action use, or create a new demand for water? Yes No
 If Yes:
i. Total anticipated water usage/demand per day: _____ gallons/day
ii. Will the proposed action obtain water from an existing public water supply? Yes No
 If Yes:
 • Name of district or service area: _____
 • Does the existing public water supply have capacity to serve the proposal? Yes No
 • Is the project site in the existing district? Yes No
 • Is expansion of the district needed? Yes No
 • Do existing lines serve the project site? Yes No
iii. Will line extension within an existing district be necessary to supply the project? Yes No
 If Yes:
 • Describe extensions or capacity expansions proposed to serve this project: _____

 • Source(s) of supply for the district: _____

iv. Is a new water supply district or service area proposed to be formed to serve the project site? Yes No
 If Yes:
 • Applicant/sponsor for new district: _____
 • Date application submitted or anticipated: _____
 • Proposed source(s) of supply for new district: _____

v. If a public water supply will not be used, describe plans to provide water supply for the project: _____

vi. If water supply will be from wells (public or private), what is the maximum pumping capacity: _____ gallons/minute.

d. Will the proposed action generate liquid wastes? Yes No
 If Yes:
i. Total anticipated liquid waste generation per day: 198,330 gallons/day
ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each): Sanitary wastewater to proposed Wastewater Treatment Plant (WWTP)

iii. Will the proposed action use any existing public wastewater treatment facilities? Yes No
 If Yes:
 • Name of wastewater treatment plant to be used: _____
 • Name of district: _____
 • Does the existing wastewater treatment plant have capacity to serve the project? Yes No
 • Is the project site in the existing district? Yes No
 • Is expansion of the district needed? Yes No

• Do existing sewer lines serve the project site? Yes No
 • Will a line extension within an existing district be necessary to serve the project? Yes No
 If Yes:
 • Describe extensions or capacity expansions proposed to serve this project: _____

iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? Yes No
 If Yes:
 • Applicant/sponsor for new district: _____
 • Date application submitted or anticipated: _____
 • What is the receiving water for the wastewater discharge? _____

v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge or describe subsurface disposal plans):
The wastewater will be treated at the proposed Wastewater Treatment Plant, which be equipped with a Sequencing Batch Reactor (SBR) biological system followed by a filtration process. The resulting effluent will have a subsurface discharge field consisting of leaching pools.

vi. Describe any plans or designs to capture, recycle or reuse liquid waste: The SBR tanks operate in five stages (Fill, React, Settle, Draw, Idle). Raw sewage enters the tank during the Fill stage, React initiates the biological process. The Settle stage allows solids to travel to the bottom of the tank, the Draw stage removes effluent, and the Idle stage is when waste is removed from the tanks. The treated water will then travel to leaching pools where it will eventually infiltrate into the soil.

e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? Yes No
 If Yes:
 i. How much impervious surface will the project create in relation to total size of project parcel?
 _____ Square feet or 0.46 acres (impervious surface)
 _____ Square feet or 3.86 acres (parcel size) | Bowers Lane

ii. Describe types of new point sources. The proposed action will create new impervious surfaces in the construction of the pump station and wastewater treatment plant. All surfaces will be restored to existing conditions for the installation of the sewage collection system.

iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)?
Stormwater will be directed to on-site stormwater management structures to be designed in accordance with the New York State Stormwater Management Design Manual.
 • If to surface waters, identify receiving water bodies or wetlands: _____

• Will stormwater runoff flow to adjacent properties? Yes No

iv. Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? Yes No

f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? Yes No
 If Yes, identify:
 i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)
Trucks to remove sludge/residuals off site

ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)
None

iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)
None

g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? Yes No
 If Yes:
 i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) Yes No
 ii. In addition to emissions as calculated in the application, the project will generate:
 • _____ Tons/year (short tons) of Carbon Dioxide (CO₂)
 • _____ Tons/year (short tons) of Nitrous Oxide (N₂O)
 • _____ Tons/year (short tons) of Perfluorocarbons (PFCs)
 • _____ Tons/year (short tons) of Sulfur Hexafluoride (SF₆)
 • _____ Tons/year (short tons) of Carbon Dioxide equivalent of Hydrofluorocarbons (HFCs)
 • _____ Tons/year (short tons) of Hazardous Air Pollutants (HAPs)

h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? Yes No

If Yes:

i. Estimate methane generation in tons/year (metric): _____

ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): _____

i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? Yes No

If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust): _____

j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? Yes No

If Yes:

i. When is the peak traffic expected (Check all that apply): Morning Evening Weekend
 Randomly between hours of _____ to _____.

ii. For commercial activities only, projected number of truck trips/day and type (e.g., semi trailers and dump trucks): _____

iii. Parking spaces: Existing _____ Proposed _____ Net increase/decrease _____

iv. Does the proposed action include any shared use parking? Yes No

v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe: _____

vi. Are public/private transportation service(s) or facilities available within 1/2 mile of the proposed site? Yes No

vii. Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? Yes No

viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? Yes No

k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? Yes No

If Yes:

i. Estimate annual electricity demand during operation of the proposed action: 600 KW-Hr/day

ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other):
Local PSEG Utility

iii. Will the proposed action require a new, or an upgrade, to an existing substation? Yes No

l. Hours of operation. Answer all items which apply.

| | | | |
|-------------------------|----------------|------------------------|---------------------|
| i. During Construction: | | ii. During Operations: | |
| • Monday - Friday: | <u>7am-4pm</u> | • Monday - Friday: | <u>24 hours/day</u> |
| • Saturday: | <u>None</u> | • Saturday: | <u>24 hours/day</u> |
| • Sunday: | <u>None</u> | • Sunday: | <u>24 hours/day</u> |
| • Holidays: | <u>None</u> | • Holidays: | <u>24 hours/day</u> |

m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both? Yes No
 If yes:
 i. Provide details including sources, time of day and duration:
 During construction: Heavy equipment use. Noise from heavy equipment during construction will be sporadic, intermittent and not significant to sensitive receptors. During operations: Noise levels will not exceed existing ambient noise levels.

ii. Will the proposed action remove existing natural barriers that could act as a noise barrier or screen? Yes No
 Describe: _____

n. Will the proposed action have outdoor lighting? Yes No
 If yes:
 i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:

ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? Yes No
 Describe: _____

o. Does the proposed action have the potential to produce odors for more than one hour per day? Yes No
 If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures: The proposed pump station and proposed WWTP will have odor control mechanisms. Both will be in operation 24 hours per day. The proposed pump station is within 200' of an occupied structure. The aboveground structures at the proposed wastewater treatment plant are within 200' of an occupied structure.

p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? Yes No
 If Yes:
 i. Product(s) to be stored _____
 ii. Volume(s) _____ per unit time _____ (e.g., month, year)
 iii. Generally, describe the proposed storage facilities: _____

q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? Yes No
 If Yes:
 i. Describe proposed treatment(s):

ii. Will the proposed action use Integrated Pest Management Practices? Yes No

r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? Yes No
 If Yes:
 i. Describe any solid waste(s) to be generated during construction or operation of the facility:
 • Construction: N/A tons per _____ (unit of time)
 • Operation: Sludge removal TBD tons per _____ (unit of time)

ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:
 • Construction: _____
 • Operation: Sludge digestion to reduce quantities

iii. Proposed disposal methods/facilities for solid waste generated on-site:
 • Construction: _____
 • Operation: Sludge disposal facility for dewatering

s. Does the proposed action include construction or modification of a solid waste management facility? Yes No

If Yes:

i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): _____

ii. Anticipated rate of disposal/processing:

- _____ Tons/month, if transfer or other non-combustion/thermal treatment, or
- _____ Tons/hour, if combustion or thermal treatment

iii. If landfill, anticipated site life: _____ years

t. Will the proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste? Yes No

If Yes:

i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: _____

ii. Generally describe processes or activities involving hazardous wastes or constituents: _____

iii. Specify amount to be handled or generated _____ tons/month

iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: _____

v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? Yes No

If Yes: provide name and location of facility: _____

If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility: _____

E. Site and Setting of Proposed Action

E.1. Land uses on and surrounding the project site

a. Existing land uses.

i. Check all uses that occur on, adjoining and near the project site.

Urban Industrial Commercial Residential (suburban) Rural (non-farm)

Forest Agriculture Aquatic Other (specify): Recreation and Open space

ii. If mix of uses, generally describe: _____

Low Density Residential, Medium Density Residential, High Density Residential, Institutional, Vacant, Utility

b. Land uses and covertypes on the project site.

| Land use or Covertype | Current Acreage | Acreage After Project Completion | Change (Acres +/-) |
|--|-----------------|----------------------------------|--------------------|
| • Roads, buildings, and other paved or impervious surfaces | 72 | 72.5 | 0.5 |
| • Forested | 0.00 | 0.00 | 0.00 |
| • Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural) | 3.86 | 0.46 | 3.40 |
| • Agricultural (includes active orchards, field, greenhouse etc.) | 0.00 | 0.00 | 0.00 |
| • Surface water features (lakes, ponds, streams, rivers, etc.) | 0.00 | 0.00 | 0.00 |
| • Wetlands (freshwater or tidal) | 0.00 | 0.00 | 0.00 |
| • Non-vegetated (bare rock, earth or fill) | 0.00 | 0.00 | 0.00 |
| • Other Describe: <u>N/A</u> | | | |

c. Is the project site presently used by members of the community for public recreation? Yes No
 i. If Yes: explain: Portions of the sewage conveyance will traverse under Village parkland.

d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? Yes No
 If Yes:
 i. Identify Facilities:
Childcare Center of the Hamptons, The Sunflower Path Southampton, Inc., Southampton Elementary School, Stony Brook Southampton Hospital, Alternatives for Children Southampton, The Hamptons Center for Rehabilitation and Nursing

e. Does the project site contain an existing dam? Yes No
 If Yes:
 i. Dimensions of the dam and impoundment:
 • Dam height: _____ feet
 • Dam length: _____ feet
 • Surface area: _____ acres
 • Volume impounded: _____ gallons OR acre-feet
 ii. Dam's existing hazard classification: _____
 iii. Provide date and summarize results of last inspection: _____

f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? Yes No
 If Yes:
 i. Has the facility been formally closed? Yes No
 • If yes, cite sources/documentation: _____
 ii. Describe the location of the project site relative to the boundaries of the solid waste management facility: _____
 iii. Describe any development constraints due to the prior solid waste activities: _____

g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? Yes No
 If Yes:
 i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred: _____

h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? Yes No
 If Yes:
 i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: Yes No
 Yes – Spills Incidents database Provide DEC ID number(s): See attached list in Section F
 Yes – Environmental Site Remediation database Provide DEC ID number(s): _____
 Neither database
 ii. If site has been subject of RCRA corrective activities, describe control measures: _____
 iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? Yes No
 If yes, provide DEC ID number(s): _____
 iv. If yes to (i), (ii) or (iii) above, describe current status of site(s): _____

v. Is the project site subject to an institutional control limiting property uses? Yes No

- If yes, DEC site ID number: _____
- Describe the type of institutional control (e.g., deed restriction or easement): _____
- Describe any use limitations: _____
- Describe any engineering controls: _____
- Will the project affect the institutional or engineering controls in place? Yes No
- Explain: _____

E.2. Natural Resources On or Near Project Site

a. What is the average depth to bedrock on the project site? _____ 1,500 feet

b. Are there bedrock outcroppings on the project site? Yes No
If Yes, what proportion of the site is comprised of bedrock outcroppings? _____ %

c. Predominant soil type(s) present on project site:

| | | |
|--------------------------------|-------|------|
| Haven loam (HaB) | _____ | 9 % |
| Bridgethampton silt loam (BgA) | _____ | 16 % |
| Urban land (Ur) | _____ | 14 % |

d. What is the average depth to the water table on the project site? Average: _____ 18 feet

e. Drainage status of project site soils: Well Drained: _____ 45 % of site
 Moderately Well Drained: _____ 55 % of site
 Poorly Drained _____ % of site

f. Approximate proportion of proposed action site with slopes: 0-10%: _____ 90 % of site
 10-15%: _____ 10 % of site
 15% or greater: _____ % of site

g. Are there any unique geologic features on the project site? Yes No
If Yes, describe: _____

h. Surface water features.

i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? Yes No

ii. Do any wetlands or other waterbodies adjoin the project site? Yes No
If Yes to either *i* or *ii*, continue. If No, skip to E.2.i.

iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? Yes No

iv. For each identified regulated wetland and waterbody on the project site, provide the following information:

- Streams: Name _____ Classification _____
- Lakes or Ponds: Name Agawam Lake (PWL ID 1701-0117) Classification C
- Wetlands: Name NYS Freshwater Wetland, Federal Wetland E1UBL Approximate Size 64.2 acres
- Wetland No. (if regulated by DEC) SH-6

v. Are any of the above water bodies listed in the most recent compilation of NYS water quality-impaired waterbodies? Yes No
If yes, name of impaired water body/bodies and basis for listing as impaired: Agawam Lake is impaired by Dissolved Oxygen and Phosphorus from Onsite Wastewater Treatment and Urban Runoff (Final 2018 Section 303(d) List)

i. Is the project site in a designated Floodway? Yes No

j. Is the project site in the 100-year Floodplain? Yes No

k. Is the project site in the 500-year Floodplain? Yes No

l. Is the project site located over, or immediately adjoining, a primary, principal or sole source aquifer? Yes No
If Yes:
i. Name of aquifer: Nassau-Suffolk Sole Source Aquifer

| | |
|---|--|
| m. Identify the predominant wildlife species that occupy or use the project site: Common birds _____ Small mammals and rodents _____ | |
| n. Does the project site contain a designated significant natural community? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes: <i>i.</i> Describe the habitat/community (composition, function, and basis for designation): _____ <i>ii.</i> Source(s) of description or evaluation: _____ <i>iii.</i> Extent of community/habitat: • Currently: _____ acres • Following completion of project as proposed: _____ acres • Gain or loss (indicate + or -): _____ acres | |
| o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes: <i>i.</i> Species and listing (endangered or threatened): _____ _____ _____ | |
| p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes: <i>i.</i> Species and listing: _____ _____ | |
| q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, give a brief description of how the proposed action may affect that use: _____ _____ | |
| E.3. Designated Public Resources On or Near Project Site | |
| a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If Yes, provide county plus district name/number: SUFF005 | |
| b. Are agricultural lands consisting of highly productive soils present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>i.</i> If Yes: acreage(s) on project site? _____ <i>ii.</i> Source(s) of soil rating(s): _____ | |
| c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes: <i>i.</i> Nature of the natural landmark: <input type="checkbox"/> Biological Community <input type="checkbox"/> Geological Feature <i>ii.</i> Provide brief description of landmark, including values behind designation and approximate size/extent: _____ _____ | |
| d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If Yes: <i>i.</i> CEA name: SGPA <i>ii.</i> Basis for designation: Protect groundwater <i>iii.</i> Designating agency and date: Agency: Long Island Regional Planning, Date: 3-19-93 | |

e. 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? Yes No

If Yes:

i. Nature of historic/archaeological resource: Archaeological Site Historic Building or District

ii. Name: See attached list in Section F

iii. Brief description of attributes on which listing is based:
See attached list in Section F

f. 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? Yes No

g. Have additional archaeological or historic site(s) or resources been identified on the project site? Yes No

If Yes:

i. Describe possible resource(s): Southampton Village Historic District

ii. Basis for identification: CRIS

h. Is the project site within five miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource? Yes No

If Yes:

i. Identify resource: _____

ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): _____

iii. Distance between project and resource: _____ miles.

i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666? Yes No

If Yes:

i. Identify the name of the river and its designation: _____

ii. Is the activity consistent with development restrictions contained in 6NYCRR Part 666? Yes No

F. Additional Information

Attach any additional information which may be needed to clarify your project.

If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

G. Verification

I certify that the information provided is true to the best of my knowledge.

Applicant/Sponsor Name Charlene Kagel-Belts Date 7/29/22

Signature  Title Village Administrator



Copyright © 2013 National Geographic Society. i-cubed

VILLAGE OF SOUTHAMPTON
 WASTEWATER TREATMENT PLANT AND
 SEWAGE CONVEYANCE SYSTEM



D&B ENGINEERS
 AND ARCHITECTS

ENVIRONMENTAL ASSESSMENT FORM
 LOCATION MAP

L:\6925_Southampton\EAF.mxd (7/27/2022)

**VILLAGE OF SOUTHAMPTON
WASTEWATER TREATMENT PLANT AND SEWAGE CONVEYANCE SYSTEM
FULL ENVIRONMENTAL ASSESSMENT FORM
PART 1 – SECTION F
ADDITIONAL INFORMATION**

A. PROPERTY OWNERS

| | | | |
|-------------------|---|-----------|------------|
| Property: | Wastewater Treatment Plant – Privately owned parcel to be acquired by the Village of Southampton through the Community Preservation Fund (CPF) | | |
| Property Address: | 1 Bowers Lane | | |
| Tax Map #: | 0900-132.00-03.00-006.000 | | |
| Property Owner: | Current Onwers: Arnold and Anita Dormer | Phone: | |
| | | E-Mail: | |
| Address: | 14 Flying Point Road | | |
| City/PO: | Southampton | State: NY | Zip: 11968 |

| | | | |
|-------------------|---|-----------|------------|
| Property: | Pump Station – Privately owned parcel to be leased by the Village of Southampton | | |
| Property Address: | 55 Windmill Lane | | |
| Tax Map #: | 0904-006.00-01.00-011.000 | | |
| Property Owner: | Verizon New York | Phone: | |
| | | E-Mail: | |
| Address: | PO Box 2749 | | |
| City/PO: | Addison | State: TX | Zip: 75001 |

| | | | |
|-------------------|--|---|------------|
| Property: | Gravity Mains on Village of Southampton Roads | | |
| Property Address: | Culver Street, Hill Street, Coopers Farm Road, Jobs Lane, Nugent Street, Jagger Lane, Cameron Street, Meeting House Lane, Hampton Road, Main Street, West Main Street, Windmill Lane, and North Sea Road | | |
| Tax Map #: | N/A | | |
| Property Owner: | Village of Southampton | Phone: 631-283-0247 | |
| | | E-Mail: Ckagel-betts@southamptonvillage.org | |
| Address: | 23 Main Street | | |
| City/PO: | Southampton | State: NY | Zip: 11968 |

| | | | |
|-------------------|---|---|----------------------|
| Property: | Force Mains on Village of Southampton Roads | | |
| Property Address: | Coopers Farm Road, Windmill Lane, Bowden Square, Powell Avenue, and David Whites Lane | | |
| Tax Map #: | N/A | | |
| Property Owner: | Village of Southampton | Phone: 631-283-0247 | |
| | | E-Mail: Ckagel-betts@southamptonvillage.org | |
| Address: | 23 Main Street | | |
| City/PO: | Southampton | State: NY | City/PO: Southampton |

| | | | |
|-------------------|---|---------|-------------------------------------|
| Property: | Gravity Mains on Village of Southampton Properties | | |
| Property Address: | See table below | | |
| Tax Map #: | See table below | | |
| Property Owner: | Village of Southampton | Phone: | 631-283-0247 |
| | | E-Mail: | Ckagel-betts@southamptonvillage.org |
| Address: | 23 Main Street | | |
| City/PO: | Southampton | State: | NY Zip: 11968 |

Gravity Mains on Village of Southampton Properties

| Property | Address | Tax Map #: |
|--|-----------------------------|---------------------------|
| Agawam Park Parking Lot | 88 Jobs Lane | 0904-015.00-02.00-022.002 |
| West Main Street Parking Lot | West Main Street | 0904-006.00-02.00-017.000 |
| West Main Street Parking Lot Driveway | Jobs Lane | 0904-015.00-01.00-019.001 |
| Southampton Arts Center | 25 Jobs Lane | 0904-015.00-01.00-024.001 |
| Maurhard Parking Lot | Main Street and Pine Street | 0904-006.00-04.00-022.000 |
| Maurhard Parking Lot Cameron Street Driveway | Cameron Street | 0904-006.00-04.00-031.000 |
| Main Street East End Parking Lot | Cameron Street | 0904-006.00-05.00-006.000 |

| | | | |
|-------------------|---|---------|-------------------------|
| Property: | Gravity Mains on Town of Southampton Roads | | |
| Property Address: | David Whites Lane | | |
| Tax Map #: | N/A | | |
| Property Owner: | Town of Southampton | Phone: | 631-283-6000 |
| | | E-Mail: | |
| Address: | 116 Hampton Road | | |
| City/PO: | Southampton | State: | NY Zip: 11968 |

E.I.h.i DEC Spills Incidents Database

| Spill # | Date | Address | Current Status of Site |
|----------------|-------------|--------------------------------|--|
| 0013717 | 03/31/2001 | WINDMILL LANE/HILL STREET | Spill Closed: 11/08/2002 |
| 0104931 | 08/07/2001 | 50 HILL STREET | Spill Closed: 10/17/2001 |
| 0104932 | 08/07/2001 | 25 HILL STREET | Spill Closed: 10/17/2001 |
| 0800148 | 04/03/2008 | 25 HILL STREET | Spill Closed: 10/30/2008 |
| 1307599 | 10/24/2013 | 119 COOPERS FARM RD | Spill Closed: 11/05/2013 |
| 8910984 | 02/17/1990 | 164 SO MAIN ST/JOBS LANE | Spill Closed: 02/21/1990 |
| 9212574 | 02/05/1993 | 53 JOBS LANE | Spill Closed: 01/10/2001 |
| 9510843 | 11/28/1995 | 87 1/2 JOBS LANE | Spill Closed: 04/30/2004 |
| 0702979 | 06/12/2007 | 53 JOBS LANE | Spill Closed: 07/11/2007 |
| 0710856 | 01/14/2008 | 53 JOBS LANE | Spill Closed: 03/17/2015 |
| 0805112 | 08/02/2008 | 25 JOBS LANE | Spill Closed: 11/03/2008 |
| 1103666 | 07/01/2011 | 69 JOBS LANE | Spill Closed: 09/23/2011 |
| 8907385 | 10/25/1989 | NUGENT STREET | Spill Closed: 10/27/1989 |
| 9400902 | 04/19/1994 | 60 WINDMILL LANE/NUGENT STREET | Spill Closed: 08/01/2016 |
| 9408890 | 10/04/1994 | WINDMILL ST & NUGENT ST | Spill Closed: 06/20/1995 |
| 9408953 | 10/04/1994 | WINDMILL STREET/NUGENT | Spill Closed: 04/30/1999 |
| 9408983 | 10/04/1994 | WINDMILL STREET/NUGENT | Spill Closed: 04/30/1999 |
| 0207647 | 10/23/2002 | 25 NUGENT STREET | Spill Closed: 11/24/2002 |
| 9102907 | 06/13/1991 | 13 CAMERON STREET | Spill Closed: 06/14/1991 |
| 0412196 | 02/15/2005 | MEETING HOUSE LANE/MAIN STREET | Spill Closed: 02/09/2006 |
| 8703010 | 07/14/1987 | HAMPTON ROAD & ELM STREET | Spill Closed: 07/16/1987 |
| 8707581 | 12/03/1987 | HAMPTON ROAD | Spill Closed: 01/08/1988 |
| 9609145 | 10/22/1996 | 20 HAMPTON ROAD | Spill Closed: 07/25/1997 |
| 1207129 | 10/19/2012 | 1 HAMPTON RD | Spill Closed: 01/24/2017 |
| 1214285 | 01/04/2013 | 20 HAMPTON ROAD | Spill Closed: 09/20/2013 |
| 1214289 | 01/04/2013 | 20 HAMPTON RD | Spill Closed: 01/04/2013 |
| 9109986 | 12/19/1991 | 25 MAIN STREET | Spill Closed: 07/27/1992 |
| 9112224 | 02/28/1992 | 10 MAIN STREET | Spill Closed: 07/06/1992 |
| 9301128 | 04/23/1993 | 64 MAIN STREET | Spill Closed: 04/23/1993 |
| 9401115 | 04/22/1994 | 37 SOUTH MAIN STREET | Spill Closed: 04/22/1994 |
| 9401197 | 04/25/1994 | 79 MAIN STREET | Spill Closed: 04/26/1994 |
| 9509525 | 11/01/1995 | 93B NORTH MAIN STREET | Spill Closed: 11/01/1995 |
| 9602644 | 05/23/1996 | NORTH MAIN/ELM STREET | Spill Closed: 05/24/1996 |
| 9610336 | 11/18/1996 | 136 MAIN STREET | Spill Closed: 05/01/1997 |
| 0412196 | 02/15/2005 | MEETING HOUSE LANE/MAIN STREET | Spill Closed: 02/09/2006 |
| 0504699 | 07/19/2005 | 60 MAIN STREET | Spill Closed: 08/17/2010 |
| 1005931 | 08/29/2010 | 36 MAIN STREET | Spill Closed: 08/30/2010 |
| 1203563 | 07/12/2012 | 167 MAIN STREET | Spill Closed: 07/23/2012 |
| 1205118 | 08/21/2012 | 143 MAIN ST | Spill Closed: Not closed #2 fuel oil spilled on soil unknown amount |
| 1214741 | 01/18/2013 | 129 N MAIN STREET | Spill Closed: 07/15/2013 |

| Spill # | Date | Address | Current Status of Site |
|---------|------------|-----------------------------------|--|
| 1408368 | 11/13/2014 | 35 MAIN STREET | Spill Closed: 11/13/2017 |
| 1908221 | 11/07/2019 | 36 MAIN ST | Spill Closed: 04/01/2022 |
| 9400902 | 04/19/1994 | 60 WINDMILL LANE/NUGENT STREET | Spill Closed: 08/01/2016 |
| 9408890 | 10/04/1994 | WINDMILL ST & NUGENT ST | Spill Closed: 06/20/1995 |
| 9408953 | 10/04/1994 | WINDMILL STREET/NUGENT | Spill Closed: 04/30/1999 |
| 9408983 | 10/04/1994 | WINDMILL STREET/NUGENT | Spill Closed: 04/30/1999 |
| 0013717 | 03/31/2001 | WINDMILL LANE/HILL STREET | Spill Closed: 11/08/2002 |
| 2100594 | 04/20/2021 | 60 WINDMILL LANE | Spill Closed: Not closed #2 fuel oil spilled unknown amount |
| 8607504 | 03/09/1987 | NORTH SEA ROAD | Spill Closed: 01/12/1989 |
| 9005857 | 08/27/1990 | NORTH SEA ROAD | Spill Closed: 08/27/1990 |
| 9011035 | 01/16/1991 | NORTH SEA ROAD/COUNTY ROAD 39 | Spill Closed: 02/06/1991 |
| 9205046 | 08/02/1992 | 13 NORTH SEA ROAD | Spill Closed: 08/03/1992 |
| 9212092 | 01/22/1993 | NORTH SEA ROAD | Spill Closed: 01/25/1993 |
| 9400929 | 04/19/1994 | COUNTY ROAD 39 X NORTH SEA RD | Spill Closed: 05/29/1998 |
| 9402210 | 05/13/1994 | NORTH SEA RTE 39 | Spill Closed: 05/16/1994 |
| 9404579 | 07/03/1994 | NORTH SEA & RTE 39 | Spill Closed: 02/09/2001 |
| 9410807 | 11/14/1994 | 17 NORTH SEA ROAD | Spill Closed: 11/15/1994 |
| 9912613 | 02/04/2000 | 270 NORTH SEA ROAD | Spill Closed: 10/11/2000 |
| 0002896 | 06/07/2000 | COUNTY ROAD 39/NORTH SEA ROAD | Spill Closed: 06/08/2000 |
| 0004575 | 07/17/2000 | COUNTY ROAD 39/NORTH SEA ROAD | Spill Closed: 12/11/2000 |
| 0602019 | 05/24/2006 | 611 NORTH SEA ROAD/COUNTY ROAD 39 | Spill Closed: 12/04/2007 |
| 1111607 | 12/30/2011 | PROSPECT STREET / NORTH SEA ROAD | Spill Closed: 03/06/2012 |
| 1216653 | 03/22/2013 | 53 NORTH SEA ROAD | Spill Closed: 03/05/2014 |
| 1216791 | 03/27/2013 | 53 NORTH SEA ROAD | Spill Closed: 03/28/2013 |
| 9508258 | 10/05/1995 | 82 POWELL AVENUE | Spill Closed: 10/06/1995 |
| 0485689 | 03/23/2005 | 87 POWELL AVENUE | Spill Closed: 08/04/2005 |
| 8804518 | 08/22/1988 | COUNTY ROAD & DAVID WHITES LANE | Spill Closed: 09/15/1988 |
| 8902780 | 06/16/1989 | DAVIDS WHITE LANE | Spill Closed: 06/16/1989 |
| 9010177 | 12/19/1990 | 375 DAVID WHITES LANE | Spill Closed: 06/19/1991 |
| 9111639 | 01/11/1992 | DAVID WHITE LA & COUNTY ROAD 39 | Spill Closed: 04/16/1992 |
| 9112386 | 03/04/1992 | COUNTY ROAD 39 & DAVID WHITE LANE | Spill Closed: 06/12/1992 |
| 9112707 | 03/11/1992 | 1 MARINER DRIVE/DAVID WHITES LANE | Spill Closed: 05/04/1992 |
| 9200080 | 04/02/1992 | DAVID WHITES LANE | Spill Closed: 04/22/1992 |
| 9410033 | 10/26/1994 | DAVID WHITES LANE | Spill Closed: 07/06/1998 |
| 9500964 | 04/24/1995 | DAVID WHITE LANE | Spill Closed: 03/08/2004 |
| 9504743 | 07/18/1995 | 201 DAVID WHITES LANE | Spill Closed: 05/31/1996 |
| 9602641 | 05/23/1996 | DAVID WHITES LANE | Spill Closed: 09/30/1997 |
| 9903933 | 07/06/1999 | DAVID WHITES LANE | Spill Closed: 12/24/1999 |
| 9907029 | 09/13/1999 | 201 DAVID WHITES LANE | Spill Closed: 10/12/1999 |
| 9913964 | 03/10/2000 | DAVID WHITES LANE | Spill Closed: 01/27/2004 |
| 0209052 | 12/03/2002 | DAVID WHITES | Spill Closed: 09/30/2010 |
| 0304911 | 08/08/2003 | DAVID WHITE LANE/RTE 39 | Spill Closed: 02/09/2004 |
| 0509908 | 11/18/2005 | 277 DAVID WHITE'S LANE | Spill Closed: 10/08/2010 |

| Spill # | Date | Address | Current Status of Site |
|----------------|-------------|------------------------|-------------------------------|
| 0708155 | 10/17/2007 | 201 DAVID WHITES LANE | Spill Closed: 08/12/2010 |
| 0708642 | 11/08/2007 | 201 DAVID WHITES LANE | Spill Closed: 08/12/2010 |
| 1004630 | 07/23/2010 | DAVID WHITE LN/MONTAUK | Spill Closed: 12/03/2010 |
| 1214620 | 01/15/2013 | 200 DAVID WHITES LANE | Spill Closed: 09/09/2013 |
| 1303192 | 06/24/2013 | DAVID WHITES LANE | Spill Closed: 03/30/2015 |
| 1311944 | 03/22/2014 | DAVID WHITES LANE | Spill Closed: 09/03/2014 |

"Date Spill Closed" means the date the spill case was closed by the case manager in the Department of Environmental Conservation (the Department). The spill case was closed because either: a) the records and data submitted indicate that the necessary cleanup and removal actions have been completed and no further remedial activities are necessary, or b) the case was closed for administrative reasons (e.g., multiple reports of a single spill consolidated into a single spill number). The Department however reserves the right to require additional remedial work in relation to the spill, if in the future it determines that further action is necessary.

E.3.e.ii and E.3.e.iii Historic/Archaeological Resources

| National Register Buildings | Brief description of attributes on which listing is based |
|---|---|
| <p><u>Southampton Village Historic District</u></p> <ul style="list-style-type: none"> • NR Number: 90NR01920 • Property is considered Locally Significant. • Property embodies the distinctive characteristics of a type, period, or method of construction or that represents the work of a master, or possesses high artistic values, or represents a significant and distinguishable entity whose components lack individual distinction. | <ul style="list-style-type: none"> • The largest district in the multiple resources area with 374 contributing buildings, six contributing sites and 115 non-contributing properties. • The District is significant for its concentration of domestic architectures which reflects the community's early (mid-17th century) settlement, the area's gradual agrarian growth during the 18th and 19th centuries, and its rapid development as a fashionable, upper-income vacation retreat at the turn of the century (1900). • The northern sections of the District contain the historic core of the community including a compact, relatively intact, central business district and adjacent year-round residential neighborhood. • The District contains an extensive and significant concentration of historic resources. |
| <p><u>Rogers Mansion Museum Complex</u></p> <ul style="list-style-type: none"> • NR Number: 11NR06272 • Property is considered Locally Significant. • Property associated with events that have made a significant contribution to the broad patterns of our history. | <ul style="list-style-type: none"> • The Complex contains eleven contributing buildings and two contributing structures. • Collectively, the buildings and structures on the property are considered significant as a museum village type and illustrate the theme of collecting, preserving and interpreting Southampton's historic past. |
| <p><u>North Main Street Historic District— Southampton</u></p> <ul style="list-style-type: none"> • NR Number: 90NR01918 • Property is considered Locally Significant. • Property embodies the distinctive characteristics of a type, period, or method of construction or that represents the work of a master, or possesses high artistic values, or represents a significant and distinguishable entity whose components lack individual distinction. | <ul style="list-style-type: none"> • The District contains twenty-four contributing buildings and two contributing buildings. • The District is significant as a small, cohesive, largely intact concentration of residences and commercial buildings which reflect Southampton's early settlement and extensive turn-of-the-century development from 1740 up to 1910. • North Main Street reflects an important episode in the Village's historic development, recalling the year-round working-class development which accompanied the community's transformation into a fashionable turn-of-the-century (1900) vacation retreat. |

| Eligible Properties | Brief description of attributes on which listing is based |
|--|---|
| <p><u>Cooper-Kendrick House</u> USN Number: 10357.000221</p> | <p>Home of Captain Mercator Cooper built in 1805 By Nathan Cooper</p> |