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/CPF

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

The CPF Water Quality Improvement Project Plan (WQIPP) Fund follows the objectives in the adopted Water Quality Improvement Project Plan (see http://www.southamptontownny.gov/DocumentCenter/View/7318)

To apply for funding, an application must be **COMPLETED** and submitted along with detailed narratives and supporting information as described below. The Water Quality Advisory Committee will rank and score projects based on the Scoring Criteria contained in the application materials. Parcel acquisitions will be considered on an ongoing basis, independent of this application process.

A Public Hearing and Town Board Resolution will be required for individual or multiple projects in excess of $50,000.

WATER QUALITY IMPROVEMENT PROJECT MEANS:

[1] DEFINITIONS:

1. **Wastewater Treatment Improvement Project** means the planning, design, construction, acquisition, enlargement, extension, or alteration of a wastewater treatment facility, including alternative systems to a sewage treatment plant or traditional septic system, to treat, neutralize, stabilize, eliminate or partially eliminate sewage or reduce pollutants in treatment facility effluent, including permanent or pilot demonstration wastewater treatment projects, or equipment or furnishings thereof. Stormwater collecting systems and vessel pumpout stations shall also be included within the definition of a wastewater improvement project.

1. **Nonpoint source abatement and control program projects** developed pursuant to section eleven-b of the soil and water conservation districts law, title 14 of article 17 of the environmental conservation law, section 1455b of the federal coastal zone management act, or article forty-two of the executive law;

2. **Aquatic Habitat Restoration Project** means the planning, design, construction, management, maintenance, reconstruction, revitalization, or rejuvenation activities intended to improve waters of the state of ecological significance or any part thereof, including, but not limited to ponds, bogs, wetlands, bays, sounds, streams, rivers, or lakes and shorelines thereof, to support a spawning, nursery, wintering, migratory, nesting, breeding, feeding, or foraging environment for fish and wildlife and other biota.

3. **Pollution Prevention Project** means the planning, design, construction, improvement, maintenance or acquisition of facilities, production processes, equipment or buildings owned or operated by municipalities for the reduction, avoidance, or elimination of the use of toxic or hazardous substances or the generation of such substances or pollutants so as to reduce risks to public health or the environment, including changes in production processes or raw materials; such projects shall not include incineration, transfer from one medium of release or discharge to another medium, off-site or out-of-production recycling, end-of-pipe treatment or pollution control.

4. **The Operation of the Peconic Bay National Estuary Program**, as designated by the United States Environmental Protection Agency. Such projects shall have as their purpose the improvement of existing water quality to meet existing specific water quality standards. Projects which have as a purpose to permit or accommodate new growth shall not be included within this definition.

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

Project Proposal: Sagaponack Pond Aquatic Habitat Restoration Plan

Project Applicant: Board of Trustees for the Freeholders and the Commonalty of the Town of Southampton

Project Title: Sagaponack Pond Aquatic Habitat Restoration Plan

Project Contact Information: Board of Trustees for the Freeholders and the Commonalty of the Town of Southampton

Project Manager Name: c/o James Duryea

Project Manager Title: Environmental Analyst

Project Manager Affiliation: Town of Southampton- Trustees Division

Project Manager Address: 116 Hampton Road, Southampton NY 11968

Project Manager Phone: (631)287-5717

Project Manager Email: Jduryea@southamtontownny.gov

Property Owner Name: Board of Trustees for the Freeholders and the Commonalty of the Town of Southampton

Property Owner Affiliation: Town of Southampton

Property Owner Mailing Address: 116 Hampton Road, Southampton NY 11968

Property Owner Phone: (631)287-5717

Property Owner Email: ewarner@southamtontownny.gov and Shorowitz@southamptontownny.gov

Project Location: Sagaponack Pond

Project Location SCTM #(S): 900-8-1-33, 900-117-1-42.2, 908-8-1-34, 900117-2-26.1

Type of Project

Reduction

Remediation

Restoration

Project Summary (2-3 sentences): See Project Narrative and description

Submittal date: March 12, 2019, Re-submittal April 26, 2019

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1. PROJECT TYPE (check all that apply)

Meets at least one of the definitions of "Water Quality Improvement Project" per State Law Chapter 551 cited above

- ☐ **Wastewater Treatment Improvement Project**
- ☑ **Non-point source abatement and control**
- ☑ **Aquatic habitat restoration**
- ☑ **Pollution prevention**
- ☐ **Stormwater collecting system**
- ☐ **Vessel Pump out station**
- ☐ **Operation of Peconic Bay National Estuary Program (Grant Match)**

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

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

*Narrative must explain how project is relevant to Water Quality Improvement Project Plan (WQIPP) goals

To create a Water Quality Improvement Plan to incorporated Environmental and Human Health Risks at Sagaponack Pond; Working Towards a Sustainable Plan for Remediation, Tidal Flushing to increase Water Quality, to manage buffers to increase native vegetation to promote filtering excess nutrients into Sagaponack Pond.

3. PROJECT DESCRIPTION

- ☐ **Narrative describes in detail existing conditions of applicable groundwater/sub-watershed/waterbody and includes most recent and relevant data available (provide sources)**

See Project Description Attached

- ☑ **Photos of exiting conditions are included** (Attach Photos)
- ☑ **Location map is included** (Attach Map)
- ☑ **Narrative describes in detail what the issue is and how the proposed solution addresses the issue in the context of Reduction, Remediation and/or Restoration as per the CPF Water Quality Project Plan**

See Project Narrative

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☐ **Narrative describes proposed technology in sufficient detail and includes information on its demonstrated efficacy in similar setting (may include published data)** (Attach pages as needed)

N/A

☐ **Narrative indicates how the project supports Town of Southampton, Suffolk County, NYSDEC Long Island Nitrogen Action Plan (LINAP) or other adopted goals/policies (provide references with pages numbers, etc.)** (Attach pages as needed)

☑ **A State Environmental Quality Review Act (SEQRA) Long or Short Environmental Assessment Form (EAF) is completed and included with application** https://www.dec.ny.gov/permits/6191.html

OTHER REQUIRED INFORMATION

☐ If Stormwater system or Drainage is proposed, the narrative and design specifications indicate compliance with the New York State Stormwater Design Manual (2015 and as updated)

☐ If project is related to farmland, the narrative addresses any Agricultural Stewardship Plan or other long term strategy for Nitrogen abatement

☐ If the project is for a municipal facility or infrastructure, information pertaining to Town or Village budgetary allocations for ongoing maintenance is provided

☑ If the project is for habitat restoration, the narrative addresses how underlying causes are being ameliorated and expected outcomes for local species populations or other ecological considerations are given

☐ 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

☐ If the project is requesting grant match for the Peconic Estuary Program, 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

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4. WATER QUALITY BENEFIT

☑Yes	☐No	☐N/A	Nitrogen, Pathogen or Pollutant of Concern (POC) Existing Condition & Target Reduction is identified
☐Yes	☐No	☑N/A	Anticipated reduction by proposed technology is provided by utilizing EPA's Spreadsheet Tool for Evaluating Pollutant Load (STEPL) http://it.tetratech-ffx.com/steplweb/ or similar standardized methodology (provide)
☑Yes	☐No	☐N/A	Related to above, the narrative describes how data will be collected and reported over time
☐Yes	☐No	☑N/A	Narrative indicates how the useful life of the proposed technology will meet or exceed five (5) years
☑Yes	☐No	☐N/A	A total cost budget is included (see pages 6-7 for template) with a cost-benefit discussion and any details related to matching funds (e.g. in-kind services, pre-and post-monitoring, etc)

5. DURATION OF PROJECT

- ☑ Projected timeline is included (described any permits needed and time frame/status of required approvals)
- ☑ Narrative explains if project is multi-year or phased and includes budget/milestones for each year and Phase

6. PROJECT READINESS

- ☑ Narrative describes current stage of planning (e.g. conceptual, preliminary, full construction documents) and includes conceptual or sketch plans where applicable.
- ☑ Narrative describes community support for the project (attach letters of support, public hearing testimony, news coverage, community meeting minutes, other outreach as applicable) or addresses potential community opposition/educational needs.

7. MANAGEMENT, EXPERIENCE, ABILITY

- ☑ Narrative describes experience in completing similar projects
- ☑ Narrative describes project staffing, oversight and administration
- ☑ Narrative describes qualifications of project staff, consultants and contractors (as applicable)
- ☐ If Homeowner's Association or other community group, describe formal structure and responsibilities of members involved
- ☐ If private property (e.g. farmland), the narrative describes who is being contracted to do the work (qualifications, etc.)

8. REQUIRED CERTIFICATIONS

- ☐ Commitment is provided via Letter of Intent (LOI)* for non-municipal entities or adopted resolution for Incorporated Villages *
  Note: A LOI template is provided in the application packet
- ☐ Plans stamped by NYS licensed Engineer and/or surveyor, where applicable
- ☐ STEPL calculations or equivalent prepared by NYS licensed Engineer, where applicable
- ☑ Certify that request for proposed funding is not otherwise required by Local, State or Federal Law and intended benefits cannot be achieved without external funding
- ☑ Certify that the application will report on project outcomes, including monitoring results

9. MAINTENANCE, MONITORING & EVALUATION

- ☑ A plan related to ongoing maintenance, monitoring and evaluation (reporting to the Town) is provided
- ☑ The Monitoring Plan will provide water quality data at regular intervals for a minimum of five (5) years

10. EDUCATIONAL COMPONENT

- ☑ The project sponsor will erect signage displaying the intent and benefit of the project on site
- ☑ As part of the evaluation, the project sponsor will submit a write-up of lessons learned and future needs

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

PLANNING/ENGINEERING/DESIGN	Town CPF Request	Matching Funds Committed	Matching Funds Pending	Estimated Total Project Costs
In-house labor (provide separate sheet with calculations)				
Task 1-	$-	$-	$-	$-
Task 2-	$-	$-	$-	$-
Task 3-	$-	$-	$-	$-
Task 4-	$-	$-	$-	$-
Task 5-	$-	$-	$-	$-
Task 6-	$-	$-	$-	$-
	$-	$-	$-	$-
In House Labor Total	$-0	$-0	$-0	$-0

Materials/Supplies				
	$-	$-	$-	$-
	$-	$-	$-	$-
	$-	$-	$-	$-
	$-	$-	$-	$-
	$-	$-	$-	$-
	$-	$-	$-	$-
	$-	$-	$-	$-
Materials/Supplies Total	$-0	$-0	$-0	$-0

Contractual Services				
Preparation of Sagaponack Aquatic Habitat Restoration Plan	$-30000	$-	$-	$-
Removal of sand for tidal exchange 4 years	$-80000	$-	$-	$-
Sagaponack Pond proposed study by Chris Gobler 4 years (Attached)	$-224000	$-	$-	$-
	$-	$-	$-	$-
	$-	$-	$-	$-
	$-	$-	$-	$-
	$-	$-	$-	$-
Contractual Services Total	$-334000	$-0	$-0	$-0

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CONSTRUCTION AND SITE IMPROVEMENTS	Town CPF Request	Matching Funds Committed	Matching Funds Pending	Estimated Total Project Costs
In-house labor (provide separate sheet with calculations)				
Task 1-	$-	$-	$-	$-
Task 2-	$-	$-	$-	$-
Task 3-	$-	$-	$-	$-
Task 4-	$-	$-	$-	$-
Task 5-	$-	$-	$-	$-
Task 6-	$-	$-	$-	$-
	$-	$-	$-	$-
In House Labor Total	$-0	$-0	$-0	$-0

Equipment/Materials/Supplies				
	$-	$-	$-	$-
	$-	$-	$-	$-
	$-	$-	$-	$-
	$-	$-	$-	$-
	$-	$-	$-	$-
	$-	$-	$-	$-
	$-	$-	$-	$-
Equipment/Materials/Supplies Total	$-0	$-0	$-0	$-0

Contractual Services				
	$-	$-	$-	$-
	$-	$-	$-	$-
	$-	$-	$-	$-
	$-	$-	$-	$-
	$-	$-	$-	$-
	$-	$-	$-	$-
	$-	$-	$-	$-
Contractual Services Total	$-0	$-0	$-0	$-0

ENGINEERING TOTAL	$-334000	$-0	$-0	$-0

Total Project Cost	$-334000
Total CPF Funds Requested	$-334000

Applicant matching funds committed	$-
Applicant matching funds pending approval (e.g. grant request submitted pending determination)	$-

Source of matching funds	Amount

CP-13107 (rev. 4/2018)

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

CONTACT INFORMATION

Municipality: Board of Trustees of the Freeholders and Commonalty of the Town of Southampton

Contact First and Last Name: Edward J. Warner Jr. (President)

Contact Address: 116 Hampton Road Southampton NY 11968

Contact Phone: (631)287-5717

Contact Email: Ewarner@southamptontownny.gov

PROJECT INFORMATION

Project Title: Sagaponack Pond Aquatic Habitat Restoration Plan

Project Location: Sagaponack Pond

Project Description (1-3 sentences): See Project description attached

ANTICIPATED PROJECT TIMELINE

Begin: Summer 2019

Complete: Summer 2023

Notes:

Copy of WQIPP Scoring System

Project Name: Hypothetical Project **Number:** 2018-G-3

Proj Manager: **Status:**

Mandatory Criteria		YES	No	Initials
MC.1	Project Application Completed with Detailed Info	X		1
MC.2	Impact of the Project on Water Quality	X		2
MC.3	Duration of Benefits Exceed 5 Years	X		3
MC.4	Funding Requirement	X		
MC.5	Demonstrated Technology	X		
MC.6	Ownership Commitment LOI	X		

Total Score
39

Only change numbers with Red font

Water Quality Improvement Impact		Percent Weight		Input (1 to 5) Grade	Score
WQ.1	Impact on Water Quality is Measurable	20%	6	1	1.2
WQ.2	Impact on Water Quality is Significant	40%	12	2	4.8
WQ.3	Project serves Water Quality Priorities stated in the Project Plan	20%	6	3	3.6
WQ.4	If not Cost Efficeint, does project provide a prototype or catalyst for something beneficial to water quality	20%	6	4	4.8
	SubTotal	100%	30		14.4

Cost Factors		Percent Weight		Grade	Score
C.1	Cost estimate is well substantiated	40%	12	3	7.2
C.2	Project provides high value for cost	20%	6	2	2.4
C.3	Does project leverage other sources of funding	10%	3	4	2.4
C.4	Cost overun contingency has been considered	10%	3	5	3
C.5	Maintenance Costs have been estimated and provided	20%	6	2	2.4
	SubTotal	100%	30		17.4

Management, Experience, and Ability		Percent Weight		Grade	Score
MEA.1	Owner is a Municipality	10%	1.5	1	0.3
MEA.2	Project Type is a WQIPP Standard	25%	3.75	4	3

MEA.3	Project Supports Town, County, LINAP, and other Adopted Goals	25%	3.75	5	3.75
MEA.4	Applicant has demonstrated experience in completing similar projects	40%	6	2	2.4
	SubTotal	100%	15		9.45

Project Readiness		**Percent**	**Weight**	**Grade**	**Score**
PR.1	Significant Community Support	20%	3	4	2.4
PR.2	Absense of Community Opposition	20%	3	5	3
PR.4	Owner has Committed with LOI	20%	3	3	1.8
PR.4	Sources of Funding not provided by CPF - LOI	20%	3	3	1.8
PR.5	Permitability	20%	3	1	0.6
	SubTotal	100%			9.6

Maintenance, Monitoring, and Evaluation		**Percent**	**Weight**	**Grade**	**Score**
MME.1	Provisions made for long term maintenance of the project post construction	50%	5	4	4
MME.2	Stewardship, monitoring, enforcement protocols in place	50%	5	3	3
	SubTotal	100%	10		7

Scored Criteria		**Category Weighting**
WQ	Water Quality Improvement Impact	30
C	Cost Factors	30
MEA	Management, Experience, and Ability	15
PR	Project Readiness	15
MME	Maintenance, Monitoring, and Evaluation	10
		100

BOARD OF TRUSTEES
OF THE FREEHOLDERS AND COMMONALTY OF THE
TOWN OF SOUTHAMPTON

EDWARD J. WARNER JR.
PRESIDENT

SCOTT M. HOROWITZ
SECRETARY/TREASURER

WILLIAM PELL IV

BRUCE A. STAFFORD

ANN E. WELKER

116 HAMPTON ROAD
SOUTHAMPTON, NEW YORK 11968
PHONE: 631 287-5717 FAX: 631 287-5723
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Sagaponack Pond Inlet Management

Project Narrative

Taking in nearly 180 acres, Sagaponack Pond is valued for its natural beauty and biodiversity and is one of Southampton's greatest assets. Blessed with a wide variety of aquatic and terrestrial habitats, the region is recognized as significant Coastal Fish and Wildlife Habitat by both the U.S. Fish and Wildlife (USFWS) and New York State Department of State.

Sagaponack Pond is not only recognized as a coastal resource of national and state wide significance, but lies within the Town of Southampton's CPF High Priority Water Quality Improvement Area, as depicted on the CPF Water Quality Improvement Project Plan Map for Sagaponack. Periodic inlet tidal flushing is crucial for the purposes of maintaining and enhancing water quality for Sagaponack Pond.

Sagaponack is under threat from a range of impact, including, among others, water quality improvement, harmful algal blooms (HABs), historic loss of wetlands and naturally vegetated buffers, shoreline erosion, inundation of farmland, shore hardening, road constructions residential development, severe storms and climate change. The effects of sediments, nutrients fertilizers, pesticides, septic effluent and storm water runoff are of particular concern, as these contaminants affect surface water quality, oxygen levels, algal blooms the health of the wetlands and natural habitats, biodiversity, and recreational use. Due to the threats to the Pond, the town has included Sagaponack Pond in its High Priority Water Quality Improvement Zone.

The Board of Trustees of the Freeholders and commonalty of the Town of Southampton (herein "Board of Trustees" or "Trustees") have managed the tidal flushing of the Sagaponack Inlet (also known as the Sagaponack Cut). The purpose of the management of the inlet is to allow the pond to drain and to restore water levels close to the mean tide levels of the ocean and to flush pond water of contaminants and pathogens, increase dissolved oxygen levels and to increase salinity to create brackish conditions favored by shellfish, certain wetland vegetation, and wetland dependent wildlife species.

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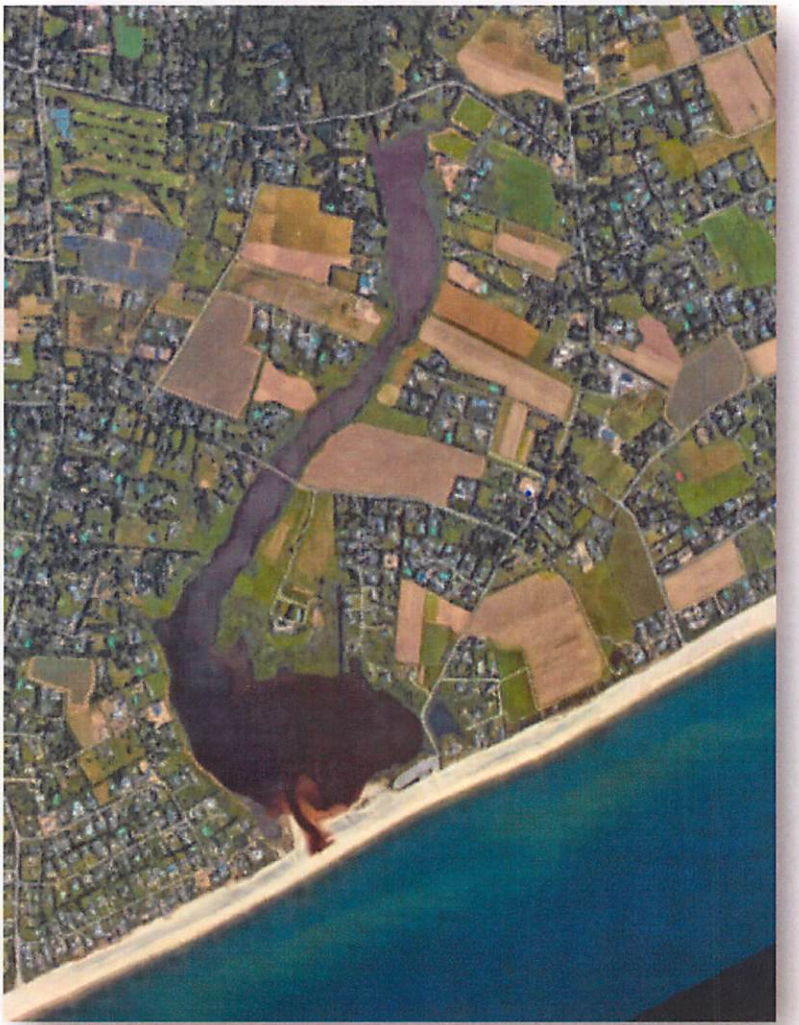
Project Description

The project for approval is for creation of a Water Quality Improvement Plan to incorporate Environmental and Human Health Risks at Sagaponack Pond; Working Towards a Sustainable Plan for Remediation, Tidal Flushing to increase Water Quality, to manage buffers, to increase native vegetation and to promote filtering excess nutrients before entering Sagaponack Pond.

The Sagaponack Water Quality Improvement Plan will include planning, design, construction, revitalization, or rejuvenation activities intended to improve waters of the state of ecological significance Sagaponack pond to support a spawning, nursery, wintering migratory, nesting breeding, feeding, or foraging environment for Fish and wildlife and other biota by incorporating all issues including and not limited to the following: Hydrology, Threats, Management issues, Water Quality, HABs, Swimming Closures, Agricultural Lands, Roads, Water Quality Management/Practices Real Time Measurements, Upland Buffer Installation recommendations, Aquatic Habitat and Watershed Restoration Initiatives, Local Wetland Laws and best management practices for Homeowners and Landscapers, Tidal Inlet Openings, dynamics, and dimensions, Pond Conditions, Endangered Species History, Inventory and management, Potential Permeable Reactive Barriers and Recreation.

The plan will address these topics and issues as well as alternative measures and current methods/practices that improve the overall water quality of Sagaponack Pond. Water quality studies, current tidal flushing and proposed real time water quality sensors will be incorporated in the Sagaponack Water Quality Improvement Plan.

Environmental and Human Health Risks at Sagaponack Pond; Working Towards a Sustainable Plan for Remediation



A proposal provided by Dr. Christopher Gobler

Stony Brook University
School *of* Marine and
Atmospheric Sciences

April, 2019

Current conditions:

Dr. Christopher Gobler of Stony Brook University has been measuring levels of algae in Sagaponack Pond on a limited basis since 2014. On each occasion - despite the random nature of the sampling - blue green algae blooms were identified, resulting in the New York State Department of Environmental Conservation (NYSDEC) issuing public warnings regarding use of the water body.

Blue-green algae are a serious environmental concern and the genera found in Sagaponack Pond (e.g. *Anabanea, Microcystis*) produce toxins that can sicken humans, pets, or wildlife that ingest contaminated water. Microcystin, a gastrointestinal toxin produced by blue-green algae, has been present in Sagaponack Pond, at up to 0.5 microgram per liter. According to the USEPA 0.3 microgram per liter is a drinking water risk and 4 microgram per liter is a recreational hazard. Furthermore, other blue-green algal toxins may also be present but have not been assessed to date.

These blue-green algal blooms can be promoted by high levels of nitrogen and phosphorus. While mitigating nitrogen or phosphorus will be required to alleviate these blooms, a lack of information regard the relative importance of nitrogen compared to phosphorus and what the major sources of nitrogen and phosphorus are currently prohibit effective management plans from being implemented. In addition, while the entire Pond is permanently closed to shellfishing by the NYSDEC due to unsanitary conditions, there is no data available regarding the precise types and levels of bacterial contamination in the Pond, making it impossible to implement remedial measures. The suitability of the Pond for recreation is also unknown.

Despite the serious threats facing Sagaponack Pond, this body of water has never been studied in a comprehensive manner and there are no historical data sets available. In addition to those noted above, serious knowledge gaps regarding the conditions in Sagaponack Pond include sediment composition and the temporal and spatial variability of temperature, salinity, dissolved oxygen, pH, nitrogen, phosphorus, algal diversity and biomass, water clarity and bacterial levels in the Pond. The annual opening of the inlet to the Atlantic Ocean makes many aspects of Sagaponack Pond more complex than they would be if it was a stagnant pond. Developing a broad and deep knowledge base that addresses these key unknowns is necessary before a plan can be developed to combat the documented problems with regard to blue-green algae and bacterial contamination.

Proposed course of study and action:

1. **Temporal and spatial monitoring of water quality.** Over an annual cycle a series of parameters central to the functioning of the Pond will be carefully monitored. Sampling will be frequent during months of high recreational use and known water quality problems (summer, fall) and less frequent at other times. Discrete samples will be collected to measure temperature, salinity, dissolved oxygen, pH, total phytoplankton levels, blue green algae levels, plankton

diversity, cyanotoxins, bacterial contamination, nitrogen levels, and phosphorus levels. These measurements will help characterize the basic condition within the Pond as well as the extent of some of the already known problems with regard to blue-green algae, bacterial contamination, and nutrients (nitrogen and phosphorus).

Discrete water sampling will be complemented with continuous monitoring devices. Traditionally, monitoring of coastal water bodies has been performed by collecting and transporting water to a laboratory that is subsequently processed and analyzed, with data eventually becoming available. This time line of discovery can miss key ecological changes that can happen on a day-night, multi-day cycle, or even a tidal cycle. For example, night time levels of dissolved oxygen in coastal water bodies can sometimes be dangerously low. However, this would not be evident in samples taken during the day. In addition, severe and sudden changes in levels of toxic blue-green algae can occur in one-to-two day periods in response to environmental forcing such as severe rainfall events. Recently developed *in situ* monitoring devices can take continuous, real time measurements of key water quality indicators that can be instantly telemetered to a web site, greatly expanding the temporal breadth of data collected and the ability to respond to environmental events. Real-time measurements of parameters such as water level, temperature, salinity, dissolved oxygen, blue-green algae, and nitrogen will help to more accurately ascribe rapid water quality changes to precise environmental processes. In addition, these devices will enable scientists, residents, and managers to continuously observe and rapidly respond to changes in Sagaponack Pond.

2. Determination of factors promoting the growth of toxic blue-green algae. As described above, toxic blue-green algae have caused blooms in Sagaponack Pond every year since 2014. Because of their threat to human, pet, wildlife and ecosystem health, mitigating the occurrence of these blooms is highly desirable. Blue-green algae are known to flourish in warm, stagnant waters that are high in phosphorus. However, the brackish nature of Sagaponack Pond opens the possibility that nitrogen is more important in promoting these events than phosphorus. Moreover, while it is possible that opening the inlet to the ocean may effectively mitigate these blooms, this action may also have unintended consequences such as the release of intracellular toxins into the water. A series of experiments will be performed to assess the role of nitrogen, phosphorus, temperature, salinity, and the opening of the ocean inlet in regulating the occurrence of toxic blue-green algae blooms in Sagaponack Pond. These findings will be used to inform an effective management plan to mitigate the occurrence of these toxic blooms.

3. Microbial source tracking. According to the NYSDEC, Sagaponack Pond is currently closed to shellfish harvest during all months of the year due to unsanitary conditions caused by elevated levels of fecal bacteria. The precise levels of these bacteria are unknown, but will be determined via objective #1. Even once these levels are known, a key obstacle to generating a remediation plan for bacterial contamination is that the source(s) of the potentially pathogenic bacteria is unknown. A plan for mitigating bacteria from human wastewater would be entirely different than a plan focused on the mitigation of animal feces. Moreover, mitigation of feces-derived bacteria from birds that live on the Pond would differ radically from plans to minimize dog or deer feces

that might emanate from road run-off. Recently, genomic techniques have advanced such that the ultimate source of bacterial contamination derived from feces can be definitively identified and quantified. The Gobler Lab will implement such microbial source tracking techniques using a newly acquired digital polymerase chain reaction machine that provides quantification of genes associated with fecal bacteria originating from humans, birds, dogs, deer, birds, or geese. Surveys will be performed spatially, seasonally, and in response to large rainfall events in order to definitively quantify these bacteria. This definitive and quantitative information is necessary in order to develop a plan to eliminate fecal bacterial contamination of Sagaponack Pond.

4. Evaluation of nutrient sources to Sagaponack Pond: Excessive loading of nutrients like nitrogen and/or phosphorus promote the environmental problems plaguing Sagaponack Pond including blue-green algal blooms. However, it is unclear whether the majority of nutrients originate in groundwater, streams, run-off, sediments, or the atmosphere, and if fertilizer or wastewater are the main sources. For this objective, nutrient levels emanating from multiple sources will be measured and the sediments of Sagaponack Pond will be fully surveyed and characterized. This data will be used to develop models that quantify the amounts of nitrogen and phosphorus entering Sagaponack Pond. With data from our proposed field and modeling effort, the largest sources of nitrogen and phosphorus will be identified so that it is possible to create a fact-based, measurable solution to the current conditions.

5. Assess the suitability of Sagaponack Pond for filter feeding bivalves. Bivalves such as oysters, clams, and mussels have the capacity to filter large amounts of water and, via this process, improve water quality. As such, bivalves have been part of the restoration plan for multiple estuaries across New York and beyond. However, the current status of bivalve populations in Sagaponack Pond is unknown as is the suitability of the pond for the growth, survival, and reproduction of bivalves. For this objective, the suitability of the pond for bivalves will be explored on multiple levels. The environmental conditions measured in objective 1 will be considered relative to the conditions required for the growth, survival, and reproduction of multiple bivalve species. Experiments will be performed using water from Sagaponack Pond to assess bivalve filtration rates relative to ideal conditions. Discussions will be initiated with the NYSDEC to assess options of the restoration of bivalves within this ecosystem.

6. Findings and reporting. Once the aforementioned objectives have been successfully completed, a comprehensive report regarding the factors causing water quality impairment within Sagaponack Pond will be compiled. The report will provide insight with regard to the most efficient and cost-effective approaches for improving water quality conditions. While many actions could be taken now, if they address only a small fraction of the total problem, conditions will not change or could even deteriorate. A final report summarizing the results of the studies undertaken can also be presented orally to interested individuals.

Time course and budget:

This proposal would represent a two-year project with data collected through two seasonal cycles. Preliminary observations can be presented within the first year. A full budget accounting for personnel, fringe benefits, supplies, equipment, travel, and University fees can be provided upon request.

Action	Outcome	Timeline	Budget
Temporal and spatial monitoring of water quality	▪ Quantify levels of temperature, salinity, dissolved oxygen, pH, total phytoplankton levels, blue green algae levels, plankton diversity, cyanotoxins, bacterial contamination, nitrogen levels, and phosphorus levels. ▪ Quantify and characterize pathogenic bacteria in Sagaponack Pond. ▪ Acquire real-time, minute-by-minute data to more accurately ascribe rapid water quality changes to precise environmental processes via a monitoring device. ▪ Provide accurate and robust representation of average water quality condition.	2019-2022	$178,000 for research personnel, materials, supplies, monitoring equipment, and data analysis $89,000 supported by Southampton Town Trustees.
Determination of factors promoting the growth of toxic blue-green algae.	▪ Quantify the role of nitrogen vs phosphorus in promoting blue-green algae in Sagaponack Pond. ▪ Identify the extent to which remediation plans should focus on phosphorus alone, nitrogen alone, or on both nitrogen and phosphorus.	2019-2022	$78,000 for, research personnel, and laboratory supplies $39,000 supported by Southampton Town Trustees.
Microbial source tracking.	▪ Use digital polymerase chain reaction to quantify genes associated with fecal bacteria originating from humans, birds, dogs, deer, birds, or geese. ▪ Surveys will be performed spatially, seasonally, and in response to large rainfall events in order to definitively quantify these bacteria.	2019-2022	$58,000 for, research personnel, and laboratory supplies $29,000 supported by Southampton Town Trustees.
Evaluation of nutrient sources to Sagaponack Pond	▪ Pinpoint the location and the source of excess nutrients (i.e groundwater, streams, run off, or deposition from the atmosphere) ▪ Determine if wastewater, agriculture, or fertilizer are the main nutrient sources ▪ Characterize composition of bottom sediments in the Pond. ▪	2019-2022	$58,000 for research personnel and data analysis. $29,000 supported by Southampton Town Trustees.
Assess the suitability of Sagaponack Pond for filter feeding bivalves.	▪ Assess environmental conditions relative to known requirements ▪ Assess bivalve performance in Sagaponack Pond water ▪ Assess ability to introduce and restore bivalve within Sagaponack Pond	2019-2022	$38,000 for research personnel and supplies. $19,000 supported by Southampton Town Trustees.
Findings and reporting.	▪ Provide interim recommendations ▪ Provide final written report. ▪ Provide final oral report.	Annual	$38,000 for research personnel. $19,000 supported by Southampton Town Trustees.
		Total	**$448,000 totoal** **$224,000** supported by

			Southampton Town Trustees.

List of Attachments

1. NYSDEC Permit #1-4736-03007/00013
2. Sagaponack Pond Opening and Closing History
3. Dredging Totals 2016-2018

Attachment 1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Permits, Region 1
SUNY @ Stony Brook, 50 Circle Road, Stony Brook, NY 11790
P: (631) 444-0365 I F: (631) 444-0360
www.dec.ny.gov

October 12, 2016

Board of Trustees of the Freeholders and Commonalty of the Town of Southampton
Town Hall
116 Hampton Rd.
Southampton, NY 11968

Re: Permit #1-4736-03007/00013

Dear Permittee:

In conformance with the requirements of the State Uniform Procedures Act (Article 70, ECL) and its implementing regulations (6NYCRR, Part 621) we are enclosing your permit for the referenced activity. Please read all permit conditions contained in the permit carefully to ensure compliance during the term of the permit. If you are unable to comply with any conditions, please contact us at the above address.

Also enclosed is a permit sign which is to be conspicuously posted at the project site and protected from the weather and a Notice of Commencement/Completion of Construction. Please note, the permit sign and Notice of Commencement/Completion of Construction form are sent to either the permittee or the facility application contact, not both.

Sincerely,

Claire Werner

Claire Werner
Environmental Analyst

cc: Inter-Science Research Associates, Inc.
BOH-TW
Wildlife
File

NYSDEC Approval

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, and all conditions included as part of this permit.

Permit Administrator: GEORGE W HAMMARTH, Deputy Regional Permit Administrator
Address: NYSDEC Region 1 Headquarters
SUNY @ Stony Brook|50 Circle Rd
Stony Brook, NY 11790 -3409

Authorized Signature: George W. Hammarth Date 10/12/16

Distribution List

INTER-SCIENCE RESEARCH ASSOCIATES INC
Habitat - TW
Wildlife - w/o plans
Claire Werner

Permit Components

NATURAL RESOURCE PERMIT CONDITIONS

WATER QUALITY CERTIFICATION SPECIFIC CONDITION

GENERAL CONDITIONS, APPLY TO ALL AUTHORIZED PERMITS

NOTIFICATION OF OTHER PERMITTEE OBLIGATIONS

NATURAL RESOURCE PERMIT CONDITIONS - Apply to the Following Permits: TIDAL WETLANDS; WATER QUALITY CERTIFICATION; EXCAVATION & FILL IN NAVIGABLE WATERS

1. **Notice of Commencement** At least 48 hours prior to commencement of the project, the permittee and contractor shall sign and return the top portion of the enclosed notification form certifying that they are fully aware of and understand all terms and conditions of this permit. Within 30 days of completion of project, the bottom portion of the form must also be signed and returned, along with photographs of the completed work.

2. **Post Permit Sign** The permit sign enclosed with this permit shall be posted in a conspicuous location on the worksite and adequately protected from the weather.

3. **No Construction Debris in Wetland or Adjacent Area** Any debris or excess material from construction of this project shall be completely removed from the adjacent area (upland) and removed to an approved upland area for disposal. No debris is permitted in wetlands and/or protected buffer areas.

4. **No Disturbance to Vegetated Tidal Wetlands** There shall be no disturbance to vegetated tidal wetlands or protected buffer areas as a result of the permitted activities.

5. **No Side-casting or Temporary Storage** Excavated sediment shall be placed directly into the approved disposal/dewatering site or conveyance vehicle. No side-casting (double dipping) or temporary storage of dredged material is authorized.

6. **Leave a Uniform Bottom Elevation** All dredging shall be conducted so as to leave a uniform bottom elevation free of mounds or holes.

7. **Prohibition Period for Fish, Shellfish, Birds** To protect spawning finfish, shellfish and nesting shorebirds, including threatened and/or endangered species, no regulated activities may occur between April 1 and September 30, inclusive, of any calendar year.

8. **Grade Channel Side Slopes** All side slopes of the dredge channel will have a maximum of 1:3 slope.

9. **Dredged Materials on the Beach** All material deposited on the beach shall be of compatible (equal to or larger) grain size to the naturally occurring beach. If at any time during the dredging operation the composition of the dredged material changes and becomes unsuitable for beach placement, dredging operations shall cease immediately and the office of Regional Habitat - TW shall be contacted with a proposed plan to correct the problem and/or for alternative placement. No further activity will commence without the department's approval.

10. **Dredged Depth Survey** Within 30 days of completion of the dredging operation, an as-dredged depth survey of the dredged area shall be submitted to:

NYSDEC - Regional Habitat - TW
SUNY @ Stony Brook
50 Circle Rd
Stony Brook, NY 11790-3409
Attn: Compliance

11. **Dredging Once Per Year** Dredging shall be undertaken no more than once in any calendar year unless specifically authorized by the department.

12. **Notice of Maintenance Dredging** For maintenance dredging projects, the permittee shall submit a Notice of Commencement prior to each dredging occurrence, specifying the disposal site (including an updated site plan). Upon completion, a Notice of Completion shall be submitted to the address indicated on that notice form, including the amount of material dredged and deposited at the approved disposal site.

13. **No Disturbance to Vegetated Tidal Wetlands, Dunes** There shall be no disturbance to vegetated dune areas or vegetated tidal wetland areas as a result of the permitted activities.

14. **Dredged/Excavated Material** All material dredged/excavated to open the cut shall remain in the Atlantic Ocean littoral system.

15. **Maximum Slope of Sediment Deposition Area** All side slopes of sediment deposition area (not the channel side slopes) must not exceed 1:10.

16. **Conformance With Plans** All activities authorized by this permit must be in strict conformance with the approved plans submitted by the applicant or applicant's agent as part of the permit application. Such approved plans were prepared by Inter-Science Research Associates, Inc. dated 7/7/16, stamped NYSDEC approved on 10/11/16.

17. **State May Order Removal or Alteration of Work** If future operations by the State of New York require an alteration in the position of the structure or work herein authorized, or if, in the opinion of the Department of Environmental Conservation it shall cause unreasonable obstruction to the free navigation of said waters or flood flows or endanger the health, safety or welfare of the people of the State, or cause loss or destruction of the natural resources of the State, the owner may be ordered by the Department to remove or alter the structural work, obstructions, or hazards caused thereby without expense to the State, and if, upon the expiration or revocation of this permit, the structure, fill, excavation, or other modification of the watercourse hereby authorized shall not be completed, the owners, shall, without expense to the State, and to such extent and in such time and manner as the Department of Environmental Conservation may require, remove all or any portion of the uncompleted structure or fill and restore to its former condition the navigable and flood capacity of the watercourse. No claim shall be made against the State of New York on account of any such removal or alteration.

18. **State May Require Site Restoration** If upon the expiration or revocation of this permit, the project hereby authorized has not been completed, the applicant shall, without expense to the State, and to such extent and in such time and manner as the Department of Environmental Conservation may lawfully require, remove all or any portion of the uncompleted structure or fill and restore the site to its former condition. No claim shall be made against the State of New York on account of any such removal or alteration.

19. **No Interference With Navigation** There shall be no unreasonable interference with navigation by the work herein authorized.

20. **Precautions Against Contamination of Waters** All necessary precautions shall be taken to preclude contamination of any wetland or waterway by suspended solids, sediments, fuels, solvents, lubricants, epoxy coatings, paints, concrete, leachate or any other environmentally deleterious materials associated with the project.

21. **State Not Liable for Damage** The State of New York shall in no case be liable for any damage or injury to the structure or work herein authorized which may be caused by or result from future operations undertaken by the State for the conservation or improvement of navigation, or for other purposes, and no claim or right to compensation shall accrue from any such damage.

WATER QUALITY CERTIFICATION SPECIFIC CONDITIONS

1. **Water Quality Certification** The authorized project, as conditioned pursuant to the Certificate, complies with Section 301, 302, 303, 306, and 307 of the Federal Water Pollution Control Act, as amended and as implemented by the limitations, standards, and criteria of state statutory and regulatory requirements set forth in 6 NYCRR Section 608.9(a). The authorized project, as conditioned, will also comply with applicable New York State water quality standards, including but not limited to effluent limitations, best usages and thermal discharge criteria, as applicable, as set forth in 6 NYCRR Parts 701, 702, 703, and 704.

GENERAL CONDITIONS - Apply to ALL Authorized Permits:

1. **Facility Inspection by The Department** The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71- 0301 and SAPA 401(3).

The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when requested by the Department.

A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site or facility. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

2. **Relationship of this Permit to Other Department Orders and Determinations** Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

3. **Applications For Permit Renewals, Modifications or Transfers** The permittee must submit a separate written application to the Department for permit renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing. Submission of applications for permit renewal, modification or transfer are to be submitted to:

Regional Permit Administrator
NYSDEC Region 1 Headquarters
SUNY @ Stony Brook|50 Circle Rd
Stony Brook, NY11790 -3409

4. **Submission of Renewal Application** The permittee must submit a renewal application at least 30 days before permit expiration for the following permit authorizations: Excavation & Fill in Navigable Waters, Tidal Wetlands, Water Quality Certification.

5. **Permit Modifications, Suspensions and Revocations by the Department** The Department reserves the right to exercise all available authority to modify, suspend or revoke this permit. The grounds for modification, suspension or revocation include:

a. materially false or inaccurate statements in the permit application or supporting papers;

b. failure by the permittee to comply with any terms or conditions of the permit;

c. exceeding the scope of the project as described in the permit application;

d. newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit;

e. noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

6. **Permit Transfer** Permits are transferrable unless specifically prohibited by statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.

NOTIFICATION OF OTHER PERMITTEE OBLIGATIONS

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification
The permittee, excepting state or federal agencies, expressly agrees to indemnify and hold harmless the Department of Environmental Conservation of the State of New York, its representatives, employees, and agents ("DEC") for all claims, suits, actions, and damages, to the extent attributable to the permittee's acts or omissions in connection with the permittee's undertaking of activities in connection with, or operation and maintenance of, the facility or facilities authorized by the permit whether in compliance or not in compliance with the terms and conditions of the permit. This indemnification does not extend to any claims, suits, actions, or damages to the extent attributable to DEC's own negligent or intentional acts or omissions, or to any claims, suits, or actions naming the DEC and arising under Article 78 of the New York Civil Practice Laws and Rules or any citizen suit or civil rights provision under federal or state laws.

Item B: Permittee's Contractors to Comply with Permit
The permittee is responsible for informing its independent contractors, employees, agents and assigns of their responsibility to comply with this permit, including all special conditions while acting as the permittee's agent with respect to the permitted activities, and such persons shall be subject to the same sanctions for violations of the Environmental Conservation Law as those prescribed for the permittee.

Item C: Permittee Responsible for Obtaining Other Required Permits
The permittee is responsible for obtaining any other permits, approvals, lands, easements and rights-of-way that may be required to carry out the activities that are authorized by this permit.

Item D: No Right to Trespass or Interfere with Riparian Rights
This permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the permitted work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.

95-20-1 (8/87)—9d

New York State
Department of Environmental Conservation

NOTICE

The Department of Environmental Conservation (DEC) has issued permit(s) pursuant to the Environmental Conservation Law for work being conducted at this site. For further information regarding the nature and extent of work approved and any Departmental conditions on it, contact the Regional Permit Administrator listed below. Please refer to the permit number shown when contacting the DEC.

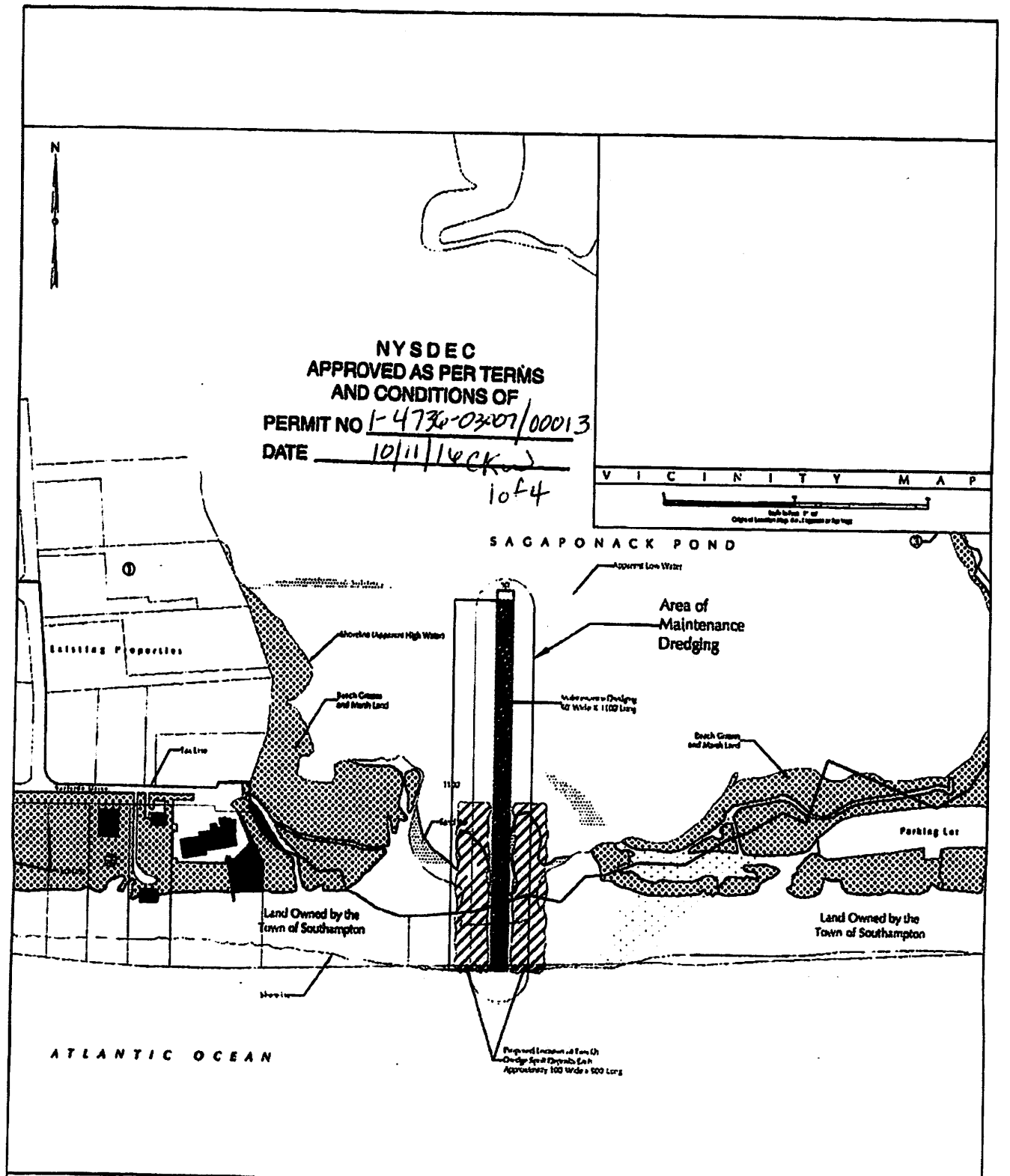
Regional Permit Administrator

ROGER EVANS

Permit Number 1-4736-03007/00013

Expiration Date 10/10/2026

NOTE: This notice is NOT a permit



Purpose: Proposed Dredge Channel

Datum: NGVD 1929

Adjacent Property Owners:

1. 311 Surfside LLC, 778 Park Ave Fl 16, New York NY
2. Southampton Town, 116 Hampton Rd, Southampton NY
3. Southampton Town, 116 Hampton Rd, Southampton NY

File: M:\CLIENTS\Southampton Town-Board of Trustees\Sagaponack Pond\Sag Pond ACOE 07062016.dwg

Full Site View

0 400' 800'

Scale: 1"=400'

Client:

Board of Trustees of the Freeholders and Commonalty of the Town of Southampton
116 Hampton Road, Town Hall, Southampton, NY 11968

Disclaimer: This drawing is for concept design purposes only. Prior to construction, all design elements should be evaluated by the owner, site contractor and/or engineer to ensure proper design.

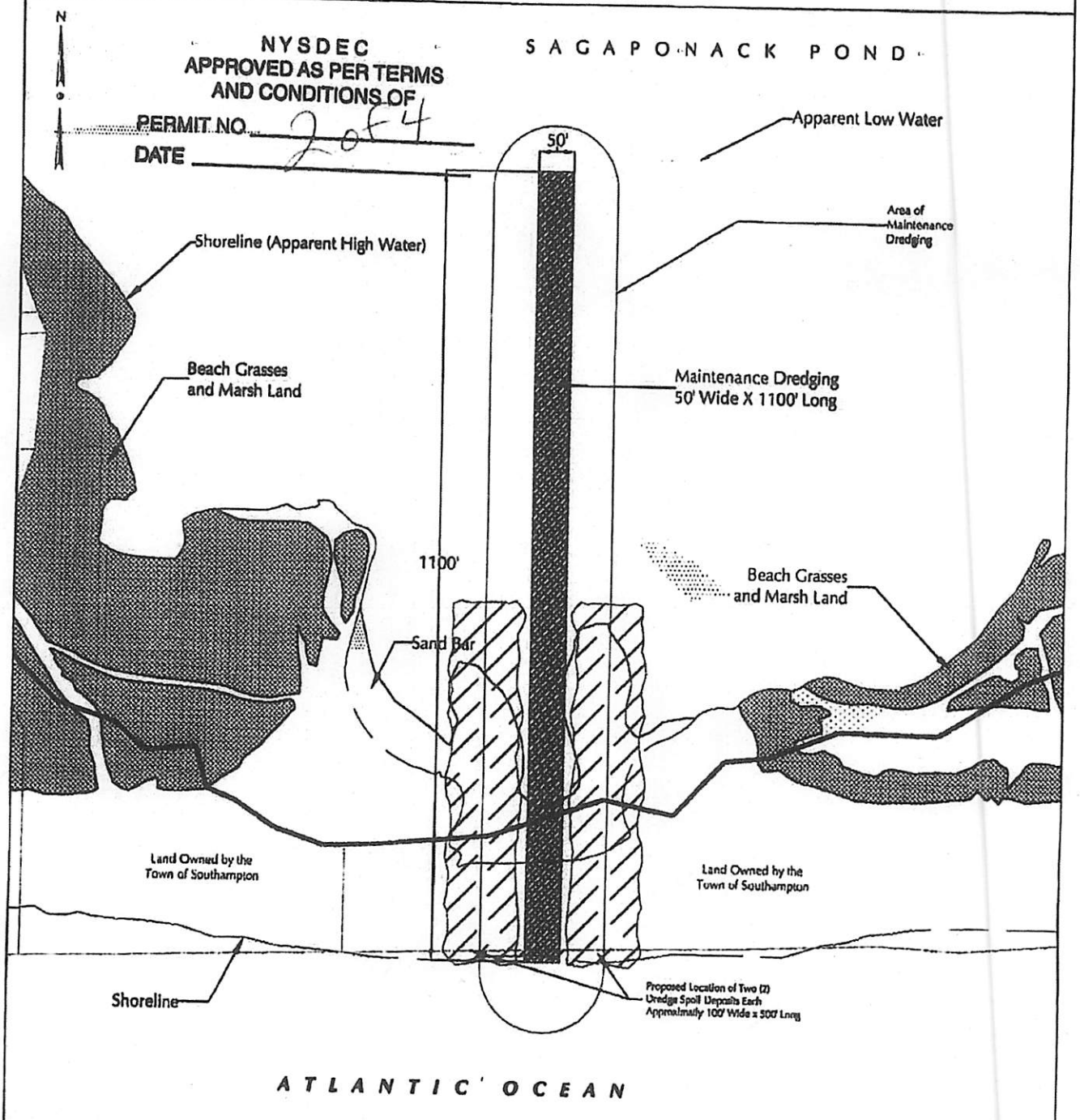
Name of Project:
Dredging Plan/ Existing Conditions

Location of Project:

In: Sagaponack Pond
County: Suffolk County
Applicant: Inter-Science, Research Associated, Inc.
36 Nugent Street
Southampton New York 11969

Sheet 1 of 4

Date: 7/07/2016



Purpose: Proposed Dredge Channel

Datum: NGVD 1929

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1. 311 Surfside LLC, 778 Park Ave FL 16, New York NY
2. Southampton Town, 116 Hampton Rd, Southampton NY
3. Southampton Town, 116 Hampton Rd, Southampton NY

File: M:\CLIENTS\Southampton Town-Board of Trustees\Sagaponack Pond\Sagg Pond ACOE 07082016.dwg

Detail View

0 400' 800'

Scale: 1"=400' 200' CKW

Client:

Board of Trustees of the Freeholders and Commonalty of the Town of Southampton
116 Hampton Road, Town Hall, Southampton, NY 11968

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In: Sagaponack Pond
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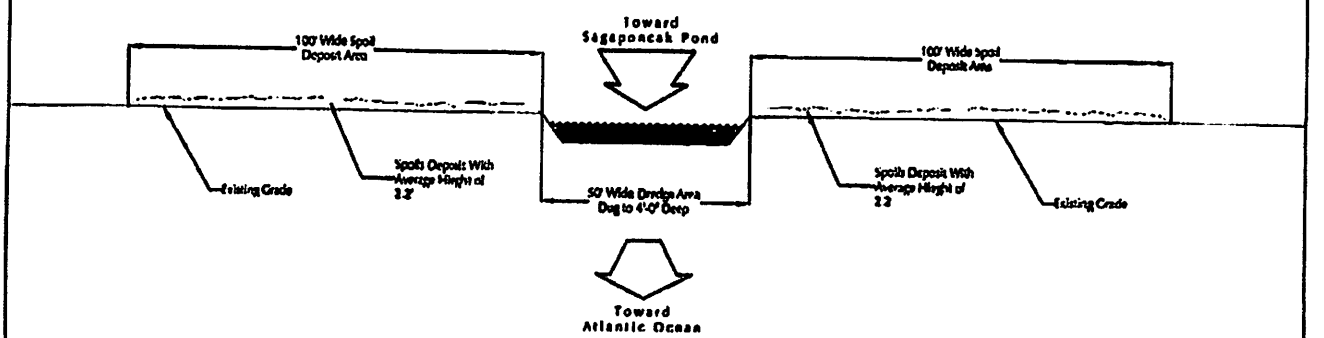
Applicant: Inter-Science, Research Associated, Inc.
36 Nugent Street
Southampton New York 11969

Sheet 1 of 4

Date: 7/07/2016

NYSDEC
APPROVED AS PER TERMS
AND CONDITIONS OF
PERMIT NO 3 of 4
DATE



Purpose: Proposed Dredge Channel

Datum: NGVD 1929

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3. Southampton Town, 116 Hampton Rd, Southampton NY

File: M:\CLIENTS\Southampton Town-Board of Trustees\Sagaponack Pond\Sagg Pond ACOE 07062016.dwg

Profile View

0 400' 800'

Scale: 1"=400' & 40' CRW

Client:
Board of Trustees of the Freeholders and Commonalty of the Town of Southampton
116 Hampton Road, Town Hall, Southampton, NY 11969

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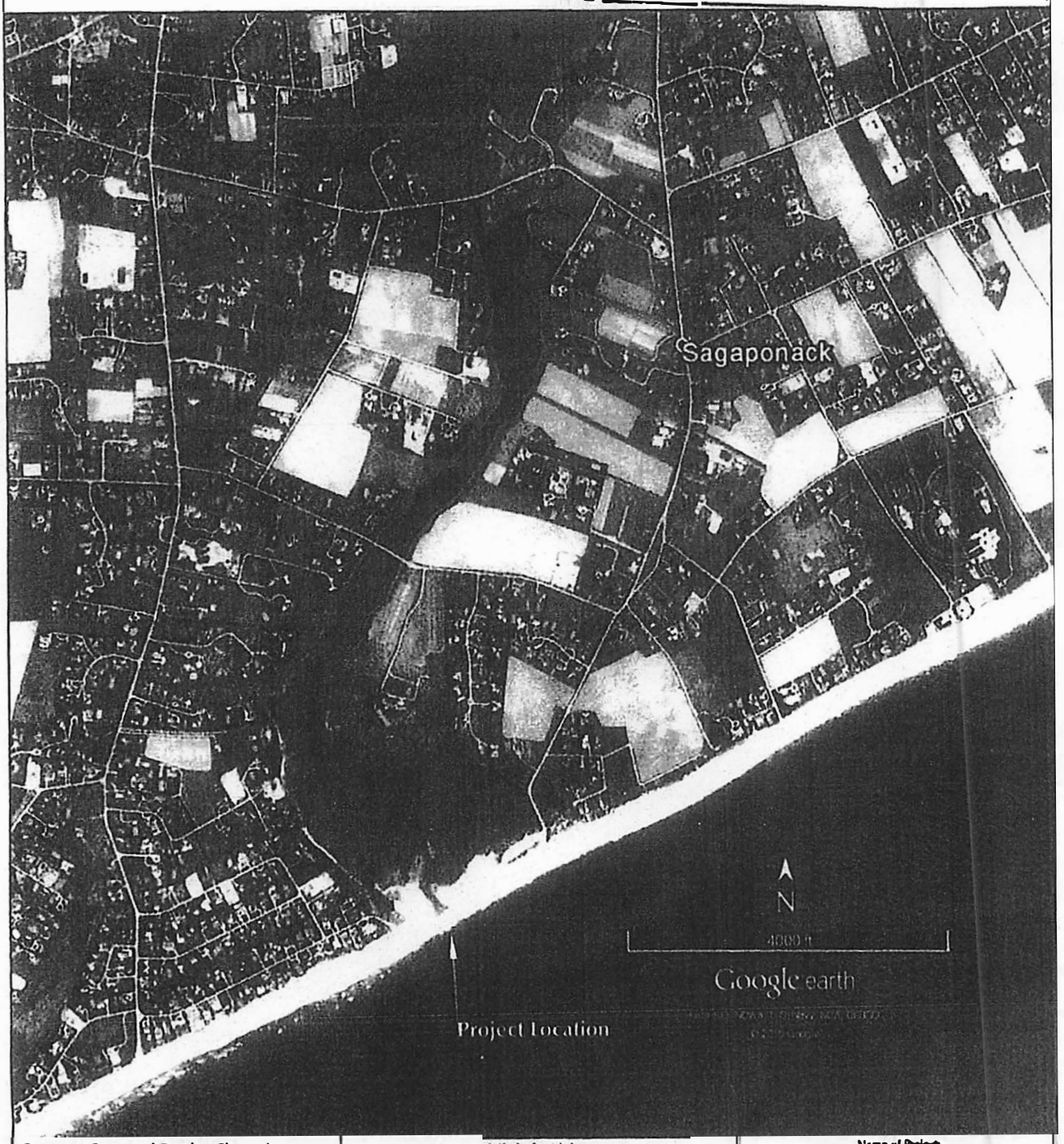
Name of Project:
Dredging Plan/ Existing Conditions

Location of Project:
In: Sagaponack Pond
County: Suffolk County
Applicant: Inter-Science, Research Associated, Inc.
36 Nugent Street
Southampton New York 11969

Sheet 1 of 4

Date: 7/07/2016

NYSDEC
APPROVED AS PER TERMS
AND CONDITIONS OF
PERMIT NO 4 of 4
DATE



Purpose: Proposed Dredge Channel

Datum: NGVD 1929

Adjacent Property Owners:
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2. Southampton Town, 116 Hampton Rd, Southampton NY
3. Southampton Town, 116 Hampton Rd, Southampton NY

File: M:\CLIENTS\Southampton Town-Board of Trustees\Sagaponack Pond\Sag Pond ACOE 07062016.dwg

Vicinity Map

0 400'

Scale: 1"=400'

Client:
Board of Trustees of the Freeholders and Commonalty of the Town of Southampton
116 Hampton Road, Town Hall, Southampton, NY 11968

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Name of Project:
Dredging Plan/ Existing Conditions

Location of Project:
In: Sagaponack Pond
County: Suffolk County
Applicant: Inter-Science, Research Associated, Inc.
36 Nugent Street
Southampton New York 11969

Sheet 1 of 4

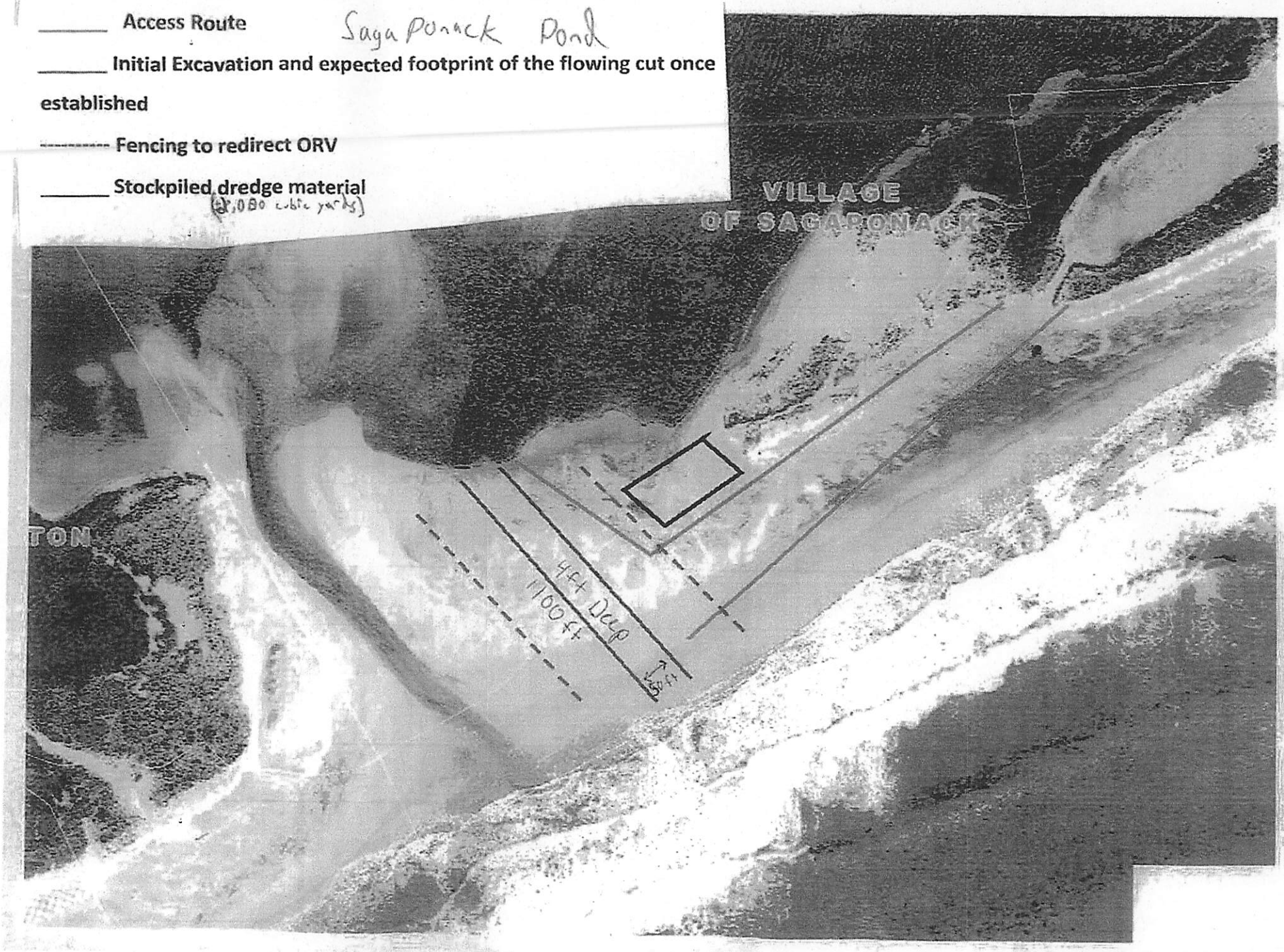
Date: 7/07/2016

_____ Access Route

_____ Initial Excavation and expected footprint of the flowing cut once established

---------- Fencing to redirect ORV

_____ Stockpiled dredge material (2,000 cubic yards)



Attachment 2

Sagg Opened	How Opened	Sagg Closed	How Closed
01/05/90			
08/22/90			
09/04/90			
12/18/90			
02/05/91			
04/03/91			
11/21/91			
12/18/91			
04/02/92			
05/19/92			
08/07/92			
11/30/92			
02/04/93			
06/15/93			
09/23/93			
12/07/93			
10/24/94			
12/07/94			
03/10/95			
05/22/95			
08/23/95			
10/18/95			
12/01/95			
03/27/96			
07/10/96			
08/13/96			
09/09/96			
10/30/96			
11/09/96			
11/13/96			
04/08/97			
05/07/97			
07/15/97			
09/02/97			
09/08/97			
11/05/97			
12/16/97			
01/27/98			
03/14/98			
04/21/98			
05/26/98			
09/14/98			
01/21/99	Thayer		
03/19/99			
10/08/99	Thayer		
02/02/00			
04/24/00	Thayer		
06/07/00	Thayer		
12/06/00	Thayer	01/01/01	nature

03/10/01	Foster				
05/07/01	Thayer				
06/05/01	Thayer				
12/12/01	Thayer				
06/03/02	Thayer				
10/21/02	Thayer				
11/22/02	Thayer				
02/24/03	Thayer				
04/01/03	Thayes				
04/29/03	First Coastal			Beach nourishment/Binder	
05/27/03	Thayer				
06/23/03	Thayer				
08/12/03	Thayer				
10/22/03	Thayer				
12/10/03	Thayer				
03/08/04	Thayer				
04/20/04	Thayer				
06/07/04	Thayer				
09/13/04	Thayer	09/16/04	nature		
10/05/04	Thayer				
11/18/04	Thayer				
12/21/04	Thayer		nature		
02/24/05	Thayer				
03/31/05	Thayer				
05/06/05	Nature			Per call from Jon S. and Jennifer	
07/05/05	Thayer				
09/21/05	Thayer				
10/16/05	Nature				
04/19/06	Thayer				
05/19/06	Thayer				
06/28/06	Thayer				
07/24/06	Thayer			opening in p.m. for safety reasons	
08/29/06	Thayer				
09/18/06	Thayer			opened in a.m.	
10/13/06	Thayer				
10/28/06	Nature				
11/20/06	Chesterfield			will be opened in afternoon.	
02/21/07	Nature				
05/17/07	Nature				
06/20/07	Thayer			will be opened	
07/20/07	Nature				
09/10/07	Thayer			will be opened	
11/07/07	Nature				
02/28/08	Thayer				
08/11/08	Thayer			opened 8:30 A.M.	
10/02/08	Thayer				
10/11/08	First Coastal				
12/12/08	Nature			per call from Richie Franks	
02/23/09	Thayer			Per call from Jon Semlear	$700.00
04/22/09	Thayer			Per Jon Semlear	$700.00

06/09/09	Thayer			Per Jon Semlear	$700.00
07/14/09	Thayer			Per Jon Semlear	
09/09/09	Thayer			Per Jon Semlear	
10/06/09	Thayer			Per Jon Semlear	
11/17/09	Thayer				
03/03/10	First Coastal			Per Jon Semlear	
06/30/10	Nature			per call from Richie Franks	
09/07/10	Thayer		nature		
10/18/10	Thayer		nature		
12/16/10	Thayer	12/20/10	nature		
12/30/10	Thayer				
02/14/11	Nature				
08/15/11	Thayer			per Jon Semlear	
09/21/11	Thayer			per call from Richie Franks	
12/13/11	Foster Farms			per Jon Semlear	
01/09/12	Nature			per Richie Franks	
08/21/12	Foster Farms				
12/10/12	First Coastal				
03/17/13	First Coastal				
06/05/13	Foster Farms			per Jon Semlear	
09/09/13	Foster Farms			per Jon Semlear	
11/11/13	Foster Farms			per Jon Semlear	
02/19/14	nature			per Harry Miller	
04/10/14	Nature			Per Bill Pell	
08/27/14	Foster Farms			Per Bill Pell	
		09/01/14	nature	Per Eric Shultz	
09/15/14	Foster Farms	09/17/14	nature	Per Harry Miller	
10/27/14	Foster Farms				
12/02/14	Foster Farms			was opened to do repairs on cul-d- sac	
		03/11/15	First Coastal		
04/13/15	Foster Farms				
08/24/15	Foster Farms				
09/23/15	Foster Farms	09/24/15	nature		
10/14/15	Foster Farms				
		11/10/15	nature		
11/23/15	Guillo's				
01/21/16	First Coastal				
04/07/16	Nature	04/27/16	nature		
05/04/16	Nature				
08/15/16	Chesterfield	08/17/16	nature		
10/11/16	Chesterfield	10/12/16	nature		
11/03/16	Chesterfield	11/05/16	nature		
12/20/16	Chesterfield	12/22/16	nature		
01/23/17	nature	04/28/17	nature		
05/15/17	chesterfield	06/28/17	nature		
09/22/17	chesterfield	09/28/17	nature		
11/07/17	chesterfield	11/28/17	nature		
01/30/18	chesterfield	04/05/18	nature		
08/28/18	chesterfield	09/03/18	nature		
10/15/18	Chesterfield	10/21/18	nature		

Attachment 3

SAGG POND DREDGING TOTALS

2016

INVOICE DATE	TOTALS
1. 8/31/16	$1,840.00
2. 10/20/16	$5,200.00
3. 11/10/16	$6,600.00
TOTAL:	**$13,640.00**

2017

INVOICE DATE	TOTALS
1. 1/31/17	$7,480.00
2. 5/31/17	$2,300.00
3. 10/9/17	$2,760.00
4. 11/17/17	$7,920.00
TOTAL:	**$20,460.00**

2018

INVOICE DATE	TOTALS
1. 2/14/18	$5,280.00
2. 8/31/18	$5,070.00
3. 10/31/18	$5,280.00
4. 11/30/18	$5,280.00
TOTAL:	**$20,910.00**