

been held with the NYSDEC and Suffolk County DPW. Suffolk County Soil and Water Conservation Service has made site visits to review stormwater inputs. The NYSDEC Region 1 Office has been consulted and the NYSDEC Office of Dam Safety has been consulted. Environmental Defense, The Nature Conservancy and Trout Unlimited have acted in concert with the Town and made available experts in the areas of fisheries biology and invasive aquatic plants; these NGOs have also offered assistance with post-project monitoring.

Part K - for Nonpoint Source and Aquatic Habitat Restoration Projects Only

1. **Project Personnel** - Identify the key personnel for the project, including the name, title and qualifications of the Project Manager, the parties responsible for project oversight, the parties responsible for operation and maintenance, and their experience with a similar type of project.

Project Manager:

Name: Anthony Graves

Title: Environmental Analyst, Town Of Brookhaven

Qualifications:

Education: BS Biology, MS Environmental Science

Experience: Liaison to Town Of Brookhaven Stormwater Management Committee; stormwater design review, watershed delineation and protection, Federal/State/local permitting for wetlands projects, municipal procurement methods, specific knowledge of the Carman's River Watershed including flora, fauna, impacts, management programs, open space holding, and government and private programs for management and protection of the watershed, familiarity with design, construction and maintenance of fish passages.

Project Oversight:

Name: John Turner

Title: Director of Environmental Protection/Director of Land Management, Town Of Brookhaven

Qualifications:

Education:

Experience: Open Space prioritization, acquisition and management, watershed delineation and protection, specific knowledge of the Carman's River Watershed including flora, fauna, impacts, management programs, open space holding, and government and private programs for management and protection of the watershed.

Operation and Maintenance:

Name: Name: Anthony Graves

Qualifications: see above

Name: Dennis Cole

Title: Principal Environmental Analyst, Town Of Brookhaven

Education: BS Biology and Natural Sciences

Experience - Liaison to the Town of Brookhaven Environmental Bond Act Open Space Advisory Committee, actively involved with the nomination review and designation of open spaces within the Town of Brookhaven. Managed Town of Brookhaven's Open Space Program, Managed Town of Brookhaven Geographic Information Systems, Building Division permitting system and computerization of Planning Environment and Development. Past experience with State DEC Freshwater Wetlands, Tidal Wetlands and Article 15 permitting programs. As a Fish and Wildlife Technician in the late 70's I sampled fish stock in the Carmans River, Peconic River, Lake

Ronkonkoma and other fresh water bodies on Long Island and New York

In addition to Town personnel the following partners will be supplying volunteers for monitoring and maintenance of fish passages:

Environmental Defense:

Name: Dr. Jacob Kritzer, Scientist

Title: Ph.D., Marine Biology, James Cook University, Australia

Education: B.A., Biology, Middlebury College, Vermont

Experience: A marine ecologist and fisheries biologist, Kritzer leads a new program focused on the coastal waters of New York, New Jersey and Connecticut.

Post-doctoral fellow, University of Windsor, Ontario (2001-2004)

Name: Michelle Bicek

Title: Program Associate in the Living Cities Program

Education: B.A. Hartwick College, M.S. Environmental Science SUNY, MPA Syracuse University

Experience: Eight years teaching environmental education and developing curriculum consultant at the Office of Continuing Education at SUNY ESF where she co-authored the Hudson River Watershed curriculum.

In addition to Town personnel the following partners will be supplying volunteers for monitoring and maintenance of fish passages:

Environmental Defense:

Name: Michelle Bicek, Jacob Kritzer, Ph.D.

Town of Brookhaven CAC

Name: Steve Brown, Gary Gentile, John Kreutz, Ron LaVita, Tom McMahon, Richard Watson

Trout Unlimited:

Name: George Costa, David Thompson, Trout Unlimited has offered a pool of volunteers for post-project maintenance and monitoring.

The Nature Conservancy:

Name: Bill Jacobs

2. **Operation and Maintenance** -Briefly describe the following:

⊗ How the project will be maintained (i.e., inspections, scheduled monitoring and repair)

The drainage infrastructure will be inspected by Town Highway Department personnel and sediment will be removed as it accumulates to design levels.

Maintenance and monitoring of fish passages (step pools and ladders) will be done by Town Of Brookhaven personnel in conjunction with a network of volunteer partners. Trout Unlimited has agreed to make volunteers available to inspect fish passages every 48 hours during spawning seasons, and weekly outside of spawning seasons to prevent accumulation of debris and monitor for fish activity. The Town Of Brookhaven will maintain a database detailing the times, dates, and locations inspected. In addition Town Of Brookhaven personnel will monitor target locations to document use of the fish

passages by target and non-target species for a period of five years after completion of the project. A fish counter will be installed at the Upper Lake fish passage; Spot presence/absence surveys using a splashcam and digital video camera will also be conducted not less than three times during spawning season for river herring and native brook trout. Data from spot surveys and the fish counter will be compiled in an annual report and submitted to the NYSDEC.

- ☞ How the project will be redesigned if the original project does not meet the project goals after five years.

The project can be altered to redirect flows for stormwater inputs, add additional infrastructure if necessary, or design additional drainage swales. The fish passage can have the upstream and downstream entrances altered or relocated to achieve the goals of restoring anadromous fish runs.

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| Part L - Enforcement Status |
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- ☞ Is the municipality under enforcement (e.g., consent order) to construct the project?
 yes no
- ☞ If YES, attach a copy of the enforcement instrument.

Carmans River, Upper, and tribs (1701-0102)

NoKnownImpct

Waterbody Location Information

Revised: 03/23/01

Water Index No: (MW7.4) AQ-GSB-177 Drain Basin: Atlantic-Long Island Sound
Hydro Unit Code: 02030202/110 Str Class: C(TS) Southern Long Island
Waterbody Type: River Reg/County: 1/Suffolk Co. (52)
Waterbody Size: 9.0 Miles Quad Map: BELLPORT (R-29-4)
Seg Description: stream and tribs above LIRR (freshwater)

Water Quality Problem/Issue Information

(CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted Severity Problem Documentation
NO USE IMPAIRMNT

Type of Pollutant(s)

Known: ---
Suspected: /---
Possible: ---

Source(s) of Pollutant(s)

Known: ---
Suspected: ---
Possible: ---

Resolution/Management Information

Issue Resolvability: 8 (No Known Use Impairment)
Verification Status: (Not Applicable for Selected RESOLVABILITY)
Lead Agency/Office: n/a
TMDL/303d Status: (TMDL Not Required (No Impairment))

Resolution Potential:

Further Details

A biological (macroinvertebrate) assessment of Carmans River near Yaphank was conducted in 1998 and 1990. Sampling results indicated non-impacted water quality conditions in both years. This site was assessed as slightly impacted in 1989 and non-impacted in 1994. The difference in the 1989 assessment likely represents a change in criteria rather than a change in water quality. Sandy stream criteria were instituted in 1994, representing more realistic expectations for stream bottoms dominated by sand gravel rather than rubble. (DEC/DOW, BWAR/SBU, January 2000)

NYSDEC Rotating Intensive Basin Studies (RIBS) Intensive Network monitoring of the Carmans River in Yaphank (at Park Street) was conducted in 1999. Chemical monitoring revealed no other particular water quality issues. (DEC/DOW, BWAR/SWAS, January 2001)