

Task 1 Report

Section 1

Appendix 1

EAF for the Long-Term Plan

**SUFFOLK COUNTY ENVIRONMENTAL ASSESSMENT
FORM (EAF)**

Instructions: This document is designed to assist in determining whether the action proposed may have a significant effect on the environment. Please complete the entire Data Sheet. Include as much information as possible such as feasibility studies, design reports, etc. Attach additional sheets if necessary. Mark irrelevant questions N.A., not applicable.

A. General Information:

1. Name of Project:

Suffolk County Department of Public Works – Vector Control and Wetlands Management Long Term Plan

2. Location of Project: (specify Town, Village or Hamlet and include project location map on next page.)

Suffolk County (County-wide)

Street Address:

N/A

Name of property or waterway:

Suffolk County

3. Maps of Property and Project: Attach relevant available maps, including a location map (note: use road map, Hagstrom Atlas, U.S.G.S. topo map, tax map or equivalent) and preliminary site plans showing orientation, scale, buildings, roads, landmarks, drainage systems, areas to be altered by project, etc. N/A

4. Type of Project: (check one) New Expansion Ongoing

5. Capital Program: (specify) Item # N/A Date Adopted Amount\$

6. General Description of Project Including its Purpose (attach relevant design reports, plans etc.):

Suffolk County DPW – Vector Control and Wetlands Management Long Term Plan (see attached). The Long Term Plan describes an integrated mosquito control program that is guided by surveillance, includes public education and emphasizes preventative measures. Control proceeds in a hierarchical manner from physical controls such as water management, through biological controls, bacterial larvicides, insect growth regulators and chemical controls. The Plan follows the principles outlined in the American Mosquito Control Association Pesticide Environmental Stewardship (PESP) Partnership Strategy Document (attached).

7. Project Status: (check if begun)

	Start	Completion
PROPOSAL		
STUDY: NY State Programmatic FEIS (1985); NYC FEIS (July 23, 2001); Westchester DEIS (November 2001). These studies are attached as background information.		
PRELIMINARY PLANNING		
FINAL PLANS: SPECS		
SITE ACQUISITION		
CONSTRUCTION		
OTHER: Plan	5/1/2002	7/01/2004

8. Departments Involved:

NAME AND ADDRESS OF DEPT. PERFORMING DESIGN & CONSTRUCTION	NAME AND ADDRESS OF INITIATING DEPT. (If different)

<p>chemicals? If yes, describe substances and amounts to be stored:</p>	<p>NYSDEC inspected facility. Materials include liquid, briquet or granular bacterial larvicides containing Bti or <i>Bacillus sphaericus</i>, liquid, briquet or granular methoprene-based larvicides and adulticides containing sumithrin, resmethrin, permethrin, deltamethrin and/or malathion. Products and formulations used will be DEC- registered and vary based on purchasing considerations, permit and other legal requirements, weather conditions, environmental situations encountered and other technical issues. The product mix to be used is further described in the Plan. Amount stored varies through season, depending on need.</p>
---	--

2. Project Schedule:

a. Is project single or multi-phase?	Year long activity (12 months)
b. If multi-phase, how many phases?	N/A
c. Total construction time (months)	N/A

3. Wastes and Pollutants Generated during Project Construction and Operation:

	Components	Quantity	Mode of Disposal
a. Sanitary Sewage	N/A		
b. Liquid industrial waste	N/A		
c. Toxic chemicals	N/A		
d. Pesticides or herbicides	See item 1,n and Plan.		
e. Solid wastes	N/A		
f. Clearing or demolition debris	N/A		
g. Spoil disposal or sedimentation	N/A		

h. Atmospheric emissions	N/A		
i. Surface water runoff	N/A		
j. Noise exceeding ambient	N/A		
k. Odors exceeding 1hr/day	N/A		
l. Other (specify)	N/A		

4. Does Project Involve Any:

Grading Cut/Fill; List amounts.	N/A
Dredging; List max. depth, length & width.	N/A
Spoil Area; List amount.	N/A
Bulkheading; List length.	N/A
Dewatering; List g.p.m. & period of time.	N/A

5. Indicate Sources of Utilities:

Water	N/A
Electricity	N/A
Gas	N/A
Other (please specify)	N/A

6. Total Water Usage:

Gallons per Day 100

If water supply is from wells, indicate pumping capacity in gallons per minute _____.

C. Project Area Description/Existing Conditions:

1. Acreage of Physical Characteristics of Project Area:

Meadow, field, scrub growth	Varies depending on degree of infestation
Wooded	Varies depending on degree of infestation
Agricultural	Varies depending on degree of infestation
Freshwater wetland	Varies depending on degree of

	infestation.
Tidal wetlands	Varies depending on degree of infestation.
Surface waters	Varies depending on degree of infestation.
Cleared, graded or filled land	Varies depending on degree of infestation
Paved areas (roads, parking, etc.)	Varies depending on degree of infestation
Buildings (List number and sq. ft.)	Varies depending on degree of infestation
Other (please specify)	Varies depending on degree of infestation
TOTAL	584000 acres, which represents the entire County, because some program components, such as surveillance and education take place Countywide. Control activities such as water management, larval control and adulticiding take place on much more limited areas, based on the results of surveillance. Estimates of acres to be treated are included in the Plan. Pesticides are applied only to sites authorized under the label and under additional regulatory strictures such as DEC permits. Residents may exclude their household from most adulticide applications under the County no-spray list law (described in the Plan).

2. Streams within or contiguous to project⁷ area: *(Please list name of stream and/or name of river to which it is tributary, including intermittent streams)*

Various – All streams in Suffolk could be adjacent to potential treatment sites, as identified on maps filed with DEC. Streams themselves are usually not treated, since they rarely breed mosquitoes.

3. Lakes, Ponds, Wetland areas within or contiguous to project area: *(Please list name(s) and size(s) in acres)*

Various – All lakes, ponds and wetlands in Suffolk are potential treatment sites, as identified

on maps filed with DEC.

4. a. Are there natural drainage channels on the project site? yes no

b. How far is project area from freshwater wetlands, tidal wetlands or surface waters?

Larval control and water management is conducted in or adjacent to wetlands or surface waters. Adult control is not performed in or over wetlands or surface waters except when a public health threat is declared.

5. Is the Project area within the 100 yr. Flood plain? yes no

6. Depth to the water table: Various (for larval control) at surface 0-3 ft 3-8 ft 8-16 ft 16 ft

7. Predominant soil type (s) on project site as identified in the Soil Survey of Suffolk County - 1975:
(*Include soils map of site.*)

N/A

8. General character of the land: Generally uniform slope Generally uneven and rolling or irregular . (*Include topographic map of site.*)

9. Approximate percentage of proposed project site with slopes: 0-10% 10-15% or greater %.

10. Any unique or unusual land forms on the project site? (i.e. cliffs, dunes, kettle holes, eskers, other geological formations):

N/A

11. Describe the predominant vegetation types on the site:

Freshwater and tidal wetland vegetation at some breeding sites.

12. Describe the predominant wildlife on the site:

Wildlife associated with surface waters and wetlands at breeding sites.

13. Does project site contain any species of plant or animal life that is identified as threatened or endangered? yes no; if yes, give source and identify each species;

Suffolk County contains numerous endangered plant and animal species. Larvicide and adulticide applications are unlikely to have direct effects on endangered plants. Water management could affect endangered plants, however, coordination with DEC should ensure that such habitats are not disturbed. The Division must rely on DEC for the location of these habitats, since these are generally not released to other agencies. Endangered shorebirds are the subject of protective conditions on all relevant DEC permits, as further described in part 3 of the EAF. DEC does not generally allow larvicide treatment within the habitat of threatened or endangered amphibians. The Division obtains maps of endangered amphibian habitats from DEC in order to inform field crews of their locations and ensure protection of these species.

Prior notification of DEC is required for applications within the habitats of other endangered species. For these reasons, threatened or endangered species should not be adversely affected. (See EAF Part 3)

14. Is project contiguous to, or does it contain a building or site of historic, pre-historic or paleontological importance? yes no. Explain.

N/A

15. List the specific activities now occurring at project location (i.e. hunting, fishing, hiking etc.)

Varied uses including recreation and residential.

16. Is the project site presently used by the community or neighborhood as an open space or recreation area? yes no. Recreational areas are not treated with pesticides at times when they are occupied. Treatment of populated areas is subject to public notice requirements. Activities are conducted in a manner so as not to limit the use of recreational areas. Mosquito control has a positive effect on the use of recreational and open space areas by reducing the annoyance and disease threat posed by mosquitoes.

17. Does the present site offer or include scenic views or vistas known to be important to the community? yes no. Activities to be conducted will not change scenic views or vistas.

18. Zoning:

a. Current specific zoning or use classification of site?	N/A
b. Is proposed use consistent with present zoning or use?	N/A
c. If no, indicate desired zoning or use.	N/A

19. What is the dominant land use and zoning classification within a 1/4-mile radius of the project (e.g. single family residential, R-2) and the scale of development (e.g. 2 story)? (Include existing land use map)

All uses.

20. Is the site located in or substantially contiguous to a Critical Environmental Area designated pursuant to Article 8 of the ECL and 6 NYCRR 617? yes no

D. Impact Summary and Mitigation

1. How many acres of vegetation (trees, shrubs, ground covers) will be removed from site?

0 acres

2. Will any mature forest or other locally important vegetation be removed by this project?

Yes no no. Explain.

N/A

3. Are there plans for erosion control and stabilization? yes no. Explain and attach plans.

N/A

4. Are there any plans for revegetation to replace that removed during construction?
yes no. Explain and attach plans.

5. Will project physically alter any surface water bodies? yes no. Explain.

Pesticide applications are defined by DEC as a physical alteration under SEQRA. Existing ditches, culverts or other water control structures will be maintained or repaired as needed, but this maintenance should not result in substantial changes to water bodies. Failure to maintain some of these structures could result in impaired tidal flow and a resultant loss of wetland values. Wetlands restoration, such as Open Marsh Water Management, could alter degraded wetlands, but should result in habitat improvements.

6. Will project require relocation of any projects, facilities or homes? yes no. Explain.

7. Number of jobs generated:

During construction?	N/A
After project is completed?	N/A

8. Number of jobs eliminated by this project 0.

E. Alternatives - Briefly list alternatives to the proposal considered

The no action alternative or elimination of program components would result in unacceptably high levels of mosquito infestation in the County. Not only would there be severe impact to the ability of residents to be outdoors, there would be an increased risk of mosquito-borne disease such as West Nile Virus and Eastern Equine Encephalitis. The use of other alternative products and techniques, such as garlic sprays and mosquito traps is also considered and is discussed in the Plan.

F. Approval and Compliance

1. Will project involve funding or financing by any:

a. Federal agency (specify) _____; amount _____.

b. State agency (specify) _____; amount _____.

c. Local agency (specify) Suffolk County DPW; amount \$2,706,879

2. Does project require permit or approval from:

	YES	NO	TYPE
a. Army Corps of Engineers	X		Section 10 and/or 404 permits for water management.
b. U.S. Environmental Protection		X	
c. Other Federal agency (specify)		X	
d. N.Y.S. Environmental Conservation Department	X		Article 15 and 24 permits for larvicides, Article 24 and Article 25 permits for water management.
e. Other State agency (specify)		X	
f. County Health Department	X		Pesticides used are approved by Health Services.
g. County Planning Department		X	
h. County Public Works Department		X	
i. Town or Village Board		X	
j. Town or Village Planning Board		X	
k. Town or Village Zoning Board		X	
l. Town or Village Building Department		X	
m. Town or Village Highway Department		X	
n. Town or Village Environmental Agency		X	
o. Local Fire Marshal		X	
p. Other local agency County Legislature	X		Approval

3. Conformance to existing comprehensive or project master plans.

	yes	no	Description
a. State	<u>X</u>	<u> </u>	NYS Department of Health WNV Response Plan, PEIS.

- b. Bi County N/A
- c. County Peconic Estuary CCMP, Suffolk County Code, Chapter 380
- d. Town N/A
- e. Village N/A

PREPARER Dominick V. Ninivaggi Date June 7, 2002

TITLE Superintendent

SIGNATURE*

I certify that the information herein is accurate.

PROJECT DIRECTOR Dominick Ninivaggi Date June 7, 2002

TITLE Superintendent

SIGNATURE*

I certify that the information herein is accurate

*Signature of both preparer and project director required

Part 2 - RESPONSIBILITY OF LEAD AGENCY
Project Impacts and Their Magnitude

General Information (Read Carefully)

- X In completing the form the reviewer should be guided by the question: Have my decisions and determinations been **reasonable**? The reviewer is not expected to be an expert environmental analyst.
- X Identifying that an effect will be potentially large (column 2) does not mean that it is also necessarily **significant**. Any large impact must be evaluated in PART 3 to determine significance. By identifying an impact in column 2 simply asks that it be looked at further.
- X The **Examples** provided are to assist the reviewer by showing types of impacts and wherever possible the threshold of magnitude that would trigger a response in column 2. The examples are generally applicable throughout the State and for most situations. But, for any specific project or site other examples and/or lower thresholds may be appropriate for a Potential Large Impact rating.
- X Each project, on each site, in each locality, will vary. Therefore, the examples have been offered as guidance. They do not constitute an exhaustive list of impacts and thresholds to answer each question.
- X The number of examples per question does not indicate the importance of each question.

Instructions (Read carefully)

- a. Answer each of the 19 questions in PART 2. Answer **Yes** if there will be **any** impact.
- b. **Maybe** answers should be considered as **Yes** answers.
- c. If answering **Yes** to a question then check the appropriate box (column 1 or 2) to indicate the potential size of the impact. If threshold impact equals or exceeds any example provided, check column 2. If impact will occur but threshold is lower than example, check column 1.
- d. If reviewer has doubt about size of the impact then consider the impact as potentially large and proceed to PART 3.
- e. If a potentially large impact or effect can be mitigated by a change in the project to a less than large magnitude, check the yes box in column 3. A No response indicates that such a reduction is not possible.

IMPACT ON LAND

1. Will the proposed action result in a physical change to the project site? X Yes No

IMPACT ON LAND Examples that would apply to Column 1	1 Small to Moderate Impact	2 Potential Large Impact	3 Can Impact Be Mitigated By Project Change (Enter Yes or No)
Any construction on slopes of 15% or greater, (15 foot rise per 100 foot of length), or where the general slopes in the project area exceed 10%.			
Construction of land where the depth to the water table is less than 3 feet.			
Construction of paved parking area for 1,000 or more vehicles.			
Construction on land where bedrock is exposed or generally within 3 feet of existing ground surface.			
Construction that will continue for more than w year or involve more than one phase or stage.			
Excavation for mining purposes that would remove more than 1,000 tons of natural material (i.e., rock or soil) per year.			
	1 Small to	2 Potential	3 Can Impact Be

IMPACT ON LAND	Moderate Impact	Large Impact	Mitigated By Project Change (Enter Yes or No)
Construction of any new sanitary landfill.			
Construction in a designated floodway.			
Other Impacts (Please describe) DEC refers to pesticide application as a physical alteration.	X		Yes – All applications will be performed under DEC permits and regulations.

2. Will there be an effect to any unique or unusual land forms found on the site? (i.e., cliffs, dunes, geological formations, etc.)
 yes no.

List Specific land forms:			
---------------------------	--	--	--

IMPACT ON WATER

3. Will proposed action affect any water body designated as protected? (under Articles 15,24,25 of the Environmental Conservation Law, ECL) yes no.

IMPACT ON WATER (Examples that would apply to column 2)	1 Small to Moderate Impact	2 Potential Large Impact	3 Can Impact Be Mitigated By Project Change (Enter Yes or No)
Developable area of site contains a protected water body.			
Dredging more than 100 cubic yards of material from channel of a protected stream.			
Extension of utility distribution facilities through a protected water body.			
Construction in a designated freshwater or tidal wetland: The Long Term Plan calls for the use of Open Marsh Water Management and other wetlands management techniques for the biological and physical control of mosquitoes.		X	Yes – Projects are to be designed and monitored to ensure compatibility with wetland values.
Please List Other Impacts: Application of registered pesticides (larvicides) to water under Article 15 permit. Aquatic sites could be subject to drift or runoff from adulticides, but amounts reaching the water are not expected to cause significant impacts.	X		Yes – All applications will be performed under DEC permits and regulations.

4. Will proposed action affect any non-protected existing or new body of water? yes no

A 10% increase or decrease in the surface area of any body of water or more than a 10 acre increase or decrease.			
Construction of a body of water that exceeds 10 acres of surface area.			

Please List Other Impacts: Application of registered pesticides (larvicides) to water under Article 15 permit. Aquatic sites could be subject to drift or runoff from adulticides, but amounts reaching the water are not expected to cause significant impacts	X		Yes – All applications will be performed under DEC permits and regulations.
---	---	--	---

5. Will proposed action affect surface or groundwater quality? yes no

Proposed Action will require a discharge permit.			
Proposed Action requires use of a source of water that does not have approval to serve proposed (project) action.			
Proposed Action requires water supply from wells with greater than 45 gallons per minute pumping capacity.			
Other: Pesticide application.	X		Yes – All applications will be performed under DEC permits and regulations. None of the materials to be used is known to effect groundwater quality.

IMPACT ON WATER (cont.) (Examples that would apply to column 2)	1 Small to Moderate Impact	2 Potential Large Impact	3 Can Impact Be Mitigated By Project Change (Enter Yes or No)
Construction or operation causing any contamination of a public water supply system.			
Proposed Action will adversely affect groundwater.			
Liquid effluent will be conveyed off the site to facilities which presently do not exist or have inadequate capacity.			
Proposed Action requiring a facility that would use water in excess of 20,000 gallons per day.			
Proposed Action will likely cause siltation or other discharge into an existing body of water to the extent that there will be an obvious visual contrast to natural conditions.			
Proposed Action will require the storage of petroleum products greater than 1,100 gallons.			

Proposed Action will allow residential uses in areas without water and/or sewer services.			
Proposed Action locates commercial and/or industrial uses which may require new or expansion of existing waste treatment and/or storage facilities.			
Please list other impacts:			

6. Will proposed action alter drainage flow, patterns or surface water runoff? yes no.

Proposed Action would impede flood water flows.			
Proposed Action is likely to cause substantial erosion.			
Proposed Action is incompatible with existing drain patterns.			
Proposed Action will allow development in a designated floodway.			
Please list other impacts: Maintaining existing ditches and culverts for maintaining tidal flow, fish access to breeding sites and drainage. Since these are existing systems, there should be little, if any, alteration in flow, patterns and surface water runoff. Wetland restoration, such as OMWM, will alter flow patterns, but this should represent an improvement.		X	Yes – All work will be performed under DEC permits and regulations and in coordination with other relevant agencies such as USFWS.

IMPACT ON AIR

7. Will proposed action affect air quality? yes no.

IMPACT ON AIR (Examples that would apply to column 2)	1 Small to Moderate Impact	2 Potential Large Impact	3 Can Impact Be Mitigated By Project Change (Enter Yes or No)
Proposed Action will induce 1,000 or more vehicle trips in given hour.			
Proposed Action will result in the incineration of more than 1 ton of refuse per hour.			

IMPACT ON AIR (cont.)	1 Small to Moderate Impact	2 Potential Large Impact	3 Can Impact Be Mitigated By Project Change (Enter Yes or No)
Proposed Action emission rate of all contaminants will exceed 5 lbs. per hour or a heat source producing more than 10 million BTU's per hour.			
Proposed Action will allow an increase in the amount of land committed to industrial use.			

Proposed Action will allow an increase in the density of industrial development in existing industrial areas.			
Please List Other Impacts: During ULV spraying/fogging, drift of material will occur before settling out and degrading.	X		Yes – Public notification will be performed and the County maintains a no-spray list that allows households to prevent most adulticiding within 150 feet of their property. The Division chooses rapid breakdown materials to further reduce possible impacts.

IMPACT ON PLANTS AND ANIMALS

8. Will Proposed Action affect any threatened or endangered species? yes no.

IMPACT ON PLANTS AND ANIMALS (Examples that would apply to Column 2)	1 Small to Moderate Impact	2 Potential Large Impact	3 Can Impact Be Mitigated By Project Change (Enter Yes or No)
Reduction of one or more species listed on the New York or Federal list, using the site, over or near site or found on the site.			
Removal of any portion of a critical or significant wildlife habitat.			
Application of pesticide or herbicide over more than twice a year other than for agricultural purposes. (See part 3)	X		Yes (see Part 3).
Please list other impacts:			

9. Will Proposed Action substantially affect non-threatened or endangered species? Yes No

Proposed Action would substantially interfere with any resident or migratory fish or wildlife species.	X		Pesticide applications could result in limited impacts on non-target organisms, but no significant, long-term effects are likely, according to the EPA fact sheets on these materials and the NYC and Westchester EIS's.
Proposed Action requires the removal of more than 10 acres of mature forest (over 100 years of age) or other locally important vegetation.			