

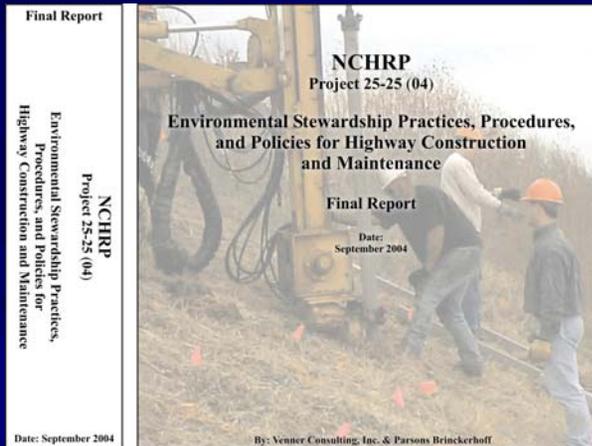
**NEW YORK STATE
DEPARTMENT OF TRANSPORTATION
Green and Blue Highways Roadside
Maintenance**



Green and Blue Highways Roadside Maintenance
Initiative:
New York State Department of Transportation:
December, 2006



NYS DOT Green and Blue Highways Initiative



– NCHRP Compendium

- Has nearly 7,000 stewardship practices
- Practices from all over North America
- “We” drew from Compendium and MECs’ excellent track record

Maintenance Environmental Roadside Worksheet: May, 2005

This worksheet includes environmental activities along the roadside, which require maintenance organizations may use to advance the Department's Green and Blue Highways initiative.

Category	Issue or need	Stewardship opportunity (project, best or standard)	N/A	Comments/Notes
Prepare	Erosion control	• Soil fence, mulch/matted, composting		
		• Sediment control, silt traps, drop cloths		
		• Install living or engineered snow fence		
		• Control runoff near drainage ways		
Reduce water pollution	• Work with DEC to mark wetlands			
	• Install/repair man enclosures stormwater treatment systems (e.g., vegetated)			
Fertilize	Pesticides and Insecticides (VIA/PA)	• Deliberate vegetation activities in accordance with Integrated Pest Management (IPM) principles		
		• Technology practices to limit herbicide use		
		• Remove/contain invasive species		
		• Plant species to fix nitrogen		
Habitat connectivity	Wildlife and Forest Conservation	• Biological corridors in drainage basins		
		• Plant native fish in large points		
		• Connect ecologists and habitat with animal crossings or fish passages		
		• Erect Conservation Alternative Hearing Signs (CAHPS)		
Improve public recreation by making or improving	Enhance cultural and aesthetic resources along highways	• Deer refuges		
		• Enhance/restore wetlands		
		• Plant wildlife friendly vegetation		
		• Locate tree banks for habitat of sale		
		• Manage for natural restoration		
		• Re-landscape impact landscapes		
		• Habitat improvements		
		• Stream improvements		
		• Trailways		
		• Visual/aesthetic viewing along roadside		
• Rest areas/parking areas				
• Sign structures (improve shoulders)				
• Rails to trails				
Improve public recreation by making or improving	Enhance cultural and aesthetic resources along highways	• Sign of wildlife refuge/conservation		
		• Land-use (e.g. street trees, flowers)		
		• Reintroduce details in stone/brick		
		• Reusable signage		
Improve public recreation by making or improving	Enhance cultural and aesthetic resources along highways	• Signs gateway or historic markers		
		• Signs to identify easements, views, lakes or waterway boundaries		
Improve public recreation by making or improving	Enhance cultural and aesthetic resources along highways	• Increase recycled/reusable material use		
		• Increase recycling of material use, including millings, wood chips or crushed materials, also		
Improve public recreation by making or improving	Enhance cultural and aesthetic resources along highways	• Improve fiber content		
		• Improve fiber content		

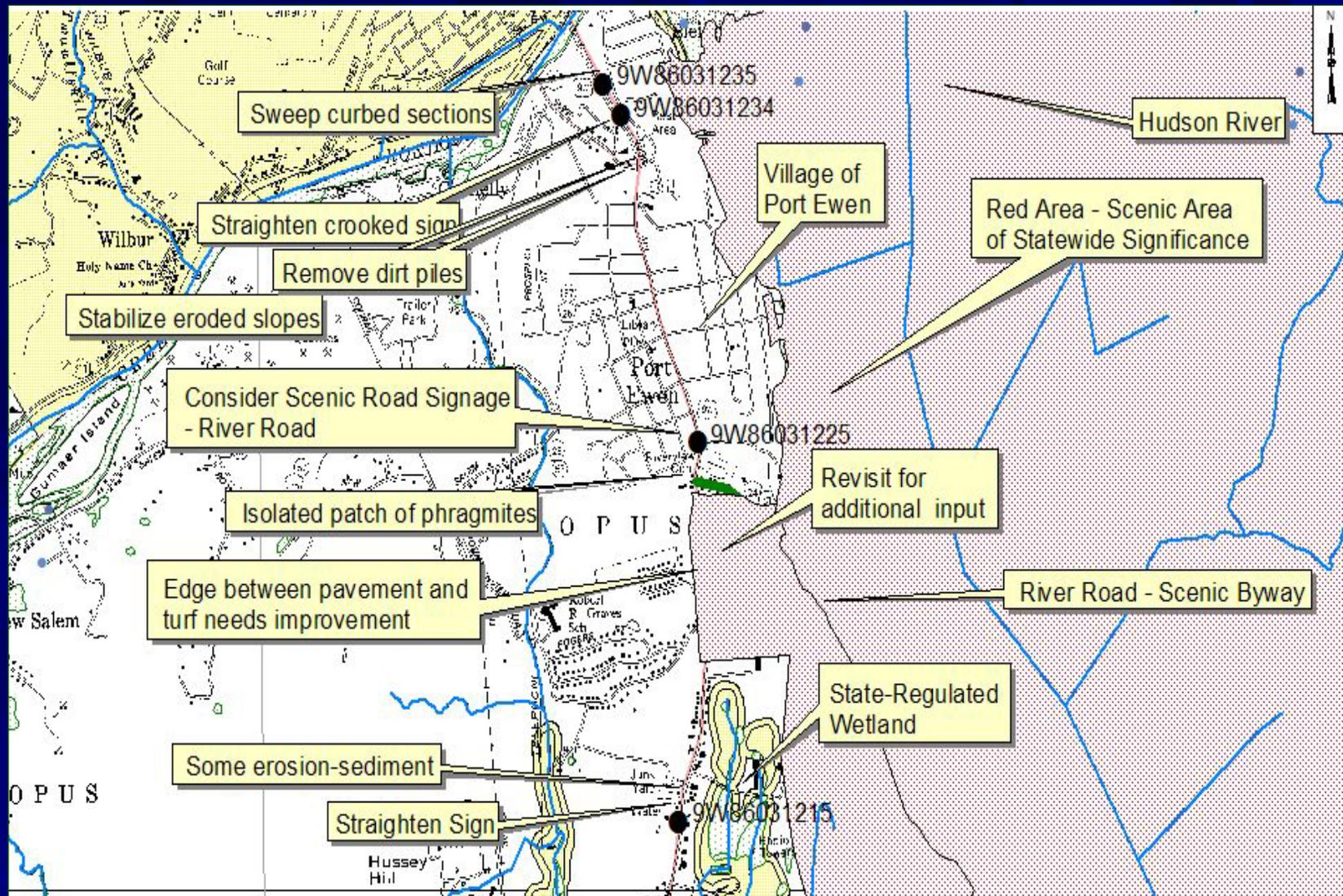
NYS DOT Green and Blue Highways Initiative

- Survey tool
- Lists all possible stewardship opportunities
- Location info supplemented with
 - mile markers or
 - GPS

Maintenance Environmental Roadside Worksheet: May, 2005

This worksheet includes environmental activities, along the roadside, which regional maintenance organizations may use to advance the Department's Green and Blue Highways Initiative.

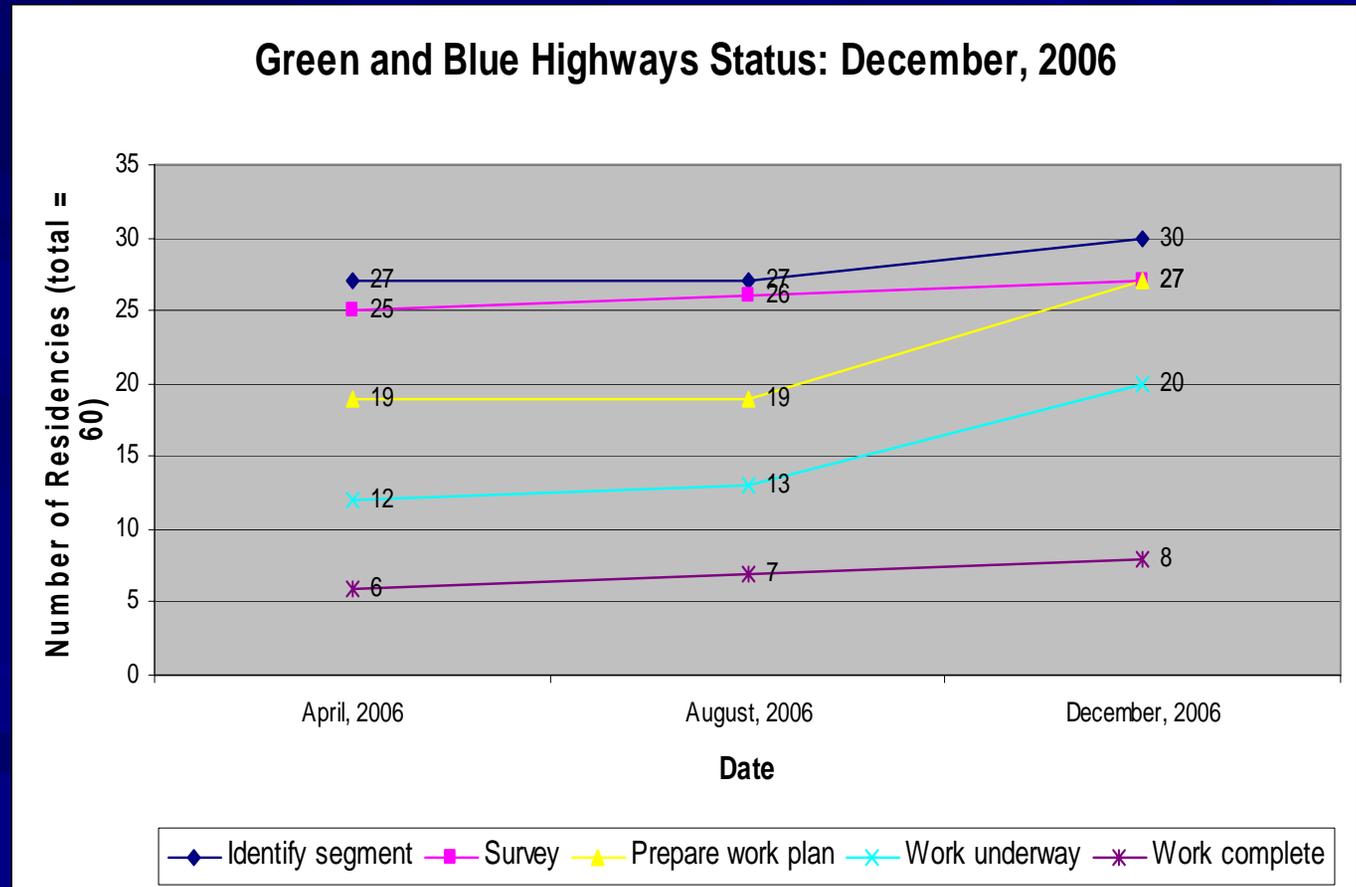
Location (GIS or reference marker)			
Preparer			
Issue or need	Stewardship opportunity (project, activity or service)	Y/N	Comments/location
Improve erosion control	<ul style="list-style-type: none"> Silt fence, mulch/reseed, composting Sediment control, such as check dams 	Y	Existing silt fence at road cut (2.5 mi)
Reduce salt pollution	<ul style="list-style-type: none"> Install living or engineered snow fence Control runoff near private wells 	N/A	Success in spring (11/11/05) about roads
Reduce water pollution	<ul style="list-style-type: none"> Work with DEC to mark wetlands Install/maintain innovative stormwater treatment systems (e.g. Vortechics) 	N	Wetlands marking software. No stormwater treatment systems planned
Promote Integrated Pesticide and Vegetation Management (IVM/IPM)	<ul style="list-style-type: none"> Deliver vegetation activities consistent with long-term IVM principles. Technology/practices to limit herbicide use Remove/contain invasive species Post signs for no spray areas Biological larvicides in drainage basins. Insect eating fish in recharge ponds 	Y	Remove vegetation from edge of Post Office. Approved at M&D 12/05
Habitat connectivity	<ul style="list-style-type: none"> Connect ecosystems and habitat with animal crossings or fish passageways 	N/A	No need to connect here
Strengthen wildlife and forest conservation	<ul style="list-style-type: none"> Execute Conservation Alternative Mowing Plans (CAMPS) Birdhouses/nesting boxes Deer reflectors Enhance/create wetlands Plant wildlife friendly vegetation Leave tree trunks for habitat (if safe) 	Y	Check P&D maps. M&D considering a location. No apparent need.
Improve public access to recreation by building or repairing:	<ul style="list-style-type: none"> Manage for natural reforestation Re-landscape vacant land/roadsides Habitat improvements Stream improvements 	N/A	None noted. Check P&D maps for opportunities.
Enhance cultural and aesthetic resources along/near State highways	<ul style="list-style-type: none"> Trailheads Vistas/wildlife viewing sites/pullouts Rest areas/parking areas Bike paths/lanes (improve shoulders) Rails to trails Boat launches/fishing access/parking 	N/A	None noted. Some opportunities for pullout area can be upgraded. Request?
Recycled and reused materials; litter control	<ul style="list-style-type: none"> Landscaping (e.g. street trees, flowers) Provide/replace details in streetscape Roadside screening Signs (gateway) or historic markers Signs to identify streams, rivers, lakes or watershed boundaries 	Y	Signs on trees; gateway? None needed. Some landscape opportunities. Review signage on local roads and state parks. Request.
	<ul style="list-style-type: none"> Increase recycled/reused material use, including millings, wood chips or crushed glass for drainage. Improve litter control 	Y	Not needed. Litter control program to be implemented.



BASE MAP COPYRIGHTED BY THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION

Facilities ★ Residency ☆ Subresidency ● Miscellaneous ▲ Salt Domes	Roads — Interstate — Federal — State — Local	Boundaries □ Town ▨ Village □ City — County □ Residency □ Quad	Capital Program — Highway Projects ■ Bridge Projects — Maintenance Projects	Wetlands ■ DEC ▨ NWI ▨ TIDAL	Pavement Score — Poor (4-5) — Fair (6) — Good (7-10) — Under Construction — Scenic Byways — State — Local
■ Bridges ● Culverts × Mines	Accident Data — Priority Investigation Location — Safety Deficient Location	NYCDEP Data ▨ Drainage Basins ▨ NYCDEP Property — Streams — Aqueducts	DEC Spills CD ◆ Spills	— DEC Streams ■ Bridges Over Trout Streams	

NYSDOT Green and Blue Highways Initiative: Status as of December 7, 2006



Source: Regional Status Reports

NYSDOT Green and Blue Highways Initiative



- Region 1: Interstate 90
- Installed Deer Reflectors to Address DVA issue

NYSDOT Green and Blue Highways Initiative



Denton Nature Preserve, Region 1:

- Nature Conservancy Preserve in Washington Residency
- Natural and historical resources
- Residency improved parking lot
 - Enlarged slightly
 - Aligned for safety
 - Provided informational signs

NYS DOT Green and Blue Highways Initiative

Dresden Rest Area, Route 22, Region 1



- During Vendor Placed Paving project, Residency repaved rest area overlooking Lake Champlain and Vermont's Green Mountains.
- Residency staff surveyed Route 22 in Town of Dresden and identified rest area improvements as best project
- Project will have an operational benefit: improvements will make illegal trash and garbage dumping more difficult

NYSDOT Green and Blue Highways Initiative Region 5 Phragmites Control on Route 219



NYSDOT Green and Blue Highways Initiative: Region 6 Improved Access Parking at Appalachian Marsh



NYS DOT Green and Blue Highways Initiative:

Region 8 Vegetation Improvements along the Palisades Interstate Parkway



- Residency trimming trees for stream/waterfall view
- Residency/Region to install deer reflectors
- Ongoing issue is invasives: note thick vines on

NYS DOT Green and Blue Highways Initiative: Region 10 Work along Rt 25/Sunrise Highway



- Restoration of eroded and degraded roadside on Route 25 (left picture)
- Installation of living snow fence at Sunrise Highway interchange (right picture)

NYSDOT Green and Blue Highways

■ Partnerships:

- Nature Conservancy
- Scenic Byways
- DEC
- Soil Water Conservation
- Local natural history group
- Local museum/DEC
- Parks
-

