

Owasco Watershed Roadside Ditch Assessment October 2014

The information included in this assessment was collected between mid-September and mid-October 2014. It reflects only a percentage of roadway ditches throughout the watershed that have been recently cleaned and have no visible management practices and/or have not re-vegetated.

The Inspection Program will continue to monitor these ditch segments for stabilization while others are being identified. Ditches that have been disturbed during 2014 and are experiencing erosion due to high water velocities and instability will also be scrutinized.

The goal of this effort is to provide awareness to each town, county, and state jurisdiction, throughout the watershed, to:

1. ascertain the total linear mileage of exposed/eroding ditches,
2. encourage each jurisdiction to perform good housekeeping on roadside conveyance systems, and
3. reduce sediment and nutrient loads to Owasco Lake



Criteria for Ranking Sites Points

Direct connection or proximity to a stream 10

Percent Vegetation

0-25% 15

26-50% 10

51-75% 5

76-100% 1

Level of erodibility

High 10

Moderate 5

Low 1

Bank slope

Steep 10

Moderate 5

Gradual 1

Linear footage of ditch

≥ 4,000 15

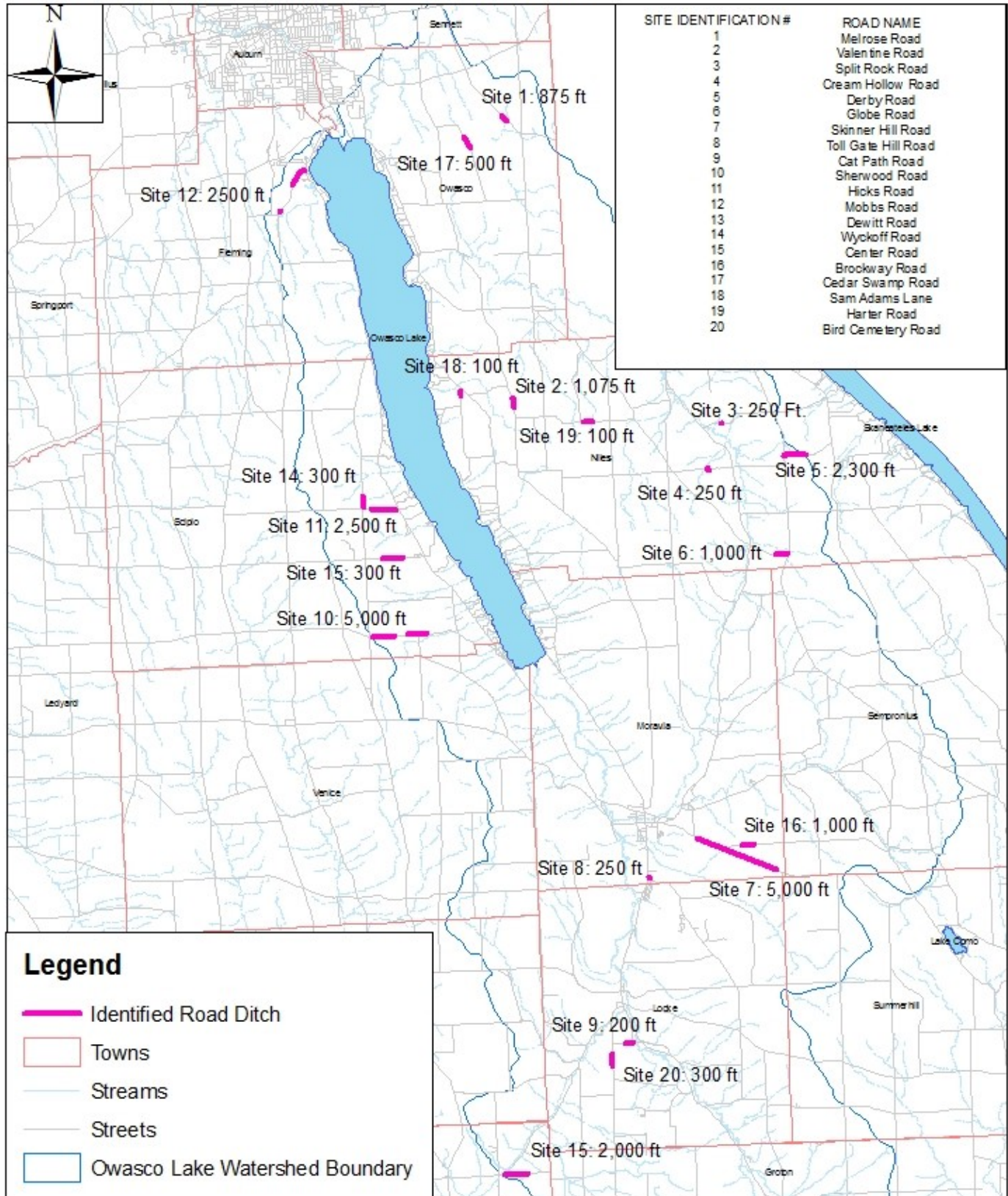
2,001-3,000 10

≤ 2,000 5

Total Points	Rank
0-30	Low
31-39	Moderate
40-60	High

Owasco Lake Watershed Ditch Remediation Sites

Combined Length of Ditches: 26,850 linear ft

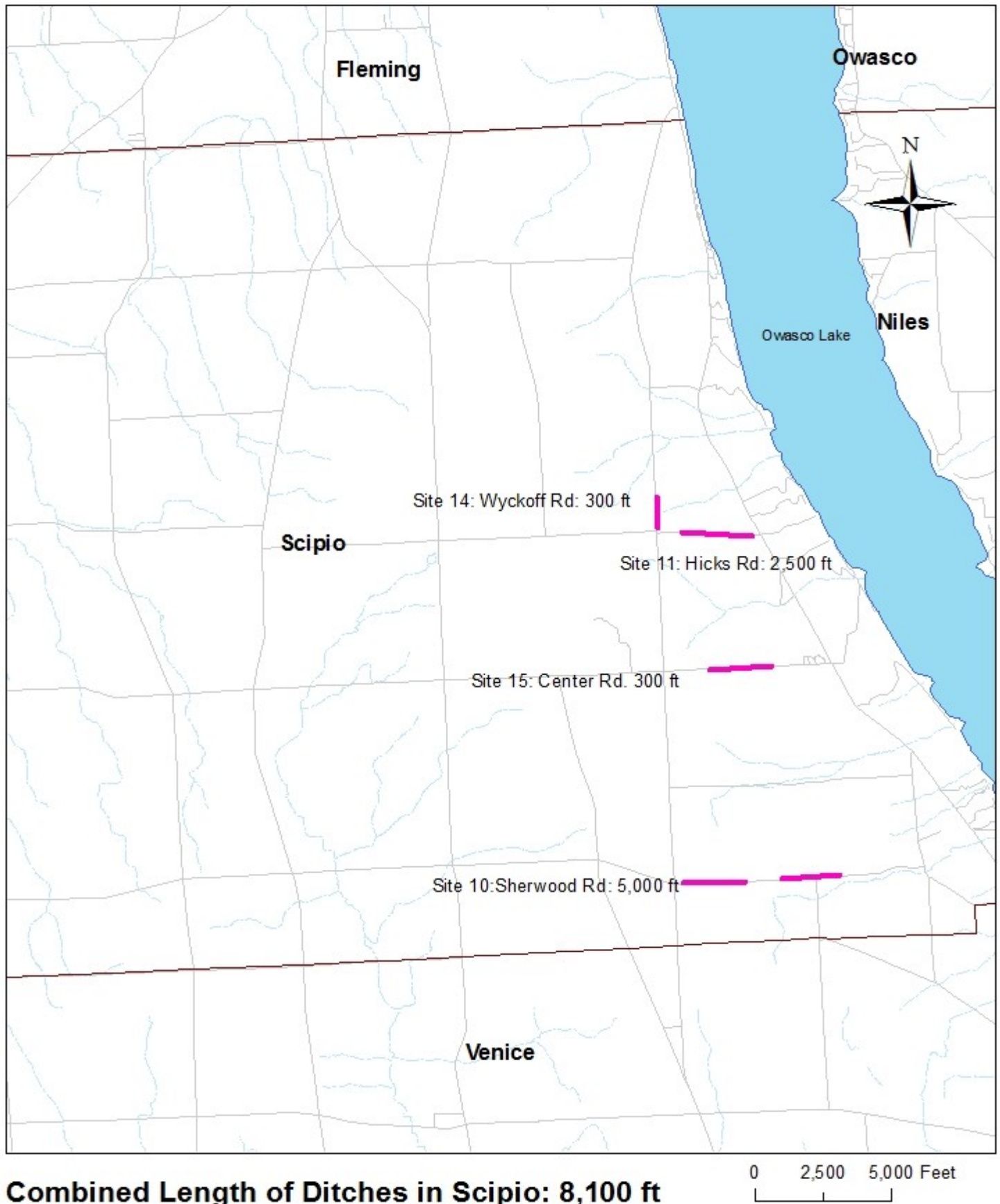


Created by Eli Vitale
Owasco Lake Watershed Inspection Program
Data Collected in Fall 2014

0 0.5 1 2 Miles
|-----|

Owasco Lake Watershed Ditch Remediation Sites

Town of Scipio: 4 Sites





Map Identification	Site 10
Road Name	Sherwood Rd
Town	Scipio
Length of Ditch	5,000 ft
Height/Width of Ditch	2-4/5-10 ft
Percent Vegetation	50%
Ground Type	Soil
Current Condition	Light vegetation, exposed soil and gravel
Sub-Watershed	Unknown
Road Jurisdiction	Cayuga County Highway
Closest Intersection	Sherwood/Wykoff Rd
Rank	Low



Map Identification	Site 11
Road Name	Hicks Rd
Town	Scipio
Length of Ditch	2,500 ft
Height/Width of Ditch	2-3/4-8 ft
Percent Vegetation	10%
Ground Type	Soil/Gravel
Current Condition	Recently ditched, light vegetation, exposed soil
Sub-Watershed	Unknown
Road Jurisdiction	Town of Scipio
Closest Intersection	Hicks/W Lake Rd
Rank	Moderate



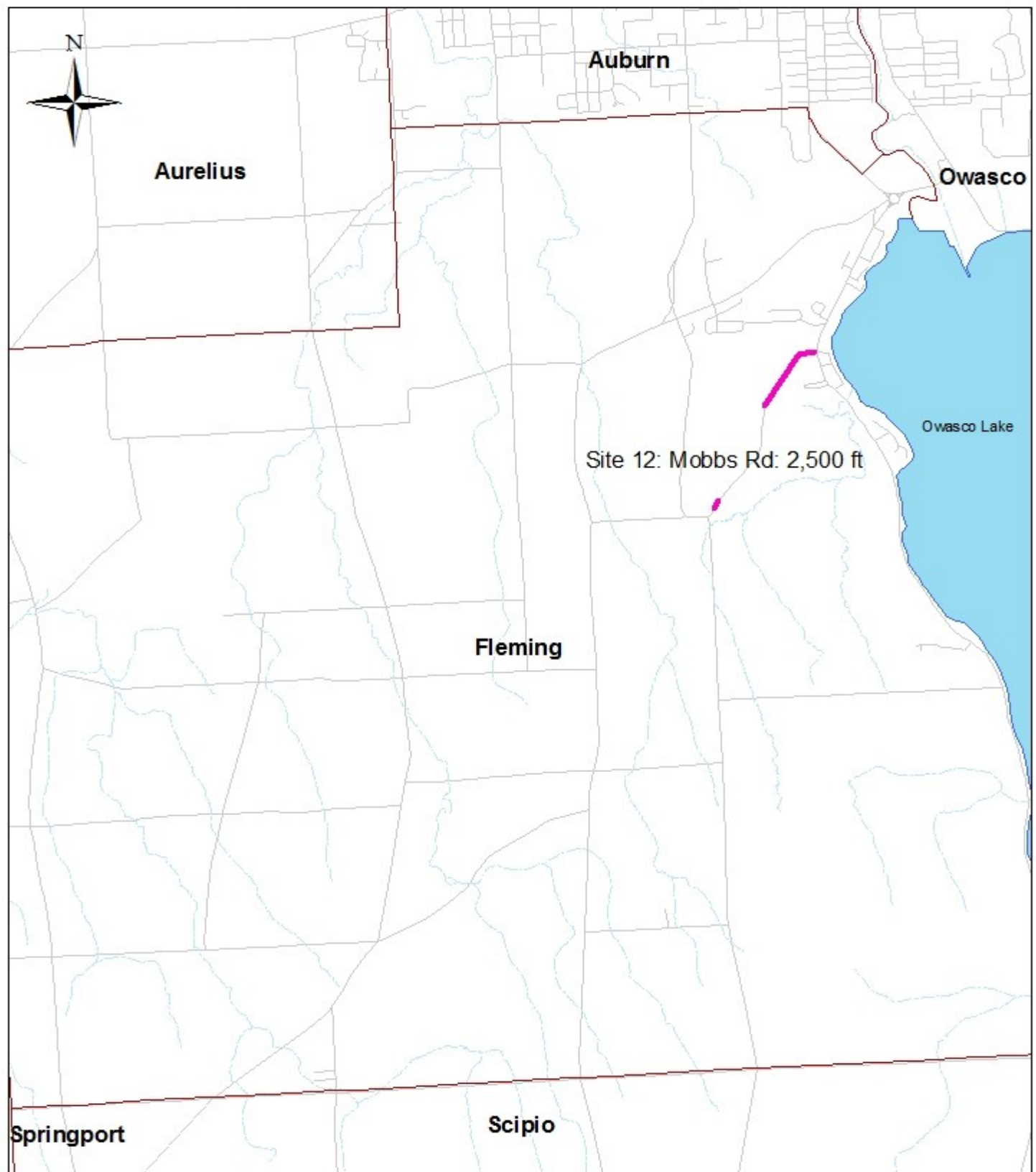
Map Identification	Site 14
Road Name	Wyckoff Rd
Town	Scipio
Length of Ditch	300 ft
Height/Width of Ditch	1-3/2-5 ft
Percent Vegetation	25%
Soil Type	Gravel
Current Condition	Light vegetation/exposed soil and gravel
Sub-Watershed	Unknown
Road Jurisdiction	Cayuga County Highway
Closest Intersection	Wyckoff/Hicks Rd
Rank	Low



Map Identification	Site 15
Road Name	Center Rd
Town	Scipio
Length of Ditch	300 ft
Height/Width of Ditch	1-3/2-4 ft
Percent Vegetation	25%
Soil Type	Gravel
Current Condition	Light vegetation, exposed soil and gravel
Sub-Watershed	Unknown
Road Jurisdiction	Cayuga County Highway
Closest Intersection	Center/Wyckoff Rd
Rank	Moderate

Owasco Lake Watershed Ditch Remediation Sites

Town of Fleming: 1 Site



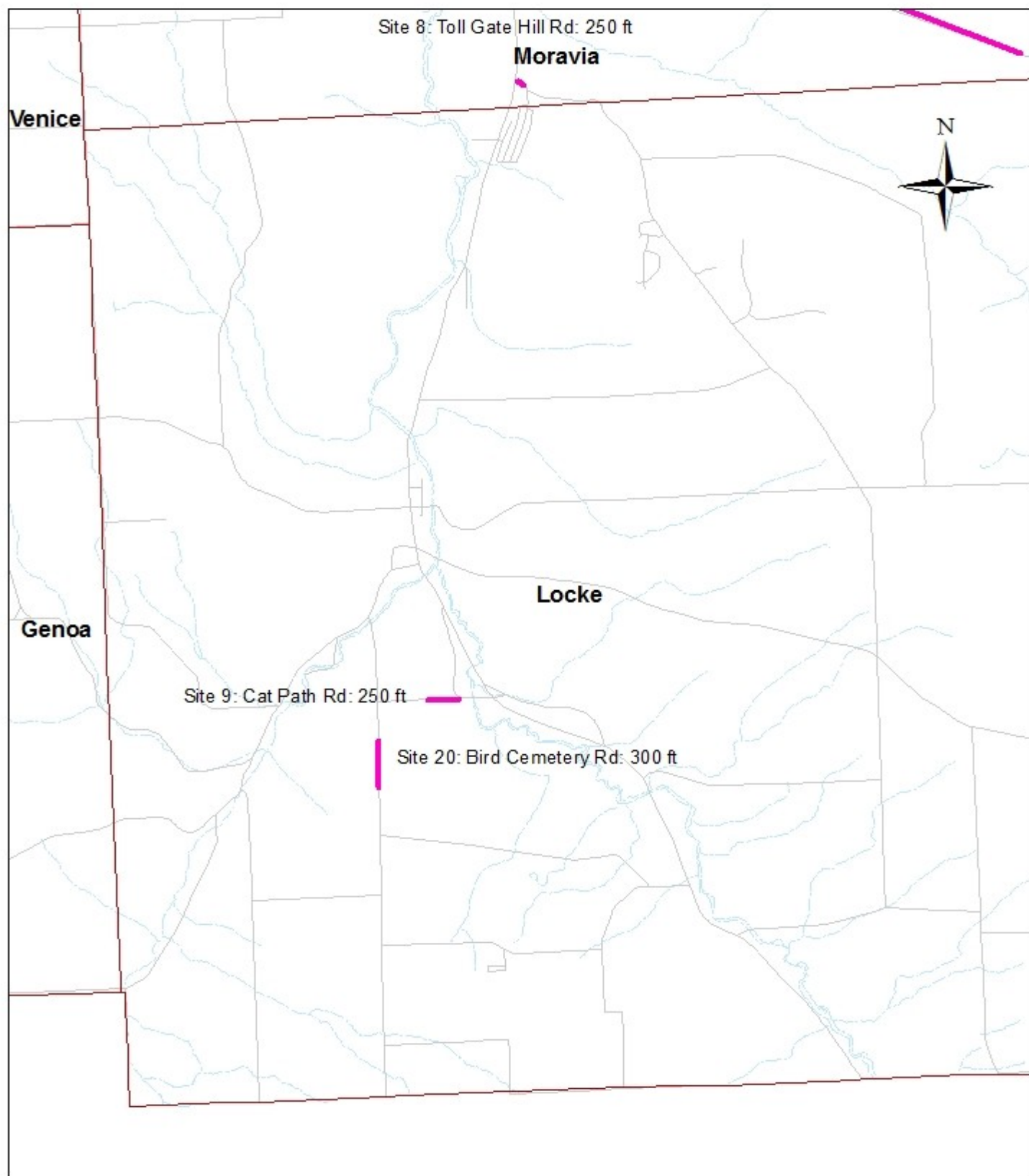
Combined Length of Ditches in Fleming: 2,500 ft 0 2,500 5,000 Feet



Map Identification	Site 12
Road Name	Mobbs Rd
Town	Fleming
Length of Ditch	2,500 ft
Height/Width of Ditch	1-3/3-6ft
Percent Vegetation	10%
Soil Type	Gravel
Current Condition	Recently ditched, light vegetation, exposed soil
Sub-Watershed	Veness Brook
Road Jurisdiction	Town of Fleming
Closest Intersection	W Lake/Mobbs/ Silver St
Rank	High

Owasco Lake Watershed Ditch Remediation Sites

Town of Locke: 2 Sites



Combined Length of Ditches in Locke: 550 ft

0 2,500 5,000 Feet



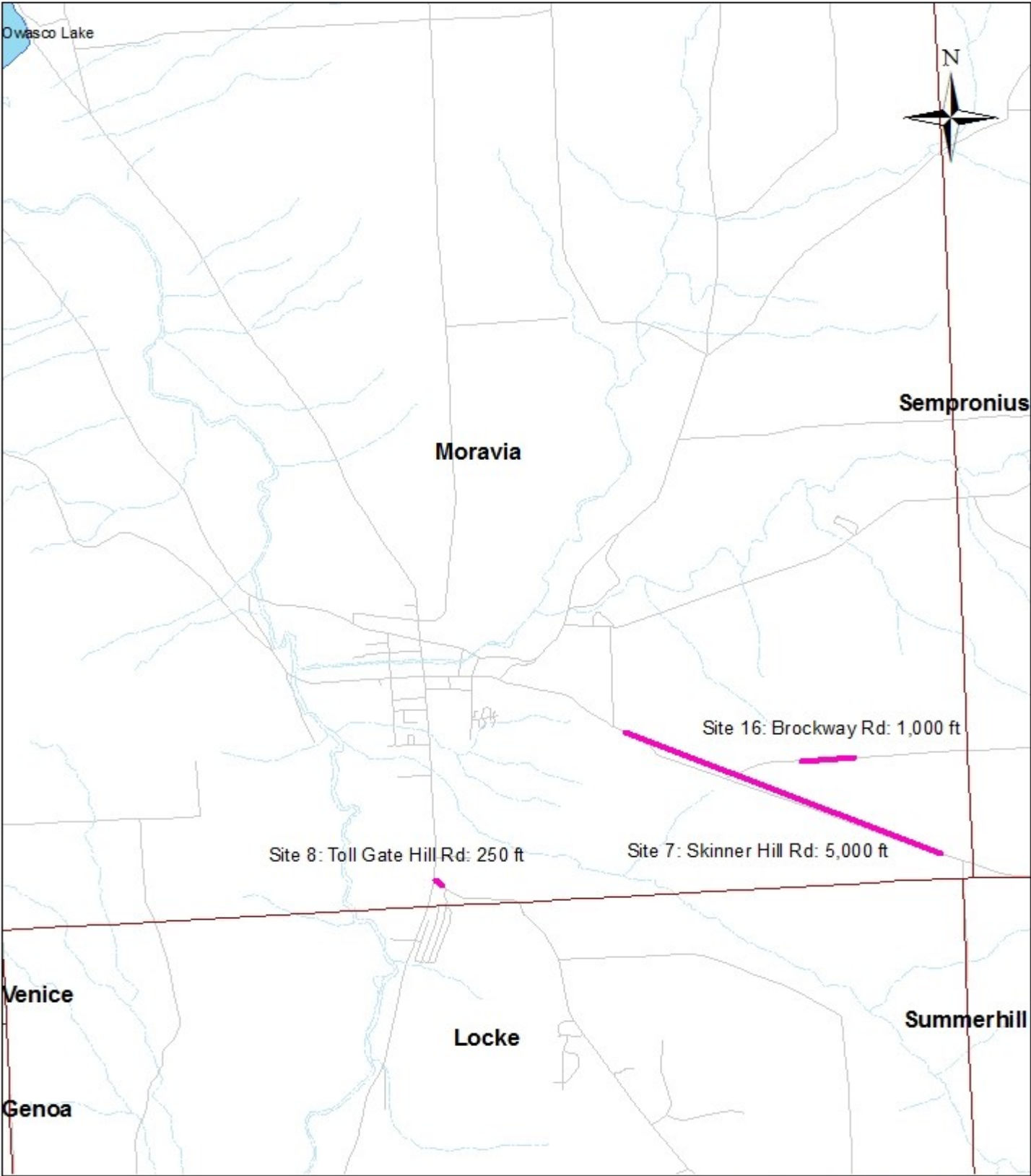
Map Identification	Site 9
Road Name	Cat Path Rd
Town	Locke
Length of Ditch	250 ft
Height/Width of Ditch	2-3/2-3 ft
Percent Vegetation	50%
Soil Type	Stone/Gravel
Current Condition	Vegetation, Herbicide Applied
Sub-Watershed	Owasco Inlet
Road Jurisdiction	Town of Locke
Closest Intersection	Cat Path/Cruthers Rd
Rank	Low



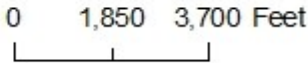
Map Identification	Site 20
Road Name	Bird Cemetery Rd
Town	Locke
Length of Ditch	300 ft
Height/Width of Ditch	3-6/3-6 ft
Percent Vegetation	25%
Soil Type	Soil/Gravel
Current Condition	Light Vegetation, Unstable Soil
Sub-Watershed	Owasco Inlet
Road Jurisdiction	Cayuga County Highway
Closest Intersection	Cat Path/ Bird Cemetery Rd
Rank	High

Owasco Lake Watershed Ditch Remediation Sites

Town of Moravia: 3 Sites



Combined Length of Ditches in Moravia: 6,250 ft





Map Identification	Site 7
Road Name	Skinner Hill Rd
Town	Moravia
Length of Ditch	5,000 ft
Height/Width of Ditch	2-4/3-5 ft
Percent Vegetation	40%
Soil Type	Sand/Gravel
Current Condition	Light vegetation, sections of exposed soil
Sub-Watershed	Unknown
Road Jurisdiction	Town of Moravia
Closest Intersection	Skinner Hill/Harris Rd
Rank	High



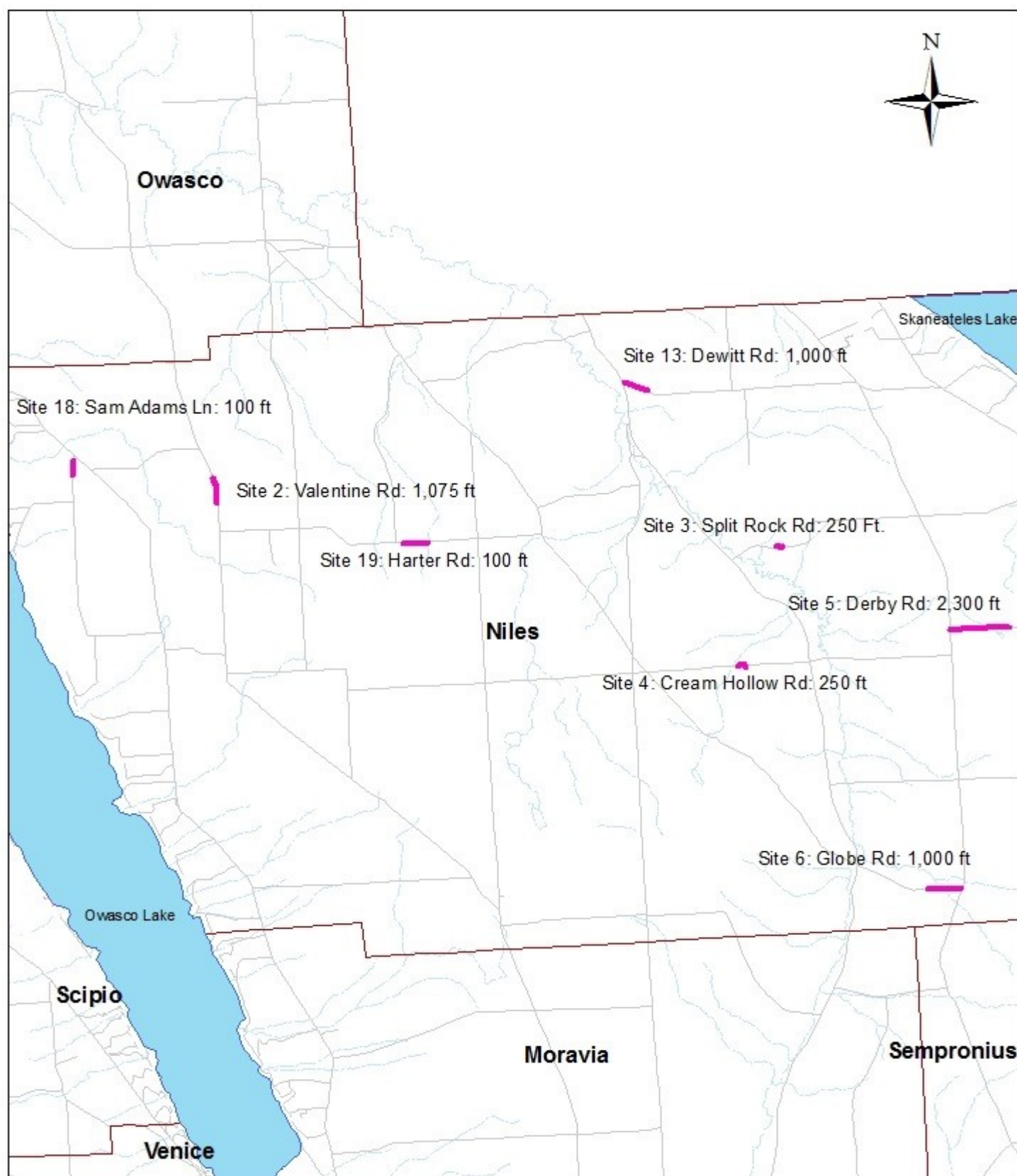
Identification	Site 8
Road Name	Toll Gate Hill Rd
Town	Moravia
Length of Ditch	250 ft
Height/Width of Ditch	2-5/6-12ft
Percent Vegetation	30%
Ground Type	Soil/Gravel
Current Condition	Light vegetation, exposed soil and gravel
Sub-Watershed	Unknown
Road Jurisdiction	Cayuga County Highway
Closest Intersection	Toll Gate Hill/Rt 38
Rank	Moderate



Map Identification	Site 16
Road Name	Brockway Rd
Town	Moravia
Length of Ditch	1,000 ft
Height/Width of Ditch	3-6/4-6 ft
Percent Vegetation	0%
Ground Type	Gravel/Sand
Current Condition	No vegetation, exposed rocks and gravel
Sub-Watershed	Unknown
Road Jurisdiction	Town of Moravia
Closest Intersection	Brockway/Skinner Hill Rd
Rank	High

Owasco Lake Watershed Ditch Remediation Sites

Town of Niles: 8 Sites



Combined Length of Ditches in Niles: 6,075 ft

0 2,500 5,000 Feet



Map Identification	Site 2
Road Name	Valentine Rd
Town	Niles
Length of Ditch	1,075 ft.
Height/Width of Ditch	2-5/1-4ft.
Percent Vegetation	15%
Soil Type	Gravel
Current Condition	No vegetation, exposed gravel and soil, both sides of road
Sub-Watershed	Unknown
Road Jurisdiction	Cayuga County Highway
Closest Intersection	Valentine/Harter Rd
Rank	High



Map Identification	Site 4
Road Name	Cream Hollow Rd
Town	Niles
Length of Ditch	250 ft.
Height/Width of Ditch	2-6/3-7ft.
Percent Vegetation	5%
Ground Type	Soil/Gravel
Current Condition	No vegetation, exposed gravel
Sub-Watershed	Unknown
Road Jurisdiction	Town of Niles
Closest Intersection	Cream Hollow/Rt 38 A
Rank	High



Map Identification	Site 3
Road Name	Split Rock Rd
Town	Niles
Length of Ditch	250 ft.
Height/Width of Ditch	2-6/8-12ft.
Percent Vegetation	0%
Ground Type	Gravel/Rocks
Current Condition	No vegetation, exposed rocks and gravel
Sub-Watershed	Unknown
Road Jurisdiction	Town of Niles
Closest Intersection	Split Rock/ Old Salt Rd
Rank	High



Map Identification	Site 5
Road Name	Derby Rd
Town	Niles
Length of Ditch	2,300 ft
Height/Width of Ditch	2-4/3-6 ft
Percent Vegetation	25%
Soil Type	Sandy Loam
Current Condition	Vegetated, Herbicide Applied
Sub-Watershed	Unknown
Road Jurisdiction	Town of Niles
Closest Intersection	Old Salt/ Derby Rd
Rank	Moderate



Map Identification	Site 6
Road Name	Globe Rd
Town	Niles
Length of Ditch	1,000 ft
Height/Width of Ditch	2-4/3-6 ft
Percent Vegetation	75%
Soil Type	Soil/Gravel
Current Condition	Vegetation, pesticides applied
Sub-Watershed	Unknown
Road Jurisdiction	Cayuga County Highway
Closest Intersection	Globe/Old Salt Rd
Rank	Low



Identification	Site 13
Road Name	Dewitt Rd
Town	Niles
Length of Ditch	1,000 ft
Height/Width of Ditch	3-5/4-7 ft
Percent Vegetation	10%
Ground Type	Soil/Gravel
Current Condition	Exposed soil and gravel, loose rocks
Sub-Watershed	Unknown
Road Jurisdiction	Town of Niles
Closest Intersection	Detwitt/Rt 38 A
Rank	High



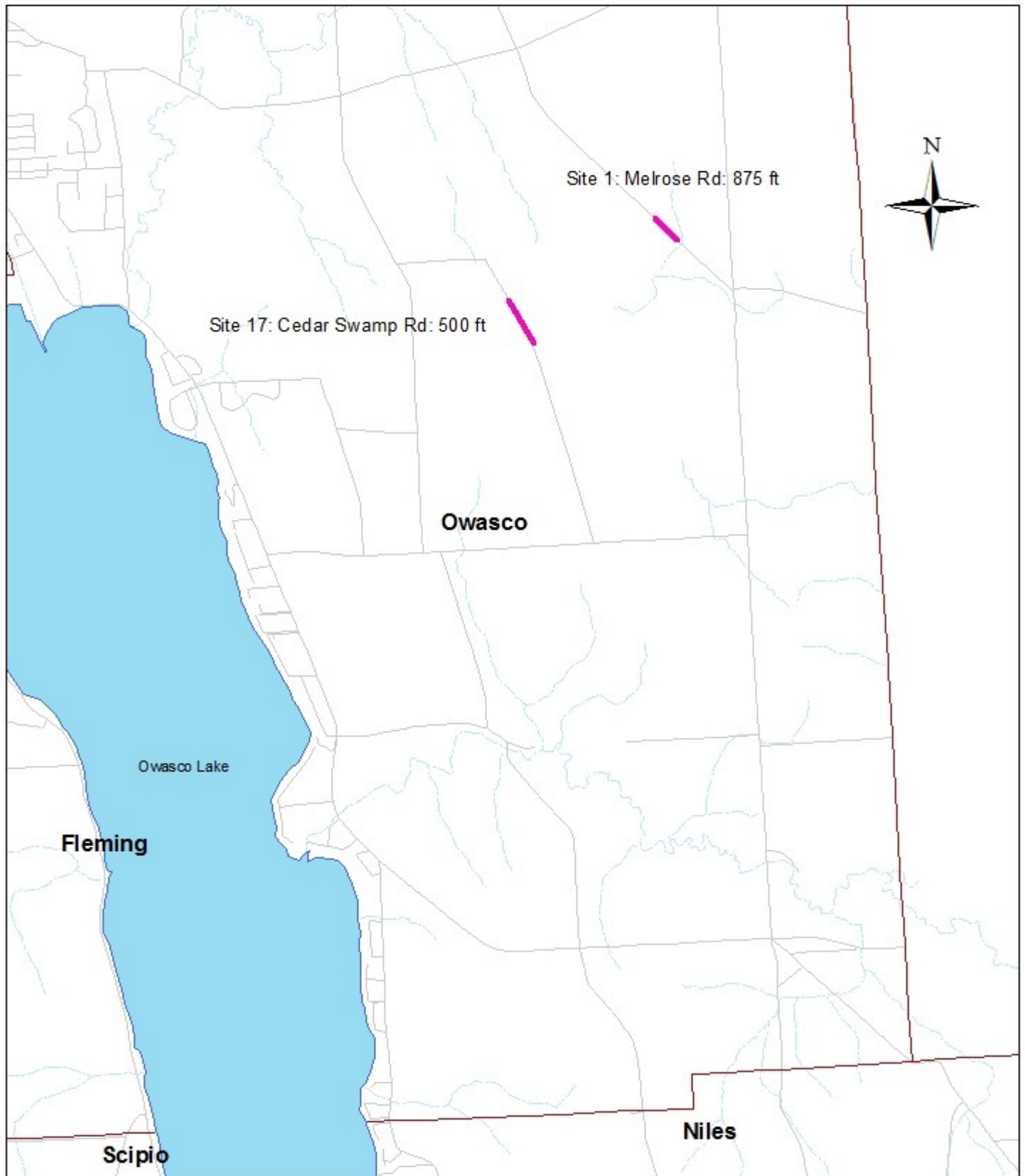
Map Identification	Site 18
Road Name	Sam Adams Ln
Town	Niles
Length of Ditch	100 ft
Height/Width of Ditch	2-3/1-2 ft
Percent Vegetation	75%
Soil Type	Soil/Gravel
Current Condition	Light Vegetation, Sediment Deposition
Sub-Watershed	Unknown
Road Jurisdiction	Cayuga County Highway
Closest Intersection	Sam Adams/Rockefeller Rd
Rank	Low



Map Identification	Site 19
Road Name	Harter Rd
Town	Niles
Length of Ditch	100 ft
Height/Width of Ditch	3-4/3-6 ft
Percent Vegetation	25%
Soil Type	Soil/Gravel
Current Condition	Recently Ditched, Light Vegetation
Sub-Watershed	Unknown
Road Jurisdiction	Town of Niles
Closest Intersection	Harter/Fitzpatrick Rd
Rank	Moderate

Owasco Lake Watershed Ditch Remediation Sites

Town of Owasco: 2 Sites



Combined Length of Ditches in Owasco: 1,375 ft

0 2,500 5,000 Feet



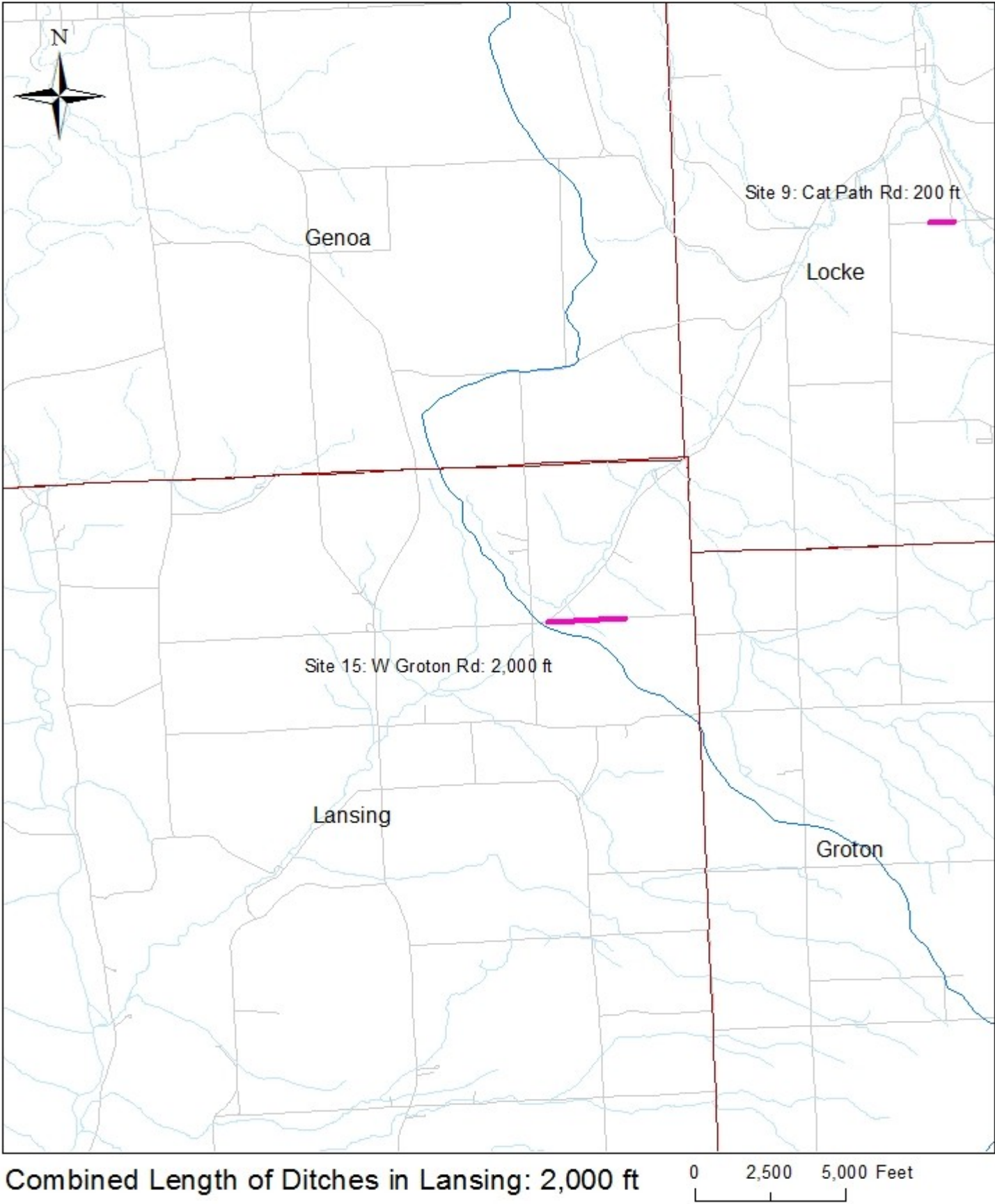
Map Identification	Site 1
Road Name	Melrose Rd
Town	Owasco
Length of Ditch	875 ft.
Height/Width of Ditch	2-3/2-3ft
Percent Vegetation	25%
Soil Type	Sand/Gravel
Current Condition	Light vegetation, exposed soil
Sub-Watershed	Sucker Brook
Road Jurisdiction	Cayuga County Highway
Closest Intersection	Melrose/Broadway Rd
Rank	Low



Map Identification	Site 17
Road Name	Cedar Swamp Rd
Town	Owasco
Length of Ditch	500 ft
Height/Width of Ditch	1-4/2-4 ft
Percent Vegetation	25%
Soil Type	Sand/Gravel
Current Condition	Light vegetation, exposed soil
Sub-Watershed	Sucker Brook
Road Jurisdiction	Town of Owasco
Closest Intersection	Cedar Swamp/Town Hall Rd
Rank	Low

Owasco Lake Watershed Ditch Remediation Sites

Town of Lansing: 1 Site





Map Identification	Site 15
Road Name	West Groton Rd
Town	Lansing
Length of Ditch	2000 ft.
Height/Width of Ditch	2-6/8-12ft.
Percent Vegetation	0%
Ground Type	Gravel/Sand
Current Condition	No vegetation, exposed rocks and gravel
Sub-Watershed	Hemlock
Road Jurisdiction	Tompkins County Highway
Closest Intersection	Locke/W Groton Rd
Rank	High

Cumulative Roadside Ditch Per Town and County

Cayuga County Highway: 9,200 ft

Tompkins County Highway: 2,000 ft

Town of Owasco: 500 ft

Town of Niles: 3,900 ft

Town of Moravia: 6,000 ft

Town of Locke: 250 ft

Town of Scipio: 2,500 ft

Town of Fleming: 2,500 ft

For assistance with hydro/seeding and/or ditch management—please contact:

Doug Kierst - Cayuga County Soil and Water Conservation

or

John Fraser - Cayuga County Soil and Water Conservation

or

Andrew Snell - Owasco Lake Watershed Inspection Program

Phone: 315.252.4171