

Owasco Lake Watershed 2017 Roadside Ditch Assessment



The information included in this assessment was collected between late June and early July 2017. 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 been 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 2017 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

Direct

Connection or proximity to a stream

Percent Vegetation

0-25%

26-50%

51-75%

76-100%

Level of erodibility

High

Moderate

Low

Bank slope

Steep Grade

Moderate Grade

Flat

Linear footage of ditch

≥401 ft

201-400 ft

≤200 ft

Points

10

15

10

5

1

10

5

1

10

5

1

15

10

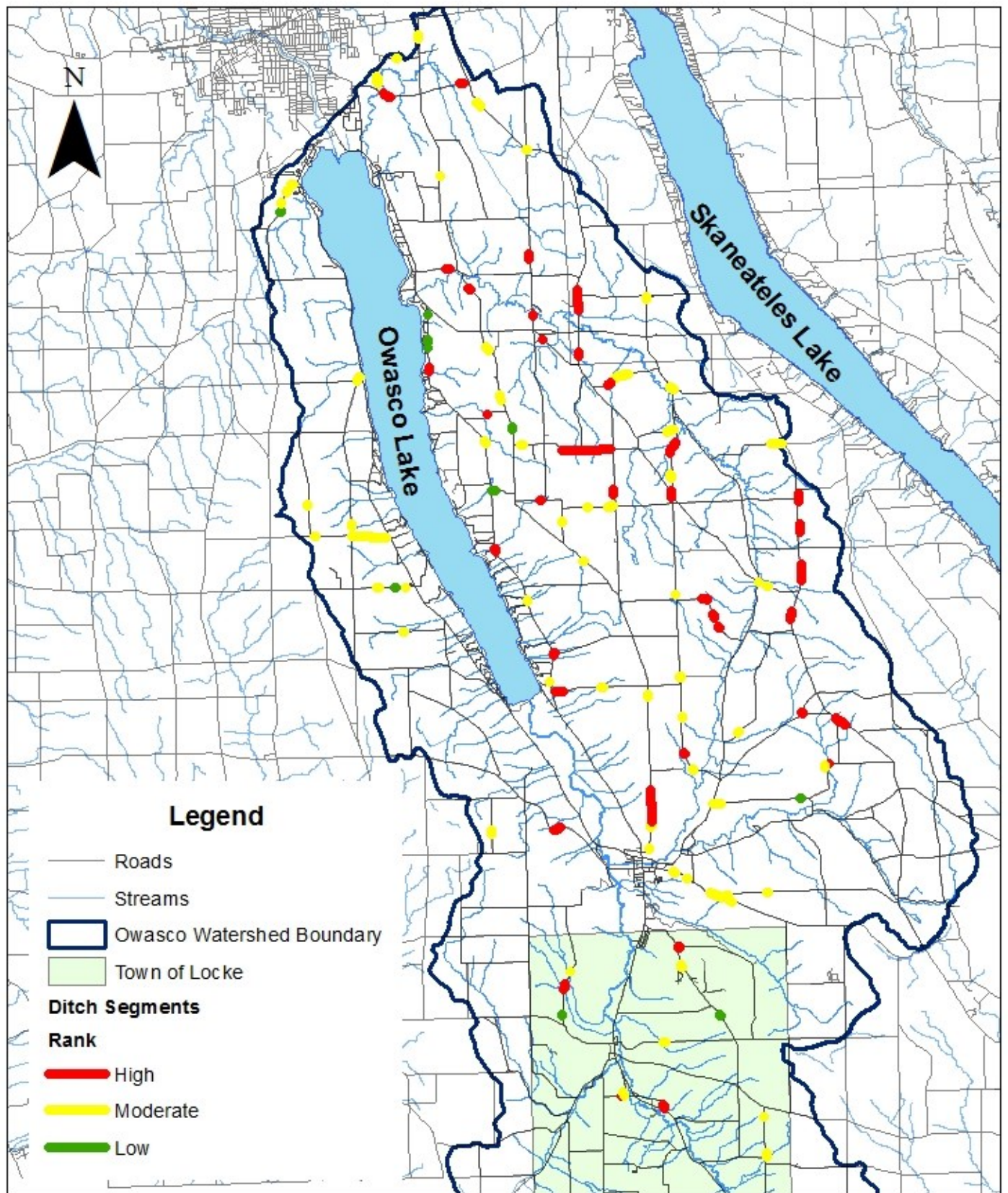
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Total Points	Rank
≤20	Low
21-39	Moderate
40-60	



A Trimble GPS unit is used to map different features of the ditches, allowing for the Inspection Program to categorize the level of erodibility and risk of ditch failure

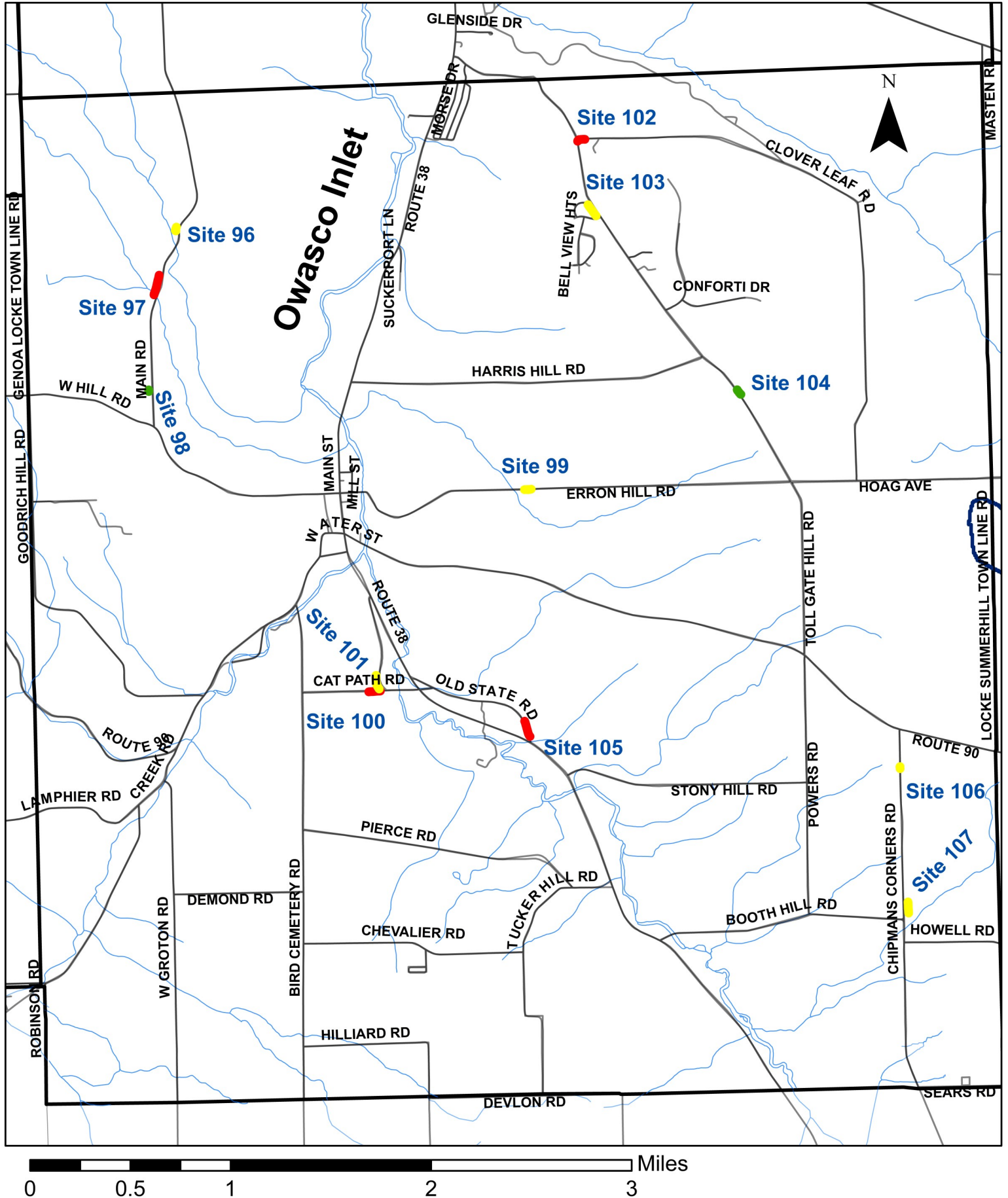
Road Ditch Assessment Sites in the Owasco Lake Watershed (Summer 2017)



Map created by Kathryn Vellone,
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Owasco Lake Watershed Inspection Program
September 5, 2017

0 5 10 Miles

Road Ditch Assessment Sites in Locke (Cayuga County)





Map Identifier: Site 96
Sub-watershed: Owasco Inlet
Road Name: Main Road
Town: Locke
Road Jurisdiction: Town of Locke
Closest Intersection: Main Road/West Hill Road
Direct connection or proximity to a stream?: Yes
Percent Vegetation & Type: 50% Grasses
Level of Erodibility: Moderate
Slope of Area: Moderate Grade
Length of Ditch: 100 ft
Management Recommended: Hydroseeding
Resolvability: Moderate

Rank: Moderate (Score = 35)
Estimated Cost: \$150



Map Identifier: Site 97
Sub-watershed: Owasco Inlet
Road Name: Main Road
Town: Locke
Road Jurisdiction: Town of Locke
Closest Intersection: Main Road/West Hill Road
Direct connection or proximity to a stream?: Yes
Percent Vegetation & Type: 0%
Level of Erodibility: High
Slope of Area: Moderate Grade
Length of Ditch: 550 ft
Management Recommended: Rock Armor
Resolvability: Difficult

Rank: High (Score = 55)
Estimated Cost: \$825

7/7/2017



Map Identifier: Site 98
Sub-watershed: Owasco Inlet
Road Name: Main Road
Town: Locke
Road Jurisdiction: Town of Locke
Closest Intersection: Main Road/West Hill Road
Direct connection or proximity to a stream?: No
Percent Vegetation & Type: 50% Grasses
Level of Erodibility: Low
Slope of Area: Flat
Length of Ditch: 50 ft
Management Recommended: Hydroseeding
Resolvability: Simple

Rank: Low (Score = 17)
Estimated Cost: \$75

6/29/2017



Map Identifier: Site 99
Sub-watershed: Owasco Inlet
Road Name: Erron Hill Road
Town: Locke
Road Jurisdiction: Town of Locke
Closest Intersection: Erron Hill Road/Mill Street
Direct connection or proximity to a stream?: Yes
Percent Vegetation & Type: 30% Grasses
Level of Erodibility: Low
Slope of Area: Steep Grade
Length of Ditch: 200 ft
Management Recommended: Hydroseeding
Resolvability: Moderate

Rank: Moderate (Score = 36)
Estimated Cost: \$300



Map Identifier: Site 100
Sub-watershed: Owasco Inlet
Road Name: Cat Path Road
Town: Locke
Road Jurisdiction: Town of Locke
Closest Intersection: Cat Path Road /Cruthers Road
Direct connection or proximity to a stream?: Yes
Percent Vegetation & Type: 50% Grasses
Level of Erodibility: Moderate
Slope of Area: Moderate Grade
Length of Ditch: 300 ft
Management Recommended: Hydroseeding
Resolvability: Simple

Rank: High (Score = 40)
Estimated Cost: \$450



Map Identifier: Site 101
Sub-watershed: Owasco Inlet
Road Name: Cruthers Road
Town: Locke
Road Jurisdiction: Town of Locke
Closest Intersection: Cruthers Road/Cat Path Road
Direct connection or proximity to a stream?: No
Percent Vegetation & Type: 70% Grasses
Level of Erodibility: Moderate
Slope of Area: Moderate Grade
Length of Ditch: 400 ft
Management Recommended: Hydroseeding
Resolvability: Simple

Rank: Moderate (Score = 25)
Estimated Cost: \$600
Comments: Garbage and algae in ditch

8/21/2017



Map Identifier: Site 102
Sub-watershed: Owasco Inlet
Road Name: Cloverleaf Road
Town: Locke
Road Jurisdiction: Town of Locke
Closest Intersection: Cloverleaf Road/Toll Gate Hill Road
Direct connection or proximity to a stream?: No
Percent Vegetation & Type: 25% Woody Shrubs
Level of Erodibility: High
Slope of Area: Steep Grade
Length of Ditch: 200 ft
Management Recommended: Rock Armor
Resolvability: Moderate

Rank: High (Score = 45)
Estimated Cost: \$300

6/29/2017



Map Identifier: Site 103
Sub-watershed: Owasco Inlet
Road Name: Toll Gate Hill Road
Town: Locke
Road Jurisdiction: Cayuga County Highway
Closest Intersection: Toll Gate Hill Road/Golf View Drive
Direct connection or proximity to a stream?: No
Percent Vegetation & Type: 5% Grasses
Level of Erodibility: Moderate
Slope of Area: Moderate Grade
Length of Ditch: 350 ft
Management Recommended: Hydroseeding
Resolvability: Difficult

Rank: Moderate (Score = 35)
Estimated Cost: \$525



Map Identifier: Site 104
Sub-watershed: Owasco Inlet
Road Name: Toll Gate Hill Road
Town: Locke
Road Jurisdiction: Cayuga County Highway
Closest Intersection: Toll Gate Hill Road /Harris Hill Road
Direct connection or proximity to a stream?: No
Percent Vegetation & Type: 75% Grasses
Level of Erodibility: Moderate
Slope of Area: Moderate Grade
Length of Ditch: 150 ft
Management Recommended: Hydroseeding
Resolvability: Simple

Rank: Low (Score = 20)
Estimated Cost: \$225
Comments: Located within State Reforestation Lands



Map Identifier: Site 105
Sub-watershed: Owasco Inlet
Road Name: Old State Road
Town: Locke
Road Jurisdiction: Town of Locke
Closest Intersection: Old State Road/State Route 90
Direct connection or proximity to a stream?: Yes
Percent Vegetation & Type: 50% Grasses
Level of Erodibility: Moderate
Slope of Area: Moderate Grade
Length of Ditch: 450 ft
Management Recommended: Hydroseeding
Resolvability: Simple

Rank: High (Score = 45)
Estimated Cost: \$675



Map Identifier: Site 106
Sub-watershed: Owasco Inlet
Road Name: Chipmans Corners Road
Town: Locke
Road Jurisdiction: Cayuga County Highway
Closest Intersection: Chipmans Corners Road /State Route 90
Direct connection or proximity to a stream?: No
Percent Vegetation & Type: 50% Grasses
Level of Erodibility: Low
Slope of Area: Moderate Grade
Length of Ditch: 50 ft
Management Recommended: Hydroseeding
Resolvability: Simple

Rank: Moderate (Score = 21)
Estimated Cost: \$75



Map Identifier: Site 107
Sub-watershed: Owasco Inlet
Road Name: Chipmans Corners Road
Town: Locke
Road Jurisdiction: Cayuga County Highway
Closest Intersection: Chipmans Corners Road/Booth Road
Direct connection or proximity to a stream?: Yes
Percent Vegetation & Type: 50% Grasses
Level of Erodibility: Low
Slope of Area: Moderate Grade
Length of Ditch: 300 ft
Management Recommended: Hydroseeding
Resolvability: Simple

Rank: Moderate (Score = 36)
Estimated Cost: \$450

Summary

Cumulative Roadside Ditch and Total Cost Based on Road Jurisdiction:

Town of Locke:

8 sites, 2,250 ft

\$3,375

Cayuga County Highways

(Locke):

4 sites, 850 ft

\$1,275