

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

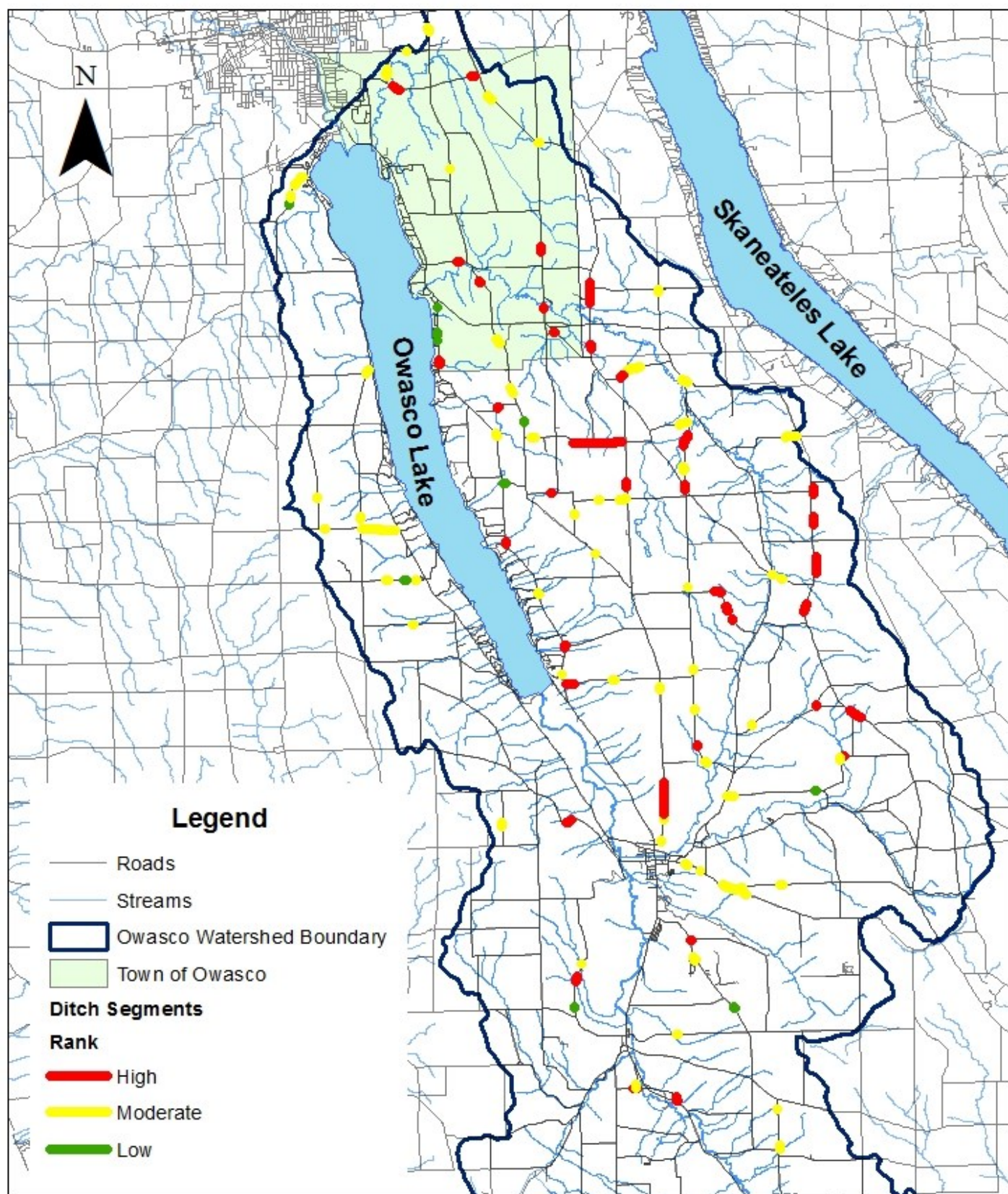
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Total Points	Rank
≤20	Low
21-39	Moderate
40-60	High



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

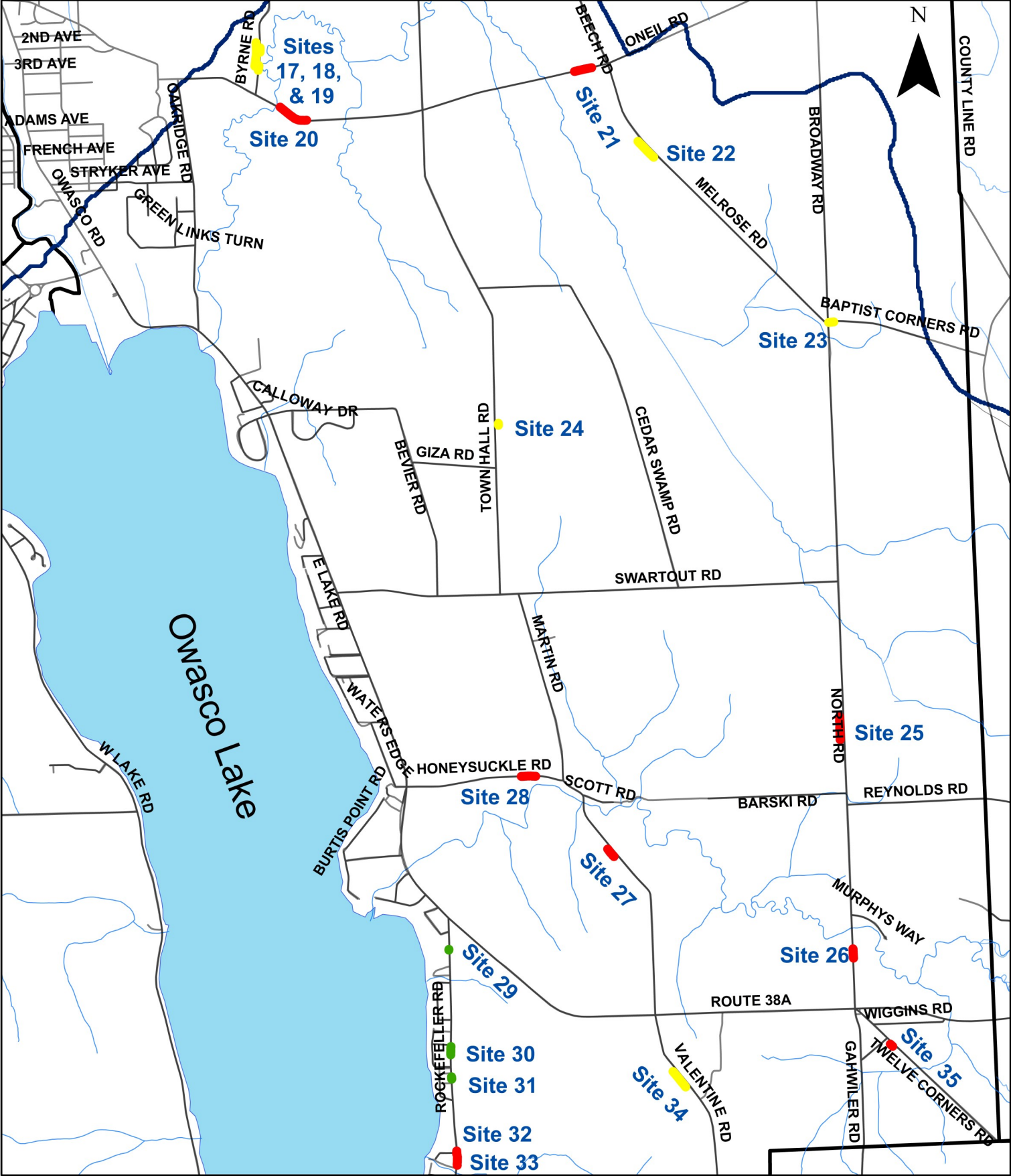
Road Ditch Assessment Sites in the Owasco Lake Watershed (Summer 2017)



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 Owasco (Cayuga County)





Map Identifier: Site 17
Sub-watershed: Sucker Brook
Road Name: Byrne Road
Town: Owasco
Road Jurisdiction: Town of Owasco
Closest Intersection: Byrne Road/ Melrose Road
Direct connection or proximity to a stream?: Yes
Percent Vegetation & Type: 60% Grasses
Level of Erodibility: Low
Slope of Area: Flat
Length of Ditch: 100 ft
Management Recommended: Hydroseeding
Resolvability: Simple

Rank: Moderate (Score = 22)
Estimated Cost: \$150



Map Identifier: Site 18
Sub-watershed: Sucker Brook
Road Name: Byrne Road
Town: Owasco
Road Jurisdiction: Town of Owasco
Closest Intersection: Byrne Road/ Melrose Road
Direct connection or proximity to a stream?: No
Percent Vegetation & Type: 70% Grasses
Level of Erodibility: Low
Slope of Area: Moderate Grade
Length of Ditch: 600 ft
Management Recommended: Hydroseeding
Resolvability: Moderate

Rank: Moderate (Score = 26)
Estimated Cost: \$900



Map Identifier: Site 19
Sub-watershed: Sucker Brook
Road Name: Byrne Road
Town: Owasco
Road Jurisdiction: Town of Owasco
Closest Intersection: Byrne Road/
Melrose Road
Direct connection or proximity to a stream?: Yes
Percent Vegetation & Type: 60%
Grasses
Level of Erodibility: Low
Slope of Area: Moderate Grade
Length of Ditch: 100 ft
Management Recommended:
Hydroseeding
Resolvability: Simple

Rank: Moderate (Score = 26)
Estimated Cost: \$150



Map Identifier: Site 20
Sub-watershed: Sucker Brook
Road Name: Melrose Road
Town: Owasco
Road Jurisdiction: Cayuga County
Highway
Closest Intersection: Melrose Road/
Byrne Road
Direct connection or proximity to a stream?: Yes
Percent Vegetation & Type: 50%
Grasses
Level of Erodibility: Moderate
Slope of Area: Steep Grade
Length of Ditch: 800 ft
Management Recommended:
Hydroseeding
Resolvability: Moderate

Rank: High (Score = 50)
Estimated Cost: \$1,200
Comments: Check dams present at
site before ditch assessment



Map Identifier: Site 21
Sub-watershed: Sucker Brook
Road Name: Melrose Road
Town: Owasco
Road Jurisdiction: Cayuga County Highway
Closest Intersection: Melrose Road/ Beech Road
Direct connection or proximity to a stream?: Yes
Percent Vegetation & Type: 75% Grasses
Level of Erodibility: Moderate
Slope of Area: Moderate Grade
Length of Ditch: 450 ft
Management Recommended: Hydroseeding
Resolvability: Moderate

Rank: High (Score = 40)
Estimated Cost: \$675
Comments: some garbage in ditch



Map Identifier: Site 22
Sub-watershed: Sucker Brook
Road Name: Melrose Road
Town: Owasco
Road Jurisdiction: Cayuga County Highway
Closest Intersection: Melrose Road/ Beech Road
Direct connection or proximity to a stream?: No
Percent Vegetation & Type: 40% Grasses
Level of Erodibility: Moderate
Slope of Area: Flat
Length of Ditch: 600 ft
Management Recommended: Hydroseeding
Resolvability: Simple

Rank: Moderate (Score = 31)
Estimated Cost: \$900
Comments: Garbage in ditch



Map Identifier: Site 23
Sub-watershed: Sucker Brook
Road Name: Baptist Corners Road
Town: Owasco
Road Jurisdiction: Cayuga County Highway
Closest Intersection: Baptist Corners Road/North Road
Direct connection or proximity to a stream?: No
Percent Vegetation & Type: 10% Grasses
Level of Erodibility: Moderate
Slope of Area: Moderate Grade
Length of Ditch: 150 ft
Management Recommended: Hydroseeding
Resolvability: Moderate

Rank: Moderate (Score = 30)
Estimated Cost: \$225



Map Identifier: Site 24
Sub-watershed: Sucker Brook
Road Name: Town Hall Road
Town: Owasco
Road Jurisdiction: Town of Owasco
Closest Intersection: Town Hall Road/Giza Road
Direct connection or proximity to a stream?: No
Percent Vegetation & Type: 5% Grasses
Level of Erodibility: Low
Slope of Area: Flat
Length of Ditch: 50 ft
Management Recommended: Hydroseeding
Resolvability: Simple

Rank: Moderate (Score = 22)
Estimated Cost: \$75



Map Identifier: Site 25
Sub-watershed: Dutch Hollow Brook
Road Name: North Road
Town: Owasco
Road Jurisdiction: Cayuga County Highway
Closest Intersection: North Road/Barski Road
Direct connection or proximity to a stream?: Yes
Percent Vegetation & Type: 40% Grasses
Level of Erodibility: Moderate
Slope of Area: Moderate Grade
Length of Ditch: 600 ft
Management Recommended: Hydroseeding
Resolvability: Simple

Rank: High (Score = 45)
Estimated Cost: \$900
Comments: Garbage in ditch, culvert in deteriorating condition



Map Identifier: Site 26
Sub-watershed: Dutch Hollow Brook
Road Name: North Road
Town: Owasco
Road Jurisdiction: Cayuga County Highway
Closest Intersection: North Road/Murphy's Way
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: 250 ft
Management Recommended: Hydroseeding
Resolvability: Moderate

Rank: High (Score = 40)
Estimated Cost: \$375



Map Identifier: Site 27
Sub-watershed: Dutch Hollow Brook
Road Name: Martin Road
Town: Owasco
Road Jurisdiction: Town of Owasco
Closest Intersection: Martin Road/Honeysuckle Road
Direct connection or proximity to a stream?: Yes
Percent Vegetation & Type: 30% Grasses
Level of Erodibility: Moderate
Slope of Area: Moderate Grade
Length of Ditch: 250 ft
Management Recommended: Hydroseeding
Resolvability: Simple

Rank: High (Score = 40)
Estimated Cost: \$375



Map Identifier: Site 28
Sub-watershed: Dutch Hollow Brook
Road Name: Honeysuckle Road
Town: Owasco
Road Jurisdiction: Town of Owasco
Closest Intersection: Honeysuckle Road/Martin Road
Direct connection or proximity to a stream?: Yes
Percent Vegetation & Type: 30% Grasses
Level of Erodibility: Moderate
Slope of Area: Moderate Grade
Length of Ditch: 350 ft
Management Recommended: Hydroseeding
Resolvability: Moderate

Rank: High (Score = 40)
Estimated Cost: \$525



Map Identifier: Site 29
Sub-watershed: Unknown
Road Name: Rockefeller Road
Town: Owasco
Road Jurisdiction: Cayuga County Highway
Closest Intersection: Rockefeller Road/Gleason Drive
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



Map Identifier: Site 30
Sub-watershed: Unknown
Road Name: Rockefeller Road
Town: Owasco
Road Jurisdiction: Cayuga County Highway
Closest Intersection: Rockefeller Road/Denman Cove
Direct connection or proximity to a stream?: No
Percent Vegetation & Type: 80% Grasses
Level of Erodibility: Low
Slope of Area: Moderate Grade
Length of Ditch: 200 ft
Management Recommended: Hydroseeding
Resolvability: Simple

Rank: Low (Score = 17)
Estimated Cost: \$300



Map Identifier: Site 31
Sub-watershed: Unknown
Road Name: Rockefeller Road
Town: Owasco
Road Jurisdiction: Cayuga County Highway
Closest Intersection: Rockefeller Road/Fire Lane 12A
Direct connection or proximity to a stream?: No
Percent Vegetation & Type: 80% Grasses
Level of Erodibility: Low
Slope of Area: Moderate Grade
Length of Ditch: 50 ft
Management Recommended: Hydroseeding
Resolvability: Simple

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



Map Identifier: Site 32
Sub-watershed: Unknown
Road Name: Rockefeller Road
Town: Owasco
Road Jurisdiction: Cayuga County Highway
Closest Intersection: Rockefeller Road/State Route 38A
Direct connection or proximity to a stream?: Yes
Percent Vegetation & Type: 25% Grasses
Level of Erodibility: Moderate
Slope of Area: Moderate Grade
Length of Ditch: 100 ft
Management Recommended: Hydroseeding
Resolvability: Simple

Rank: High (Score = 40)
Estimated Cost: \$150



Map Identifier: Site 33
Sub-watershed: Unknown
Road Name: Rockefeller Road
Road Jurisdiction: Cayuga County Highway
Closest Intersection: Rockefeller Road/Fire Lane 14
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: 200 ft
Management Recommended: Hydroseeding
Resolvability: Moderate

Rank: High (Score = 40)
Estimated Cost: \$300



Map Identifier: Site 34
Sub-watershed: Dutch Hollow Brook
Road Name: Valentine Road
Town: Owasco
Road Jurisdiction: Cayuga County Highway
Closest Intersection: Valentine Road/State Route 38A
Direct connection or proximity to a stream?: No
Percent Vegetation & Type: 40% Grasses
Level of Erodibility: Moderate
Slope of Area: Flat
Length of Ditch: 500 ft
Management Recommended: Hydroseeding
Resolvability: Simple

Rank: Moderate (Score = 31)
Estimated Cost: \$750



Map Identifier: Site 35
Sub-watershed: Dutch Hollow Brook
Road Name: Twelve Corners Road
Town: Owasco
Road Jurisdiction: Cayuga County Highway
Closest Intersection: Twelve Corners Road/State Route 38A
Direct connection or proximity to a stream?: Yes
Percent Vegetation & Type: 10% Grasses
Level of Erodibility: Moderate
Slope of Area: Moderate Grade
Length of Ditch: 100 ft
Management Recommended: Hydroseeding
Resolvability: Simple

Rank: High (Score = 40)
Estimated Cost: \$150

Summary

Cumulative Roadside Ditch and Total Costs Based on Road Jurisdiction:

Town of Owasco:

6 sites, 1,450 ft

\$2,175

**Cayuga County Highways
(Owasco):**

13 sites, 4,050 ft