



Appendix A

**Project Prioritization Tool
Scoring Forms**

City of Rochester Hills

Restoration Project Ranking

Restoration/Enhancement Value

54

Project Name: *Harding Wet Meadow Enhancement*

Project Location: *see Figure 3a*

Criteria

Value Score

Metric 1: Restoration Location and Type

a. Location (score all that apply)

| | | |
|---|--------|----------|
| Greenspace Property | 9 pts. | 9 |
| Park Property | 7 pts. | |
| Clinton River | 5 pts. | |
| Property Adjacent to Green Space or Park Properties where restoration work would support projects on GS and Park Properties | 3 pts. | |
| Non-Green Space or Park Property (e.g., next to a river, along a public road, etc.) | 1 pts. | |

b. Restoration Type (score all that apply)

| | | |
|--------------------------|--------|-----------|
| Habitat Restoration | 7 pts. | 10 |
| Erosion/Sediment Control | 5 pts. | |
| Invasive Species Control | 3 pts. | |

Metric 2: Restoration Size and Timeline

a. Restoration Size (score one)

| | | |
|--------------------|---------|----------|
| ≥ 10 acres | 10 pts. | 2 |
| 5 to <10 acres | 7 pts. | |
| 2 to <5 acres | 5 pts. | |
| 1 to <2 acres | 3 pts. | |
| 1/4 to <1 acres | 2 pts. | |
| less than 1/4 acre | 1 pts. | |

b. Ecological Restoration Type (score one)

| | | |
|---|---------|----------|
| Restoration can be accomplished in 1 year | 10 pts. | 7 |
| Restoration can be accomplished in 1-3 years | 7 pts. | |
| Restoration can be accomplished within 3-10 years | 3 pts. | |
| Restoration may not be possible within 10 years | 1 pts. | |

Metric 3: Expected Benefits

Metric 3a: Restoration Benefits

1. Restoration Type (score all that apply)

| | | |
|--|--------|----------|
| Wetland Restoration (expanding or creating new wetland) | 9 pts. | 7 |
| Wetland Enhancement (improving existing wetland) | 7 pts. | |
| Other Property (e.g., upland) Restoration Activities | 5 pts. | |
| BMP Enhancements (e.g., buffer strips, stormwater treatment, etc.) | 5 pts. | |

2. Increased Benefits (score all that apply)

| | | |
|--------------------------------|--------|----------|
| Wildlife Habitat Improvements | 1 pts. | 2 |
| Fish Habitat Improvements | 1 pts. | |
| Floodwater Storage | 1 pts. | |
| Stormwater Storage | 1 pts. | |
| Improves Public Use/Visibility | 1 pts. | |

Metric 3b: Restoration Activities

1. Invasive Plant Treatment Area (score one)

| | | |
|--------------|--------|----------|
| 20+ acre | 7 pts. | 1 |
| 5-20 acre | 5 pts. | |
| 1.0-4.9 acre | 3 pts. | |
| <1 acre | 1 pts. | |

2. Invasive Plant Species to be Treated (score all that apply, additional species may be added)

| | | |
|---|-----------|---|
| Phragmites australis | 2 pts. | 4 |
| Reed Canary Grass | 2 pts. | |
| Woody Species (Buckthorns, honeysuckles, rose, bittersweet, barberry, privet, etc - 2 pt ea) | 2 pts. ea | |
| Herbaceous Species (Japanese knotweed, garlic mustard, purple loosestrife, invasive cattail, etc - 2 pt ea) | 2 pts. ea | |
| Other _____ | 2 pts. | |

3. MDEQ Potential Wetland Restoration Maps (choose the one covering the largest area of the site)

| | | |
|--|--------|---|
| High (mapped as historic wetland and hydric soils) | 3 pts. | 3 |
| Medium (mapped as hydric soils only) | 2 pts. | |
| Low (mapped as historic wetland only) | 1 pts. | |
| Not Mapped (may be existing wetland) | 1 pts. | |

4. Installation of Structures to Stabilize Stream Channels (score one)

| | | | |
|-------------------------------------|-------------|--------|---|
| Linear Feet of Streambed Stabilized | 300+ ft. | 7 pts. | 0 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

5. Installation of Structures to Prevent/Stop Bank Erosion (score one)

| | | | |
|--------------------------------------|-------------|--------|---|
| Linear Feet of Streambank Stabilized | 300+ ft. | 7 pts. | 0 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

6. Floodplain Reconnection (score one)

| | | | |
|------------------------------|-------------|--------|---|
| Two-Stage Ditch Construction | 200+ ft. | 5 pts. | 0 |
| | 100-200 ft. | 3 pts. | |
| | 1-100 ft. | 1 pts. | |

7. Best Management Practices (score one)

| | | | |
|-------------------------------------|----------------|--------|---|
| Acreage Treated using BMP Practices | 3.0+ acres | 7 pts. | 0 |
| | 1.0-3.0 acres | 5 pts. | |
| | 0.5-0.99 acres | 3 pts. | |
| | <0.5 acres | 1 pts. | |

8. Developed BMP Types (score all that apply)

| | | | |
|--|-------------------------------|------------------|---|
| BMPs to be Implemented (long term maintenance will be required) | Retention/Sedimentation Basin | 4 pts. | 0 |
| | Detention/Sedimentation Basin | 2 pts. | |
| | Rain Garden/Bioswale | 2 pts. | |
| | Buffer Strip (10' min.) | 2 pts. | |
| | Tree Planting | 2 pts. | |
| | Other _____ | Pts. as assigned | |

9. Water Quality Treatment (score one)

| | | | |
|----------------------|--|--------|---|
| Stormwater Treatment | Treat greater than first 1/2" OR more than 90% of storms | 6 pts. | 0 |
| | Treat first 1/2" of runoff OR runoff from 90% of storms | 3 pts. | |

10. Water Quantity Management (score one)

| | | | |
|---|--|--------|---|
| Runoff Volume Management (for a 2yr, 24-hour storm) | Post-construction runoff volume = 0 (stormwater does not leave site) | 6 pts. | 0 |
| | Post-construction runoff volume < Pre-construction runoff volume | 4 pts. | |
| | Post-construction runoff volume = pre-construction runoff volume | 2 pts. | |

Metric 4: Public Funding Benefits

a. Education Opportunities (score one)

| | | |
|---|--------|---|
| Will the site be used for future demonstration/education? | 3 pts. | 3 |
|---|--------|---|

b. Funding Benefits (score one)

| | | | |
|--|--------|---------|---|
| Matching dollars/resources from Grants, Landowner, donations, etc. (includes direct donation, property, labor, materials, etc.) | 100% | 12 pts. | 0 |
| | 50-99% | 9 pts. | |
| | 25-49% | 6 pts. | |
| | <25% | 3 pts. | |

| | |
|--------------------|-----------|
| TOTAL SCORE | 48 |
|--------------------|-----------|

Public Benefit Analysis

a. Public Benefits (Score One, or score two and average)

| | | | |
|--------------------------|--|--------|---|
| (A) Public Visibilty/Use | HIGH (existing maintained trails, parkland, heavy use) | 9 pts. | 9 |
| | MODERATE (open to the public, rustic trails, moderate use) | 5 pts. | |
| | LOW (not easily accessible and/or low user numbers) | 1 pts. | |

b. Costs

| | | |
|-------------------------------------|--|--------------|
| | 1. Implementation Year 1 | \$ 20,000.00 |
| | 2. 3-year Operations and Maintenance Costs (O&M) | \$ 60,000.00 |
| (B) Estimated Total Cost of Project | | \$ 80,000.00 |

| | |
|------------------------|--------|
| Public Benefit Ranking | 112.50 |
|------------------------|--------|

| | | |
|--------------------------------------|-------------------------------------|-----------|
| Restoration/Enhancement Value | Total Score x Public Benefit | 54 |
|--------------------------------------|-------------------------------------|-----------|

City of Rochester Hills

Restoration Project Ranking

Restoration/Enhancement Value

53

Project Name: Harding Prairie Restoration

Project Location: see Figure 3b

Criteria

Value Score

Metric 1: Restoration Location and Type

a. Location (score all that apply)

| | | |
|---|--------|----------|
| Greenspace Property | 9 pts. | 9 |
| Park Property | 7 pts. | |
| Clinton River | 5 pts. | |
| Property Adjacent to Green Space or Park Properties where restoration work would support projects on GS and Park Properties | 3 pts. | |
| Non-Green Space or Park Property (e.g., next to a river, along a public road, etc.) | 1 pts. | |

b. Restoration Type (score all that apply)

| | | |
|--------------------------|--------|-----------|
| Habitat Restoration | 7 pts. | 10 |
| Erosion/Sediment Control | 5 pts. | |
| Invasive Species Control | 3 pts. | |

Metric 2: Restoration Size and Timeline

a. Restoration Size (score one)

| | | |
|--------------------|---------|----------|
| ≥ 10 acres | 10 pts. | 5 |
| 5 to <10 acres | 7 pts. | |
| 2 to <5 acres | 5 pts. | |
| 1 to <2 acres | 3 pts. | |
| 1/4 to <1 acres | 2 pts. | |
| less than 1/4 acre | 1 pts. | |

b. Ecological Restoration Type (score one)

| | | |
|---|---------|----------|
| Restoration can be accomplished in 1 year | 10 pts. | 3 |
| Restoration can be accomplished in 1-3 years | 7 pts. | |
| Restoration can be accomplished within 3-10 years | 3 pts. | |
| Restoration may not be possible within 10 years | 1 pts. | |

Metric 3: Expected Benefits

Metric 3a: Restoration Benefits

1. Restoration Type (score all that apply)

| | | |
|--|--------|----------|
| Wetland Restoration (expanding or creating new wetland) | 9 pts. | 5 |
| Wetland Enhancement (improving existing wetland) | 7 pts. | |
| Other Property (e.g., upland) Restoration Activities | 5 pts. | |
| BMP Enhancements (e.g., buffer strips, stormwater treatment, etc.) | 5 pts. | |

2. Increased Benefits (score all that apply)

| | | |
|--------------------------------|--------|----------|
| Wildlife Habitat Improvements | 1 pts. | 2 |
| Fish Habitat Improvements | 1 pts. | |
| Floodwater Storage | 1 pts. | |
| Stormwater Storage | 1 pts. | |
| Improves Public Use/Visibility | 1 pts. | |

Metric 3b: Restoration Activities

1. Invasive Plant Treatment Area (score one)

| | | |
|--------------|--------|----------|
| 20+ acre | 7 pts. | 3 |
| 5-20 acre | 5 pts. | |
| 1.0-4.9 acre | 3 pts. | |
| <1 acre | 1 pts. | |

2. Invasive Plant Species to be Treated (score all that apply, additional species may be added)

| | | |
|---|-----------|----------|
| Phragmites australis | 2 pts. | 4 |
| Reed Canary Grass | 2 pts. | |
| Woody Species (Buckthorns, honeysuckles, rose, bittersweet, barberry, privet, etc - 2 pt ea) | 2 pts. ea | |
| Herbaceous Species (Japanese knotweed, garlic mustard, purple loosestrife, invasive cattail, etc - 2 pt ea) | 2 pts. ea | |
| Other _____ | 2 pts. | |

3. MDEQ Potential Wetland Restoration Maps (choose the one covering the largest area of the site)

| | | |
|--|--------|----------|
| High (mapped as historic wetland and hydric soils) | 3 pts. | 0 |
| Medium (mapped as hydric soils only) | 2 pts. | |
| Low (mapped as historic wetland only) | 1 pts. | |
| Not Mapped (may be existing wetland) | 1 pts. | |

4. Installation of Structures to Stabilize Stream Channels (score one)

| | | | |
|-------------------------------------|-------------|--------|----------|
| Linear Feet of Streambed Stabilized | 300+ ft. | 7 pts. | 0 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

5. Installation of Structures to Prevent/Stop Bank Erosion (score one)

| | | | |
|--------------------------------------|-------------|--------|----------|
| Linear Feet of Streambank Stabilized | 300+ ft. | 7 pts. | 0 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

6. Floodplain Reconnection (score one)

| | | | |
|------------------------------|-------------|--------|----------|
| Two-Stage Ditch Construction | 200+ ft. | 5 pts. | 0 |
| | 100-200 ft. | 3 pts. | |
| | 1-100 ft. | 1 pts. | |

7. Best Management Practices (score one)

| | | | |
|-------------------------------------|----------------|--------|----------|
| Acreage Treated using BMP Practices | 3.0+ acres | 7 pts. | 0 |
| | 1.0-3.0 acres | 5 pts. | |
| | 0.5-0.99 acres | 3 pts. | |
| | <0.5 acres | 1 pts. | |

8. Developed BMP Types (score all that apply)

| | | | |
|--|-------------------------------|------------------|----------|
| BMPs to be Implemented (long term maintenance will be required) | Retention/Sedimentation Basin | 4 pts. | 0 |
| | Detention/Sedimentation Basin | 2 pts. | |
| | Rain Garden/Bioswale | 2 pts. | |
| | Buffer Strip (10' min.) | 2 pts. | |
| | Tree Planting | 2 pts. | |
| | Other _____ | Pts. as assigned | |

9. Water Quality Treatment (score one)

| | | | |
|----------------------|--|--------|----------|
| Stormwater Treatment | Treat greater than first 1/2" OR more than 90% of storms | 6 pts. | 0 |
| | Treat first 1/2" of runoff OR runoff from 90% of storms | 3 pts. | |

10. Water Quantity Management (score one)

| | | | |
|---|--|--------|----------|
| Runoff Volume Management (for a 2yr, 24-hour storm) | Post-construction runoff volume = 0 (stormwater does not leave site) | 6 pts. | 0 |
| | Post-construction runoff volume < Pre-construction runoff volume | 4 pts. | |
| | Post-construction runoff volume = pre-construction runoff volume | 2 pts. | |

Metric 4: Public Funding Benefits

a. Education Opportunities (score one)

| | | |
|---|--------|----------|
| Will the site be used for future demonstration/education? | 3 pts. | 3 |
|---|--------|----------|

b. Funding Benefits (score one)

| | | | |
|--|--------|---------|----------|
| Matching dollars/resources from Grants, Landowner, donations, etc.(includes direct donation, property, labor, materials, etc.) | 100% | 12 pts. | 0 |
| | 50-99% | 9 pts. | |
| | 25-49% | 6 pts. | |
| | <25% | 3 pts. | |

| | |
|--------------------|-----------|
| TOTAL SCORE | 44 |
|--------------------|-----------|

Public Benefit Analysis

a. Public Benefits (Score One, or score two and average)

| | | | |
|--------------------------|--|--------|---|
| (A) Public Visibilty/Use | HIGH (existing maintained trails, parkland, heavy use) | 9 pts. | 9 |
| | MODERATE (open to the public, rustic trails, moderate use) | 5 pts. | |
| | LOW (not easily accessible and/or low user numbers) | 1 pts. | |

b. Costs

| | | | |
|-------------------------------------|--|----|-----------|
| | 1. Construction and Design | \$ | 50,000.00 |
| | 2. 5-year Operations and Maintenance Costs (O&M) | \$ | 25,000.00 |
| (B) Estimated Total Cost of Project | | \$ | 75,000.00 |

| | |
|------------------------|--------|
| Public Benefit Ranking | 120.00 |
|------------------------|--------|

| | | |
|--------------------------------------|-------------------------------------|-----------|
| Restoration/Enhancement Value | Total Score x Public Benefit | 53 |
|--------------------------------------|-------------------------------------|-----------|

City of Rochester Hills

Restoration Project Ranking

Restoration/Enhancement Value

50

Project Name: *Harding Pond Area Enhancement*

Project Location: *see Figure 3c*

Criteria

Value Score

Metric 1: Restoration Location and Type

a. Location (score all that apply)

| | | |
|---|--------|---|
| Greenspace Property | 9 pts. | 9 |
| Park Property | 7 pts. | |
| Clinton River | 5 pts. | |
| Property Adjacent to Green Space or Park Properties where restoration work would support projects on GS and Park Properties | 3 pts. | |
| Non-Green Space or Park Property (e.g., next to a river, along a public road, etc.) | 1 pts. | |

b. Restoration Type (score all that apply)

| | | |
|--------------------------|--------|----|
| Habitat Restoration | 7 pts. | 10 |
| Erosion/Sediment Control | 5 pts. | |
| Invasive Species Control | 3 pts. | |

Metric 2: Restoration Size and Timeline

a. Restoration Size (score one)

| | | |
|--------------------|---------|---|
| ≥ 10 acres | 10 pts. | 3 |
| 5 to <10 acres | 7 pts. | |
| 2 to <5 acres | 5 pts. | |
| 1 to <2 acres | 3 pts. | |
| 1/4 to <1 acres | 2 pts. | |
| less than 1/4 acre | 1 pts. | |

b. Ecological Restoration Type (score one)

| | | |
|---|---------|----|
| Restoration can be accomplished in 1 year | 10 pts. | 10 |
| Restoration can be accomplished in 1-3 years | 7 pts. | |
| Restoration can be accomplished within 3-10 years | 3 pts. | |
| Restoration may not be possible within 10 years | 1 pts. | |

Metric 3: Expected Benefits

Metric 3a: Restoration Benefits

1. Restoration Type (score all that apply)

| | | |
|--|--------|---|
| Wetland Restoration (expanding or creating new wetland) | 9 pts. | 5 |
| Wetland Enhancement (improving existing wetland) | 7 pts. | |
| Other Property (e.g., upland) Restoration Activities | 5 pts. | |
| BMP Enhancements (e.g., buffer strips, stormwater treatment, etc.) | 5 pts. | |

2. Increased Benefits (score all that apply)

| | | |
|--------------------------------|--------|---|
| Wildlife Habitat Improvements | 1 pts. | 1 |
| Fish Habitat Improvements | 1 pts. | |
| Floodwater Storage | 1 pts. | |
| Stormwater Storage | 1 pts. | |
| Improves Public Use/Visibility | 1 pts. | |

Metric 3b: Restoration Activities

1. Invasive Plant Treatment Area (score one)

| | | |
|--------------|--------|---|
| 20+ acre | 7 pts. | 3 |
| 5-20 acre | 5 pts. | |
| 1.0-4.9 acre | 3 pts. | |
| <1 acre | 1 pts. | |

2. Invasive Plant Species to be Treated (score all that apply, additional species may be added)

| | | |
|---|--------|----------|
| Phragmites australis | 2 pts. | 4 |
| Reed Canary Grass | 2 pts. | |
| Woody Species (Buckthorns, honeysuckles, rose, bittersweet, barberry, privet, etc - 2 pt ea) | 2 pts. | |
| Herbaceous Species (Japanese knotweed, garlic mustard, purple loosestrife, invasive cattail, etc - 2 pt ea) | 2 pts. | |
| Other _____ | 2 pts. | |

3. MDEQ Potential Wetland Restoration Maps (choose the one covering the largest area of the site)

| | | |
|--|--------|----------|
| High (mapped as historic wetland and hydric soils) | 3 pts. | 0 |
| Medium (mapped as hydric soils only) | 2 pts. | |
| Low (mapped as historic wetland only) | 1 pts. | |
| Not Mapped (may be existing wetland) | 1 pts. | |

4. Installation of Structures to Stabilize Stream Channels (score one)

| | | | |
|-------------------------------------|-------------|--------|----------|
| Linear Feet of Streambed Stabilized | 300+ ft. | 7 pts. | 0 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

5. Installation of Structures to Prevent/Stop Bank Erosion (score one)

| | | | |
|--------------------------------------|-------------|--------|----------|
| Linear Feet of Streambank Stabilized | 300+ ft. | 7 pts. | 0 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

6. Floodplain Reconnection (score one)

| | | | |
|------------------------------|-------------|--------|----------|
| Two-Stage Ditch Construction | 200+ ft. | 5 pts. | 0 |
| | 100-200 ft. | 3 pts. | |
| | 1-100 ft. | 1 pts. | |

7. Best Management Practices (score one)

| | | | |
|-------------------------------------|----------------|--------|----------|
| Acreage Treated using BMP Practices | 3.0+ acres | 7 pts. | 0 |
| | 1.0-3.0 acres | 5 pts. | |
| | 0.5-0.99 acres | 3 pts. | |
| | <0.5 acres | 1 pts. | |

8. Developed BMP Types (score all that apply)

| | | | |
|--|-------------------------------|------------------|----------|
| BMPs to be Implemented (long term maintenance will be required) | Retention/Sedimentation Basin | 4 pts. | 2 |
| | Detention/Sedimentation Basin | 2 pts. | |
| | Rain Garden/Bioswale | 2 pts. | |
| | Buffer Strip (10' min.) | 2 pts. | |
| | Tree Planting | 2 pts. | |
| | Other _____ | Pts. as assigned | |

9. Water Quality Treatment (score one)

| | | | |
|----------------------|--|--------|----------|
| Stormwater Treatment | Treat greater than first 1/2" OR more than 90% of storms | 6 pts. | 0 |
| | Treat first 1/2" of runoff OR runoff from 90% of storms | 3 pts. | |

10. Water Quantity Management (score one)

| | | | |
|---|--|--------|----------|
| Runoff Volume Management (for a 2yr, 24-hour storm) | Post-construction runoff volume = 0 (stormwater does not leave site) | 6 pts. | 0 |
| | Post-construction runoff volume < Pre-construction runoff volume | 4 pts. | |
| | Post-construction runoff volume = pre-construction runoff volume | 2 pts. | |

Metric 4: Public Funding Benefits

a. Education Opportunities (score one)

| | | |
|---|--------|----------|
| Will the site be used for future demonstration/education? | 3 pts. | 3 |
|---|--------|----------|

b. Funding Benefits (score one)

| | | | |
|--|--------|---------|----------|
| Matching dollars/resources from Grants, Landowner, donations, etc. (includes direct donation, property, labor, materials, etc.) | 100% | 12 pts. | 0 |
| | 50-99% | 9 pts. | |
| | 25-49% | 6 pts. | |
| | <25% | 3 pts. | |

| | |
|--------------------|-----------|
| TOTAL SCORE | 50 |
|--------------------|-----------|

Public Benefit Analysis

a. Public Benefits (Score one, or score two and average)

| | | | |
|--------------------------|--|--------|---|
| (A) Public Visibilty/Use | HIGH (existing maintained trails, parkland, heavy use) | 9 pts. | 9 |
| | MODERATE (open to the public, rustic trails, moderate use) | 5 pts. | |
| | LOW (not easily accessible and/or low user numbers) | 1 pts. | |

b. Costs

| | | | |
|-------------------------------------|--|----|-----------|
| | 1. Implementation Year 1 | \$ | 15,000.00 |
| | 2. 5-year Operations and Maintenance Costs (O&M) | \$ | 75,000.00 |
| (B) Estimated Total Cost of Project | | \$ | 90,000.00 |

| | |
|------------------------|--------|
| Public Benefit Ranking | 100.00 |
|------------------------|--------|

| | | |
|--------------------------------------|-------------------------------------|-----------|
| Restoration/Enhancement Value | Total Score x Public Benefit | 50 |
|--------------------------------------|-------------------------------------|-----------|

City of Rochester Hills

Restoration Project Ranking

Restoration/Enhancement Value

44

Project Name: *Harding Japanese Knotweed Control*

Project Location: *see Figure 3d*

Criteria

Value Score

Metric 1: Restoration Location and Type

a. Location (score all that apply)

| | | |
|---|--------|----------|
| Greenspace Property | 9 pts. | 9 |
| Park Property | 7 pts. | |
| Clinton River | 5 pts. | |
| Property Adjacent to Green Space or Park Properties where restoration work would support projects on GS and Park Properties | 3 pts. | |
| Non-Green Space or Park Property (e.g., next to a river, along a public road, etc.) | 1 pts. | |

b. Restoration Type (score all that apply)

| | | |
|--------------------------|--------|-----------|
| Habitat Restoration | 7 pts. | 10 |
| Erosion/Sediment Control | 5 pts. | |
| Invasive Species Control | 3 pts. | |

Metric 2: Restoration Size and Timeline

a. Restoration Size (score one)

| | | |
|--------------------|---------|----------|
| ≥ 10 acres | 10 pts. | 5 |
| 5 to <10 acres | 7 pts. | |
| 2 to <5 acres | 5 pts. | |
| 1 to <2 acres | 3 pts. | |
| 1/4 to <1 acres | 2 pts. | |
| less than 1/4 acre | 1 pts. | |

b. Ecological Restoration Type (score one)

| | | |
|---|---------|----------|
| Restoration can be accomplished in 1 year | 10 pts. | 3 |
| Restoration can be accomplished in 1-3 years | 7 pts. | |
| Restoration can be accomplished within 3-10 years | 3 pts. | |
| Restoration may not be possible within 10 years | 1 pts. | |

Metric 3: Expected Benefits

Metric 3a: Restoration Benefits

1. Restoration Type (score all that apply)

| | | |
|--|--------|----------|
| Wetland Restoration (expanding or creating new wetland) | 9 pts. | 5 |
| Wetland Enhancement (improving existing wetland) | 7 pts. | |
| Other Property (e.g., upland) Restoration Activities | 5 pts. | |
| BMP Enhancements (e.g., buffer strips, stormwater treatment, etc.) | 5 pts. | |

2. Increased Benefits (score all that apply)

| | | |
|--------------------------------|--------|----------|
| Wildlife Habitat Improvements | 1 pts. | 1 |
| Fish Habitat Improvements | 1 pts. | |
| Floodwater Storage | 1 pts. | |
| Stormwater Storage | 1 pts. | |
| Improves Public Use/Visibility | 1 pts. | |

Metric 3b: Restoration Activities

1. Invasive Plant Treatment Area (score one)

| | | |
|--------------|--------|----------|
| 20+ acre | 7 pts. | 3 |
| 5-20 acre | 5 pts. | |
| 1.0-4.9 acre | 3 pts. | |
| <1 acre | 1 pts. | |

2. Invasive Plant Species to be Treated (score all that apply, additional species may be added)

| | | |
|---|--------|----------|
| Phragmites australis | 2 pts. | 2 |
| Reed Canary Grass | 2 pts. | |
| Woody Species (Buckthorns, honeysuckles, rose, bittersweet, barberry, privet, etc - 2 pt ea) | 2 pts. | |
| Herbaceous Species (Japanese knotweed, garlic mustard, purple loosestrife, invasive cattail, etc - 2 pt ea) | 2 pts. | |
| Other _____ | 2 pts. | |

3. MDEQ Potential Wetland Restoration Maps (choose the one covering the largest area of the site)

| | | |
|--|--------|----------|
| High (mapped as historic wetland and hydric soils) | 3 pts. | 0 |
| Medium (mapped as hydric soils only) | 2 pts. | |
| Low (mapped as historic wetland only) | 1 pts. | |
| Not Mapped (may be existing wetland) | 1 pts. | |

4. Installation of Structures to Stabilize Stream Channels (score one)

| | | | |
|-------------------------------------|-------------|--------|----------|
| Linear Feet of Streambed Stabilized | 300+ ft. | 7 pts. | 0 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

5. Installation of Structures to Prevent/Stop Bank Erosion (score one)

| | | | |
|--------------------------------------|-------------|--------|----------|
| Linear Feet of Streambank Stabilized | 300+ ft. | 7 pts. | 0 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

6. Floodplain Reconnection (score one)

| | | | |
|------------------------------|-------------|--------|----------|
| Two-Stage Ditch Construction | 200+ ft. | 5 pts. | 0 |
| | 100-200 ft. | 3 pts. | |
| | 1-100 ft. | 1 pts. | |

7. Best Management Practices (score one)

| | | | |
|-------------------------------------|----------------|--------|----------|
| Acreage Treated using BMP Practices | 3.0+ acres | 7 pts. | 0 |
| | 1.0-3.0 acres | 5 pts. | |
| | 0.5-0.99 acres | 3 pts. | |
| | <0.5 acres | 1 pts. | |

8. Developed BMP Types (score all that apply)

| | | | |
|--|-------------------------------|------------------|----------|
| BMPs to be Implemented (long term maintenance will be required) | Retention/Sedimentation Basin | 4 pts. | 0 |
| | Detention/Sedimentation Basin | 2 pts. | |
| | Rain Garden/Bioswale | 2 pts. | |
| | Buffer Strip (10' min.) | 2 pts. | |
| | Tree Planting | 2 pts. | |
| | Other _____ | Pts. as assigned | |

9. Water Quality Treatment (score one)

| | | | |
|----------------------|--|--------|----------|
| Stormwater Treatment | Treat greater than first 1/2" OR more than 90% of storms | 6 pts. | 0 |
| | Treat first 1/2" of runoff OR runoff from 90% of storms | 3 pts. | |

10. Water Quantity Management (score one)

| | | | |
|---|--|--------|----------|
| Runoff Volume Management (for a 2yr, 24-hour storm) | Post-construction runoff volume = 0 (stormwater does not leave site) | 6 pts. | 0 |
| | Post-construction runoff volume < Pre-construction runoff volume | 4 pts. | |
| | Post-construction runoff volume = pre-construction runoff volume | 2 pts. | |

Metric 4: Public Funding Benefits

a. Education Opportunities (score one)

| | | |
|---|--------|----------|
| Will the site be used for future demonstration/education? | 3 pts. | 0 |
|---|--------|----------|

b. Funding Benefits (score one)

| | | | |
|--|--------|---------|----------|
| Matching dollars/resources from Grants, Landowner, donations, etc. (includes direct donation, property, labor, materials, etc.) | 100% | 12 pts. | 0 |
| | 50-99% | 9 pts. | |
| | 25-49% | 6 pts. | |
| | <25% | 3 pts. | |

| | |
|--------------------|-----------|
| TOTAL SCORE | 38 |
|--------------------|-----------|

Public Benefit Analysis

a. Public Benefits (Score one, or score two and average)

| | | | |
|--------------------------|--|--------|---|
| (A) Public Visibilty/Use | HIGH (existing maintained trails, parkland, heavy use) | 9 pts. | 7 |
| | MODERATE (open to the public, rustic trails, moderate use) | 5 pts. | |
| | LOW (not easily accessible and/or low user numbers) | 1 pts. | |

b. Costs

| | | |
|-------------------------------------|--|--------------|
| | 1. First Year Implementation | \$ 10,000.00 |
| | 2. 5-year Operations and Maintenance Costs (O&M) | \$ 50,000.00 |
| (B) Estimated Total Cost of Project | | \$ 60,000.00 |

| | |
|------------------------|--------|
| Public Benefit Ranking | 116.67 |
|------------------------|--------|

| | | |
|--------------------------------------|-------------------------------------|-----------|
| Restoration/Enhancement Value | Total Score x Public Benefit | 44 |
|--------------------------------------|-------------------------------------|-----------|

City of Rochester Hills

Restoration Project Ranking

Restoration/Enhancement Value

28

Project Name: *Harding Garlic Mustard Control*

Project Location: *see Figure 3e*

Criteria

Value Score

Metric 1: Restoration Location and Type

a. Location (score all that apply)

| | | |
|---|--------|----------|
| Greenspace Property | 9 pts. | 9 |
| Park Property | 7 pts. | |
| Clinton River | 5 pts. | |
| Property Adjacent to Green Space or Park Properties where restoration work would support projects on GS and Park Properties | 3 pts. | |
| Non-Green Space or Park Property (e.g., next to a river, along a public road, etc.) | 1 pts. | |

b. Restoration Type (score all that apply)

| | | |
|--------------------------|--------|----------|
| Habitat Restoration | 7 pts. | 3 |
| Erosion/Sediment Control | 5 pts. | |
| Invasive Species Control | 3 pts. | |

Metric 2: Restoration Size and Timeline

a. Restoration Size (score one)

| | | |
|--------------------|---------|----------|
| ≥ 10 acres | 10 pts. | 5 |
| 5 to <10 acres | 7 pts. | |
| 2 to <5 acres | 5 pts. | |
| 1 to <2 acres | 3 pts. | |
| 1/4 to <1 acres | 2 pts. | |
| less than 1/4 acre | 1 pts. | |

b. Ecological Restoration Type (score one)

| | | |
|---|---------|----------|
| Restoration can be accomplished in 1 year | 10 pts. | 3 |
| Restoration can be accomplished in 1-3 years | 7 pts. | |
| Restoration can be accomplished within 3-10 years | 3 pts. | |
| Restoration may not be possible within 10 years | 1 pts. | |

Metric 3: Expected Benefits

Metric 3a: Restoration Benefits

1. Restoration Type (score all that apply)

| | | |
|--|--------|----------|
| Wetland Restoration (expanding or creating new wetland) | 9 pts. | 5 |
| Wetland Enhancement (improving existing wetland) | 7 pts. | |
| Other Property (e.g., upland) Restoration Activities | 5 pts. | |
| BMP Enhancements (e.g., buffer strips, stormwater treatment, etc.) | 5 pts. | |

2. Increased Benefits (score all that apply)

| | | |
|--------------------------------|--------|----------|
| Wildlife Habitat Improvements | 1 pts. | 1 |
| Fish Habitat Improvements | 1 pts. | |
| Floodwater Storage | 1 pts. | |
| Stormwater Storage | 1 pts. | |
| Improves Public Use/Visibility | 1 pts. | |

Metric 3b: Restoration Activities

1. Invasive Plant Treatment Area (score one)

| | | |
|--------------|--------|----------|
| 20+ acre | 7 pts. | 5 |
| 5-20 acre | 5 pts. | |
| 1.0-4.9 acre | 3 pts. | |
| <1 acre | 1 pts. | |

2. Invasive Plant Species to be Treated (score all that apply, additional species may be added)

| | | |
|---|--------|----------|
| Phragmites australis | 2 pts. | 2 |
| Reed Canary Grass | 2 pts. | |
| Woody Species (Buckthorns, honeysuckles, rose, bittersweet, barberry, privet, etc - 2 pt ea) | 2 pts. | |
| Herbaceous Species (Japanese knotweed, garlic mustard, purple loosestrife, invasive cattail, etc - 2 pt ea) | 2 pts. | |
| Other | 2 pts. | |

3. MDEQ Potential Wetland Restoration Maps (choose the one covering the largest area of the site)

| | | |
|--|--------|----------|
| High (mapped as historic wetland and hydric soils) | 3 pts. | 0 |
| Medium (mapped as hydric soils only) | 2 pts. | |
| Low (mapped as historic wetland only) | 1 pts. | |
| Not Mapped (may be existing wetland) | 1 pts. | |

4. Installation of Structures to Stabilize Stream Channels (score one)

| | | | |
|-------------------------------------|-------------|--------|----------|
| Linear Feet of Streambed Stabilized | 300+ ft. | 7 pts. | 0 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

5. Installation of Structures to Prevent/Stop Bank Erosion (score one)

| | | | |
|--------------------------------------|-------------|--------|----------|
| Linear Feet of Streambank Stabilized | 300+ ft. | 7 pts. | 0 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

6. Floodplain Reconnection (score one)

| | | | |
|------------------------------|-------------|--------|----------|
| Two-Stage Ditch Construction | 200+ ft. | 5 pts. | 0 |
| | 100-200 ft. | 3 pts. | |
| | 1-100 ft. | 1 pts. | |

7. Best Management Practices (score one)

| | | | |
|-------------------------------------|----------------|--------|----------|
| Acreage Treated using BMP Practices | 3.0+ acres | 7 pts. | 0 |
| | 1.0-3.0 acres | 5 pts. | |
| | 0.5-0.99 acres | 3 pts. | |
| | <0.5 acres | 1 pts. | |

8. Developed BMP Types (score all that apply)

| | | | |
|--|-------------------------------|------------------|----------|
| BMPs to be Implemented (long term maintenance will be required) | Retention/Sedimentation Basin | 4 pts. | 0 |
| | Detention/Sedimentation Basin | 2 pts. | |
| | Rain Garden/Bioswale | 2 pts. | |
| | Buffer Strip (10' min.) | 2 pts. | |
| | Tree Planting | 2 pts. | |
| | Other _____ | Pts. as assigned | |

9. Water Quality Treatment (score one)

| | | | |
|----------------------|--|--------|----------|
| Stormwater Treatment | Treat greater than first 1/2" OR more than 90% of storms | 6 pts. | 0 |
| | Treat first 1/2" of runoff OR runoff from 90% of storms | 3 pts. | |

10. Water Quantity Management (score one)

| | | | |
|---|--|--------|----------|
| Runoff Volume Management (for a 2yr, 24-hour storm) | Post-construction runoff volume = 0 (stormwater does not leave site) | 6 pts. | 0 |
| | Post-construction runoff volume < Pre-construction runoff volume | 4 pts. | |
| | Post-construction runoff volume = pre-construction runoff volume | 2 pts. | |

Metric 4: Public Funding Benefits

a. Education Opportunities (score one)

| | | |
|---|--------|----------|
| Will the site be used for future demonstration/education? | 3 pts. | 0 |
|---|--------|----------|

b. Funding Benefits (score one)

| | | | |
|--|--------|---------|----------|
| Matching dollars/resources from Grants, Landowner, donations, etc. (includes direct donation, property, labor, materials, etc.) | 100% | 12 pts. | 3 |
| | 50-99% | 9 pts. | |
| | 25-49% | 6 pts. | |
| | <25% | 3 pts. | |

| | |
|--------------------|-----------|
| TOTAL SCORE | 36 |
|--------------------|-----------|

Public Benefit Analysis

a. Public Benefits (Score one, or score two and average)

| | | | |
|--------------------------|--|--------|---|
| (A) Public Visibilty/Use | HIGH (existing maintained trails, parkland, heavy use) | 9 pts. | 7 |
| | MODERATE (open to the public, rustic trails, moderate use) | 5 pts. | |
| | LOW (not easily accessible and/or low user numbers) | 1 pts. | |

b. Costs

| | | | |
|-------------------------------------|--|----|-----------|
| | 1. Implementation Year 1 | \$ | 15,000.00 |
| | 2. 5-year Operations and Maintenance Costs (O&M) | \$ | 75,000.00 |
| (B) Estimated Total Cost of Project | | \$ | 90,000.00 |

| | |
|------------------------|-------|
| Public Benefit Ranking | 77.78 |
|------------------------|-------|

| | | |
|--------------------------------------|-------------------------------------|-----------|
| Restoration/Enhancement Value | Total Score x Public Benefit | 28 |
|--------------------------------------|-------------------------------------|-----------|

City of Rochester Hills

Restoration Project Ranking

Restoration/Enhancement Value

27

Project Name: *Harding Woody Species Control*

Project Location: *see Figure 3*

Criteria

Value Score

Metric 1: Restoration Location and Type

a. Location (score all that apply)

| | | |
|---|--------|---|
| Greenspace Property | 9 pts. | 9 |
| Park Property | 7 pts. | |
| Clinton River | 5 pts. | |
| Property Adjacent to Green Space or Park Properties where restoration work would support projects on GS and Park Properties | 3 pts. | |
| Non-Green Space or Park Property (e.g., next to a river, along a public road, etc.) | 1 pts. | |

b. Restoration Type (score all that apply)

| | | |
|--------------------------|--------|----|
| Habitat Restoration | 7 pts. | 10 |
| Erosion/Sediment Control | 5 pts. | |
| Invasive Species Control | 3 pts. | |

Metric 2: Restoration Size and Timeline

a. Restoration Size (score one)

| | | |
|--------------------|---------|----|
| ≥ 10 acres | 10 pts. | 10 |
| 5 to <10 acres | 7 pts. | |
| 2 to <5 acres | 5 pts. | |
| 1 to <2 acres | 3 pts. | |
| 1/4 to <1 acres | 2 pts. | |
| less than 1/4 acre | 1 pts. | |

b. Ecological Restoration Type (score one)

| | | |
|---|---------|---|
| Restoration can be accomplished in 1 year | 10 pts. | 1 |
| Restoration can be accomplished in 1-3 years | 7 pts. | |
| Restoration can be accomplished within 3-10 years | 3 pts. | |
| Restoration may not be possible within 10 years | 1 pts. | |

Metric 3: Expected Benefits

Metric 3a: Restoration Benefits

1. Restoration Type (score all that apply)

| | | |
|--|--------|---|
| Wetland Restoration (expanding or creating new wetland) | 9 pts. | 5 |
| Wetland Enhancement (improving existing wetland) | 7 pts. | |
| Other Property (e.g., upland) Restoration Activities | 5 pts. | |
| BMP Enhancements (e.g., buffer strips, stormwater treatment, etc.) | 5 pts. | |

2. Increased Benefits (score all that apply)

| | | |
|--------------------------------|--------|---|
| Wildlife Habitat Improvements | 1 pts. | 2 |
| Fish Habitat Improvements | 1 pts. | |
| Floodwater Storage | 1 pts. | |
| Stormwater Storage | 1 pts. | |
| Improves Public Use/Visibility | 1 pts. | |

Metric 3b: Restoration Activities

1. Invasive Plant Treatment Area (score one)

| | | |
|--------------|--------|---|
| 20+ acre | 7 pts. | 5 |
| 5-20 acre | 5 pts. | |
| 1.0-4.9 acre | 3 pts. | |
| <1 acre | 1 pts. | |

2. Invasive Plant Species to be Treated (score all that apply, additional species may be added)

| | | |
|---|--------|----------|
| Phragmites australis | 2 pts. | 6 |
| Reed Canary Grass | 2 pts. | |
| Woody Species (Buckthorns, honeysuckles, rose, bittersweet, barberry, privet, etc - 2 pt ea) | 2 pts. | |
| Herbaceous Species (Japanese knotweed, garlic mustard, purple loosestrife, invasive cattail, etc - 2 pt ea) | 2 pts. | |
| Other _____ | 2 pts. | |

3. MDEQ Potential Wetland Restoration Maps (choose the one covering the largest area of the site)

| | | |
|--|--------|----------|
| High (mapped as historic wetland and hydric soils) | 3 pts. | 0 |
| Medium (mapped as hydric soils only) | 2 pts. | |
| Low (mapped as historic wetland only) | 1 pts. | |
| Not Mapped (may be existing wetland) | 1 pts. | |

4. Installation of Structures to Stabilize Stream Channels (score one)

| | | | |
|-------------------------------------|-------------|--------|----------|
| Linear Feet of Streambed Stabilized | 300+ ft. | 7 pts. | 0 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

5. Installation of Structures to Prevent/Stop Bank Erosion (score one)

| | | | |
|--------------------------------------|-------------|--------|----------|
| Linear Feet of Streambank Stabilized | 300+ ft. | 7 pts. | 0 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

6. Floodplain Reconnection (score one)

| | | | |
|------------------------------|-------------|--------|----------|
| Two-Stage Ditch Construction | 200+ ft. | 5 pts. | 0 |
| | 100-200 ft. | 3 pts. | |
| | 1-100 ft. | 1 pts. | |

7. Best Management Practices (score one)

| | | | |
|-------------------------------------|----------------|--------|----------|
| Acreage Treated using BMP Practices | 3.0+ acres | 7 pts. | 0 |
| | 1.0-3.0 acres | 5 pts. | |
| | 0.5-0.99 acres | 3 pts. | |
| | <0.5 acres | 1 pts. | |

8. Developed BMP Types (score all that apply)

| | | | |
|--|-------------------------------|------------------|----------|
| BMPs to be Implemented (long term maintenance will be required) | Retention/Sedimentation Basin | 4 pts. | 0 |
| | Detention/Sedimentation Basin | 2 pts. | |
| | Rain Garden/Bioswale | 2 pts. | |
| | Buffer Strip (10' min.) | 2 pts. | |
| | Tree Planting | 2 pts. | |
| | Other _____ | Pts. as assigned | |

9. Water Quality Treatment (score one)

| | | | |
|----------------------|--|--------|----------|
| Stormwater Treatment | Treat greater than first 1/2" OR more than 90% of storms | 6 pts. | 0 |
| | Treat first 1/2" of runoff OR runoff from 90% of storms | 3 pts. | |

10. Water Quantity Management (score one)

| | | | |
|---|--|--------|----------|
| Runoff Volume Management (for a 2yr, 24-hour storm) | Post-construction runoff volume = 0 (stormwater does not leave site) | 6 pts. | 0 |
| | Post-construction runoff volume < Pre-construction runoff volume | 4 pts. | |
| | Post-construction runoff volume = pre-construction runoff volume | 2 pts. | |

Metric 4: Public Funding Benefits

a. Education Opportunities (score one)

| | | |
|---|--------|----------|
| Will the site be used for future demonstration/education? | 3 pts. | 0 |
|---|--------|----------|

b. Funding Benefits (score one)

| | | | |
|--|--------|---------|----------|
| Matching dollars/resources from Grants, Landowner, donations, etc. | 100% | 12 pts. | 0 |
| (includes direct donation, property, labor, materials, etc.) | 50-99% | 9 pts. | |
| | 25-49% | 6 pts. | |
| | <25% | 3 pts. | |

| | |
|--------------------|-----------|
| TOTAL SCORE | 48 |
|--------------------|-----------|

Public Benefit Analysis

a. Public Benefits (Score one, or score two and average)

| | | | |
|--------------------------|--|--------|---|
| (A) Public Visibilty/Use | HIGH (existing maintained trails, parkland, heavy use) | 9 pts. | 7 |
| | MODERATE (open to the public, rustic trails, moderate use) | 5 pts. | |
| | LOW (not easily accessible and/or low user numbers) | 1 pts. | |

b. Costs

| | | | |
|-------------------------------------|---|----|------------|
| | 1. Implementation Year 1 | \$ | 25,000.00 |
| | 2. 10-year Operations and Maintenance Costs (O&M) | \$ | 100,000.00 |
| (B) Estimated Total Cost of Project | | \$ | 125,000.00 |

| | |
|------------------------|-------|
| Public Benefit Ranking | 56.00 |
|------------------------|-------|

| | | |
|--------------------------------------|-------------------------------------|-----------|
| Restoration/Enhancement Value | Total Score x Public Benefit | 27 |
|--------------------------------------|-------------------------------------|-----------|

City of Rochester Hills

Restoration Project Ranking

Restoration/Enhancement Value

65

Project Name: White Fen and Tamarack Swamp Enhancement

Project Location: see Figure 4a

Criteria

Value Score

Metric 1: Restoration Location and Type

a. Location (score all that apply)

| | | |
|---|--------|---|
| Greenspace Property | 9 pts. | 9 |
| Park Property | 7 pts. | |
| Clinton River | 5 pts. | |
| Property Adjacent to Green Space or Park Properties where restoration work would support projects on GS and Park Properties | 3 pts. | |
| Non-Green Space or Park Property (e.g., next to a river, along a public road, etc.) | 1 pts. | |

b. Restoration Type (score all that apply)

| | | |
|--------------------------|--------|----|
| Habitat Restoration | 7 pts. | 10 |
| Erosion/Sediment Control | 5 pts. | |
| Invasive Species Control | 3 pts. | |

Metric 2: Restoration Size and Timeline

a. Restoration Size (score one)

| | | |
|--------------------|---------|---|
| ≥ 10 acres | 10 pts. | 5 |
| 5 to <10 acres | 7 pts. | |
| 2 to <5 acres | 5 pts. | |
| 1 to <2 acres | 3 pts. | |
| 1/4 to <1 acres | 2 pts. | |
| less than 1/4 acre | 1 pts. | |

b. Ecological Restoration Type (score one)

| | | |
|---|---------|---|
| Restoration can be accomplished in 1 year | 10 pts. | 3 |
| Restoration can be accomplished in 1-3 years | 7 pts. | |
| Restoration can be accomplished within 3-10 years | 3 pts. | |
| Restoration may not be possible within 10 years | 1 pts. | |

Metric 3: Expected Benefits

Metric 3a: Restoration Benefits

1. Restoration Type (score all that apply)

| | | |
|--|--------|---|
| Wetland Restoration (expanding or creating new wetland) | 9 pts. | 7 |
| Wetland Enhancement (improving existing wetland) | 7 pts. | |
| Other Property (e.g., upland) Restoration Activities | 5 pts. | |
| BMP Enhancements (e.g., buffer strips, stormwater treatment, etc.) | 5 pts. | |

2. Increased Benefits (score all that apply)

| | | |
|--------------------------------|--------|---|
| Wildlife Habitat Improvements | 1 pts. | 2 |
| Fish Habitat Improvements | 1 pts. | |
| Floodwater Storage | 1 pts. | |
| Stormwater Storage | 1 pts. | |
| Improves Public Use/Visibility | 1 pts. | |

Metric 3b: Restoration Activities

1. Invasive Plant Treatment Area (score one)

| | | |
|--------------|--------|---|
| 20+ acre | 7 pts. | 3 |
| 5-20 acre | 5 pts. | |
| 1.0-4.9 acre | 3 pts. | |
| <1 acre | 1 pts. | |

2. Invasive Plant Species to be Treated (score all that apply, additional species may be added)

| | | |
|---|--------|----------|
| Phragmites australis | 2 pts. | 8 |
| Reed Canary Grass | 2 pts. | |
| Woody Species (Buckthorns, honeysuckles, rose, bittersweet, barberry, privet, etc - 2 pt ea) | 2 pts. | |
| Herbaceous Species (Japanese knotweed, garlic mustard, purple loosestrife, invasive cattail, etc - 2 pt ea) | 2 pts. | |
| Other _____ | 2 pts. | |

3. MDEQ Potential Wetland Restoration Maps (choose the one covering the largest area of the site)

| | | |
|--|--------|----------|
| High (mapped as historic wetland and hydric soils) | 3 pts. | 3 |
| Medium (mapped as hydric soils only) | 2 pts. | |
| Low (mapped as historic wetland only) | 1 pts. | |
| Not Mapped (may be existing wetland) | 1 pts. | |

4. Installation of Structures to Stabilize Stream Channels (score one)

| | | | |
|-------------------------------------|-------------|--------|----------|
| Linear Feet of Streambed Stabilized | 300+ ft. | 7 pts. | 0 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

5. Installation of Structures to Prevent/Stop Bank Erosion (score one)

| | | | |
|--------------------------------------|-------------|--------|----------|
| Linear Feet of Streambank Stabilized | 300+ ft. | 7 pts. | 0 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

6. Floodplain Reconnection (score one)

| | | | |
|------------------------------|-------------|--------|----------|
| Two-Stage Ditch Construction | 200+ ft. | 5 pts. | 0 |
| | 100-200 ft. | 3 pts. | |
| | 1-100 ft. | 1 pts. | |

7. Best Management Practices (score one)

| | | | |
|-------------------------------------|----------------|--------|----------|
| Acreage Treated using BMP Practices | 3.0+ acres | 7 pts. | 0 |
| | 1.0-3.0 acres | 5 pts. | |
| | 0.5-0.99 acres | 3 pts. | |
| | <0.5 acres | 1 pts. | |

8. Developed BMP Types (score all that apply)

| | | | |
|--|-------------------------------|------------------|----------|
| BMPs to be Implemented (long term maintenance will be required) | Retention/Sedimentation Basin | 4 pts. | 0 |
| | Detention/Sedimentation Basin | 2 pts. | |
| | Rain Garden/Bioswale | 2 pts. | |
| | Buffer Strip (10' min.) | 2 pts. | |
| | Tree Planting | 2 pts. | |
| | Other _____ | Pts. as assigned | |

9. Water Quality Treatment (score one)

| | | | |
|----------------------|--|--------|----------|
| Stormwater Treatment | Treat greater than first 1/2" OR more than 90% of storms | 6 pts. | 0 |
| | Treat first 1/2" of runoff OR runoff from 90% of storms | 3 pts. | |

10. Water Quantity Management (score one)

| | | | |
|---|--|--------|----------|
| Runoff Volume Management (for a 2yr, 24-hour storm) | Post-construction runoff volume = 0 (stormwater does not leave site) | 6 pts. | 0 |
| | Post-construction runoff volume < Pre-construction runoff volume | 4 pts. | |
| | Post-construction runoff volume = pre-construction runoff volume | 2 pts. | |

Metric 4: Public Funding Benefits

a. Education Opportunities (score one)

| | | |
|---|--------|----------|
| Will the site be used for future demonstration/education? | 3 pts. | 3 |
|---|--------|----------|

b. Funding Benefits (score one)

| | | | |
|--|--------|---------|----------|
| Matching dollars/resources from Grants, Landowner, donations, etc. (includes direct donation, property, labor, materials, etc.) | 100% | 12 pts. | 3 |
| | 50-99% | 9 pts. | |
| | 25-49% | 6 pts. | |
| | <25% | 3 pts. | |

| | |
|--------------------|-----------|
| TOTAL SCORE | 56 |
|--------------------|-----------|

Public Benefit Analysis

a. Public Benefits (Score one, or score two and average)

| | | | |
|--------------------------|--|--------|---|
| (A) Public Visibilty/Use | HIGH (existing maintained trails, parkland, heavy use) | 9 pts. | 7 |
| | MODERATE (open to the public, rustic trails, moderate use) | 5 pts. | |
| | LOW (not easily accessible and/or low user numbers) | 1 pts. | |

b. Costs

| | | | |
|-------------------------------------|--|----|-----------|
| | 1. Implementation Year 1 | \$ | 10,000.00 |
| | 2. 5-year Operations and Maintenance Costs (O&M) | \$ | 50,000.00 |
| (B) Estimated Total Cost of Project | | \$ | 60,000.00 |

| | |
|------------------------|--------|
| Public Benefit Ranking | 116.67 |
|------------------------|--------|

| | | |
|--------------------------------------|-------------------------------------|-----------|
| Restoration/Enhancement Value | Total Score x Public Benefit | 65 |
|--------------------------------------|-------------------------------------|-----------|

City of Rochester Hills

Restoration Project Ranking

Restoration/Enhancement Value

43

Project Name: White Forested Wetland Enhancement

Project Location: see Figure 4b

Criteria

Value Score

Metric 1: Restoration Location and Type

a. Location (score all that apply)

| | | |
|---|--------|----------|
| Greenspace Property | 9 pts. | 9 |
| Park Property | 7 pts. | |
| Clinton River | 5 pts. | |
| Property Adjacent to Green Space or Park Properties where restoration work would support projects on GS and Park Properties | 3 pts. | |
| Non-Green Space or Park Property (e.g., next to a river, along a public road, etc.) | 1 pts. | |

b. Restoration Type (score all that apply)

| | | |
|--------------------------|--------|-----------|
| Habitat Restoration | 7 pts. | 10 |
| Erosion/Sediment Control | 5 pts. | |
| Invasive Species Control | 3 pts. | |

Metric 2: Restoration Size and Timeline

a. Restoration Size (score one)

| | | |
|--------------------|---------|----------|
| ≥ 10 acres | 10 pts. | 7 |
| 5 to <10 acres | 7 pts. | |
| 2 to <5 acres | 5 pts. | |
| 1 to <2 acres | 3 pts. | |
| 1/4 to <1 acres | 2 pts. | |
| less than 1/4 acre | 1 pts. | |

b. Ecological Restoration Type (score one)

| | | |
|---|---------|----------|
| Restoration can be accomplished in 1 year | 10 pts. | 3 |
| Restoration can be accomplished in 1-3 years | 7 pts. | |
| Restoration can be accomplished within 3-10 years | 3 pts. | |
| Restoration may not be possible within 10 years | 1 pts. | |

Metric 3: Expected Benefits

Metric 3a: Restoration Benefits

1. Restoration Type (score all that apply)

| | | |
|--|--------|----------|
| Wetland Restoration (expanding or creating new wetland) | 9 pts. | 7 |
| Wetland Enhancement (improving existing wetland) | 7 pts. | |
| Other Property (e.g., upland) Restoration Activities | 5 pts. | |
| BMP Enhancements (e.g., buffer strips, stormwater treatment, etc.) | 5 pts. | |

2. Increased Benefits (score all that apply)

| | | |
|--------------------------------|--------|----------|
| Wildlife Habitat Improvements | 1 pts. | 2 |
| Fish Habitat Improvements | 1 pts. | |
| Floodwater Storage | 1 pts. | |
| Stormwater Storage | 1 pts. | |
| Improves Public Use/Visibility | 1 pts. | |

Metric 3b: Restoration Activities

1. Invasive Plant Treatment Area (score one)

| | | |
|--------------|--------|----------|
| 20+ acre | 7 pts. | 5 |
| 5-20 acre | 5 pts. | |
| 1.0-4.9 acre | 3 pts. | |
| <1 acre | 1 pts. | |

2. Invasive Plant Species to be Treated (score all that apply, additional species may be added)

| | | |
|---|--------|---|
| Phragmites australis | 2 pts. | 6 |
| Reed Canary Grass | 2 pts. | |
| Woody Species (Buckthorns, honeysuckles, rose, bittersweet, barberry, privet, etc - 2 pt ea) | 2 pts. | |
| Herbaceous Species (Japanese knotweed, garlic mustard, purple loosestrife, invasive cattail, etc - 2 pt ea) | 2 pts. | |
| Other _____ | 2 pts. | |

3. MDEQ Potential Wetland Restoration Maps (choose the one covering the largest area of the site)

| | | |
|--|--------|---|
| High (mapped as historic wetland and hydric soils) | 3 pts. | 0 |
| Medium (mapped as hydric soils only) | 2 pts. | |
| Low (mapped as historic wetland only) | 1 pts. | |
| Not Mapped (may be existing wetland) | 1 pts. | |

4. Installation of Structures to Stabilize Stream Channels (score one)

| | | | |
|-------------------------------------|-------------|--------|---|
| Linear Feet of Streambed Stabilized | 300+ ft. | 7 pts. | 0 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

5. Installation of Structures to Prevent/Stop Bank Erosion (score one)

| | | | |
|--------------------------------------|-------------|--------|---|
| Linear Feet of Streambank Stabilized | 300+ ft. | 7 pts. | 0 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

6. Floodplain Reconnection (score one)

| | | | |
|------------------------------|-------------|--------|---|
| Two-Stage Ditch Construction | 200+ ft. | 5 pts. | 0 |
| | 100-200 ft. | 3 pts. | |
| | 1-100 ft. | 1 pts. | |

7. Best Management Practices (score one)

| | | | |
|-------------------------------------|----------------|--------|---|
| Acreage Treated using BMP Practices | 3.0+ acres | 7 pts. | 0 |
| | 1.0-3.0 acres | 5 pts. | |
| | 0.5-0.99 acres | 3 pts. | |
| | <0.5 acres | 1 pts. | |

8. Developed BMP Types (score all that apply)

| | | | |
|--|-------------------------------|------------------|---|
| BMPs to be Implemented (long term maintenance will be required) | Retention/Sedimentation Basin | 4 pts. | 0 |
| | Detention/Sedimentation Basin | 2 pts. | |
| | Rain Garden/Bioswale | 2 pts. | |
| | Buffer Strip (10' min.) | 2 pts. | |
| | Tree Planting | 2 pts. | |
| | Other _____ | Pts. as assigned | |

9. Water Quality Treatment (score one)

| | | | |
|----------------------|--|--------|---|
| Stormwater Treatment | Treat greater than first 1/2" OR more than 90% of storms | 6 pts. | 0 |
| | Treat first 1/2" of runoff OR runoff from 90% of storms | 3 pts. | |

10. Water Quantity Management (score one)

| | | | |
|---|--|--------|---|
| Runoff Volume Management (for a 2yr, 24-hour storm) | Post-construction runoff volume = 0 (stormwater does not leave site) | 6 pts. | 0 |
| | Post-construction runoff volume < Pre-construction runoff volume | 4 pts. | |
| | Post-construction runoff volume = pre-construction runoff volume | 2 pts. | |

Metric 4: Public Funding Benefits

a. Education Opportunities (score one)

| | | |
|---|--------|---|
| Will the site be used for future demonstration/education? | 3 pts. | 0 |
|---|--------|---|

b. Funding Benefits (score one)

| | | | |
|--|--------|---------|---|
| Matching dollars/resources from Grants, Landowner, donations, etc. | 100% | 12 pts. | 3 |
| (includes direct donation, property, labor, materials, etc.) | 50-99% | 9 pts. | |
| | 25-49% | 6 pts. | |
| | <25% | 3 pts. | |

| | |
|--------------------|-----------|
| TOTAL SCORE | 52 |
|--------------------|-----------|

Public Benefit Analysis

a. Public Benefits (Score one, or score two and average)

| | | | |
|--------------------------|--|--------|---|
| (A) Public Visibilty/Use | HIGH (existing maintained trails, parkland, heavy use) | 9 pts. | 7 |
| | MODERATE (open to the public, rustic trails, moderate use) | 5 pts. | |
| | LOW (not easily accessible and/or low user numbers) | 1 pts. | |

b. Costs

| | | | |
|-------------------------------------|---|----|-----------|
| | 1. Implementation Year 1 | \$ | 10,000.00 |
| | 2. 10-year Operations and Maintenance Costs (O&M) | \$ | 75,000.00 |
| (B) Estimated Total Cost of Project | | \$ | 85,000.00 |

| | |
|------------------------|-------|
| Public Benefit Ranking | 82.35 |
|------------------------|-------|

| | | |
|--------------------------------------|-------------------------------------|-----------|
| Restoration/Enhancement Value | Total Score x Public Benefit | 43 |
|--------------------------------------|-------------------------------------|-----------|

City of Rochester Hills

Restoration Project Ranking

Restoration/Enhancement Value

42

Project Name: White Swallow Wort Control

Project Location: see Figure 4c

Criteria

Value Score

Metric 1: Restoration Location and Type

a. Location (score all that apply)

| | | |
|---|--------|---|
| Greenspace Property | 9 pts. | 9 |
| Park Property | 7 pts. | |
| Clinton River | 5 pts. | |
| Property Adjacent to Green Space or Park Properties where restoration work would support projects on GS and Park Properties | 3 pts. | |
| Non-Green Space or Park Property (e.g., next to a river, along a public road, etc.) | 1 pts. | |

b. Restoration Type (score all that apply)

| | | |
|--------------------------|--------|---|
| Habitat Restoration | 7 pts. | 3 |
| Erosion/Sediment Control | 5 pts. | |
| Invasive Species Control | 3 pts. | |

Metric 2: Restoration Size and Timeline

a. Restoration Size (score one)

| | | |
|--------------------|---------|---|
| ≥ 10 acres | 10 pts. | 1 |
| 5 to <10 acres | 7 pts. | |
| 2 to <5 acres | 5 pts. | |
| 1 to <2 acres | 3 pts. | |
| 1/4 to <1 acres | 2 pts. | |
| less than 1/4 acre | 1 pts. | |

b. Ecological Restoration Type (score one)

| | | |
|---|---------|---|
| Restoration can be accomplished in 1 year | 10 pts. | 3 |
| Restoration can be accomplished in 1-3 years | 7 pts. | |
| Restoration can be accomplished within 3-10 years | 3 pts. | |
| Restoration may not be possible within 10 years | 1 pts. | |

Metric 3: Expected Benefits

Metric 3a: Restoration Benefits

1. Restoration Type (score all that apply)

| | | |
|--|--------|---|
| Wetland Restoration (expanding or creating new wetland) | 9 pts. | 5 |
| Wetland Enhancement (improving existing wetland) | 7 pts. | |
| Other Property (e.g., upland) Restoration Activities | 5 pts. | |
| BMP Enhancements (e.g., buffer strips, stormwater treatment, etc.) | 5 pts. | |

2. Increased Benefits (score all that apply)

| | | |
|--------------------------------|--------|---|
| Wildlife Habitat Improvements | 1 pts. | 1 |
| Fish Habitat Improvements | 1 pts. | |
| Floodwater Storage | 1 pts. | |
| Stormwater Storage | 1 pts. | |
| Improves Public Use/Visibility | 1 pts. | |

Metric 3b: Restoration Activities

1. Invasive Plant Treatment Area (score one)

| | | |
|--------------|--------|---|
| 20+ acre | 7 pts. | 1 |
| 5-20 acre | 5 pts. | |
| 1.0-4.9 acre | 3 pts. | |
| <1 acre | 1 pts. | |

2. Invasive Plant Species to be Treated (score all that apply, additional species may be added)

| | | |
|---|--------|----------|
| Phragmites australis | 2 pts. | 2 |
| Reed Canary Grass | 2 pts. | |
| Woody Species (Buckthorns, honeysuckles, rose, bittersweet, barberry, privet, etc - 2 pt ea) | 2 pts. | |
| Herbaceous Species (Japanese knotweed, garlic mustard, purple loosestrife, invasive cattail, etc - 2 pt ea) | 2 pts. | |
| Other: <u>swallowwort</u> | 2 pts. | |

3. MDEQ Potential Wetland Restoration Maps (choose the one covering the largest area of the site)

| | | |
|--|--------|----------|
| High (mapped as historic wetland and hydric soils) | 3 pts. | 0 |
| Medium (mapped as hydric soils only) | 2 pts. | |
| Low (mapped as historic wetland only) | 1 pts. | |
| Not Mapped (may be existing wetland) | 1 pts. | |

4. Installation of Structures to Stabilize Stream Channels (score one)

| | | | |
|-------------------------------------|-------------|--------|----------|
| Linear Feet of Streambed Stabilized | 300+ ft. | 7 pts. | 0 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

5. Installation of Structures to Prevent/Stop Bank Erosion (score one)

| | | | |
|--------------------------------------|-------------|--------|----------|
| Linear Feet of Streambank Stabilized | 300+ ft. | 7 pts. | 0 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

6. Floodplain Reconnection (score one)

| | | | |
|------------------------------|-------------|--------|----------|
| Two-Stage Ditch Construction | 200+ ft. | 5 pts. | 0 |
| | 100-200 ft. | 3 pts. | |
| | 1-100 ft. | 1 pts. | |

7. Best Management Practices (score one)

| | | | |
|-------------------------------------|----------------|--------|----------|
| Acreage Treated using BMP Practices | 3.0+ acres | 7 pts. | 0 |
| | 1.0-3.0 acres | 5 pts. | |
| | 0.5-0.99 acres | 3 pts. | |
| | <0.5 acres | 1 pts. | |

8. Developed BMP Types (score all that apply)

| | | | |
|--|-------------------------------|------------------|----------|
| BMPs to be Implemented (long term maintenance will be required) | Retention/Sedimentation Basin | 4 pts. | 0 |
| | Detention/Sedimentation Basin | 2 pts. | |
| | Rain Garden/Bioswale | 2 pts. | |
| | Buffer Strip (10' min.) | 2 pts. | |
| | Tree Planting | 2 pts. | |
| | Other _____ | Pts. as assigned | |

9. Water Quality Treatment (score one)

| | | | |
|----------------------|--|--------|----------|
| Stormwater Treatment | Treat greater than first 1/2" OR more than 90% of storms | 6 pts. | 0 |
| | Treat first 1/2" of runoff OR runoff from 90% of storms | 3 pts. | |

10. Water Quantity Management (score one)

| | | | |
|---|--|--------|----------|
| Runoff Volume Management (for a 2yr, 24-hour storm) | Post-construction runoff volume = 0 (stormwater does not leave site) | 6 pts. | 0 |
| | Post-construction runoff volume < Pre-construction runoff volume | 4 pts. | |
| | Post-construction runoff volume = pre-construction runoff volume | 2 pts. | |

Metric 4: Public Funding Benefits

a. Education Opportunities (score one)

| | | |
|---|--------|----------|
| Will the site be used for future demonstration/education? | 3 pts. | 0 |
|---|--------|----------|

b. Funding Benefits (score one)

| | | | |
|--|--------|---------|----------|
| Matching dollars/resources from Grants, Landowner, donations, etc. (includes direct donation, property, labor, materials, etc.) | 100% | 12 pts. | 0 |
| | 50-99% | 9 pts. | |
| | 25-49% | 6 pts. | |
| | <25% | 3 pts. | |

| | |
|--------------------|-----------|
| TOTAL SCORE | 25 |
|--------------------|-----------|

Public Benefit Analysis

a. Public Benefits (Score one, or score two and average)

| | | | |
|--------------------------|--|--------|---|
| (A) Public Visibilty/Use | HIGH (existing maintained trails, parkland, heavy use) | 9 pts. | 5 |
| | MODERATE (open to the public, rustic trails, moderate use) | 5 pts. | |
| | LOW (not easily accessible and/or low user numbers) | 1 pts. | |

b. Costs

| | | | |
|-------------------------------------|--|----|-----------|
| | 1. Implementation Year 1 | \$ | 5,000.00 |
| | 2. 5-year Operations and Maintenance Costs (O&M) | \$ | 25,000.00 |
| (B) Estimated Total Cost of Project | | \$ | 30,000.00 |

| | |
|------------------------|--------|
| Public Benefit Ranking | 166.67 |
|------------------------|--------|

| | | |
|--------------------------------------|-------------------------------------|-----------|
| Restoration/Enhancement Value | Total Score x Public Benefit | 42 |
|--------------------------------------|-------------------------------------|-----------|

City of Rochester Hills

Restoration Project Ranking

Restoration/Enhancement Value

30

Project Name: *White Parcel Barberrry Control*

Project Location: *see Figure 4d*

Criteria

Value Score

Metric 1: Restoration Location and Type

a. Location (score all that apply)

| | | |
|---|--------|----------|
| Greenspace Property | 9 pts. | 9 |
| Park Property | 7 pts. | |
| Clinton River | 5 pts. | |
| Property Adjacent to Green Space or Park Properties where restoration work would support projects on GS and Park Properties | 3 pts. | |
| Non-Green Space or Park Property (e.g., next to a river, along a public road, etc.) | 1 pts. | |

b. Restoration Type (score all that apply)

| | | |
|--------------------------|--------|-----------|
| Habitat Restoration | 7 pts. | 10 |
| Erosion/Sediment Control | 5 pts. | |
| Invasive Species Control | 3 pts. | |

Metric 2: Restoration Size and Timeline

a. Restoration Size (score one)

| | | |
|--------------------|---------|----------|
| ≥ 10 acres | 10 pts. | 5 |
| 5 to <10 acres | 7 pts. | |
| 2 to <5 acres | 5 pts. | |
| 1 to <2 acres | 3 pts. | |
| 1/4 to <1 acres | 2 pts. | |
| less than 1/4 acre | 1 pts. | |

b. Ecological Restoration Type (score one)

| | | |
|---|---------|----------|
| Restoration can be accomplished in 1 year | 10 pts. | 1 |
| Restoration can be accomplished in 1-3 years | 7 pts. | |
| Restoration can be accomplished within 3-10 years | 3 pts. | |
| Restoration may not be possible within 10 years | 1 pts. | |

Metric 3: Expected Benefits

Metric 3a: Restoration Benefits

1. Restoration Type (score all that apply)

| | | |
|--|--------|----------|
| Wetland Restoration (expanding or creating new wetland) | 9 pts. | 5 |
| Wetland Enhancement (improving existing wetland) | 7 pts. | |
| Other Property (e.g., upland) Restoration Activities | 5 pts. | |
| BMP Enhancements (e.g., buffer strips, stormwater treatment, etc.) | 5 pts. | |

2. Increased Benefits (score all that apply)

| | | |
|--------------------------------|--------|----------|
| Wildlife Habitat Improvements | 1 pts. | 2 |
| Fish Habitat Improvements | 1 pts. | |
| Floodwater Storage | 1 pts. | |
| Stormwater Storage | 1 pts. | |
| Improves Public Use/Visibility | 1 pts. | |

Metric 3b: Restoration Activities

1. Invasive Plant Treatment Area (score one)

| | | |
|--------------|--------|----------|
| 20+ acre | 7 pts. | 3 |
| 5-20 acre | 5 pts. | |
| 1.0-4.9 acre | 3 pts. | |
| <1 acre | 1 pts. | |

2. Invasive Plant Species to be Treated (score all that apply, additional species may be added)

| | | |
|---|--------|----------|
| Phragmites australis | 2 pts. | 2 |
| Reed Canary Grass | 2 pts. | |
| Woody Species (Buckthorns, honeysuckles, rose, bittersweet, barberry, privet, etc - 2 pt ea) | 2 pts. | |
| Herbaceous Species (Japanese knotweed, garlic mustard, purple loosestrife, invasive cattail, etc - 2 pt ea) | 2 pts. | |
| Other: _____ | 2 pts. | |

3. MDEQ Potential Wetland Restoration Maps (choose the one covering the largest area of the site)

| | | |
|--|--------|----------|
| High (mapped as historic wetland and hydric soils) | 3 pts. | 0 |
| Medium (mapped as hydric soils only) | 2 pts. | |
| Low (mapped as historic wetland only) | 1 pts. | |
| Not Mapped (may be existing wetland) | 1 pts. | |

4. Installation of Structures to Stabilize Stream Channels (score one)

| | | | |
|-------------------------------------|-------------|--------|----------|
| Linear Feet of Streambed Stabilized | 300+ ft. | 7 pts. | 0 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

5. Installation of Structures to Prevent/Stop Bank Erosion (score one)

| | | | |
|--------------------------------------|-------------|--------|----------|
| Linear Feet of Streambank Stabilized | 300+ ft. | 7 pts. | 0 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

6. Floodplain Reconnection (score one)

| | | | |
|------------------------------|-------------|--------|----------|
| Two-Stage Ditch Construction | 200+ ft. | 5 pts. | 0 |
| | 100-200 ft. | 3 pts. | |
| | 1-100 ft. | 1 pts. | |

7. Best Management Practices (score one)

| | | | |
|-------------------------------------|----------------|--------|----------|
| Acreage Treated using BMP Practices | 3.0+ acres | 7 pts. | 0 |
| | 1.0-3.0 acres | 5 pts. | |
| | 0.5-0.99 acres | 3 pts. | |
| | <0.5 acres | 1 pts. | |

8. Developed BMP Types (score all that apply)

| | | | |
|--|-------------------------------|------------------|----------|
| BMPs to be Implemented (long term maintenance will be required) | Retention/Sedimentation Basin | 4 pts. | 0 |
| | Detention/Sedimentation Basin | 2 pts. | |
| | Rain Garden/Bioswale | 2 pts. | |
| | Buffer Strip (10' min.) | 2 pts. | |
| | Tree Planting | 2 pts. | |
| | Other _____ | Pts. as assigned | |

9. Water Quality Treatment (score one)

| | | | |
|----------------------|--|--------|----------|
| Stormwater Treatment | Treat greater than first 1/2" OR more than 90% of storms | 6 pts. | 0 |
| | Treat first 1/2" of runoff OR runoff from 90% of storms | 3 pts. | |

10. Water Quantity Management (score one)

| | | | |
|---|--|--------|----------|
| Runoff Volume Management (for a 2yr, 24-hour storm) | Post-construction runoff volume = 0 (stormwater does not leave site) | 6 pts. | 0 |
| | Post-construction runoff volume < Pre-construction runoff volume | 4 pts. | |
| | Post-construction runoff volume = pre-construction runoff volume | 2 pts. | |

Metric 4: Public Funding Benefits

a. Education Opportunities (score one)

| | | |
|---|--------|----------|
| Will the site be used for future demonstration/education? | 3 pts. | 0 |
|---|--------|----------|

b. Funding Benefits (score one)

| | | | |
|--|--------|---------|----------|
| Matching dollars/resources from Grants, Landowner, donations, etc. (includes direct donation, property, labor, materials, etc.) | 100% | 12 pts. | 0 |
| | 50-99% | 9 pts. | |
| | 25-49% | 6 pts. | |
| | <25% | 3 pts. | |

| | |
|--------------------|-----------|
| TOTAL SCORE | 37 |
|--------------------|-----------|

Public Benefit Analysis

a. Public Benefits (Score one, or score two and average)

| | | | |
|--------------------------|--|--------|---|
| (A) Public Visibilty/Use | HIGH (existing maintained trails, parkland, heavy use) | 9 pts. | 7 |
| | MODERATE (open to the public, rustic trails, moderate use) | 5 pts. | |
| | LOW (not easily accessible and/or low user numbers) | 1 pts. | |

b. Costs

| | | | |
|-------------------------------------|---|----|-----------|
| | 1. Implementation Year 1 | \$ | 10,000.00 |
| | 2. 10-year Operations and Maintenance Costs (O&M) | \$ | 75,000.00 |
| (B) Estimated Total Cost of Project | | \$ | 85,000.00 |

| | |
|------------------------|-------|
| Public Benefit Ranking | 82.35 |
|------------------------|-------|

| | | |
|--------------------------------------|-------------------------------------|-----------|
| Restoration/Enhancement Value | Total Score x Public Benefit | 30 |
|--------------------------------------|-------------------------------------|-----------|

City of Rochester Hills

Restoration Project Ranking

Restoration/Enhancement Value

26

Project Name: *White Scrub-Shrub Wetland Enhancement*

Project Location: *see Figure 4e*

Criteria

Value Score

Metric 1: Restoration Location and Type

a. Location (score all that apply)

| | | |
|---|--------|----------|
| Greenspace Property | 9 pts. | 9 |
| Park Property | 7 pts. | |
| Clinton River | 5 pts. | |
| Property Adjacent to Green Space or Park Properties where restoration work would support projects on GS and Park Properties | 3 pts. | |
| Non-Green Space or Park Property (e.g., next to a river, along a public road, etc.) | 1 pts. | |

b. Restoration Type (score all that apply)

| | | |
|--------------------------|--------|----------|
| Habitat Restoration | 7 pts. | 3 |
| Erosion/Sediment Control | 5 pts. | |
| Invasive Species Control | 3 pts. | |

Metric 2: Restoration Size and Timeline

a. Restoration Size (score one)

| | | |
|--------------------|---------|----------|
| ≥ 10 acres | 10 pts. | 5 |
| 5 to <10 acres | 7 pts. | |
| 2 to <5 acres | 5 pts. | |
| 1 to <2 acres | 3 pts. | |
| 1/4 to <1 acres | 2 pts. | |
| less than 1/4 acre | 1 pts. | |

b. Ecological Restoration Type (score one)

| | | |
|---|---------|----------|
| Restoration can be accomplished in 1 year | 10 pts. | 3 |
| Restoration can be accomplished in 1-3 years | 7 pts. | |
| Restoration can be accomplished within 3-10 years | 3 pts. | |
| Restoration may not be possible within 10 years | 1 pts. | |

Metric 3: Expected Benefits

Metric 3a: Restoration Benefits

1. Restoration Type (score all that apply)

| | | |
|--|--------|----------|
| Wetland Restoration (expanding or creating new wetland) | 9 pts. | 7 |
| Wetland Enhancement (improving existing wetland) | 7 pts. | |
| Other Property (e.g., upland) Restoration Activities | 5 pts. | |
| BMP Enhancements (e.g., buffer strips, stormwater treatment, etc.) | 5 pts. | |

2. Increased Benefits (score all that apply)

| | | |
|--------------------------------|--------|----------|
| Wildlife Habitat Improvements | 1 pts. | 2 |
| Fish Habitat Improvements | 1 pts. | |
| Floodwater Storage | 1 pts. | |
| Stormwater Storage | 1 pts. | |
| Improves Public Use/Visibility | 1 pts. | |

Metric 3b: Restoration Activities

1. Invasive Plant Treatment Area (score one)

| | | |
|--------------|--------|----------|
| 20+ acre | 7 pts. | 5 |
| 5-20 acre | 5 pts. | |
| 1.0-4.9 acre | 3 pts. | |
| <1 acre | 1 pts. | |

2. Invasive Plant Species to be Treated (score all that apply, additional species may be added)

| | | |
|---|--------|---|
| Phragmites australis | 2 pts. | 4 |
| Reed Canary Grass | 2 pts. | |
| Woody Species (Buckthorns, honeysuckles, rose, bittersweet, barberry, privet, etc - 2 pt ea) | 2 pts. | |
| Herbaceous Species (Japanese knotweed, garlic mustard, purple loosestrife, invasive cattail, etc - 2 pt ea) | 2 pts. | |
| Other: _____ | 2 pts. | |

3. MDEQ Potential Wetland Restoration Maps (choose the one covering the largest area of the site)

| | | |
|--|--------|---|
| High (mapped as historic wetland and hydric soils) | 3 pts. | 0 |
| Medium (mapped as hydric soils only) | 2 pts. | |
| Low (mapped as historic wetland only) | 1 pts. | |
| Not Mapped (may be existing wetland) | 1 pts. | |

4. Installation of Structures to Stabilize Stream Channels (score one)

| | | | |
|-------------------------------------|-------------|--------|---|
| Linear Feet of Streambed Stabilized | 300+ ft. | 7 pts. | 0 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

5. Installation of Structures to Prevent/Stop Bank Erosion (score one)

| | | | |
|--------------------------------------|-------------|--------|---|
| Linear Feet of Streambank Stabilized | 300+ ft. | 7 pts. | 0 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

6. Floodplain Reconnection (score one)

| | | | |
|------------------------------|-------------|--------|---|
| Two-Stage Ditch Construction | 200+ ft. | 5 pts. | 0 |
| | 100-200 ft. | 3 pts. | |
| | 1-100 ft. | 1 pts. | |

7. Best Management Practices (score one)

| | | | |
|-------------------------------------|----------------|--------|---|
| Acreage Treated using BMP Practices | 3.0+ acres | 7 pts. | 0 |
| | 1.0-3.0 acres | 5 pts. | |
| | 0.5-0.99 acres | 3 pts. | |
| | <0.5 acres | 1 pts. | |

8. Developed BMP Types (score all that apply)

| | | | |
|--|-------------------------------|------------------|---|
| BMPs to be Implemented (long term maintenance will be required) | Retention/Sedimentation Basin | 4 pts. | 0 |
| | Detention/Sedimentation Basin | 2 pts. | |
| | Rain Garden/Bioswale | 2 pts. | |
| | Buffer Strip (10' min.) | 2 pts. | |
| | Tree Planting | 2 pts. | |
| | Other _____ | Pts. as assigned | |

9. Water Quality Treatment (score one)

| | | | |
|----------------------|--|--------|---|
| Stormwater Treatment | Treat greater than first 1/2" OR more than 90% of storms | 6 pts. | 0 |
| | Treat first 1/2" of runoff OR runoff from 90% of storms | 3 pts. | |

10. Water Quantity Management (score one)

| | | | |
|---|--|--------|---|
| Runoff Volume Management (for a 2yr, 24-hour storm) | Post-construction runoff volume = 0 (stormwater does not leave site) | 6 pts. | 0 |
| | Post-construction runoff volume < Pre-construction runoff volume | 4 pts. | |
| | Post-construction runoff volume = pre-construction runoff volume | 2 pts. | |

Metric 4: Public Funding Benefits

a. Education Opportunities (score one)

| | | |
|---|--------|---|
| Will the site be used for future demonstration/education? | 3 pts. | 0 |
|---|--------|---|

b. Funding Benefits (score one)

| | | | |
|--|--------|---------|---|
| Matching dollars/resources from Grants, Landowner, donations, etc. | 100% | 12 pts. | 3 |
| (includes direct donation, property, labor, materials, etc.) | 50-99% | 9 pts. | |
| | 25-49% | 6 pts. | |
| | <25% | 3 pts. | |

| | |
|--------------------|-----------|
| TOTAL SCORE | 41 |
|--------------------|-----------|

Public Benefit Analysis

a. Public Benefits (Score one, or score two and average)

| | | | |
|--------------------------|--|--------|---|
| (A) Public Visibilty/Use | HIGH (existing maintained trails, parkland, heavy use) | 9 pts. | 7 |
| | MODERATE (open to the public, rustic trails, moderate use) | 5 pts. | |
| | LOW (not easily accessible and/or low user numbers) | 1 pts. | |

b. Costs

| | | | |
|-------------------------------------|---|----|------------|
| | 1. Implementation Year 1 | \$ | 10,000.00 |
| | 2. 10-year Operations and Maintenance Costs (O&M) | \$ | 100,000.00 |
| (B) Estimated Total Cost of Project | | \$ | 110,000.00 |

| | |
|------------------------|-------|
| Public Benefit Ranking | 63.64 |
|------------------------|-------|

| | | |
|--------------------------------------|-------------------------------------|-----------|
| Restoration/Enhancement Value | Total Score x Public Benefit | 26 |
|--------------------------------------|-------------------------------------|-----------|

City of Rochester Hills

Restoration Project Ranking

Restoration/Enhancement Value

25

Project Name: White Woody Species Control

Project Location: see Figure 4

Criteria

Value Score

Metric 1: Restoration Location and Type

a. Location (score all that apply)

| | | |
|---|--------|---|
| Greenspace Property | 9 pts. | 9 |
| Park Property | 7 pts. | |
| Clinton River | 5 pts. | |
| Property Adjacent to Green Space or Park Properties where restoration work would support projects on GS and Park Properties | 3 pts. | |
| Non-Green Space or Park Property (e.g., next to a river, along a public road, etc.) | 1 pts. | |

b. Restoration Type (score all that apply)

| | | |
|--------------------------|--------|---|
| Habitat Restoration | 7 pts. | 3 |
| Erosion/Sediment Control | 5 pts. | |
| Invasive Species Control | 3 pts. | |

Metric 2: Restoration Size and Timeline

a. Restoration Size (score one)

| | | |
|--------------------|---------|---|
| ≥ 10 acres | 10 pts. | 7 |
| 5 to <10 acres | 7 pts. | |
| 2 to <5 acres | 5 pts. | |
| 1 to <2 acres | 3 pts. | |
| 1/4 to <1 acres | 2 pts. | |
| less than 1/4 acre | 1 pts. | |

b. Ecological Restoration Type (score one)

| | | |
|---|---------|---|
| Restoration can be accomplished in 1 year | 10 pts. | 1 |
| Restoration can be accomplished in 1-3 years | 7 pts. | |
| Restoration can be accomplished within 3-10 years | 3 pts. | |
| Restoration may not be possible within 10 years | 1 pts. | |

Metric 3: Expected Benefits

Metric 3a: Restoration Benefits

1. Restoration Type (score all that apply)

| | | |
|--|--------|----|
| Wetland Restoration (expanding or creating new wetland) | 9 pts. | 12 |
| Wetland Enhancement (improving existing wetland) | 7 pts. | |
| Other Property (e.g., upland) Restoration Activities | 5 pts. | |
| BMP Enhancements (e.g., buffer strips, stormwater treatment, etc.) | 5 pts. | |

2. Increased Benefits (score all that apply)

| | | |
|--------------------------------|--------|---|
| Wildlife Habitat Improvements | 1 pts. | 2 |
| Fish Habitat Improvements | 1 pts. | |
| Floodwater Storage | 1 pts. | |
| Stormwater Storage | 1 pts. | |
| Improves Public Use/Visibility | 1 pts. | |

Metric 3b: Restoration Activities

1. Invasive Plant Treatment Area (score one)

| | | |
|--------------|--------|---|
| 20+ acre | 7 pts. | 5 |
| 5-20 acre | 5 pts. | |
| 1.0-4.9 acre | 3 pts. | |
| <1 acre | 1 pts. | |

2. Invasive Plant Species to be Treated (score all that apply, additional species may be added)

| | | |
|---|--------|----------|
| Phragmites australis | 2 pts. | 6 |
| Reed Canary Grass | 2 pts. | |
| Woody Species (Buckthorns, honeysuckles, rose, bittersweet, barberry, privet, etc - 2 pt ea) | 2 pts. | |
| Herbaceous Species (Japanese knotweed, garlic mustard, purple loosestrife, invasive cattail, etc - 2 pt ea) | 2 pts. | |
| Other: _____ | 2 pts. | |

3. MDEQ Potential Wetland Restoration Maps (choose the one covering the largest area of the site)

| | | |
|--|--------|----------|
| High (mapped as historic wetland and hydric soils) | 3 pts. | 0 |
| Medium (mapped as hydric soils only) | 2 pts. | |
| Low (mapped as historic wetland only) | 1 pts. | |
| Not Mapped (may be existing wetland) | 1 pts. | |

4. Installation of Structures to Stabilize Stream Channels (score one)

| | | | |
|-------------------------------------|-------------|--------|----------|
| Linear Feet of Streambed Stabilized | 300+ ft. | 7 pts. | 0 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

5. Installation of Structures to Prevent/Stop Bank Erosion (score one)

| | | | |
|--------------------------------------|-------------|--------|----------|
| Linear Feet of Streambank Stabilized | 300+ ft. | 7 pts. | 0 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

6. Floodplain Reconnection (score one)

| | | | |
|------------------------------|-------------|--------|----------|
| Two-Stage Ditch Construction | 200+ ft. | 5 pts. | 0 |
| | 100-200 ft. | 3 pts. | |
| | 1-100 ft. | 1 pts. | |

7. Best Management Practices (score one)

| | | | |
|-------------------------------------|----------------|--------|----------|
| Acreage Treated using BMP Practices | 3.0+ acres | 7 pts. | 0 |
| | 1.0-3.0 acres | 5 pts. | |
| | 0.5-0.99 acres | 3 pts. | |
| | <0.5 acres | 1 pts. | |

8. Developed BMP Types (score all that apply)

| | | | |
|--|-------------------------------|------------------|----------|
| BMPs to be Implemented (long term maintenance will be required) | Retention/Sedimentation Basin | 4 pts. | 0 |
| | Detention/Sedimentation Basin | 2 pts. | |
| | Rain Garden/Bioswale | 2 pts. | |
| | Buffer Strip (10' min.) | 2 pts. | |
| | Tree Planting | 2 pts. | |
| | Other _____ | Pts. as assigned | |

9. Water Quality Treatment (score one)

| | | | |
|----------------------|--|--------|----------|
| Stormwater Treatment | Treat greater than first 1/2" OR more than 90% of storms | 6 pts. | 0 |
| | Treat first 1/2" of runoff OR runoff from 90% of storms | 3 pts. | |

10. Water Quantity Management (score one)

| | | | |
|---|--|--------|----------|
| Runoff Volume Management (for a 2yr, 24-hour storm) | Post-construction runoff volume = 0 (stormwater does not leave site) | 6 pts. | 0 |
| | Post-construction runoff volume < Pre-construction runoff volume | 4 pts. | |
| | Post-construction runoff volume = pre-construction runoff volume | 2 pts. | |

Metric 4: Public Funding Benefits

a. Education Opportunities (score one)

| | | |
|---|--------|----------|
| Will the site be used for future demonstration/education? | 3 pts. | 0 |
|---|--------|----------|

b. Funding Benefits (score one)

| | | | |
|--|--------|---------|----------|
| Matching dollars/resources from Grants, Landowner, donations, etc. (includes direct donation, property, labor, materials, etc.) | 100% | 12 pts. | 0 |
| | 50-99% | 9 pts. | |
| | 25-49% | 6 pts. | |
| | <25% | 3 pts. | |

| | |
|--------------------|-----------|
| TOTAL SCORE | 45 |
|--------------------|-----------|

Public Benefit Analysis

a. Public Benefits (Score one, or score two and average)

| | | | |
|--------------------------|--|--------|---|
| (A) Public Visibilty/Use | HIGH (existing maintained trails, parkland, heavy use) | 9 pts. | 7 |
| | MODERATE (open to the public, rustic trails, moderate use) | 5 pts. | |
| | LOW (not easily accessible and/or low user numbers) | 1 pts. | |

b. Costs

| | | |
|-------------------------------------|---|---------------|
| | 1. Implementation Year 1 | \$ 25,000.00 |
| | 2. 10-year Operations and Maintenance Costs (O&M) | \$ 100,000.00 |
| (B) Estimated Total Cost of Project | | \$ 125,000.00 |

| | |
|------------------------|-------|
| Public Benefit Ranking | 56.00 |
|------------------------|-------|

| | | |
|--------------------------------------|-------------------------------------|-----------|
| Restoration/Enhancement Value | Total Score x Public Benefit | 25 |
|--------------------------------------|-------------------------------------|-----------|

City of Rochester Hills

Restoration Project Ranking

Restoration/Enhancement Value

46

Project Name: *Cloverport Sediment Control*

Project Location: *see Figure 5a*

Criteria

Value Score

Metric 1: Restoration Location and Type

a. Location (score all that apply)

| | | |
|---|--------|-----------|
| Greenspace Property | 9 pts. | 17 |
| Park Property | 7 pts. | |
| Clinton River | 5 pts. | |
| Property Adjacent to Green Space or Park Properties where restoration work would support projects on GS and Park Properties | 3 pts. | |
| Non-Green Space or Park Property (e.g., next to a river, along a public road, etc.) | 1 pts. | |

b. Restoration Type (score all that apply)

| | | |
|--------------------------|--------|-----------|
| Habitat Restoration | 7 pts. | 12 |
| Erosion/Sediment Control | 5 pts. | |
| Invasive Species Control | 3 pts. | |

Metric 2: Restoration Size and Timeline

a. Restoration Size (score one)

| | | |
|--------------------|---------|----------|
| ≥ 10 acres | 10 pts. | 5 |
| 5 to <10 acres | 7 pts. | |
| 2 to <5 acres | 5 pts. | |
| 1 to <2 acres | 3 pts. | |
| 1/4 to <1 acres | 2 pts. | |
| less than 1/4 acre | 1 pts. | |

b. Ecological Restoration Type (score one)

| | | |
|---|---------|-----------|
| Restoration can be accomplished in 1 year | 10 pts. | 10 |
| Restoration can be accomplished in 1-3 years | 7 pts. | |
| Restoration can be accomplished within 3-10 years | 3 pts. | |
| Restoration may not be possible within 10 years | 1 pts. | |

Metric 3: Expected Benefits

Metric 3a: Restoration Benefits

1. Restoration Type (score all that apply)

| | | |
|--|--------|-----------|
| Wetland Restoration (expanding or creating new wetland) | 9 pts. | 12 |
| Wetland Enhancement (improving existing wetland) | 7 pts. | |
| Other Property (e.g., upland) Restoration Activities | 5 pts. | |
| BMP Enhancements (e.g., buffer strips, stormwater treatment, etc.) | 5 pts. | |

2. Increased Benefits (score all that apply)

| | | |
|--------------------------------|--------|----------|
| Wildlife Habitat Improvements | 1 pts. | 2 |
| Fish Habitat Improvements | 1 pts. | |
| Floodwater Storage | 1 pts. | |
| Stormwater Storage | 1 pts. | |
| Improves Public Use/Visibility | 1 pts. | |

Metric 3b: Restoration Activities

1. Invasive Plant Treatment Area (score one)

| | | |
|--------------|--------|----------|
| 20+ acre | 7 pts. | 0 |
| 5-20 acre | 5 pts. | |
| 1.0-4.9 acre | 3 pts. | |
| <1 acre | 1 pts. | |

2. Invasive Plant Species to be Treated (score all that apply, additional species may be added)

| | | |
|---|--------|----------|
| Phragmites australis | 2 pts. | 0 |
| Reed Canary Grass | 2 pts. | |
| Woody Species (Buckthorns, honeysuckles, rose, bittersweet, barberry, privet, etc - 2 pt ea) | 2 pts. | |
| Herbaceous Species (Japanese knotweed, garlic mustard, purple loosestrife, invasive cattail, etc - 2 pt ea) | 2 pts. | |
| Other: _____ | 2 pts. | |

3. MDEQ Potential Wetland Restoration Maps (choose the one covering the largest area of the site)

| | | |
|--|--------|----------|
| High (mapped as historic wetland and hydric soils) | 3 pts. | 0 |
| Medium (mapped as hydric soils only) | 2 pts. | |
| Low (mapped as historic wetland only) | 1 pts. | |
| Not Mapped (may be existing wetland) | 1 pts. | |

4. Installation of Structures to Stabilize Stream Channels (score one)

| | | | |
|-------------------------------------|-------------|--------|----------|
| Linear Feet of Streambed Stabilized | 300+ ft. | 7 pts. | 3 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

5. Installation of Structures to Prevent/Stop Bank Erosion (score one)

| | | | |
|--------------------------------------|-------------|--------|----------|
| Linear Feet of Streambank Stabilized | 300+ ft. | 7 pts. | 7 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

6. Floodplain Reconnection (score one)

| | | | |
|------------------------------|-------------|--------|----------|
| Two-Stage Ditch Construction | 200+ ft. | 5 pts. | 0 |
| | 100-200 ft. | 3 pts. | |
| | 1-100 ft. | 1 pts. | |

7. Best Management Practices (score one)

| | | | |
|-------------------------------------|----------------|--------|----------|
| Acreage Treated using BMP Practices | 3.0+ acres | 7 pts. | 5 |
| | 1.0-3.0 acres | 5 pts. | |
| | 0.5-0.99 acres | 3 pts. | |
| | <0.5 acres | 1 pts. | |

8. Developed BMP Types (score all that apply)

| | | | |
|--|-------------------------------|------------------|----------|
| BMPs to be Implemented (long term maintenance will be required) | Retention/Sedimentation Basin | 4 pts. | 6 |
| | Detention/Sedimentation Basin | 2 pts. | |
| | Rain Garden/Bioswale | 2 pts. | |
| | Buffer Strip (10' min.) | 2 pts. | |
| | Tree Planting | 2 pts. | |
| | Other Bank Stabilization | Pts. as assigned | |

9. Water Quality Treatment (score one)

| | | | |
|----------------------|--|--------|----------|
| Stormwater Treatment | Treat greater than first 1/2" OR more than 90% of storms | 6 pts. | 0 |
| | Treat first 1/2" of runoff OR runoff from 90% of storms | 3 pts. | |

10. Water Quantity Management (score one)

| | | | |
|---|--|--------|----------|
| Runoff Volume Management (for a 2yr, 24-hour storm) | Post-construction runoff volume = 0 (stormwater does not leave site) | 6 pts. | 6 |
| | Post-construction runoff volume < Pre-construction runoff volume | 4 pts. | |
| | Post-construction runoff volume = pre-construction runoff volume | 2 pts. | |

Metric 4: Public Funding Benefits

a. Education Opportunities (score one)

| | | |
|---|--------|----------|
| Will the site be used for future demonstration/education? | 3 pts. | 0 |
|---|--------|----------|

b. Funding Benefits (score one)

| | | | |
|--|--------|---------|----------|
| Matching dollars/resources from Grants, Landowner, donations, etc. | 100% | 12 pts. | 9 |
| (includes direct donation, property, labor, materials, etc.) | 50-99% | 9 pts. | |
| | 25-49% | 6 pts. | |
| | <25% | 3 pts. | |

| | |
|--------------------|-----------|
| TOTAL SCORE | 94 |
|--------------------|-----------|

Public Benefit Analysis

a. Public Benefits (Score one, or score two and average)

| | | | |
|--------------------------|--|--------|---|
| (A) Public Visibilty/Use | HIGH (existing maintained trails, parkland, heavy use) | 9 pts. | 5 |
| | MODERATE (open to the public, rustic trails, moderate use) | 5 pts. | |
| | LOW (not easily accessible and/or low user numbers) | 1 pts. | |

b. Costs

| | | |
|-------------------------------------|--|---------------|
| | 1. Implementation Year 1 | \$ 100,000.00 |
| | 2. 3-year Operations and Maintenance Costs (O&M) | \$ 3,000.00 |
| (B) Estimated Total Cost of Project | | \$ 103,000.00 |

| | |
|------------------------|-------|
| Public Benefit Ranking | 48.54 |
|------------------------|-------|

| | | |
|--------------------------------------|-------------------------------------|-----------|
| Restoration/Enhancement Value | Total Score x Public Benefit | 46 |
|--------------------------------------|-------------------------------------|-----------|

City of Rochester Hills

Restoration Project Ranking

Restoration/Enhancement Value

32

Project Name: *Cloverport Bank Stabilization*

Project Location: *see Figure 5b*

Criteria

Value Score

Metric 1: Restoration Location and Type

a. Location (score all that apply)

| | | |
|---|--------|-----------|
| Greenspace Property | 9 pts. | 14 |
| Park Property | 7 pts. | |
| Clinton River | 5 pts. | |
| Property Adjacent to Green Space or Park Properties where restoration work would support projects on GS and Park Properties | 3 pts. | |
| Non-Green Space or Park Property (e.g., next to a river, along a public road, etc.) | 1 pts. | |

b. Restoration Type (score all that apply)

| | | |
|--------------------------|--------|-----------|
| Habitat Restoration | 7 pts. | 12 |
| Erosion/Sediment Control | 5 pts. | |
| Invasive Species Control | 3 pts. | |

Metric 2: Restoration Size and Timeline

a. Restoration Size (score one)

| | | |
|--------------------|---------|----------|
| ≥ 10 acres | 10 pts. | 3 |
| 5 to <10 acres | 7 pts. | |
| 2 to <5 acres | 5 pts. | |
| 1 to <2 acres | 3 pts. | |
| 1/4 to <1 acres | 2 pts. | |
| less than 1/4 acre | 1 pts. | |

b. Ecological Restoration Type (score one)

| | | |
|---|---------|-----------|
| Restoration can be accomplished in 1 year | 10 pts. | 10 |
| Restoration can be accomplished in 1-3 years | 7 pts. | |
| Restoration can be accomplished within 3-10 years | 3 pts. | |
| Restoration may not be possible within 10 years | 1 pts. | |

Metric 3: Expected Benefits

Metric 3a: Restoration Benefits

1. Restoration Type (score all that apply)

| | | |
|--|--------|-----------|
| Wetland Restoration (expanding or creating new wetland) | 9 pts. | 12 |
| Wetland Enhancement (improving existing wetland) | 7 pts. | |
| Other Property (e.g., upland) Restoration Activities | 5 pts. | |
| BMP Enhancements (e.g., buffer strips, stormwater treatment, etc.) | 5 pts. | |

2. Increased Benefits (score all that apply)

| | | |
|--------------------------------|--------|----------|
| Wildlife Habitat Improvements | 1 pts. | 2 |
| Fish Habitat Improvements | 1 pts. | |
| Floodwater Storage | 1 pts. | |
| Stormwater Storage | 1 pts. | |
| Improves Public Use/Visibility | 1 pts. | |

Metric 3b: Restoration Activities

1. Invasive Plant Treatment Area (score one)

| | | |
|--------------|--------|----------|
| 20+ acre | 7 pts. | 0 |
| 5-20 acre | 5 pts. | |
| 1.0-4.9 acre | 3 pts. | |
| <1 acre | 1 pts. | |

2. Invasive Plant Species to be Treated (score all that apply, additional species may be added)

| | | |
|---|--------|----------|
| Phragmites australis | 2 pts. | 0 |
| Reed Canary Grass | 2 pts. | |
| Woody Species (Buckthorns, honeysuckles, rose, bittersweet, barberry, privet, etc - 2 pt ea) | 2 pts. | |
| Herbaceous Species (Japanese knotweed, garlic mustard, purple loosestrife, invasive cattail, etc - 2 pt ea) | 2 pts. | |
| Other: _____ | 2 pts. | |

3. MDEQ Potential Wetland Restoration Maps (choose the one covering the largest area of the site)

| | | |
|--|--------|----------|
| High (mapped as historic wetland and hydric soils) | 3 pts. | 0 |
| Medium (mapped as hydric soils only) | 2 pts. | |
| Low (mapped as historic wetland only) | 1 pts. | |
| Not Mapped (may be existing wetland) | 1 pts. | |

4. Installation of Structures to Stabilize Stream Channels (score one)

| | | | |
|-------------------------------------|-------------|--------|----------|
| Linear Feet of Streambed Stabilized | 300+ ft. | 7 pts. | 7 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

5. Installation of Structures to Prevent/Stop Bank Erosion (score one)

| | | | |
|--------------------------------------|-------------|--------|----------|
| Linear Feet of Streambank Stabilized | 300+ ft. | 7 pts. | 7 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

6. Floodplain Reconnection (score one)

| | | | |
|------------------------------|-------------|--------|----------|
| Two-Stage Ditch Construction | 200+ ft. | 5 pts. | 0 |
| | 100-200 ft. | 3 pts. | |
| | 1-100 ft. | 1 pts. | |

7. Best Management Practices (score one)

| | | | |
|-------------------------------------|----------------|--------|----------|
| Acreage Treated using BMP Practices | 3.0+ acres | 7 pts. | 3 |
| | 1.0-3.0 acres | 5 pts. | |
| | 0.5-0.99 acres | 3 pts. | |
| | <0.5 acres | 1 pts. | |

8. Developed BMP Types (score all that apply)

| | | | |
|--|-------------------------------|------------------|----------|
| BMPs to be Implemented (long term maintenance will be required) | Retention/Sedimentation Basin | 4 pts. | 4 |
| | Detention/Sedimentation Basin | 2 pts. | |
| | Rain Garden/Bioswale | 2 pts. | |
| | Buffer Strip (10' min.) | 2 pts. | |
| | Tree Planting | 2 pts. | |
| | Other Bank Stabilization | Pts. as assigned | |

9. Water Quality Treatment (score one)

| | | | |
|----------------------|--|--------|----------|
| Stormwater Treatment | Treat greater than first 1/2" OR more than 90% of storms | 6 pts. | 0 |
| | Treat first 1/2" of runoff OR runoff from 90% of storms | 3 pts. | |

10. Water Quantity Management (score one)

| | | | |
|---|--|--------|----------|
| Runoff Volume Management (for a 2yr, 24-hour storm) | Post-construction runoff volume = 0 (stormwater does not leave site) | 6 pts. | 6 |
| | Post-construction runoff volume < Pre-construction runoff volume | 4 pts. | |
| | Post-construction runoff volume = pre-construction runoff volume | 2 pts. | |

Metric 4: Public Funding Benefits

a. Education Opportunities (score one)

| | | |
|---|--------|----------|
| Will the site be used for future demonstration/education? | 3 pts. | 3 |
|---|--------|----------|

b. Funding Benefits (score one)

| | | | |
|---|--------|---------|----------|
| 4. Matching dollars/resources from Grants, Landowner, donations, etc. | 100% | 12 pts. | 9 |
| (includes direct donation, property, labor, materials, etc.) | 50-99% | 9 pts. | |
| | 25-49% | 6 pts. | |
| | <25% | 3 pts. | |

| | |
|--------------------|-----------|
| TOTAL SCORE | 92 |
|--------------------|-----------|

Public Benefit Analysis

a. Public Benefits (Score one, or score two and average)

| | | | |
|--------------------------|--|--------|---|
| (A) Public Visibilty/Use | HIGH (existing maintained trails, parkland, heavy use) | 9 pts. | 7 |
| | MODERATE (open to the public, rustic trails, moderate use) | 5 pts. | |
| | LOW (not easily accessible and/or low user numbers) | 1 pts. | |

b. Costs

| | | | |
|-------------------------------------|---|----|------------|
| | 1. Implementation Year 1 | \$ | 200,000.00 |
| | 2. 10-year Operations and Maintenance Costs (O&M) | \$ | - |
| (B) Estimated Total Cost of Project | | \$ | 200,000.00 |

| | |
|------------------------|-------|
| Public Benefit Ranking | 35.00 |
|------------------------|-------|

| | | |
|--------------------------------------|-------------------------------------|-----------|
| Restoration/Enhancement Value | Total Score x Public Benefit | 32 |
|--------------------------------------|-------------------------------------|-----------|

City of Rochester Hills

Restoration Project Ranking

Restoration/Enhancement Value

28

Project Name: Cloverport Phragmites Control

Project Location: see Figure 5c

Criteria

Value Score

Metric 1: Restoration Location and Type

a. Location (score all that apply)

| | | |
|---|--------|---|
| Greenspace Property | 9 pts. | 9 |
| Park Property | 7 pts. | |
| Clinton River | 5 pts. | |
| Property Adjacent to Green Space or Park Properties where restoration work would support projects on GS and Park Properties | 3 pts. | |
| Non-Green Space or Park Property (e.g., next to a river, along a public road, etc.) | 1 pts. | |

b. Restoration Type (score all that apply)

| | | |
|--------------------------|--------|---|
| Habitat Restoration | 7 pts. | 3 |
| Erosion/Sediment Control | 5 pts. | |
| Invasive Species Control | 3 pts. | |

Metric 2: Restoration Size and Timeline

a. Restoration Size (score one)

| | | |
|--------------------|---------|---|
| ≥ 10 acres | 10 pts. | 2 |
| 5 to <10 acres | 7 pts. | |
| 2 to <5 acres | 5 pts. | |
| 1 to <2 acres | 3 pts. | |
| 1/4 to <1 acres | 2 pts. | |
| less than 1/4 acre | 1 pts. | |

b. Ecological Restoration Type (score one)

| | | |
|---|---------|---|
| Restoration can be accomplished in 1 year | 10 pts. | 3 |
| Restoration can be accomplished in 1-3 years | 7 pts. | |
| Restoration can be accomplished within 3-10 years | 3 pts. | |
| Restoration may not be possible within 10 years | 1 pts. | |

Metric 3: Expected Benefits

Metric 3a: Restoration Benefits

1. Restoration Type (score all that apply)

| | | |
|--|--------|---|
| Wetland Restoration (expanding or creating new wetland) | 9 pts. | 7 |
| Wetland Enhancement (improving existing wetland) | 7 pts. | |
| Other Property (e.g., upland) Restoration Activities | 5 pts. | |
| BMP Enhancements (e.g., buffer strips, stormwater treatment, etc.) | 5 pts. | |

2. Increased Benefits (score all that apply)

| | | |
|--------------------------------|--------|---|
| Wildlife Habitat Improvements | 1 pts. | 1 |
| Fish Habitat Improvements | 1 pts. | |
| Floodwater Storage | 1 pts. | |
| Stormwater Storage | 1 pts. | |
| Improves Public Use/Visibility | 1 pts. | |

Metric 3b: Restoration Activities

1. Invasive Plant Treatment Area (score one)

| | | |
|--------------|--------|---|
| 20+ acre | 7 pts. | 1 |
| 5-20 acre | 5 pts. | |
| 1.0-4.9 acre | 3 pts. | |
| <1 acre | 1 pts. | |

2. Invasive Plant Species to be Treated (score all that apply, additional species may be added)

| | | |
|---|--------|---|
| Phragmites australis | 2 pts. | 2 |
| Reed Canary Grass | 2 pts. | |
| Woody Species (Buckthorns, honeysuckles, rose, bittersweet, barberry, privet, etc - 2 pt ea) | 2 pts. | |
| Herbaceous Species (Japanese knotweed, garlic mustard, purple loosestrife, invasive cattail, etc - 2 pt ea) | 2 pts. | |
| Other: _____ | 2 pts. | |

3. MDEQ Potential Wetland Restoration Maps (choose the one covering the largest area of the site)

| | | |
|--|--------|---|
| High (mapped as historic wetland and hydric soils) | 3 pts. | 0 |
| Medium (mapped as hydric soils only) | 2 pts. | |
| Low (mapped as historic wetland only) | 1 pts. | |
| Not Mapped (may be existing wetland) | 1 pts. | |

4. Installation of Structures to Stabilize Stream Channels (score one)

| | | | |
|-------------------------------------|-------------|--------|---|
| Linear Feet of Streambed Stabilized | 300+ ft. | 7 pts. | 0 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

5. Installation of Structures to Prevent/Stop Bank Erosion (score one)

| | | | |
|--------------------------------------|-------------|--------|---|
| Linear Feet of Streambank Stabilized | 300+ ft. | 7 pts. | 0 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

6. Floodplain Reconnection (score one)

| | | | |
|------------------------------|-------------|--------|---|
| Two-Stage Ditch Construction | 200+ ft. | 5 pts. | 0 |
| | 100-200 ft. | 3 pts. | |
| | 1-100 ft. | 1 pts. | |

7. Best Management Practices (score one)

| | | | |
|-------------------------------------|----------------|--------|---|
| Acreage Treated using BMP Practices | 3.0+ acres | 7 pts. | 0 |
| | 1.0-3.0 acres | 5 pts. | |
| | 0.5-0.99 acres | 3 pts. | |
| | <0.5 acres | 1 pts. | |

8. Developed BMP Types (score all that apply)

| | | | |
|--|-------------------------------|------------------|---|
| BMPs to be Implemented (long term maintenance will be required) | Retention/Sedimentation Basin | 4 pts. | 0 |
| | Detention/Sedimentation Basin | 2 pts. | |
| | Rain Garden/Bioswale | 2 pts. | |
| | Buffer Strip (10' min.) | 2 pts. | |
| | Tree Planting | 2 pts. | |
| | Other Bank Stabilization | Pts. as assigned | |

9. Water Quality Treatment (score one)

| | | | |
|----------------------|--|--------|---|
| Stormwater Treatment | Treat greater than first 1/2" OR more than 90% of storms | 6 pts. | 0 |
| | Treat first 1/2" of runoff OR runoff from 90% of storms | 3 pts. | |

10. Water Quantity Management (score one)

| | | | |
|---|--|--------|---|
| Runoff Volume Management (for a 2yr, 24-hour storm) | Post-construction runoff volume = 0 (stormwater does not leave site) | 6 pts. | 0 |
| | Post-construction runoff volume < Pre-construction runoff volume | 4 pts. | |
| | Post-construction runoff volume = pre-construction runoff volume | 2 pts. | |

Metric 4: Public Funding Benefits

a. Education Opportunities (score one)

| | | |
|---|--------|---|
| Will the site be used for future demonstration/education? | 3 pts. | 0 |
|---|--------|---|

b. Funding Benefits (score one)

| | | | |
|--|--------|---------|---|
| Matching dollars/resources from Grants, Landowner, donations, etc. | 100% | 12 pts. | 0 |
| (includes direct donation, property, labor, materials, etc.) | 50-99% | 9 pts. | |
| | 25-49% | 6 pts. | |
| | <25% | 3 pts. | |

| | |
|--------------------|-----------|
| TOTAL SCORE | 28 |
|--------------------|-----------|

Public Benefit Analysis

a. Public Benefits (Score one, or score two and average)

| | | | |
|--------------------------|--|--------|----------|
| (A) Public Visibilty/Use | HIGH (existing maintained trails, parkland, heavy use) | 9 pts. | 3 |
| | MODERATE (open to the public, rustic trails, moderate use) | 5 pts. | |
| | LOW (not easily accessible and/or low user numbers) | 1 pts. | |

b. Costs

| | | | |
|-------------------------------------|--|----|-----------|
| | 1. Implementation Year 1 | \$ | 5,000.00 |
| | 2. 5-year Operations and Maintenance Costs (O&M) | \$ | 25,000.00 |
| (B) Estimated Total Cost of Project | | \$ | 30,000.00 |

| | |
|-------------------------------|---------------|
| <i>Public Benefit Ranking</i> | 100.00 |
|-------------------------------|---------------|

| | | |
|--------------------------------------|-------------------------------------|-----------|
| Restoration/Enhancement Value | Total Score x Public Benefit | 28 |
|--------------------------------------|-------------------------------------|-----------|

City of Rochester Hills

Restoration Project Ranking

Restoration/Enhancement Value

27

Project Name: Cloverport Garlic Mustard Control

Project Location: see Figure 5d

Criteria

Value Score

Metric 1: Restoration Location and Type

a. Location (score all that apply)

| | | |
|---|--------|---|
| Greenspace Property | 9 pts. | 9 |
| Park Property | 7 pts. | |
| Clinton River | 5 pts. | |
| Property Adjacent to Green Space or Park Properties where restoration work would support projects on GS and Park Properties | 3 pts. | |
| Non-Green Space or Park Property (e.g., next to a river, along a public road, etc.) | 1 pts. | |

b. Restoration Type (score all that apply)

| | | |
|--------------------------|--------|---|
| Habitat Restoration | 7 pts. | 3 |
| Erosion/Sediment Control | 5 pts. | |
| Invasive Species Control | 3 pts. | |

Metric 2: Restoration Size and Timeline

a. Restoration Size (score one)

| | | |
|--------------------|---------|---|
| ≥ 10 acres | 10 pts. | 3 |
| 5 to <10 acres | 7 pts. | |
| 2 to <5 acres | 5 pts. | |
| 1 to <2 acres | 3 pts. | |
| 1/4 to <1 acres | 2 pts. | |
| less than 1/4 acre | 1 pts. | |

b. Ecological Restoration Type (score one)

| | | |
|---|---------|---|
| Restoration can be accomplished in 1 year | 10 pts. | 3 |
| Restoration can be accomplished in 1-3 years | 7 pts. | |
| Restoration can be accomplished within 3-10 years | 3 pts. | |
| Restoration may not be possible within 10 years | 1 pts. | |

Metric 3: Expected Benefits

Metric 3a: Restoration Benefits

1. Restoration Type (score all that apply)

| | | |
|--|--------|---|
| Wetland Restoration (expanding or creating new wetland) | 9 pts. | 5 |
| Wetland Enhancement (improving existing wetland) | 7 pts. | |
| Other Property (e.g., upland) Restoration Activities | 5 pts. | |
| BMP Enhancements (e.g., buffer strips, stormwater treatment, etc.) | 5 pts. | |

2. Increased Benefits (score all that apply)

| | | |
|--------------------------------|--------|---|
| Wildlife Habitat Improvements | 1 pts. | 1 |
| Fish Habitat Improvements | 1 pts. | |
| Floodwater Storage | 1 pts. | |
| Stormwater Storage | 1 pts. | |
| Improves Public Use/Visibility | 1 pts. | |

Metric 3b: Restoration Activities

1. Invasive Plant Treatment Area (score one)

| | | |
|--------------|--------|---|
| 20+ acre | 7 pts. | 3 |
| 5-20 acre | 5 pts. | |
| 1.0-4.9 acre | 3 pts. | |
| <1 acre | 1 pts. | |

2. Invasive Plant Species to be Treated (score all that apply, additional species may be added)

| | | |
|---|--------|----------|
| Phragmites australis | 2 pts. | 2 |
| Reed Canary Grass | 2 pts. | |
| Woody Species (Buckthorns, honeysuckles, rose, bittersweet, barberry, privet, etc - 2 pt ea) | 2 pts. | |
| Herbaceous Species (Japanese knotweed, garlic mustard, purple loosestrife, invasive cattail, etc - 2 pt ea) | 2 pts. | |
| Other: Garlic Mustard | 2 pts. | |

3. MDEQ Potential Wetland Restoration Maps (choose the one covering the largest area of the site)

| | | |
|--|--------|----------|
| High (mapped as historic wetland and hydric soils) | 3 pts. | 0 |
| Medium (mapped as hydric soils only) | 2 pts. | |
| Low (mapped as historic wetland only) | 1 pts. | |
| Not Mapped (may be existing wetland) | 1 pts. | |

4. Installation of Structures to Stabilize Stream Channels (score one)

| | | | |
|-------------------------------------|-------------|--------|----------|
| Linear Feet of Streambed Stabilized | 300+ ft. | 7 pts. | 0 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

5. Installation of Structures to Prevent/Stop Bank Erosion (score one)

| | | | |
|--------------------------------------|-------------|--------|----------|
| Linear Feet of Streambank Stabilized | 300+ ft. | 7 pts. | 0 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

6. Floodplain Reconnection (score one)

| | | | |
|------------------------------|-------------|--------|----------|
| Two-Stage Ditch Construction | 200+ ft. | 5 pts. | 0 |
| | 100-200 ft. | 3 pts. | |
| | 1-100 ft. | 1 pts. | |

7. Best Management Practices (score one)

| | | | |
|-------------------------------------|----------------|--------|----------|
| Acreage Treated using BMP Practices | 3.0+ acres | 7 pts. | 0 |
| | 1.0-3.0 acres | 5 pts. | |
| | 0.5-0.99 acres | 3 pts. | |
| | <0.5 acres | 1 pts. | |

8. Developed BMP Types (score all that apply)

| | | | |
|--|-------------------------------|------------------|----------|
| BMPs to be Implemented (long term maintenance will be required) | Retention/Sedimentation Basin | 4 pts. | 0 |
| | Detention/Sedimentation Basin | 2 pts. | |
| | Rain Garden/Bioswale | 2 pts. | |
| | Buffer Strip (10' min.) | 2 pts. | |
| | Tree Planting | 2 pts. | |
| | Other Bank Stabilization | Pts. as assigned | |

9. Water Quality Treatment (score one)

| | | | |
|----------------------|--|--------|----------|
| Stormwater Treatment | Treat greater than first 1/2" OR more than 90% of storms | 6 pts. | 0 |
| | Treat first 1/2" of runoff OR runoff from 90% of storms | 3 pts. | |

10. Water Quantity Management (score one)

| | | | |
|---|--|--------|----------|
| Runoff Volume Management (for a 2yr, 24-hour storm) | Post-construction runoff volume = 0 (stormwater does not leave site) | 6 pts. | 0 |
| | Post-construction runoff volume < Pre-construction runoff volume | 4 pts. | |
| | Post-construction runoff volume = pre-construction runoff volume | 2 pts. | |

Metric 4: Public Funding Benefits

a. Education Opportunities (score one)

| | | |
|---|--------|----------|
| Will the site be used for future demonstration/education? | 3 pts. | 0 |
|---|--------|----------|

b. Funding Benefits (score one)

| | | | |
|--|--------|---------|----------|
| Matching dollars/resources from Grants, Landowner, donations, etc. (includes direct donation, property, labor, materials, etc.) | 100% | 12 pts. | 3 |
| | 50-99% | 9 pts. | |
| | 25-49% | 6 pts. | |
| | <25% | 3 pts. | |

| | |
|--------------------|-----------|
| TOTAL SCORE | 32 |
|--------------------|-----------|

Public Benefit Analysis

a. Public Benefits (Score one, or score two and average)

| | | | |
|--------------------------|--|--------|----------|
| (A) Public Visibilty/Use | HIGH (existing maintained trails, parkland, heavy use) | 9 pts. | 3 |
| | MODERATE (open to the public, rustic trails, moderate use) | 5 pts. | |
| | LOW (not easily accessible and/or low user numbers) | 1 pts. | |

b. Costs

| | | | |
|-------------------------------------|--|----|-----------|
| | 1. Implementation Year 1 | \$ | 10,000.00 |
| | 2. 5-year Operations and Maintenance Costs (O&M) | \$ | 25,000.00 |
| (B) Estimated Total Cost of Project | | \$ | 35,000.00 |

| | |
|-------------------------------|--------------|
| <i>Public Benefit Ranking</i> | 85.71 |
|-------------------------------|--------------|

| | | |
|--------------------------------------|-------------------------------------|-----------|
| Restoration/Enhancement Value | Total Score x Public Benefit | 27 |
|--------------------------------------|-------------------------------------|-----------|

City of Rochester Hills

Restoration Project Ranking

Restoration/Enhancement Value

22

Project Name: *Cloverport Woody Species Control*

Project Location: *see Figure 5*

Criteria

Value Score

Metric 1: Restoration Location and Type

a. Location (score all that apply)

| | | |
|---|--------|----------|
| Greenspace Property | 9 pts. | 9 |
| Park Property | 7 pts. | |
| Clinton River | 5 pts. | |
| Property Adjacent to Green Space or Park Properties where restoration work would support projects on GS and Park Properties | 3 pts. | |
| Non-Green Space or Park Property (e.g., next to a river, along a public road, etc.) | 1 pts. | |

b. Restoration Type (score all that apply)

| | | |
|--------------------------|--------|-----------|
| Habitat Restoration | 7 pts. | 10 |
| Erosion/Sediment Control | 5 pts. | |
| Invasive Species Control | 3 pts. | |

Metric 2: Restoration Size and Timeline

a. Restoration Size (score one)

| | | |
|--------------------|---------|----------|
| ≥ 10 acres | 10 pts. | 5 |
| 5 to <10 acres | 7 pts. | |
| 2 to <5 acres | 5 pts. | |
| 1 to <2 acres | 3 pts. | |
| 1/4 to <1 acres | 2 pts. | |
| less than 1/4 acre | 1 pts. | |

b. Ecological Restoration Type (score one)

| | | |
|---|---------|----------|
| Restoration can be accomplished in 1 year | 10 pts. | 1 |
| Restoration can be accomplished in 1-3 years | 7 pts. | |
| Restoration can be accomplished within 3-10 years | 3 pts. | |
| Restoration may not be possible within 10 years | 1 pts. | |

Metric 3: Expected Benefits

Metric 3a: Restoration Benefits

1. Restoration Type (score all that apply)

| | | |
|--|--------|-----------|
| Wetland Restoration (expanding or creating new wetland) | 9 pts. | 12 |
| Wetland Enhancement (improving existing wetland) | 7 pts. | |
| Other Property (e.g., upland) Restoration Activities | 5 pts. | |
| BMP Enhancements (e.g., buffer strips, stormwater treatment, etc.) | 5 pts. | |

2. Increased Benefits (score all that apply)

| | | |
|--------------------------------|--------|----------|
| Wildlife Habitat Improvements | 1 pts. | 2 |
| Fish Habitat Improvements | 1 pts. | |
| Floodwater Storage | 1 pts. | |
| Stormwater Storage | 1 pts. | |
| Improves Public Use/Visibility | 1 pts. | |

Metric 3b: Restoration Activities

1. Invasive Plant Treatment Area (score one)

| | | |
|--------------|--------|----------|
| 20+ acre | 7 pts. | 3 |
| 5-20 acre | 5 pts. | |
| 1.0-4.9 acre | 3 pts. | |
| <1 acre | 1 pts. | |

2. Invasive Plant Species to be Treated (score all that apply, additional species may be added)

| | | |
|---|--------|---|
| Phragmites australis | 2 pts. | 4 |
| Reed Canary Grass | 2 pts. | |
| Woody Species (Buckthorns, honeysuckles, rose, bittersweet, barberry, privet, etc - 2 pt ea) | 2 pts. | |
| Herbaceous Species (Japanese knotweed, garlic mustard, purple loosestrife, invasive cattail, etc - 2 pt ea) | 2 pts. | |
| Other: _____ | 2 pts. | |

3. MDEQ Potential Wetland Restoration Maps (choose the one covering the largest area of the site)

| | | |
|--|--------|---|
| High (mapped as historic wetland and hydric soils) | 3 pts. | 0 |
| Medium (mapped as hydric soils only) | 2 pts. | |
| Low (mapped as historic wetland only) | 1 pts. | |
| Not Mapped (may be existing wetland) | 1 pts. | |

4. Installation of Structures to Stabilize Stream Channels (score one)

| | | | |
|-------------------------------------|-------------|--------|---|
| Linear Feet of Streambed Stabilized | 300+ ft. | 7 pts. | 0 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

5. Installation of Structures to Prevent/Stop Bank Erosion (score one)

| | | | |
|--------------------------------------|-------------|--------|---|
| Linear Feet of Streambank Stabilized | 300+ ft. | 7 pts. | 0 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

6. Floodplain Reconnection (score one)

| | | | |
|------------------------------|-------------|--------|---|
| Two-Stage Ditch Construction | 200+ ft. | 5 pts. | 0 |
| | 100-200 ft. | 3 pts. | |
| | 1-100 ft. | 1 pts. | |

7. Best Management Practices (score one)

| | | | |
|-------------------------------------|----------------|--------|---|
| Acreage Treated using BMP Practices | 3.0+ acres | 7 pts. | 0 |
| | 1.0-3.0 acres | 5 pts. | |
| | 0.5-0.99 acres | 3 pts. | |
| | <0.5 acres | 1 pts. | |

8. Developed BMP Types (score all that apply)

| | | | |
|--|-------------------------------|------------------|---|
| BMPs to be Implemented (long term maintenance will be required) | Retention/Sedimentation Basin | 4 pts. | 0 |
| | Detention/Sedimentation Basin | 2 pts. | |
| | Rain Garden/Bioswale | 2 pts. | |
| | Buffer Strip (10' min.) | 2 pts. | |
| | Tree Planting | 2 pts. | |
| | Other _____ | Pts. as assigned | |

9. Water Quality Treatment (score one)

| | | | |
|----------------------|--|--------|---|
| Stormwater Treatment | Treat greater than first 1/2" OR more than 90% of storms | 6 pts. | 0 |
| | Treat first 1/2" of runoff OR runoff from 90% of storms | 3 pts. | |

10. Water Quantity Management (score one)

| | | | |
|---|--|--------|---|
| Runoff Volume Management (for a 2yr, 24-hour storm) | Post-construction runoff volume = 0 (stormwater does not leave site) | 6 pts. | 0 |
| | Post-construction runoff volume < Pre-construction runoff volume | 4 pts. | |
| | Post-construction runoff volume = pre-construction runoff volume | 2 pts. | |

Metric 4: Public Funding Benefits

a. Education Opportunities (score one)

| | | |
|---|--------|---|
| Will the site be used for future demonstration/education? | 3 pts. | 0 |
|---|--------|---|

b. Funding Benefits (score one)

| | | | |
|--|--------|---------|---|
| Matching dollars/resources from Grants, Landowner, donations, etc. | 100% | 12 pts. | 3 |
| (includes direct donation, property, labor, materials, etc.) | 50-99% | 9 pts. | |
| | 25-49% | 6 pts. | |
| | <25% | 3 pts. | |

| | |
|--------------------|-----------|
| TOTAL SCORE | 49 |
|--------------------|-----------|

Public Benefit Analysis

a. Public Benefits (Score one, or score two and average)

| | | | |
|--------------------------|--|--------|---|
| (A) Public Visibilty/Use | HIGH (existing maintained trails, parkland, heavy use) | 9 pts. | 5 |
| | MODERATE (open to the public, rustic trails, moderate use) | 5 pts. | |
| | LOW (not easily accessible and/or low user numbers) | 1 pts. | |

b. Costs

| | | | |
|-------------------------------------|---|----|------------|
| | 1. Implementation Year 1 | \$ | 10,000.00 |
| | 2. 10-year Operations and Maintenance Costs (O&M) | \$ | 100,000.00 |
| (B) Estimated Total Cost of Project | | \$ | 110,000.00 |

| | |
|------------------------|-------|
| Public Benefit Ranking | 45.45 |
|------------------------|-------|

| | | |
|--------------------------------------|-------------------------------------|-----------|
| Restoration/Enhancement Value | Total Score x Public Benefit | 22 |
|--------------------------------------|-------------------------------------|-----------|

City of Rochester Hills

Restoration Project Ranking

Restoration/Enhancement Value

9

Project Name: *Childress Woody Species Control*

Project Location: *see Figure 6*

Criteria

Value Score

Metric 1: Restoration Location and Type

a. Location (score all that apply)

| | | |
|---|--------|---|
| Greenspace Property | 9 pts. | 9 |
| Park Property | 7 pts. | |
| Clinton River | 5 pts. | |
| Property Adjacent to Green Space or Park Properties where restoration work would support projects on GS and Park Properties | 3 pts. | |
| Non-Green Space or Park Property (e.g., next to a river, along a public road, etc.) | 1 pts. | |

b. Restoration Type (score all that apply)

| | | |
|--------------------------|--------|---|
| Habitat Restoration | 7 pts. | 3 |
| Erosion/Sediment Control | 5 pts. | |
| Invasive Species Control | 3 pts. | |

Metric 2: Restoration Size and Timeline

a. Restoration Size (score one)

| | | |
|--------------------|---------|---|
| ≥ 10 acres | 10 pts. | 3 |
| 5 to <10 acres | 7 pts. | |
| 2 to <5 acres | 5 pts. | |
| 1 to <2 acres | 3 pts. | |
| 1/4 to <1 acres | 2 pts. | |
| less than 1/4 acre | 1 pts. | |

b. Ecological Restoration Type (score one)

| | | |
|---|---------|---|
| Restoration can be accomplished in 1 year | 10 pts. | 3 |
| Restoration can be accomplished in 1-3 years | 7 pts. | |
| Restoration can be accomplished within 3-10 years | 3 pts. | |
| Restoration may not be possible within 10 years | 1 pts. | |

Metric 3: Expected Benefits

Metric 3a: Restoration Benefits

1. Restoration Type (score all that apply)

| | | |
|--|--------|---|
| Wetland Restoration (expanding or creating new wetland) | 9 pts. | 5 |
| Wetland Enhancement (improving existing wetland) | 7 pts. | |
| Other Property (e.g., upland) Restoration Activities | 5 pts. | |
| BMP Enhancements (e.g., buffer strips, stormwater treatment, etc.) | 5 pts. | |

2. Increased Benefits (score all that apply)

| | | |
|--------------------------------|--------|---|
| Wildlife Habitat Improvements | 1 pts. | 0 |
| Fish Habitat Improvements | 1 pts. | |
| Floodwater Storage | 1 pts. | |
| Stormwater Storage | 1 pts. | |
| Improves Public Use/Visibility | 1 pts. | |

Metric 3b: Restoration Activities

1. Invasive Plant Treatment Area (score one)

| | | |
|--------------|--------|---|
| 20+ acre | 7 pts. | 3 |
| 5-20 acre | 5 pts. | |
| 1.0-4.9 acre | 3 pts. | |
| <1 acre | 1 pts. | |

2. Invasive Plant Species to be Treated (score all that apply, additional species may be added)

| | | |
|---|--------|----------|
| Phragmites australis | 2 pts. | 6 |
| Reed Canary Grass | 2 pts. | |
| Woody Species (Buckthorns, honeysuckles, rose, bittersweet, barberry, privet, etc - 2 pt ea) | 2 pts. | |
| Herbaceous Species (Japanese knotweed, garlic mustard, purple loosestrife, invasive cattail, etc - 2 pt ea) | 2 pts. | |
| Other: _____ | 2 pts. | |

3. MDEQ Potential Wetland Restoration Maps (choose the one covering the largest area of the site)

| | | |
|--|--------|----------|
| High (mapped as historic wetland and hydric soils) | 3 pts. | 0 |
| Medium (mapped as hydric soils only) | 2 pts. | |
| Low (mapped as historic wetland only) | 1 pts. | |
| Not Mapped (may be existing wetland) | 1 pts. | |

4. Installation of Structures to Stabilize Stream Channels (score one)

| | | | |
|-------------------------------------|-------------|--------|----------|
| Linear Feet of Streambed Stabilized | 300+ ft. | 7 pts. | 0 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

5. Installation of Structures to Prevent/Stop Bank Erosion (score one)

| | | | |
|--------------------------------------|-------------|--------|----------|
| Linear Feet of Streambank Stabilized | 300+ ft. | 7 pts. | 0 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

6. Floodplain Reconnection (score one)

| | | | |
|------------------------------|-------------|--------|----------|
| Two-Stage Ditch Construction | 200+ ft. | 5 pts. | 0 |
| | 100-200 ft. | 3 pts. | |
| | 1-100 ft. | 1 pts. | |

7. Best Management Practices (score one)

| | | | |
|-------------------------------------|----------------|--------|----------|
| Acreage Treated using BMP Practices | 3.0+ acres | 7 pts. | 0 |
| | 1.0-3.0 acres | 5 pts. | |
| | 0.5-0.99 acres | 3 pts. | |
| | <0.5 acres | 1 pts. | |

8. Developed BMP Types (score all that apply)

| | | | |
|--|-------------------------------|------------------|----------|
| BMPs to be Implemented (long term maintenance will be required) | Retention/Sedimentation Basin | 4 pts. | 0 |
| | Detention/Sedimentation Basin | 2 pts. | |
| | Rain Garden/Bioswale | 2 pts. | |
| | Buffer Strip (10' min.) | 2 pts. | |
| | Tree Planting | 2 pts. | |
| | Other _____ | Pts. as assigned | |

9. Water Quality Treatment (score one)

| | | | |
|----------------------|--|--------|----------|
| Stormwater Treatment | Treat greater than first 1/2" OR more than 90% of storms | 6 pts. | 0 |
| | Treat first 1/2" of runoff OR runoff from 90% of storms | 3 pts. | |

10. Water Quantity Management (score one)

| | | | |
|---|--|--------|----------|
| Runoff Volume Management (for a 2yr, 24-hour storm) | Post-construction runoff volume = 0 (stormwater does not leave site) | 6 pts. | 0 |
| | Post-construction runoff volume < Pre-construction runoff volume | 4 pts. | |
| | Post-construction runoff volume = pre-construction runoff volume | 2 pts. | |

Metric 4: Public Funding Benefits

a. Education Opportunities (score one)

| | | |
|---|--------|----------|
| Will the site be used for future demonstration/education? | 3 pts. | 0 |
|---|--------|----------|

b. Funding Benefits (score one)

| | | | |
|--|--------|---------|----------|
| Matching dollars/resources from Grants, Landowner, donations, etc. (includes direct donation, property, labor, materials, etc.) | 100% | 12 pts. | 0 |
| | 50-99% | 9 pts. | |
| | 25-49% | 6 pts. | |
| | <25% | 3 pts. | |

| | |
|--------------------|-----------|
| TOTAL SCORE | 32 |
|--------------------|-----------|

Public Benefit Analysis

a. Public Benefits (Score one, or score two and average)

| | | | |
|--------------------------|--|--------|---|
| (A) Public Visibilty/Use | HIGH (existing maintained trails, parkland, heavy use) | 9 pts. | 3 |
| | MODERATE (open to the public, rustic trails, moderate use) | 5 pts. | |
| | LOW (not easily accessible and/or low user numbers) | 1 pts. | |

b. Costs

| | | | |
|-------------------------------------|---|----|------------|
| | 1. Implementation Year 1 | \$ | 10,000.00 |
| | 2. 10-year Operations and Maintenance Costs (O&M) | \$ | 100,000.00 |
| (B) Estimated Total Cost of Project | | \$ | 110,000.00 |

| | |
|------------------------|-------|
| Public Benefit Ranking | 27.27 |
|------------------------|-------|

| | | |
|--------------------------------------|-------------------------------------|----------|
| Restoration/Enhancement Value | Total Score x Public Benefit | 9 |
|--------------------------------------|-------------------------------------|----------|

City of Rochester Hills

Restoration Project Ranking

Restoration/Enhancement Value

28

Project Name: Rivercrest Hard Armory Removal/Bank Restoration

Project Address: see Figure 7a

Criteria

Value Score

Metric 1: Restoration Location and Type

a. Location (score all that apply)

| | | |
|---|--------|-----------|
| Greenspace Property | 9 pts. | 14 |
| Park Property | 7 pts. | |
| Clinton River | 5 pts. | |
| Property Adjacent to Green Space or Park Properties where restoration work would support projects on GS and Park Properties | 3 pts. | |
| Non-Green Space or Park Property (e.g., next to a river, along a public road, etc.) | 1 pts. | |

b. Restoration Type (score all that apply)

| | | |
|--------------------------|--------|-----------|
| Habitat Restoration | 7 pts. | 12 |
| Erosion/Sediment Control | 5 pts. | |
| Invasive Species Control | 3 pts. | |

Metric 2: Restoration Size and Timeline

a. Restoration Size (score one)

| | | |
|--------------------|---------|----------|
| ≥ 10 acres | 10 pts. | 1 |
| 5 to <10 acres | 7 pts. | |
| 2 to <5 acres | 5 pts. | |
| 1 to <2 acres | 3 pts. | |
| 1/4 to <1 acres | 2 pts. | |
| less than 1/4 acre | 1 pts. | |

b. Ecological Restoration Type (score one)

| | | |
|---|---------|-----------|
| Restoration can be accomplished in 1 year | 10 pts. | 10 |
| Restoration can be accomplished in 1-3 years | 7 pts. | |
| Restoration can be accomplished within 3-10 years | 3 pts. | |
| Restoration may not be possible within 10 years | 1 pts. | |

Metric 3: Expected Benefits

Metric 3a: Restoration Benefits

1. Restoration Type (score all that apply)

| | | |
|--|--------|----------|
| Wetland Restoration (expanding or creating new wetland) | 9 pts. | 5 |
| Wetland Enhancement (improving existing wetland) | 7 pts. | |
| Other Property (e.g., upland) Restoration Activities | 5 pts. | |
| BMP Enhancements (e.g., buffer strips, stormwater treatment, etc.) | 5 pts. | |

2. Increased Benefits (score all that apply)

| | | |
|--------------------------------|--------|----------|
| Wildlife Habitat Improvements | 1 pts. | 1 |
| Fish Habitat Improvements | 1 pts. | |
| Floodwater Storage | 1 pts. | |
| Stormwater Storage | 1 pts. | |
| Improves Public Use/Visibility | 1 pts. | |

Metric 3b: Restoration Activities

1. Invasive Plant Treatment Area (score one)

| | | |
|--------------|--------|----------|
| 20+ acre | 7 pts. | 1 |
| 5-20 acre | 5 pts. | |
| 1.0-4.9 acre | 3 pts. | |
| <1 acre | 1 pts. | |

2. Invasive Plant Species to be Treated (score all that apply, additional species may be added)

| | | |
|---|--------|----------|
| Phragmites australis | 2 pts. | 0 |
| Reed Canary Grass | 2 pts. | |
| Woody Species (Buckthorns, honeysuckles, rose, bittersweet, barberry, privet, etc - 2 pt ea) | 2 pts. | |
| Herbaceous Species (Japanese knotweed, garlic mustard, purple loosestrife, invasive cattail, etc - 2 pt ea) | 2 pts. | |
| Other: _____ | 2 pts. | |

3. MDEQ Potential Wetland Restoration Maps (choose the one covering the largest area of the site)

| | | |
|--|--------|----------|
| High (mapped as historic wetland and hydric soils) | 3 pts. | 0 |
| Medium (mapped as hydric soils only) | 2 pts. | |
| Low (mapped as historic wetland only) | 1 pts. | |
| Not Mapped (may be existing wetland) | 1 pts. | |

4. Installation of Structures to Stabilize Stream Channels (score one)

| | | | |
|-------------------------------------|-------------|--------|----------|
| Linear Feet of Streambed Stabilized | 300+ ft. | 7 pts. | 0 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

5. Installation of Structures to Prevent/Stop Bank Erosion (score one)

| | | | |
|--------------------------------------|-------------|--------|----------|
| Linear Feet of Streambank Stabilized | 300+ ft. | 7 pts. | 5 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

6. Floodplain Reconnection (score one)

| | | | |
|------------------------------|-------------|--------|----------|
| Two-Stage Ditch Construction | 200+ ft. | 5 pts. | 0 |
| | 100-200 ft. | 3 pts. | |
| | 1-100 ft. | 1 pts. | |

7. Best Management Practices (score one)

| | | | |
|-------------------------------------|----------------|--------|----------|
| Acreage Treated using BMP Practices | 3.0+ acres | 7 pts. | 1 |
| | 1.0-3.0 acres | 5 pts. | |
| | 0.5-0.99 acres | 3 pts. | |
| | <0.5 acres | 1 pts. | |

8. Developed BMP Types (score all that apply)

| | | | |
|--|-------------------------------|------------------|----------|
| BMPs to be Implemented (long term maintenance will be required) | Retention/Sedimentation Basin | 4 pts. | 2 |
| | Detention/Sedimentation Basin | 2 pts. | |
| | Rain Garden/Bioswale | 2 pts. | |
| | Buffer Strip (10' min.) | 2 pts. | |
| | Tree Planting | 2 pts. | |
| | Other Bank Restoration _____ | Pts. as assigned | |

9. Water Quality Treatment (score one)

| | | | |
|----------------------|--|--------|----------|
| Stormwater Treatment | Treat greater than first 1/2" OR more than 90% of storms | 6 pts. | 0 |
| | Treat first 1/2" of runoff OR runoff from 90% of storms | 3 pts. | |

10. Water Quantity Management (score one)

| | | | |
|---|--|--------|----------|
| Runoff Volume Management (for a 2yr, 24-hour storm) | Post-construction runoff volume = 0 (stormwater does not leave site) | 6 pts. | 0 |
| | Post-construction runoff volume < Pre-construction runoff volume | 4 pts. | |
| | Post-construction runoff volume = pre-construction runoff volume | 2 pts. | |

Metric 4: Public Funding Benefits

a. Education Opportunities (score one)

| | | |
|---|--------|----------|
| Will the site be used for future demonstration/education? | 3 pts. | 0 |
|---|--------|----------|

b. Funding Benefits (score one)

| | | | |
|--|--------|---------|----------|
| Matching dollars/resources from Grants, Landowner, donations, etc. | 100% | 12 pts. | 3 |
| (includes direct donation, property, labor, materials, etc.) | 50-99% | 9 pts. | |
| | 25-49% | 6 pts. | |
| | <25% | 3 pts. | |

| | |
|--------------------|-----------|
| TOTAL SCORE | 55 |
|--------------------|-----------|

Public Benefit Analysis

a. Public Benefits (Score one, or score two and average)

| | | | |
|--------------------------|--|--------|----------|
| (A) Public Visibilty/Use | HIGH (existing maintained trails, parkland, heavy use) | 9 pts. | 3 |
| | MODERATE (open to the public, rustic trails, moderate use) | 5 pts. | |
| | LOW (not easily accessible and/or low user numbers) | 1 pts. | |

b. Costs

| | | | |
|-------------------------------------|---|----|-----------|
| | 1. Implementation Year 1 | \$ | 50,000.00 |
| | 2. 10-year Operations and Maintenance Costs (O&M) | \$ | 10,000.00 |
| (B) Estimated Total Cost of Project | | \$ | 60,000.00 |

| | |
|-------------------------------|--------------|
| <i>Public Benefit Ranking</i> | 50.00 |
|-------------------------------|--------------|

| | | |
|--------------------------------------|-------------------------------------|-----------|
| Restoration/Enhancement Value | Total Score x Public Benefit | 28 |
|--------------------------------------|-------------------------------------|-----------|

City of Rochester Hills

Restoration Project Ranking

Restoration/Enhancement Value

4

Project Name: Rivercrest Woody Species Control

Project Location: see Figure 7b

Criteria

Value Score

Metric 1: Restoration Location and Type

a. Location (score all that apply)

| | | |
|---|--------|---|
| Greenspace Property | 9 pts. | 9 |
| Park Property | 7 pts. | |
| Clinton River | 5 pts. | |
| Property Adjacent to Green Space or Park Properties where restoration work would support projects on GS and Park Properties | 3 pts. | |
| Non-Green Space or Park Property (e.g., next to a river, along a public road, etc.) | 1 pts. | |

b. Restoration Type (score all that apply)

| | | |
|--------------------------|--------|----|
| Habitat Restoration | 7 pts. | 10 |
| Erosion/Sediment Control | 5 pts. | |
| Invasive Species Control | 3 pts. | |

Metric 2: Restoration Size and Timeline

a. Restoration Size (score one)

| | | |
|--------------------|---------|---|
| ≥ 10 acres | 10 pts. | 3 |
| 5 to <10 acres | 7 pts. | |
| 2 to <5 acres | 5 pts. | |
| 1 to <2 acres | 3 pts. | |
| 1/4 to <1 acres | 2 pts. | |
| less than 1/4 acre | 1 pts. | |

b. Ecological Restoration Type (score one)

| | | |
|---|---------|---|
| Restoration can be accomplished in 1 year | 10 pts. | 1 |
| Restoration can be accomplished in 1-3 years | 7 pts. | |
| Restoration can be accomplished within 3-10 years | 3 pts. | |
| Restoration may not be possible within 10 years | 1 pts. | |

Metric 3: Expected Benefits

Metric 3a: Restoration Benefits

1. Restoration Type (score all that apply)

| | | |
|--|--------|---|
| Wetland Restoration (expanding or creating new wetland) | 9 pts. | 5 |
| Wetland Enhancement (improving existing wetland) | 7 pts. | |
| Other Property (e.g., upland) Restoration Activities | 5 pts. | |
| BMP Enhancements (e.g., buffer strips, stormwater treatment, etc.) | 5 pts. | |

2. Increased Benefits (score all that apply)

| | | |
|--------------------------------|--------|---|
| Wildlife Habitat Improvements | 1 pts. | 1 |
| Fish Habitat Improvements | 1 pts. | |
| Floodwater Storage | 1 pts. | |
| Stormwater Storage | 1 pts. | |
| Improves Public Use/Visibility | 1 pts. | |

Metric 3b: Restoration Activities

1. Invasive Plant Treatment Area (score one)

| | | |
|--------------|--------|---|
| 20+ acre | 7 pts. | 3 |
| 5-20 acre | 5 pts. | |
| 1.0-4.9 acre | 3 pts. | |
| <1 acre | 1 pts. | |

2. Invasive Plant Species to be Treated (score all that apply, additional species may be added)

| | | |
|---|--------|----------|
| Phragmites australis | 2 pts. | 6 |
| Reed Canary Grass | 2 pts. | |
| Woody Species (Buckthorns, honeysuckles, rose, bittersweet, barberry, privet, etc - 2 pt ea) | 2 pts. | |
| Herbaceous Species (Japanese knotweed, garlic mustard, purple loosestrife, invasive cattail, etc - 2 pt ea) | 2 pts. | |
| Other: _____ | 2 pts. | |

3. MDEQ Potential Wetland Restoration Maps (choose the one covering the largest area of the site)

| | | |
|--|--------|----------|
| High (mapped as historic wetland and hydric soils) | 3 pts. | 0 |
| Medium (mapped as hydric soils only) | 2 pts. | |
| Low (mapped as historic wetland only) | 1 pts. | |
| Not Mapped (may be existing wetland) | 1 pts. | |

4. Installation of Structures to Stabilize Stream Channels (score one)

| | | | |
|-------------------------------------|-------------|--------|----------|
| Linear Feet of Streambed Stabilized | 300+ ft. | 7 pts. | 0 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

5. Installation of Structures to Prevent/Stop Bank Erosion (score one)

| | | | |
|--------------------------------------|-------------|--------|----------|
| Linear Feet of Streambank Stabilized | 300+ ft. | 7 pts. | 0 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

6. Floodplain Reconnection (score one)

| | | | |
|------------------------------|-------------|--------|----------|
| Two-Stage Ditch Construction | 200+ ft. | 5 pts. | 0 |
| | 100-200 ft. | 3 pts. | |
| | 1-100 ft. | 1 pts. | |

7. Best Management Practices (score one)

| | | | |
|-------------------------------------|----------------|--------|----------|
| Acreage Treated using BMP Practices | 3.0+ acres | 7 pts. | 0 |
| | 1.0-3.0 acres | 5 pts. | |
| | 0.5-0.99 acres | 3 pts. | |
| | <0.5 acres | 1 pts. | |

8. Developed BMP Types (score all that apply)

| | | | |
|--|-------------------------------|------------------|----------|
| BMPs to be Implemented (long term maintenance will be required) | Retention/Sedimentation Basin | 4 pts. | 0 |
| | Detention/Sedimentation Basin | 2 pts. | |
| | Rain Garden/Bioswale | 2 pts. | |
| | Tree Planting | 2 pts. | |
| | Other _____ | Pts. as assigned | |

9. Water Quality Treatment (score one)

| | | | |
|----------------------|--|--------|----------|
| Stormwater Treatment | Treat greater than first 1/2" OR more than 90% of storms | 6 pts. | 0 |
| | Treat first 1/2" of runoff OR runoff from 90% of storms | 3 pts. | |

10. Water Quantity Management (score one)

| | | | |
|---|--|--------|----------|
| Runoff Volume Management (for a 2yr, 24-hour storm) | Post-construction runoff volume = 0 (stormwater does not leave site) | 6 pts. | 0 |
| | Post-construction runoff volume < Pre-construction runoff volume | 4 pts. | |
| | Post-construction runoff volume = pre-construction runoff volume | 2 pts. | |

Metric 4: Public Funding Benefits

a. Education Opportunities (score one)

| | | |
|---|--------|----------|
| Will the site be used for future demonstration/education? | 3 pts. | 0 |
|---|--------|----------|

b. Funding Benefits (score one)

| | | | |
|--|--------|---------|----------|
| Matching dollars/resources from Grants, Landowner, donations, etc. (includes direct donation, property, labor, materials, etc.) | 100% | 12 pts. | 0 |
| | 50-99% | 9 pts. | |
| | 25-49% | 6 pts. | |
| | <25% | 3 pts. | |

| | |
|--------------------|-----------|
| TOTAL SCORE | 38 |
|--------------------|-----------|

Public Benefit Analysis

a. Public Benefits (Score one, or score two and average)

| | | | |
|--------------------------|--|--------|----------|
| (A) Public Visibilty/Use | HIGH (existing maintained trails, parkland, heavy use) | 9 pts. | 1 |
| | MODERATE (open to the public, rustic trails, moderate use) | 5 pts. | |
| | LOW (not easily accessible and/or low user numbers) | 1 pts. | |

b. Costs

| | | | |
|-------------------------------------|---|----|-----------|
| | 1. Implementation Year 1 | \$ | 15,000.00 |
| | 2. 10-year Operations and Maintenance Costs (O&M) | \$ | 75,000.00 |
| (B) Estimated Total Cost of Project | | \$ | 90,000.00 |

| | |
|-------------------------------|--------------|
| <i>Public Benefit Ranking</i> | 11.11 |
|-------------------------------|--------------|

| | | |
|--------------------------------------|-------------------------------------|----------|
| Restoration/Enhancement Value | Total Score x Public Benefit | 4 |
|--------------------------------------|-------------------------------------|----------|

City of Rochester Hills

Restoration Project Ranking

Restoration/Enhancement Value

31

Project Name: Clear Creek PSS and Sedge Meadow Enhancement

Project Location: see Figure 8a

Criteria

Value Score

Metric 1: Restoration Location and Type

a. Location (score all that apply)

| | | |
|---|--------|---|
| Greenspace Property | 9 pts. | 9 |
| Park Property | 7 pts. | |
| Clinton River | 5 pts. | |
| Property Adjacent to Green Space or Park Properties where restoration work would support projects on GS and Park Properties | 3 pts. | |
| Non-Green Space or Park Property (e.g., next to a river, along a public road, etc.) | 1 pts. | |

b. Restoration Type (score all that apply)

| | | |
|--------------------------|--------|----|
| Habitat Restoration | 7 pts. | 10 |
| Erosion/Sediment Control | 5 pts. | |
| Invasive Species Control | 3 pts. | |

Metric 2: Restoration Size and Timeline

a. Restoration Size (score one)

| | | |
|--------------------|---------|---|
| ≥ 10 acres | 10 pts. | 7 |
| 5 to <10 acres | 7 pts. | |
| 2 to <5 acres | 5 pts. | |
| 1 to <2 acres | 3 pts. | |
| 1/4 to <1 acres | 2 pts. | |
| less than 1/4 acre | 1 pts. | |

b. Ecological Restoration Type (score one)

| | | |
|---|---------|---|
| Restoration can be accomplished in 1 year | 10 pts. | 3 |
| Restoration can be accomplished in 1-3 years | 7 pts. | |
| Restoration can be accomplished within 3-10 years | 3 pts. | |
| Restoration may not be possible within 10 years | 1 pts. | |

Metric 3: Expected Benefits

Metric 3a: Restoration Benefits

1. Restoration Type (score all that apply)

| | | |
|--|--------|---|
| Wetland Restoration (expanding or creating new wetland) | 9 pts. | 7 |
| Wetland Enhancement (improving existing wetland) | 7 pts. | |
| Other Property (e.g., upland) Restoration Activities | 5 pts. | |
| BMP Enhancements (e.g., buffer strips, stormwater treatment, etc.) | 5 pts. | |

2. Increased Benefits (score all that apply)

| | | |
|--------------------------------|--------|---|
| Wildlife Habitat Improvements | 1 pts. | 2 |
| Fish Habitat Improvements | 1 pts. | |
| Floodwater Storage | 1 pts. | |
| Stormwater Storage | 1 pts. | |
| Improves Public Use/Visibility | 1 pts. | |

Metric 3b: Restoration Activities

1. Invasive Plant Treatment Area (score one)

| | | |
|--------------|--------|---|
| 20+ acre | 7 pts. | 5 |
| 5-20 acre | 5 pts. | |
| 1.0-4.9 acre | 3 pts. | |
| <1 acre | 1 pts. | |

2. Invasive Plant Species to be Treated (score all that apply, additional species may be added)

| | | |
|---|--------|----------|
| Phragmites australis | 2 pts. | 6 |
| Reed Canary Grass | 2 pts. | |
| Woody Species (Buckthorns, honeysuckles, rose, bittersweet, barberry, privet, etc - 2 pt ea) | 2 pts. | |
| Herbaceous Species (Japanese knotweed, garlic mustard, purple loosestrife, invasive cattail, etc - 2 pt ea) | 2 pts. | |
| Other: _____ | 2 pts. | |

3. MDEQ Potential Wetland Restoration Maps (choose the one covering the largest area of the site)

| | | |
|--|--------|----------|
| High (mapped as historic wetland and hydric soils) | 3 pts. | 0 |
| Medium (mapped as hydric soils only) | 2 pts. | |
| Low (mapped as historic wetland only) | 1 pts. | |
| Not Mapped (may be existing wetland) | 1 pts. | |

4. Installation of Structures to Stabilize Stream Channels (score one)

| | | | |
|-------------------------------------|-------------|--------|----------|
| Linear Feet of Streambed Stabilized | 300+ ft. | 7 pts. | 0 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

5. Installation of Structures to Prevent/Stop Bank Erosion (score one)

| | | | |
|--------------------------------------|-------------|--------|----------|
| Linear Feet of Streambank Stabilized | 300+ ft. | 7 pts. | 0 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

6. Floodplain Reconnection (score one)

| | | | |
|------------------------------|-------------|--------|----------|
| Two-Stage Ditch Construction | 200+ ft. | 5 pts. | 0 |
| | 100-200 ft. | 3 pts. | |
| | 1-100 ft. | 1 pts. | |

7. Best Management Practices (score one)

| | | | |
|-------------------------------------|----------------|--------|----------|
| Acreage Treated using BMP Practices | 3.0+ acres | 7 pts. | 0 |
| | 1.0-3.0 acres | 5 pts. | |
| | 0.5-0.99 acres | 3 pts. | |
| | <0.5 acres | 1 pts. | |

8. Developed BMP Types (score all that apply)

| | | | |
|--|-------------------------------|------------------|----------|
| BMPs to be Implemented (long term maintenance will be required) | Retention/Sedimentation Basin | 4 pts. | 0 |
| | Detention/Sedimentation Basin | 2 pts. | |
| | Rain Garden/Bioswale | 2 pts. | |
| | Buffer Strip (10' min.) | 2 pts. | |
| | Tree Planting | 2 pts. | |
| | Other Bank Stabilization | Pts. as assigned | |

9. Water Quality Treatment (score one)

| | | | |
|----------------------|--|--------|----------|
| Stormwater Treatment | Treat greater than first 1/2" OR more than 90% of storms | 6 pts. | 0 |
| | Treat first 1/2" of runoff OR runoff from 90% of storms | 3 pts. | |

10. Water Quantity Management (score one)

| | | | |
|---|--|--------|----------|
| Runoff Volume Management (for a 2yr, 24-hour storm) | Post-construction runoff volume = 0 (stormwater does not leave site) | 6 pts. | 0 |
| | Post-construction runoff volume < Pre-construction runoff volume | 4 pts. | |
| | Post-construction runoff volume = pre-construction runoff volume | 2 pts. | |

Metric 4: Public Funding Benefits

a. Education Opportunities (score one)

| | | |
|---|--------|----------|
| Will the site be used for future demonstration/education? | 3 pts. | 0 |
|---|--------|----------|

b. Funding Benefits (score one)

| | | | |
|--|--------|---------|----------|
| Matching dollars/resources from Grants, Landowner, donations, etc. (includes direct donation, property, labor, materials, etc.) | 100% | 12 pts. | 3 |
| | 50-99% | 9 pts. | |
| | 25-49% | 6 pts. | |
| | <25% | 3 pts. | |

| | |
|--------------------|-----------|
| TOTAL SCORE | 52 |
|--------------------|-----------|

Public Benefit Analysis

a. Public Benefits (Score one, or score two and average)

| | | | |
|--------------------------|--|--------|----------|
| (A) Public Visibilty/Use | HIGH (existing maintained trails, parkland, heavy use) | 9 pts. | 3 |
| | MODERATE (open to the public, rustic trails, moderate use) | 5 pts. | |
| | LOW (not easily accessible and/or low user numbers) | 1 pts. | |

b. Costs

| | | | |
|-------------------------------------|---|----|-----------|
| | 1. Implementation Year 1 | \$ | 8,000.00 |
| | 2. 10-year Operations and Maintenance Costs (O&M) | \$ | 42,000.00 |
| (B) Estimated Total Cost of Project | | \$ | 50,000.00 |

| | |
|-------------------------------|--------------|
| <i>Public Benefit Ranking</i> | 60.00 |
|-------------------------------|--------------|

| | | |
|--------------------------------------|-------------------------------------|-----------|
| Restoration/Enhancement Value | Total Score x Public Benefit | 31 |
|--------------------------------------|-------------------------------------|-----------|

City of Rochester Hills

Restoration Project Ranking

Restoration/Enhancement Value

13

Project Name: Clear Creek Phragmites Control

Project Location: see Figure 8b

Criteria

Value Score

Metric 1: Restoration Location and Type

a. Location (score all that apply)

| | | |
|---|--------|---|
| Greenspace Property | 9 pts. | 9 |
| Park Property | 7 pts. | |
| Clinton River | 5 pts. | |
| Property Adjacent to Green Space or Park Properties where restoration work would support projects on GS and Park Properties | 3 pts. | |
| Non-Green Space or Park Property (e.g., next to a river, along a public road, etc.) | 1 pts. | |

b. Restoration Type (score all that apply)

| | | |
|--------------------------|--------|---|
| Habitat Restoration | 7 pts. | 3 |
| Erosion/Sediment Control | 5 pts. | |
| Invasive Species Control | 3 pts. | |

Metric 2: Restoration Size and Timeline

a. Restoration Size (score one)

| | | |
|--------------------|---------|---|
| ≥ 10 acres | 10 pts. | 3 |
| 5 to <10 acres | 7 pts. | |
| 2 to <5 acres | 5 pts. | |
| 1 to <2 acres | 3 pts. | |
| 1/4 to <1 acres | 2 pts. | |
| less than 1/4 acre | 1 pts. | |

b. Ecological Restoration Type (score one)

| | | |
|---|---------|---|
| Restoration can be accomplished in 1 year | 10 pts. | 3 |
| Restoration can be accomplished in 1-3 years | 7 pts. | |
| Restoration can be accomplished within 3-10 years | 3 pts. | |
| Restoration may not be possible within 10 years | 1 pts. | |

Metric 3: Expected Benefits

Metric 3a: Restoration Benefits

1. Restoration Type (score all that apply)

| | | |
|--|--------|---|
| Wetland Restoration (expanding or creating new wetland) | 9 pts. | 7 |
| Wetland Enhancement (improving existing wetland) | 7 pts. | |
| Other Property (e.g., upland) Restoration Activities | 5 pts. | |
| BMP Enhancements (e.g., buffer strips, stormwater treatment, etc.) | 5 pts. | |

2. Increased Benefits (score all that apply)

| | | |
|--------------------------------|--------|---|
| Wildlife Habitat Improvements | 1 pts. | 2 |
| Fish Habitat Improvements | 1 pts. | |
| Floodwater Storage | 1 pts. | |
| Stormwater Storage | 1 pts. | |
| Improves Public Use/Visibility | 1 pts. | |

Metric 3b: Restoration Activities

1. Invasive Plant Treatment Area (score one)

| | | |
|--------------|--------|---|
| 20+ acre | 7 pts. | 3 |
| 5-20 acre | 5 pts. | |
| 1.0-4.9 acre | 3 pts. | |
| <1 acre | 1 pts. | |

2. Invasive Plant Species to be Treated (score all that apply, additional species may be added)

| | | |
|---|--------|---|
| Phragmites australis | 2 pts. | 2 |
| Reed Canary Grass | 2 pts. | |
| Woody Species (Buckthorns, honeysuckles, rose, bittersweet, barberry, privet, etc - 2 pt ea) | 2 pts. | |
| Herbaceous Species (Japanese knotweed, garlic mustard, purple loosestrife, invasive cattail, etc - 2 pt ea) | 2 pts. | |
| Other: _____ | 2 pts. | |

3. MDEQ Potential Wetland Restoration Maps (choose the one covering the largest area of the site)

| | | |
|--|--------|---|
| High (mapped as historic wetland and hydric soils) | 3 pts. | 0 |
| Medium (mapped as hydric soils only) | 2 pts. | |
| Low (mapped as historic wetland only) | 1 pts. | |
| Not Mapped (may be existing wetland) | 1 pts. | |

4. Installation of Structures to Stabilize Stream Channels (score one)

| | | | |
|-------------------------------------|-------------|--------|---|
| Linear Feet of Streambed Stabilized | 300+ ft. | 7 pts. | 0 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

5. Installation of Structures to Prevent/Stop Bank Erosion (score one)

| | | | |
|--------------------------------------|-------------|--------|---|
| Linear Feet of Streambank Stabilized | 300+ ft. | 7 pts. | 0 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

6. Floodplain Reconnection (score one)

| | | | |
|------------------------------|-------------|--------|---|
| Two-Stage Ditch Construction | 200+ ft. | 5 pts. | 0 |
| | 100-200 ft. | 3 pts. | |
| | 1-100 ft. | 1 pts. | |

7. Best Management Practices (score one)

| | | | |
|-------------------------------------|----------------|--------|---|
| Acreage Treated using BMP Practices | 3.0+ acres | 7 pts. | 0 |
| | 1.0-3.0 acres | 5 pts. | |
| | 0.5-0.99 acres | 3 pts. | |
| | <0.5 acres | 1 pts. | |

8. Developed BMP Types (score all that apply)

| | | | |
|--|-------------------------------|------------------|---|
| BMPs to be Implemented (long term maintenance will be required) | Retention/Sedimentation Basin | 4 pts. | 0 |
| | Detention/Sedimentation Basin | 2 pts. | |
| | Rain Garden/Bioswale | 2 pts. | |
| | Buffer Strip (10' min.) | 2 pts. | |
| | Tree Planting | 2 pts. | |
| | Other Bank Stabilization | Pts. as assigned | |

9. Water Quality Treatment (score one)

| | | | |
|----------------------|--|--------|---|
| Stormwater Treatment | Treat greater than first 1/2" OR more than 90% of storms | 6 pts. | 0 |
| | Treat first 1/2" of runoff OR runoff from 90% of storms | 3 pts. | |

10. Water Quantity Management (score one)

| | | | |
|---|--|--------|---|
| Runoff Volume Management (for a 2yr, 24-hour storm) | Post-construction runoff volume = 0 (stormwater does not leave site) | 6 pts. | 0 |
| | Post-construction runoff volume < Pre-construction runoff volume | 4 pts. | |
| | Post-construction runoff volume = pre-construction runoff volume | 2 pts. | |

Metric 4: Public Funding Benefits

a. Education Opportunities (score one)

| | | |
|---|--------|---|
| Will the site be used for future demonstration/education? | 3 pts. | 0 |
|---|--------|---|

b. Funding Benefits (score one)

| | | | |
|--|--------|---------|---|
| Matching dollars/resources from Grants, Landowner, donations, etc. | 100% | 12 pts. | 0 |
| (includes direct donation, property, labor, materials, etc.) | 50-99% | 9 pts. | |
| | 25-49% | 6 pts. | |
| | <25% | 3 pts. | |

| | |
|--------------------|-----------|
| TOTAL SCORE | 32 |
|--------------------|-----------|

Public Benefit Analysis

a. Public Benefits (Score one, or score two and average)

| | | | |
|--------------------------|--|--------|----------|
| (A) Public Visibilty/Use | HIGH (existing maintained trails, parkland, heavy use) | 9 pts. | 1 |
| | MODERATE (open to the public, rustic trails, moderate use) | 5 pts. | |
| | LOW (not easily accessible and/or low user numbers) | 1 pts. | |

b. Costs

| | | | |
|-------------------------------------|--|----|-----------|
| | 1. Implementation Year 1 | \$ | 5,000.00 |
| | 2. 5-year Operations and Maintenance Costs (O&M) | \$ | 20,000.00 |
| (B) Estimated Total Cost of Project | | \$ | 25,000.00 |

| | |
|-------------------------------|--------------|
| <i>Public Benefit Ranking</i> | 40.00 |
|-------------------------------|--------------|

| | | |
|--------------------------------------|-------------------------------------|-----------|
| Restoration/Enhancement Value | Total Score x Public Benefit | 13 |
|--------------------------------------|-------------------------------------|-----------|

City of Rochester Hills

Restoration Project Ranking

Restoration/Enhancement Value

6

Project Name: Clear Creek Woody Species Control (upland)

Project Location: see Figure 8

Criteria

Value Score

Metric 1: Restoration Location and Type

a. Location (score all that apply)

| | | |
|---|--------|---|
| Greenspace Property | 9 pts. | 9 |
| Park Property | 7 pts. | |
| Clinton River | 5 pts. | |
| Property Adjacent to Green Space or Park Properties where restoration work would support projects on GS and Park Properties | 3 pts. | |
| Non-Green Space or Park Property (e.g., next to a river, along a public road, etc.) | 1 pts. | |

b. Restoration Type (score all that apply)

| | | |
|--------------------------|--------|----|
| Habitat Restoration | 7 pts. | 10 |
| Erosion/Sediment Control | 5 pts. | |
| Invasive Species Control | 3 pts. | |

Metric 2: Restoration Size and Timeline

a. Restoration Size (score one)

| | | |
|--------------------|---------|----|
| ≥ 10 acres | 10 pts. | 10 |
| 5 to <10 acres | 7 pts. | |
| 2 to <5 acres | 5 pts. | |
| 1 to <2 acres | 3 pts. | |
| 1/4 to <1 acres | 2 pts. | |
| less than 1/4 acre | 1 pts. | |

b. Ecological Restoration Type (score one)

| | | |
|---|---------|---|
| Restoration can be accomplished in 1 year | 10 pts. | 1 |
| Restoration can be accomplished in 1-3 years | 7 pts. | |
| Restoration can be accomplished within 3-10 years | 3 pts. | |
| Restoration may not be possible within 10 years | 1 pts. | |

Metric 3: Expected Benefits

Metric 3a: Restoration Benefits

1. Restoration Type (score all that apply)

| | | |
|--|--------|---|
| Wetland Restoration (expanding or creating new wetland) | 9 pts. | 5 |
| Wetland Enhancement (improving existing wetland) | 7 pts. | |
| Other Property (e.g., upland) Restoration Activities | 5 pts. | |
| BMP Enhancements (e.g., buffer strips, stormwater treatment, etc.) | 5 pts. | |

2. Increased Benefits (score all that apply)

| | | |
|--------------------------------|--------|---|
| Wildlife Habitat Improvements | 1 pts. | 2 |
| Fish Habitat Improvements | 1 pts. | |
| Floodwater Storage | 1 pts. | |
| Stormwater Storage | 1 pts. | |
| Improves Public Use/Visibility | 1 pts. | |

Metric 3b: Restoration Activities

1. Invasive Plant Treatment Area (score one)

| | | |
|--------------|--------|---|
| 20+ acre | 7 pts. | 5 |
| 5-20 acre | 5 pts. | |
| 1.0-4.9 acre | 3 pts. | |
| <1 acre | 1 pts. | |

2. Invasive Plant Species to be Treated (score all that apply, additional species may be added)

| | | |
|---|--------|-----------|
| Phragmites australis | 2 pts. | 10 |
| Reed Canary Grass | 2 pts. | |
| Woody Species (Buckthorns, honeysuckles, rose, bittersweet, barberry, privet, etc - 2 pt ea) | 2 pts. | |
| Herbaceous Species (Japanese knotweed, garlic mustard, purple loosestrife, invasive cattail, etc - 2 pt ea) | 2 pts. | |
| Other: _____ | 2 pts. | |

3. MDEQ Potential Wetland Restoration Maps (choose the one covering the largest area of the site)

| | | |
|--|--------|----------|
| High (mapped as historic wetland and hydric soils) | 3 pts. | 0 |
| Medium (mapped as hydric soils only) | 2 pts. | |
| Low (mapped as historic wetland only) | 1 pts. | |
| Not Mapped (may be existing wetland) | 1 pts. | |

4. Installation of Structures to Stabilize Stream Channels (score one)

| | | | |
|-------------------------------------|-------------|--------|----------|
| Linear Feet of Streambed Stabilized | 300+ ft. | 7 pts. | 0 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

5. Installation of Structures to Prevent/Stop Bank Erosion (score one)

| | | | |
|--------------------------------------|-------------|--------|----------|
| Linear Feet of Streambank Stabilized | 300+ ft. | 7 pts. | 0 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

6. Floodplain Reconnection (score one)

| | | | |
|------------------------------|-------------|--------|----------|
| Two-Stage Ditch Construction | 200+ ft. | 5 pts. | 0 |
| | 100-200 ft. | 3 pts. | |
| | 1-100 ft. | 1 pts. | |

7. Best Management Practices (score one)

| | | | |
|-------------------------------------|----------------|--------|----------|
| Acreage Treated using BMP Practices | 3.0+ acres | 7 pts. | 0 |
| | 1.0-3.0 acres | 5 pts. | |
| | 0.5-0.99 acres | 3 pts. | |
| | <0.5 acres | 1 pts. | |

8. Developed BMP Types (score all that apply)

| | | | |
|--|-------------------------------|------------------|----------|
| BMPs to be Implemented (long term maintenance will be required) | Retention/Sedimentation Basin | 4 pts. | 0 |
| | Detention/Sedimentation Basin | 2 pts. | |
| | Rain Garden/Bioswale | 2 pts. | |
| | Buffer Strip (10' min.) | 2 pts. | |
| | Tree Planting | 2 pts. | |
| | Other Bank Stabilization | Pts. as assigned | |

9. Water Quality Treatment (score one)

| | | | |
|----------------------|--|--------|----------|
| Stormwater Treatment | Treat greater than first 1/2" OR more than 90% of storms | 6 pts. | 0 |
| | Treat first 1/2" of runoff OR runoff from 90% of storms | 3 pts. | |

10. Water Quantity Management (score one)

| | | | |
|---|--|--------|----------|
| Runoff Volume Management (for a 2yr, 24-hour storm) | Post-construction runoff volume = 0 (stormwater does not leave site) | 6 pts. | 0 |
| | Post-construction runoff volume < Pre-construction runoff volume | 4 pts. | |
| | Post-construction runoff volume = pre-construction runoff volume | 2 pts. | |

Metric 4: Public Funding Benefits

a. Education Opportunities (score one)

| | | |
|---|--------|----------|
| Will the site be used for future demonstration/education? | 3 pts. | 0 |
|---|--------|----------|

b. Funding Benefits (score one)

| | | | |
|--|--------|---------|----------|
| Matching dollars/resources from Grants, Landowner, donations, etc. (includes direct donation, property, labor, materials, etc.) | 100% | 12 pts. | 0 |
| | 50-99% | 9 pts. | |
| | 25-49% | 6 pts. | |
| | <25% | 3 pts. | |

| | |
|--------------------|-----------|
| TOTAL SCORE | 52 |
|--------------------|-----------|

Public Benefit Analysis

a. Public Benefits (Score one, or score two and average)

| | | | |
|--------------------------|--|--------|---|
| (A) Public Visibilty/Use | HIGH (existing maintained trails, parkland, heavy use) | 9 pts. | 3 |
| | MODERATE (open to the public, rustic trails, moderate use) | 5 pts. | |
| | LOW (not easily accessible and/or low user numbers) | 1 pts. | |

b. Costs

| | | |
|-------------------------------------|---|---------------|
| | 1. Implementation Year 1 | \$ 25,000.00 |
| | 2. 10-year Operations and Maintenance Costs (O&M) | \$ 250,000.00 |
| (B) Estimated Total Cost of Project | | \$ 275,000.00 |

| | |
|------------------------|-------|
| Public Benefit Ranking | 10.91 |
|------------------------|-------|

| | | |
|--------------------------------------|-------------------------------------|----------|
| Restoration/Enhancement Value | Total Score x Public Benefit | 6 |
|--------------------------------------|-------------------------------------|----------|

City of Rochester Hills

Restoration Project Ranking

Restoration/Enhancement Value

40

Project Name: Yates Property Stream Restoration (CR-25)

Project Location: see Sheets 1 and 2

Criteria

Value Score

Metric 1: Restoration Location and Type

a. Location (score all that apply)

| | | |
|---|--------|-----------|
| Greenspace Property | 9 pts. | 15 |
| Park Property | 7 pts. | |
| Clinton River | 5 pts. | |
| Property Adjacent to Green Space or Park Properties where restoration work would support projects on GS and Park Properties | 3 pts. | |
| Non-Green Space or Park Property (e.g., next to a river, along a public road, etc.) | 1 pts. | |

b. Restoration Type (score all that apply)

| | | |
|--------------------------|--------|-----------|
| Habitat Restoration | 7 pts. | 12 |
| Erosion/Sediment Control | 5 pts. | |
| Invasive Species Control | 3 pts. | |

Metric 2: Restoration Size and Timeline

a. Restoration Size (score one)

| | | |
|--------------------|---------|----------|
| ≥ 10 acres | 10 pts. | 2 |
| 5 to <10 acres | 7 pts. | |
| 2 to <5 acres | 5 pts. | |
| 1 to <2 acres | 3 pts. | |
| 1/4 to <1 acres | 2 pts. | |
| less than 1/4 acre | 1 pts. | |

b. Ecological Restoration Type (score one)

| | | |
|---|---------|-----------|
| Restoration can be accomplished in 1 year | 10 pts. | 10 |
| Restoration can be accomplished in 1-3 years | 7 pts. | |
| Restoration can be accomplished within 3-10 years | 3 pts. | |
| Restoration may not be possible within 10 years | 1 pts. | |

Metric 3: Expected Benefits

Metric 3a: Restoration Benefits

1. Restoration Type (score all that apply)

| | | |
|--|--------|----------|
| Wetland Restoration (expanding or creating new wetland) | 9 pts. | 5 |
| Wetland Enhancement (improving existing wetland) | 7 pts. | |
| Other Property (e.g., upland) Restoration Activities | 5 pts. | |
| BMP Enhancements (e.g., buffer strips, stormwater treatment, etc.) | 5 pts. | |

2. Increased Benefits (score all that apply)

| | | |
|--------------------------------|--------|----------|
| Wildlife Habitat Improvements | 1 pts. | 4 |
| Fish Habitat Improvements | 1 pts. | |
| Floodwater Storage | 1 pts. | |
| Stormwater Storage | 1 pts. | |
| Improves Public Use/Visibility | 1 pts. | |

Metric 3b: Restoration Activities

1. Invasive Plant Treatment Area (score one)

| | | |
|--------------|--------|----------|
| 20+ acre | 7 pts. | 0 |
| 5-20 acre | 5 pts. | |
| 1.0-4.9 acre | 3 pts. | |
| <1 acre | 1 pts. | |

2. Invasive Plant Species to be Treated (score all that apply, additional species may be added)

| | | |
|---|--------|----------|
| Phragmites australis | 2 pts. | 0 |
| Reed Canary Grass | 2 pts. | |
| Woody Species (Buckthorns, honeysuckles, rose, bittersweet, barberry, privet, etc - 2 pt ea) | 2 pts. | |
| Herbaceous Species (Japanese knotweed, garlic mustard, purple loosestrife, invasive cattail, etc - 2 pt ea) | 2 pts. | |
| Other: _____ | 2 pts. | |

3. MDEQ Potential Wetland Restoration Maps (choose the one covering the largest area of the site)

| | | |
|--|--------|----------|
| High (mapped as historic wetland and hydric soils) | 3 pts. | 0 |
| Medium (mapped as hydric soils only) | 2 pts. | |
| Low (mapped as historic wetland only) | 1 pts. | |
| Not Mapped (may be existing wetland) | 1 pts. | |

4. Installation of Structures to Stabilize Stream Channels (score one)

| | | | |
|-------------------------------------|-------------|--------|----------|
| Linear Feet of Streambed Stabilized | 300+ ft. | 7 pts. | 7 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

5. Installation of Structures to Prevent/Stop Bank Erosion (score one)

| | | | |
|--------------------------------------|-------------|--------|----------|
| Linear Feet of Streambank Stabilized | 300+ ft. | 7 pts. | 7 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

6. Floodplain Reconnection (score one)

| | | | |
|------------------------------|-------------|--------|----------|
| Two-Stage Ditch Construction | 200+ ft. | 5 pts. | 0 |
| | 100-200 ft. | 3 pts. | |
| | 1-100 ft. | 1 pts. | |

7. Best Management Practices (score one)

| | | | |
|-------------------------------------|----------------|--------|----------|
| Acreage Treated using BMP Practices | 3.0+ acres | 7 pts. | 3 |
| | 1.0-3.0 acres | 5 pts. | |
| | 0.5-0.99 acres | 3 pts. | |
| | <0.5 acres | 1 pts. | |

8. Developed BMP Types (score all that apply)

| | | | |
|--|-------------------------------|------------------|----------|
| BMPs to be Implemented (long term maintenance will be required) | Retention/Sedimentation Basin | 4 pts. | 6 |
| | Detention/Sedimentation Basin | 2 pts. | |
| | Rain Garden/Bioswale | 2 pts. | |
| | Buffer Strip (10' min.) | 2 pts. | |
| | Tree Planting | 2 pts. | |
| | Other Bank Stabilization | Pts. as assigned | |

9. Water Quality Treatment (score one)

| | | | |
|----------------------|--|--------|----------|
| Stormwater Treatment | Treat greater than first 1/2" OR more than 90% of storms | 6 pts. | 0 |
| | Treat first 1/2" of runoff OR runoff from 90% of storms | 3 pts. | |

10. Water Quantity Management (score one)

| | | | |
|---|--|--------|----------|
| Runoff Volume Management (for a 2yr, 24-hour storm) | Post-construction runoff volume = 0 (stormwater does not leave site) | 6 pts. | 6 |
| | Post-construction runoff volume < Pre-construction runoff volume | 4 pts. | |
| | Post-construction runoff volume = pre-construction runoff volume | 2 pts. | |

Metric 4: Public Funding Benefits

a. Education Opportunities (score one)

| | | |
|---|--------|----------|
| Will the site be used for future demonstration/education? | 3 pts. | 3 |
|---|--------|----------|

b. Funding Benefits (score one)

| | | | |
|--|--------|---------|----------|
| Matching dollars/resources from Grants, Landowner, donations, etc. | 100% | 12 pts. | 9 |
| (includes direct donation, property, labor, materials, etc.) | 50-99% | 9 pts. | |
| | 25-49% | 6 pts. | |
| | <25% | 3 pts. | |

| | |
|--------------------|-----------|
| TOTAL SCORE | 89 |
|--------------------|-----------|

Public Benefit Analysis

a. Public Benefits (Score one, or score two and average)

| | | | |
|--------------------------|--|--------|---|
| (A) Public Visibilty/Use | HIGH (existing maintained trails, parkland, heavy use) | 9 pts. | 9 |
| | MODERATE (open to the public, rustic trails, moderate use) | 5 pts. | |
| | LOW (not easily accessible and/or low user numbers) | 1 pts. | |

b. Costs

| | | | |
|-------------------------------------|---|----|------------|
| | 1. Implementation Year 1 | \$ | 200,000.00 |
| | 2. 10-year Operations and Maintenance Costs (O&M) | \$ | - |
| (B) Estimated Total Cost of Project | | \$ | 200,000.00 |

| | |
|------------------------|-------|
| Public Benefit Ranking | 45.00 |
|------------------------|-------|

| | | |
|--------------------------------------|-------------------------------------|-----------|
| Restoration/Enhancement Value | Total Score x Public Benefit | 40 |
|--------------------------------------|-------------------------------------|-----------|

City of Rochester Hills

Restoration Project Ranking

Restoration/Enhancement Value

29

Project Name: Avon Nature Area Stream Restoration (CR-17)

Project Location: see Sheets 1 and 2

Criteria

Value Score

Metric 1: Restoration Location and Type

a. Location (score all that apply)

| | | |
|---|--------|----|
| Greenspace Property | 9 pts. | 12 |
| Park Property | 7 pts. | |
| Clinton River | 5 pts. | |
| Property Adjacent to Green Space or Park Properties where restoration work would support projects on GS and Park Properties | 3 pts. | |
| Non-Green Space or Park Property (e.g., next to a river, along a public road, etc.) | 1 pts. | |

b. Restoration Type (score all that apply)

| | | |
|--------------------------|--------|----|
| Habitat Restoration | 7 pts. | 12 |
| Erosion/Sediment Control | 5 pts. | |
| Invasive Species Control | 3 pts. | |

Metric 2: Restoration Size and Timeline

a. Restoration Size (score one)

| | | |
|--------------------|---------|---|
| ≥ 10 acres | 10 pts. | 1 |
| 5 to <10 acres | 7 pts. | |
| 2 to <5 acres | 5 pts. | |
| 1 to <2 acres | 3 pts. | |
| 1/4 to <1 acres | 2 pts. | |
| less than 1/4 acre | 1 pts. | |

b. Ecological Restoration Type (score one)

| | | |
|---|---------|----|
| Restoration can be accomplished in 1 year | 10 pts. | 10 |
| Restoration can be accomplished in 1-3 years | 7 pts. | |
| Restoration can be accomplished within 3-10 years | 3 pts. | |
| Restoration may not be possible within 10 years | 1 pts. | |

Metric 3: Expected Benefits

Metric 3a: Restoration Benefits

1. Restoration Type (score all that apply)

| | | |
|--|--------|---|
| Wetland Restoration (expanding or creating new wetland) | 9 pts. | 5 |
| Wetland Enhancement (improving existing wetland) | 7 pts. | |
| Other Property (e.g., upland) Restoration Activities | 5 pts. | |
| BMP Enhancements (e.g., buffer strips, stormwater treatment, etc.) | 5 pts. | |

2. Increased Benefits (score all that apply)

| | | |
|--------------------------------|--------|---|
| Wildlife Habitat Improvements | 1 pts. | 2 |
| Fish Habitat Improvements | 1 pts. | |
| Floodwater Storage | 1 pts. | |
| Stormwater Storage | 1 pts. | |
| Improves Public Use/Visibility | 1 pts. | |

Metric 3b: Restoration Activities

1. Invasive Plant Treatment Area (score one)

| | | |
|--------------|--------|---|
| 20+ acre | 7 pts. | 0 |
| 5-20 acre | 5 pts. | |
| 1.0-4.9 acre | 3 pts. | |
| <1 acre | 1 pts. | |

2. Invasive Plant Species to be Treated (score all that apply, additional species may be added)

| | | |
|---|--------|----------|
| Phragmites australis | 2 pts. | 0 |
| Reed Canary Grass | 2 pts. | |
| Woody Species (Buckthorns, honeysuckles, rose, bittersweet, barberry, privet, etc - 2 pt ea) | 2 pts. | |
| Herbaceous Species (Japanese knotweed, garlic mustard, purple loosestrife, invasive cattail, etc - 2 pt ea) | 2 pts. | |
| Other: _____ | 2 pts. | |

3. MDEQ Potential Wetland Restoration Maps (choose the one covering the largest area of the site)

| | | |
|--|--------|----------|
| High (mapped as historic wetland and hydric soils) | 3 pts. | 0 |
| Medium (mapped as hydric soils only) | 2 pts. | |
| Low (mapped as historic wetland only) | 1 pts. | |
| Not Mapped (may be existing wetland) | 1 pts. | |

4. Installation of Structures to Stabilize Stream Channels (score one)

| | | | |
|-------------------------------------|-------------|--------|----------|
| Linear Feet of Streambed Stabilized | 300+ ft. | 7 pts. | 5 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

5. Installation of Structures to Prevent/Stop Bank Erosion (score one)

| | | | |
|--------------------------------------|-------------|--------|----------|
| Linear Feet of Streambank Stabilized | 300+ ft. | 7 pts. | 5 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

6. Floodplain Reconnection (score one)

| | | | |
|------------------------------|-------------|--------|----------|
| Two-Stage Ditch Construction | 200+ ft. | 5 pts. | 0 |
| | 100-200 ft. | 3 pts. | |
| | 1-100 ft. | 1 pts. | |

7. Best Management Practices (score one)

| | | | |
|-------------------------------------|----------------|--------|----------|
| Acreage Treated using BMP Practices | 3.0+ acres | 7 pts. | 1 |
| | 1.0-3.0 acres | 5 pts. | |
| | 0.5-0.99 acres | 3 pts. | |
| | <0.5 acres | 1 pts. | |

8. Developed BMP Types (score all that apply)

| | | | |
|--|-------------------------------|------------------|----------|
| BMPs to be Implemented (long term maintenance will be required) | Retention/Sedimentation Basin | 4 pts. | 4 |
| | Detention/Sedimentation Basin | 2 pts. | |
| | Rain Garden/Bioswale | 2 pts. | |
| | Buffer Strip (10' min.) | 2 pts. | |
| | Tree Planting | 2 pts. | |
| | Other Bank Stabilization | Pts. as assigned | |

9. Water Quality Treatment (score one)

| | | | |
|----------------------|--|--------|----------|
| Stormwater Treatment | Treat greater than first 1/2" OR more than 90% of storms | 6 pts. | 0 |
| | Treat first 1/2" of runoff OR runoff from 90% of storms | 3 pts. | |

10. Water Quantity Management (score one)

| | | | |
|---|--|--------|----------|
| Runoff Volume Management (for a 2yr, 24-hour storm) | Post-construction runoff volume = 0 (stormwater does not leave site) | 6 pts. | 6 |
| | Post-construction runoff volume < Pre-construction runoff volume | 4 pts. | |
| | Post-construction runoff volume = pre-construction runoff volume | 2 pts. | |

Metric 4: Public Funding Benefits

a. Education Opportunities (score one)

| | | |
|---|--------|----------|
| Will the site be used for future demonstration/education? | 3 pts. | 3 |
|---|--------|----------|

b. Funding Benefits (score one)

| | | | |
|--|--------|---------|----------|
| Matching dollars/resources from Grants, Landowner, donations, etc. | 100% | 12 pts. | 6 |
| (includes direct donation, property, labor, materials, etc.) | 50-99% | 9 pts. | |
| | 25-49% | 6 pts. | |
| | <25% | 3 pts. | |

| | |
|--------------------|-----------|
| TOTAL SCORE | 72 |
|--------------------|-----------|

Public Benefit Analysis

a. Public Benefits (Score one, or score two and average)

| | | | |
|--------------------------|--|--------|---|
| (A) Public Visibilty/Use | HIGH (existing maintained trails, parkland, heavy use) | 9 pts. | 7 |
| | MODERATE (open to the public, rustic trails, moderate use) | 5 pts. | |
| | LOW (not easily accessible and/or low user numbers) | 1 pts. | |

b. Costs

| | | | |
|-------------------------------------|---|----|------------|
| | 1. Implementation Year 1 | \$ | 175,000.00 |
| | 2. 10-year Operations and Maintenance Costs (O&M) | \$ | - |
| (B) Estimated Total Cost of Project | | \$ | 175,000.00 |

| | |
|------------------------|-------|
| Public Benefit Ranking | 40.00 |
|------------------------|-------|

| | | |
|--------------------------------------|-------------------------------------|-----------|
| Restoration/Enhancement Value | Total Score x Public Benefit | 29 |
|--------------------------------------|-------------------------------------|-----------|

City of Rochester Hills

Restoration Project Ranking

Restoration/Enhancement Value

27

Project Name: Avon Nature Area Stream Restoration (CR-16)

Project Location: see Sheets 1 and 2

Criteria

Value Score

Metric 1: Restoration Location and Type

a. Location (score all that apply)

| | | |
|---|--------|-----------|
| Greenspace Property | 9 pts. | 12 |
| Park Property | 7 pts. | |
| Clinton River | 5 pts. | |
| Property Adjacent to Green Space or Park Properties where restoration work would support projects on GS and Park Properties | 3 pts. | |
| Non-Green Space or Park Property (e.g., next to a river, along a public road, etc.) | 1 pts. | |

b. Restoration Type (score all that apply)

| | | |
|--------------------------|--------|-----------|
| Habitat Restoration | 7 pts. | 12 |
| Erosion/Sediment Control | 5 pts. | |
| Invasive Species Control | 3 pts. | |

Metric 2: Restoration Size and Timeline

a. Restoration Size (score one)

| | | |
|--------------------|---------|----------|
| ≥ 10 acres | 10 pts. | 1 |
| 5 to <10 acres | 7 pts. | |
| 2 to <5 acres | 5 pts. | |
| 1 to <2 acres | 3 pts. | |
| 1/4 to <1 acres | 2 pts. | |
| less than 1/4 acre | 1 pts. | |

b. Ecological Restoration Type (score one)

| | | |
|---|---------|-----------|
| Restoration can be accomplished in 1 year | 10 pts. | 10 |
| Restoration can be accomplished in 1-3 years | 7 pts. | |
| Restoration can be accomplished within 3-10 years | 3 pts. | |
| Restoration may not be possible within 10 years | 1 pts. | |

Metric 3: Expected Benefits

Metric 3a: Restoration Benefits

1. Restoration Type (score all that apply)

| | | |
|--|--------|----------|
| Wetland Restoration (expanding or creating new wetland) | 9 pts. | 5 |
| Wetland Enhancement (improving existing wetland) | 7 pts. | |
| Other Property (e.g., upland) Restoration Activities | 5 pts. | |
| BMP Enhancements (e.g., buffer strips, stormwater treatment, etc.) | 5 pts. | |

2. Increased Benefits (score all that apply)

| | | |
|--------------------------------|--------|----------|
| Wildlife Habitat Improvements | 1 pts. | 2 |
| Fish Habitat Improvements | 1 pts. | |
| Floodwater Storage | 1 pts. | |
| Stormwater Storage | 1 pts. | |
| Improves Public Use/Visibility | 1 pts. | |

Metric 3b: Restoration Activities

1. Invasive Plant Treatment Area (score one)

| | | |
|--------------|--------|----------|
| 20+ acre | 7 pts. | 0 |
| 5-20 acre | 5 pts. | |
| 1.0-4.9 acre | 3 pts. | |
| <1 acre | 1 pts. | |

2. Invasive Plant Species to be Treated (score all that apply, additional species may be added)

| | | |
|---|--------|----------|
| Phragmites australis | 2 pts. | 0 |
| Reed Canary Grass | 2 pts. | |
| Woody Species (Buckthorns, honeysuckles, rose, bittersweet, barberry, privet, etc - 2 pt ea) | 2 pts. | |
| Herbaceous Species (Japanese knotweed, garlic mustard, purple loosestrife, invasive cattail, etc - 2 pt ea) | 2 pts. | |
| Other: _____ | 2 pts. | |

3. MDEQ Potential Wetland Restoration Maps (choose the one covering the largest area of the site)

| | | |
|--|--------|----------|
| High (mapped as historic wetland and hydric soils) | 3 pts. | 0 |
| Medium (mapped as hydric soils only) | 2 pts. | |
| Low (mapped as historic wetland only) | 1 pts. | |
| Not Mapped (may be existing wetland) | 1 pts. | |

4. Installation of Structures to Stabilize Stream Channels (score one)

| | | | |
|-------------------------------------|-------------|--------|----------|
| Linear Feet of Streambed Stabilized | 300+ ft. | 7 pts. | 3 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

5. Installation of Structures to Prevent/Stop Bank Erosion (score one)

| | | | |
|--------------------------------------|-------------|--------|----------|
| Linear Feet of Streambank Stabilized | 300+ ft. | 7 pts. | 3 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

6. Floodplain Reconnection (score one)

| | | | |
|------------------------------|-------------|--------|----------|
| Two-Stage Ditch Construction | 200+ ft. | 5 pts. | 0 |
| | 100-200 ft. | 3 pts. | |
| | 1-100 ft. | 1 pts. | |

7. Best Management Practices (score one)

| | | | |
|-------------------------------------|----------------|--------|----------|
| Acreage Treated using BMP Practices | 3.0+ acres | 7 pts. | 1 |
| | 1.0-3.0 acres | 5 pts. | |
| | 0.5-0.99 acres | 3 pts. | |
| | <0.5 acres | 1 pts. | |

8. Developed BMP Types (score all that apply)

| | | | |
|--|-------------------------------|------------------|----------|
| BMPs to be Implemented (long term maintenance will be required) | Retention/Sedimentation Basin | 4 pts. | 4 |
| | Detention/Sedimentation Basin | 2 pts. | |
| | Rain Garden/Bioswale | 2 pts. | |
| | Buffer Strip (10' min.) | 2 pts. | |
| | Tree Planting | 2 pts. | |
| | Other Bank Stabilization | Pts. as assigned | |

9. Water Quality Treatment (score one)

| | | | |
|----------------------|--|--------|----------|
| Stormwater Treatment | Treat greater than first 1/2" OR more than 90% of storms | 6 pts. | 0 |
| | Treat first 1/2" of runoff OR runoff from 90% of storms | 3 pts. | |

10. Water Quantity Management (score one)

| | | | |
|---|--|--------|----------|
| Runoff Volume Management (for a 2yr, 24-hour storm) | Post-construction runoff volume = 0 (stormwater does not leave site) | 6 pts. | 6 |
| | Post-construction runoff volume < Pre-construction runoff volume | 4 pts. | |
| | Post-construction runoff volume = pre-construction runoff volume | 2 pts. | |

Metric 4: Public Funding Benefits

a. Education Opportunities (score one)

| | | |
|---|--------|----------|
| Will the site be used for future demonstration/education? | 3 pts. | 3 |
|---|--------|----------|

b. Funding Benefits (score one)

| | | | |
|--|--------|---------|----------|
| Matching dollars/resources from Grants, Landowner, donations, etc. | 100% | 12 pts. | 6 |
| (includes direct donation, property, labor, materials, etc.) | 50-99% | 9 pts. | |
| | 25-49% | 6 pts. | |
| | <25% | 3 pts. | |

| | |
|--------------------|-----------|
| TOTAL SCORE | 68 |
|--------------------|-----------|

Public Benefit Analysis

a. Public Benefits (Score one, or score two and average)

| | | | |
|--------------------------|--|--------|---|
| (A) Public Visibilty/Use | HIGH (existing maintained trails, parkland, heavy use) | 9 pts. | 7 |
| | MODERATE (open to the public, rustic trails, moderate use) | 5 pts. | |
| | LOW (not easily accessible and/or low user numbers) | 1 pts. | |

b. Costs

| | | | |
|-------------------------------------|---|----|------------|
| | 1. Implementation Year 1 | \$ | 175,000.00 |
| | 2. 10-year Operations and Maintenance Costs (O&M) | \$ | - |
| (B) Estimated Total Cost of Project | | \$ | 175,000.00 |

| | |
|------------------------|-------|
| Public Benefit Ranking | 40.00 |
|------------------------|-------|

| | | |
|--------------------------------------|-------------------------------------|-----------|
| Restoration/Enhancement Value | Total Score x Public Benefit | 27 |
|--------------------------------------|-------------------------------------|-----------|

City of Rochester Hills

Restoration Project Ranking

Restoration/Enhancement Value

26

Project Name: Riverbend Park Stream Restoration (CR-7)

Project Location: see Sheets 1 and 2

Criteria

Value Score

Metric 1: Restoration Location and Type

a. Location (score all that apply)

| | | |
|---|--------|-----------|
| Greenspace Property | 9 pts. | 12 |
| Park Property | 7 pts. | |
| Clinton River | 5 pts. | |
| Property Adjacent to Green Space or Park Properties where restoration work would support projects on GS and Park Properties | 3 pts. | |
| Non-Green Space or Park Property (e.g., next to a river, along a public road, etc.) | 1 pts. | |

b. Restoration Type (score all that apply)

| | | |
|--------------------------|--------|-----------|
| Habitat Restoration | 7 pts. | 12 |
| Erosion/Sediment Control | 5 pts. | |
| Invasive Species Control | 3 pts. | |

Metric 2: Restoration Size and Timeline

a. Restoration Size (score one)

| | | |
|--------------------|---------|----------|
| ≥ 10 acres | 10 pts. | 1 |
| 5 to <10 acres | 7 pts. | |
| 2 to <5 acres | 5 pts. | |
| 1 to <2 acres | 3 pts. | |
| 1/4 to <1 acres | 2 pts. | |
| less than 1/4 acre | 1 pts. | |

b. Ecological Restoration Type (score one)

| | | |
|---|---------|-----------|
| Restoration can be accomplished in 1 year | 10 pts. | 10 |
| Restoration can be accomplished in 1-3 years | 7 pts. | |
| Restoration can be accomplished within 3-10 years | 3 pts. | |
| Restoration may not be possible within 10 years | 1 pts. | |

Metric 3: Expected Benefits

Metric 3a: Restoration Benefits

1. Restoration Type (score all that apply)

| | | |
|--|--------|----------|
| Wetland Restoration (expanding or creating new wetland) | 9 pts. | 5 |
| Wetland Enhancement (improving existing wetland) | 7 pts. | |
| Other Property (e.g., upland) Restoration Activities | 5 pts. | |
| BMP Enhancements (e.g., buffer strips, stormwater treatment, etc.) | 5 pts. | |

2. Increased Benefits (score all that apply)

| | | |
|--------------------------------|--------|----------|
| Wildlife Habitat Improvements | 1 pts. | 2 |
| Fish Habitat Improvements | 1 pts. | |
| Floodwater Storage | 1 pts. | |
| Stormwater Storage | 1 pts. | |
| Improves Public Use/Visibility | 1 pts. | |

Metric 3b: Restoration Activities

1. Invasive Plant Treatment Area (score one)

| | | |
|--------------|--------|----------|
| 20+ acre | 7 pts. | 0 |
| 5-20 acre | 5 pts. | |
| 1.0-4.9 acre | 3 pts. | |
| <1 acre | 1 pts. | |

2. Invasive Plant Species to be Treated (score all that apply, additional species may be added)

| | | |
|---|--------|----------|
| Phragmites australis | 2 pts. | 0 |
| Reed Canary Grass | 2 pts. | |
| Woody Species (Buckthorns, honeysuckles, rose, bittersweet, barberry, privet, etc - 2 pt ea) | 2 pts. | |
| Herbaceous Species (Japanese knotweed, garlic mustard, purple loosestrife, invasive cattail, etc - 2 pt ea) | 2 pts. | |
| Other: _____ | 2 pts. | |

3. MDEQ Potential Wetland Restoration Maps (choose the one covering the largest area of the site)

| | | |
|--|--------|----------|
| High (mapped as historic wetland and hydric soils) | 3 pts. | 0 |
| Medium (mapped as hydric soils only) | 2 pts. | |
| Low (mapped as historic wetland only) | 1 pts. | |
| Not Mapped (may be existing wetland) | 1 pts. | |

4. Installation of Structures to Stabilize Stream Channels (score one)

| | | | |
|-------------------------------------|-------------|--------|----------|
| Linear Feet of Streambed Stabilized | 300+ ft. | 7 pts. | 3 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

5. Installation of Structures to Prevent/Stop Bank Erosion (score one)

| | | | |
|--------------------------------------|-------------|--------|----------|
| Linear Feet of Streambank Stabilized | 300+ ft. | 7 pts. | 3 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

6. Floodplain Reconnection (score one)

| | | | |
|------------------------------|-------------|--------|----------|
| Two-Stage Ditch Construction | 200+ ft. | 5 pts. | 0 |
| | 100-200 ft. | 3 pts. | |
| | 1-100 ft. | 1 pts. | |

7. Best Management Practices (score one)

| | | | |
|-------------------------------------|----------------|--------|----------|
| Acreage Treated using BMP Practices | 3.0+ acres | 7 pts. | 1 |
| | 1.0-3.0 acres | 5 pts. | |
| | 0.5-0.99 acres | 3 pts. | |
| | <0.5 acres | 1 pts. | |

8. Developed BMP Types (score all that apply)

| | | | |
|--|-------------------------------|------------------|----------|
| BMPs to be Implemented (long term maintenance will be required) | Retention/Sedimentation Basin | 4 pts. | 4 |
| | Detention/Sedimentation Basin | 2 pts. | |
| | Rain Garden/Bioswale | 2 pts. | |
| | Buffer Strip (10' min.) | 2 pts. | |
| | Tree Planting | 2 pts. | |
| | Other Bank Stabilization | Pts. as assigned | |

9. Water Quality Treatment (score one)

| | | | |
|----------------------|--|--------|----------|
| Stormwater Treatment | Treat greater than first 1/2" OR more than 90% of storms | 6 pts. | 0 |
| | Treat first 1/2" of runoff OR runoff from 90% of storms | 3 pts. | |

10. Water Quantity Management (score one)

| | | | |
|---|--|--------|----------|
| Runoff Volume Management (for a 2yr, 24-hour storm) | Post-construction runoff volume = 0 (stormwater does not leave site) | 6 pts. | 6 |
| | Post-construction runoff volume < Pre-construction runoff volume | 4 pts. | |
| | Post-construction runoff volume = pre-construction runoff volume | 2 pts. | |

Metric 4: Public Funding Benefits

a. Education Opportunities (score one)

| | | |
|---|--------|----------|
| Will the site be used for future demonstration/education? | 3 pts. | 0 |
|---|--------|----------|

b. Funding Benefits (score one)

| | | | |
|--|--------|---------|----------|
| Matching dollars/resources from Grants, Landowner, donations, etc. | 100% | 12 pts. | 6 |
| (includes direct donation, property, labor, materials, etc.) | 50-99% | 9 pts. | |
| | 25-49% | 6 pts. | |
| | <25% | 3 pts. | |

| | |
|--------------------|-----------|
| TOTAL SCORE | 65 |
|--------------------|-----------|

Public Benefit Analysis

a. Public Benefits (Score one, or score two and average)

| | | | |
|--------------------------|--|--------|---|
| (A) Public Visibilty/Use | HIGH (existing maintained trails, parkland, heavy use) | 9 pts. | 7 |
| | MODERATE (open to the public, rustic trails, moderate use) | 5 pts. | |
| | LOW (not easily accessible and/or low user numbers) | 1 pts. | |

b. Costs

| | | | |
|-------------------------------------|---|----|------------|
| | 1. Implementation Year 1 | \$ | 175,000.00 |
| | 2. 10-year Operations and Maintenance Costs (O&M) | \$ | - |
| (B) Estimated Total Cost of Project | | \$ | 175,000.00 |

| | |
|------------------------|-------|
| Public Benefit Ranking | 40.00 |
|------------------------|-------|

| | | |
|--------------------------------------|-------------------------------------|-----------|
| Restoration/Enhancement Value | Total Score x Public Benefit | 26 |
|--------------------------------------|-------------------------------------|-----------|

City of Rochester Hills

Restoration Project Ranking

Restoration/Enhancement Value

23

Project Name: Bloomer Park Stream Restoration (CR-24)

Project Location: see Sheets 1 and 2

Criteria

Value Score

Metric 1: Restoration Location and Type

a. Location (score all that apply)

| | | |
|---|--------|-----------|
| Greenspace Property | 9 pts. | 12 |
| Park Property | 7 pts. | |
| Clinton River | 5 pts. | |
| Property Adjacent to Green Space or Park Properties where restoration work would support projects on GS and Park Properties | 3 pts. | |
| Non-Green Space or Park Property (e.g., next to a river, along a public road, etc.) | 1 pts. | |

b. Restoration Type (score all that apply)

| | | |
|--------------------------|--------|-----------|
| Habitat Restoration | 7 pts. | 12 |
| Erosion/Sediment Control | 5 pts. | |
| Invasive Species Control | 3 pts. | |

Metric 2: Restoration Size and Timeline

a. Restoration Size (score one)

| | | |
|--------------------|---------|----------|
| ≥ 10 acres | 10 pts. | 1 |
| 5 to <10 acres | 7 pts. | |
| 2 to <5 acres | 5 pts. | |
| 1 to <2 acres | 3 pts. | |
| 1/4 to <1 acres | 2 pts. | |
| less than 1/4 acre | 1 pts. | |

b. Ecological Restoration Type (score one)

| | | |
|---|---------|-----------|
| Restoration can be accomplished in 1 year | 10 pts. | 10 |
| Restoration can be accomplished in 1-3 years | 7 pts. | |
| Restoration can be accomplished within 3-10 years | 3 pts. | |
| Restoration may not be possible within 10 years | 1 pts. | |

Metric 3: Expected Benefits

Metric 3a: Restoration Benefits

1. Restoration Type (score all that apply)

| | | |
|--|--------|----------|
| Wetland Restoration (expanding or creating new wetland) | 9 pts. | 5 |
| Wetland Enhancement (improving existing wetland) | 7 pts. | |
| Other Property (e.g., upland) Restoration Activities | 5 pts. | |
| BMP Enhancements (e.g., buffer strips, stormwater treatment, etc.) | 5 pts. | |

2. Increased Benefits (score all that apply)

| | | |
|--------------------------------|--------|----------|
| Wildlife Habitat Improvements | 1 pts. | 2 |
| Fish Habitat Improvements | 1 pts. | |
| Floodwater Storage | 1 pts. | |
| Stormwater Storage | 1 pts. | |
| Improves Public Use/Visibility | 1 pts. | |

Metric 3b: Restoration Activities

1. Invasive Plant Treatment Area (score one)

| | | |
|--------------|--------|----------|
| 20+ acre | 7 pts. | 0 |
| 5-20 acre | 5 pts. | |
| 1.0-4.9 acre | 3 pts. | |
| <1 acre | 1 pts. | |

2. Invasive Plant Species to be Treated (score all that apply, additional species may be added)

| | | |
|---|--------|----------|
| Phragmites australis | 2 pts. | 0 |
| Reed Canary Grass | 2 pts. | |
| Woody Species (Buckthorns, honeysuckles, rose, bittersweet, barberry, privet, etc - 2 pt ea) | 2 pts. | |
| Herbaceous Species (Japanese knotweed, garlic mustard, purple loosestrife, invasive cattail, etc - 2 pt ea) | 2 pts. | |
| Other: _____ | 2 pts. | |

3. MDEQ Potential Wetland Restoration Maps (choose the one covering the largest area of the site)

| | | |
|--|--------|----------|
| High (mapped as historic wetland and hydric soils) | 3 pts. | 0 |
| Medium (mapped as hydric soils only) | 2 pts. | |
| Low (mapped as historic wetland only) | 1 pts. | |
| Not Mapped (may be existing wetland) | 1 pts. | |

4. Installation of Structures to Stabilize Stream Channels (score one)

| | | | |
|-------------------------------------|-------------|--------|----------|
| Linear Feet of Streambed Stabilized | 300+ ft. | 7 pts. | 0 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

5. Installation of Structures to Prevent/Stop Bank Erosion (score one)

| | | | |
|--------------------------------------|-------------|--------|----------|
| Linear Feet of Streambank Stabilized | 300+ ft. | 7 pts. | 3 |
| | 100-300 ft. | 5 pts. | |
| | <100 ft. | 3 pts. | |

6. Floodplain Reconnection (score one)

| | | | |
|------------------------------|-------------|--------|----------|
| Two-Stage Ditch Construction | 200+ ft. | 5 pts. | 0 |
| | 100-200 ft. | 3 pts. | |
| | 1-100 ft. | 1 pts. | |

7. Best Management Practices (score one)

| | | | |
|-------------------------------------|----------------|--------|----------|
| Acreage Treated using BMP Practices | 3.0+ acres | 7 pts. | 1 |
| | 1.0-3.0 acres | 5 pts. | |
| | 0.5-0.99 acres | 3 pts. | |
| | <0.5 acres | 1 pts. | |

8. Developed BMP Types (score all that apply)

| | | | |
|--|-------------------------------|------------------|----------|
| BMPs to be Implemented (long term maintenance will be required) | Retention/Sedimentation Basin | 4 pts. | 2 |
| | Detention/Sedimentation Basin | 2 pts. | |
| | Rain Garden/Bioswale | 2 pts. | |
| | Buffer Strip (10' min.) | 2 pts. | |
| | Tree Planting | 2 pts. | |
| | Other Bank Stabilization | Pts. as assigned | |

9. Water Quality Treatment (score one)

| | | | |
|----------------------|--|--------|----------|
| Stormwater Treatment | Treat greater than first 1/2" OR more than 90% of storms | 6 pts. | 0 |
| | Treat first 1/2" of runoff OR runoff from 90% of storms | 3 pts. | |

10. Water Quantity Management (score one)

| | | | |
|---|--|--------|----------|
| Runoff Volume Management (for a 2yr, 24-hour storm) | Post-construction runoff volume = 0 (stormwater does not leave site) | 6 pts. | 6 |
| | Post-construction runoff volume < Pre-construction runoff volume | 4 pts. | |
| | Post-construction runoff volume = pre-construction runoff volume | 2 pts. | |

Metric 4: Public Funding Benefits

a. Education Opportunities (score one)

| | | |
|---|--------|----------|
| Will the site be used for future demonstration/education? | 3 pts. | 0 |
|---|--------|----------|

b. Funding Benefits (score one)

| | | | |
|--|--------|---------|----------|
| Matching dollars/resources from Grants, Landowner, donations, etc. | 100% | 12 pts. | 3 |
| (includes direct donation, property, labor, materials, etc.) | 50-99% | 9 pts. | |
| | 25-49% | 6 pts. | |
| | <25% | 3 pts. | |

| | |
|--------------------|-----------|
| TOTAL SCORE | 57 |
|--------------------|-----------|

Public Benefit Analysis

a. Public Benefits (Score one, or score two and average)

| | | | |
|--------------------------|--|--------|---|
| (A) Public Visibilty/Use | HIGH (existing maintained trails, parkland, heavy use) | 9 pts. | 3 |
| | MODERATE (open to the public, rustic trails, moderate use) | 5 pts. | |
| | LOW (not easily accessible and/or low user numbers) | 1 pts. | |

b. Costs

| | | | |
|-------------------------------------|---|----|-----------|
| | 1. Implementation Year 1 | \$ | 75,000.00 |
| | 2. 10-year Operations and Maintenance Costs (O&M) | \$ | - |
| (B) Estimated Total Cost of Project | | \$ | 75,000.00 |

| | |
|------------------------|-------|
| Public Benefit Ranking | 40.00 |
|------------------------|-------|

| | | |
|--------------------------------------|-------------------------------------|-----------|
| Restoration/Enhancement Value | Total Score x Public Benefit | 23 |
|--------------------------------------|-------------------------------------|-----------|