

Watershed Plan for the North Chili Tributary of Black Creek, O-117-19-7

Table of Contents

	Page
I. Introduction	1
A. Background	1
1. Drainage Concerns	1
a. Summary	1
b. List of Areas of Concern	1
2. Water Quality Concerns	2
a. Citizen Concerns about Water Quality	2
b. Government Concerns about Water Quality	2
B. Watershed Plan Purpose	4
C. Plan Development Participants and Contributors	4
II. Goals	9
A. Drainage Goals and Strategies	9
B. Water Quality Goal	9
III. The Watershed	11
A. Watershed Description	11
1. Environmental Maps	11
2. Groundwater Resources	11
B. Description of Major Land Uses, Locations and Percentage of Imperviousness	11
1. Land Use Maps	11
2. Undeveloped/Agriculture	11
3. Percentage of Impervious Surfaces	12
IV. Water Infrastructure Existing Conditions and Problems	23
A. Sanitary Sewer Management	23
1. Unauthorized Stormwater Connections to Sanitary Sewers	23
2. Infiltration and Inflow (I/I)	24
3. Sanitary Sewer Lines	24
B. Onsite Wastewater Management	25
1. Davis Road	25
2. King Road	25
3. Union Street	25
4. Paul Road	27
C. Stormwater Runoff Management	27

V. Analysis of Potential Actions	29
A. Stormwater Management Alternatives	29
1. Regional Planning and Development	29
a. Location	29
b. Capacity	29
c. Costs	30
d. Funding Strategy	30
2. Onsite Stormwater Management for New Development	30
3. Stormwater Management Facility Maintenance	30
a. Stormwater Wetlands	31
b. Storm Sewers	32
c. Open Channels	32
d. Water Quality Inlets	33
4. Installation or Modification of Stormwater Facilities in Areas of Existing Development	33
5. Elimination of Inflow	33
6. Elimination of Infiltration	33
B. Other Recommendations	34
1. Educational Opportunities	34
a. Educational Methods	34
b. Sources of Information and Phone Numbers	35
2. Monitoring	40
a. Water Quality and Quantity	40
b. Health and Acreage of Existing Natural Wetlands and Constructed Wetlands in Mitigation Banking	40
c. Adherence to Erosion and Sediment Control Plans at Construction Sites	41
d. Land Use Types and Amount of Impervious Surface	41
e. Citizen Complaints; Public Opinion	41
f. Failing Onsite Sewage Disposal (Septic) Systems	41
3. Regulatory Changes	42
a. Preservation of Natural Vegetation in Stream Corridors	42
b. Preservation of Natural Wetlands	42
c. Preparation of Stormwater Pollution Prevention Plans for Construction Projects as Part of the Town Development Review Process	43
d. Water Quality Fee in Place of Onsite Stormwater Management	44
e. Minimization of Impervious Surfaces	44
f. Town Ordinance Prohibiting Sump Pump Discharge into Sanitary Sewers	44
g. Town of Chili Fill and Excavation Permits	45
4. Other Potential Actions	46
a. Annual Reports on Watershed Monitoring	46
b. Involvement of Representatives of the Towns of Riga and Ogden on the Existing Watershed Planning Team	47
c. Repair or Replacement of Failing Onsite Sewage Disposal (Septic) Systems	48
d. Storm Sewer Construction	48

e. Extension of Sanitary Sewer Lines	49
f. Elimination of Commercial Floor Drains Discharging to Stormwater Systems; Ensuring Proper Use of Oil/Water Separators	50
g. Hubbard Park Tributary Improvement	51
h. Improved Maintenance of Roadside Ditches	51
i. Prepare a Watershed Plan for the Entire Black Creek Watershed	52
VI. Recommendations	53
A. Process for Making Recommendations	53
B. Recommendations	53
VII. Implementation Strategy	55
VIII. Public Involvement	67
A. Public Involvement Need and Purpose	67
1. Need for Public Involvement	67
2. Public Involvement Purpose	67
B. Public Involvement Strategies	67
1. Public Meeting	67
2. Response Summary	67
IX. Appendices	
A. Excerpts from Monroe County Pure Waters Sewer Use Law	A-1
B. Operation and Maintenance Inspection Report for Stormwater Management Facilities	B-1
C. Public Information Meeting Response Summary	C-1
D. State Environmental Quality Review	D-1

Maps

1. Watershed Location	v
2. Watershed Boundary	vii
3. New York State Designated Wetlands	15
4. Federal Wetlands	16
5. Topography: North	17
6. Topography: South	18
7. Hydric and Potentially Hydric Soils	19
8. Existing Land Use	20
9. Waste Sites	21
10. Sanitary Sewers	22

Figure

1. Relationship Between Impervious Cover and Stream Quality; Definitions for Terms Used in Figure 1	6
---	---

Tables

1. 1997 Chili Land Use and Potential Build Out Land Use Based on Existing Zoning and Impervious Surfaces Estimates	13
2. Union Processing Discharge #1, Biochemical Oxygen Demand and Flow Data, 1997	26
3. Union Processing, Discharge #3, 1997 Flow Data in Gallons Per Day	27
4. Educational Opportunities	36
5. Sources of Educational Materials	37
6. Annual Report Topics	46
7. Recommendations	54
8. Onsite Stormwater Management for New Development	56
9. Elimination of Inflow	57
10. Elimination of Infiltration	58
11. Education on General Water Quality Topics	59
12. Intensive Education on Recommended Actions	60
13. Monitoring of Adherence to Erosion and Sediment Control Plans at Construction Sites	61
14. Monitoring of Failing Onsite Sewage Disposal Systems	62
15. Elimination of Commercial Floor Drains Discharging to Stormwater Systems; Ensuring Proper Use of Oil/Water Separators	63
16. Hubbard Park Tributary Improvement	64
17. Preparation of a Watershed Plan for the Entire Black Creek Watershed	65