Table of Contents Clappison-Grindstone Heritage Lands Management Plan - August 2016

1.0	Introduction	2
1.1	Study Background	2
1.2	Management Plan Purpose and Process	5
1.3	Project Governance and Project Team	6
2.0	Characterization of the Clappison-Grindstone Heritage Lands	6
2.1	General Overview	7
2.2	Planning Policy and Regulatory Framework	7
2.3	Recreation	8
2.4	Natural Heritage	10
2	.4.1 Physiography and Surface Geology	10
2	.4.2 Surface Water	10
2	.4.3 Vegetation Communities	10
2	.4.4 Flora	13
2	.4.5 Fauna	13
2	.4.6 Natural Heritage Corridors	13
2	.4.7 Natural Heritage Summary	14
2.5	Cultural Heritage	14
3.0	Management Issues	19
3.1	Overarching Issues and Opportunities	19
	Consistent Delineation of Cootes to Escarpment EcoPark System (3)	19
	Delineation of Current EcoPark System Lands Boundaries (4)	19
	Lack of Uniform Set of Rules for EcoPark System (5)	19
	Accommodating Stresses from Future Development (6)	20
	Funding (8)	21
3.2	Access and Infrastructure	21
	Lack of Adequate/Appropriate Parking and Access (12)	21
	Relative Isolation of some Current EcoPark System Lands (13)	21
	Trespassing (14)	22
3.3	Recreation	22
	Duplication and Density of Trails (16)	22
	Signage (17)	22
	Overuse and Erosion of Trails (18)	23
	Unsanctioned Structures and Trail Improvements (19)	23
	CN Safety Issue (21)	23
	Trails (22)	23
	User Conflicts (23)	23
	Off-leash Dogs (24)	24
	Ice Skating and Hockey on Stormwater Management Ponds (25)	24
	Non-permitted Uses (26)	24
	Safety Concerns Associated with Non-permitted Uses (27)	24
3.4	Encroachments	24
	Personal Trails (28)	24
	Structures and "Yard Extension" (28)	24
	Dumping (28)	25
	Vegetation Removal (28)	25

Appendix A Report PW16-017 Page 2 of 5

Cats/Domestic Pets (28)	25
3.5 Hydrologic Impacts	25
Drainage and Erosion (29)	25
Stormwater Management (29)	26
Polluting Spills (30)	26
3.6 Ecosystem Management and Restoration	26
Forest Health Decline (31)	26
Loss of Open Woodland Habitat (31)	27
Management of Species at Risk and Rare Species Habitat (33)	27
Management of Fish Communities (34)	27
Invasive Species (35)	27
Noxious Plants (36)	28
Wildlife Crossing (37)	28
4.0 Heritage Lands Management Recommendations	28
4.1 Approach to Management Recommendations	28
4.1.1 Classification and Zoning of the Heritage Lands	30
1: Classification of the Heritage Lands per NEPOSS	30
2: Zoning of the Heritage Lands per NEPOSS	31
4.1.2 Preferred Use Approach	35
4.2 Overarching Management Recommendations	35
3: Consistent Delineation of Cootes to Escarpment EcoPark System	36
4: Delineation of Current EcoPark System Boundaries	36
5: Lack of Uniform Set of Rules for EcoPark System	36
6: Accommodating Stresses from Future Development	36
7: EcoPark System-wide Guidelines	37
8: Funding	38
4.3 Clappison Grindstone Heritage Lands Management Plan Recommendation	
4.3.1 Vision	38
9: Develop Vision	38
4.3.2 Recommended Management Directions	39
10: Permitted Uses per NEPOSS Classification	39
11: Permitted Uses per NEPOSS Zone	41
4.3.3 Access and Infrastructure Recommendations	43
12: Lack of Adequate Parking and Access	43
13: Relative Isolation of some Current EcoPark System Lands	44
14: Trespassing	44
4.3.4 Recreation Recommendations	44
15: General Trail Recommendations	44
16: Duplication and Density of Trails	45
17: Signage	46
18: Overuse and Erosion of Trails	46
19: Unsanctioned Structures and Trail Improvements	47
20: Interpretation and Education	47
21: CN Safety Issue	48
22: Trails	48
23: User Conflicts	49
24: Off-leash Dogs	49

Appendix A Report PW16-017 Page 3 of 5

	25: Ice Skating and Hockey on Stormwater Management Ponds	49
	26: Non-permitted Uses	49
	27: Safety Concerns Associated with Non-permitted Uses	50
4	.3.5 Recommendations for Encroachment	50
	28: Impacts from Adjacent Use	50
4	.3.6 Recommendations for Hydrologic Impacts	50
	29: Drainage, Erosion and Stormwater Management	51
	30: Polluting Spills	51
4	.3.7 Ecosystem Management and Restoration Recommendations	52
	31: Forest Health Decline and Loss of Open Woodland Habitat	52
	32: Vegetation Restoration and Management Recommendations	53
	33: Management of Species at Risk and Rare Species Habitat	53
	34: Fish Communities	54
	35: Invasive Species Management	54
	36: Noxious Plants	54
	37: Wildlife Crossing	54
4	.3.8 Cultural Heritage Recommendations	55
	38: Cultural Heritage Conservation	55
5.0	Implementation	56
5.1	High Priority Management Tasks	60
5.2	EcoPark System Guidelines	61
5.3	Site-specific Management Tasks	62
	Natural Resource Management Actions (Management Themes 26, 27, 28 and 32)	62
	Fish Communities (Management Theme 34)	62
	Flood Damage Centre (Management Theme 14)	63
	CN Rail Crossings (Management Theme 21)	63
	Ice Skating and Hockey on Stormwater Management Ponds (Management Theme 25)	63
	Stormwater Management (Management Theme 29)	63
6.0	Management Plan Monitoring and Evaluation	64
6.1	Monitoring the Implementation of Recommendations	65
	39. Review and Refine Schedule for Monitoring Management Themes	65
6.2	Guidance for Performance Indicators	67
6	.2.1 Adaptive Management	67
7.0	References	75

List of Tables

Table 1. Vegetation Communities of Current EcoPark System Lands in the Clappison-Grindstone Heritage Lands
Table 2. Natural Heritage Summary of the Clappison-Grindstone Heritage Lands
Table 3. Classification and Zoning of the Clappison-Grindstone Heritage Lands
Table 4: Suggested Implementation of Recommendations per Management Theme for the Clappison-
Grindstone Heritage Lands57
Table 5. High Priority Management Tasks for the Clappison-Grindstone Heritage Lands60
Table 6. Implementation Priority for Completion of EcoPark System Guidelines and Site-specific
Management Tasks for the Clappison-Grindstone Heritage Lands
Table 7: Outline for Tracking the Implementation and Completion of Management Themes for the
Clappison-Grindstone Heritage Lands
List of Figures
Figure 1. Cootes to Escarpment EcoPark System Study Area
Figure 2. Current EcoPark System Lands within the Clappison-Grindstone Heritage Lands4
Figure 3. Trails, Access Points and Parking at the Clappison-Grindstone Heritage Lands9
Figure 4. Vegetation Communities of the Clappison-Grindstone Heritage Lands
Figure 5. Examples of Management Issues in Current EcoPark System Lands of the Clappison-Grindstone
Heritage Lands29
Figure 6. Classification and Zoning of the Clappison-Grindstone Heritage Lands
List of Appendices
Appendix 1: Clappison-Grindstone Heritage Lands Land Classification and Zoning Report
Appendix 2: Clappison-Grindstone Heritage Lands Stakeholder Advisory Committee Members
Appendix 3: Suggested List of Issues to be Addressed in Each Proposed EcoPark System Guideline97

EXECUTIVE SUMMARY

The purpose of this Management Plan for the Clappison-Grindstone Heritage Lands is to develop a set of management directions for the Current EcoPark System Lands owned by Conservation Halton, City of Burlington, City of Hamilton and the Bruce Trail Conservancy. This Management Plan will inform the protection, enhancement and communication of the important natural and cultural features within the Clappison-Grindstone Heritage Lands, one of the six core natural areas within the Cootes to Escarpment EcoPark System. This Management Plan is a compilation of detailed information about the Clappison-Grindstone Heritage Lands and the articulation of the partner agencies' joint vision for the holistic management of their lands. It provides a framework for future planning and implementation actions at the individual site level.

Development of this Management Plan involved community consultation to identify priorities and concerns as well as compilation of information on the recreational, natural and cultural resources of the Heritage Lands (detailed in the Inventory, Opportunities and Issues report prepared for the Clappison-Grindstone Heritage Lands, under separate cover). This Management Plan was also developed using the Niagara Escarpment Parks and Open Space System planning framework to identify classifications and zones (detailed in the Classification and Zoning report prepared for the Clappison-Grindstone Heritage Lands, Appendix 1 of this Management Plan).

This Management Plan contains a summary of the background and context of the Clappison-Grindstone Heritage Lands area followed by a summary of significance. Further detailed information can be found in the Inventory, Opportunities and Issues Report (North-South Environmental et al. 2016). Section 3.0 discusses issues and opportunities. Section 4.0 summarizes the management recommendations for the Heritage Lands, including the classification and zoning of the Heritage Lands, followed by implementation recommendations in Section 5.0 and monitoring recommendations in Section 6.0.

This Management Plan recommends several actions for consideration for future management of the Clappison-Grindstone Heritage Lands. The recommendations are organized in three categories:

- Approach to Management Recommendations;
- Overarching Management Recommendations; and
- Clappison-Grindstone Heritage Lands Management Recommendations.

Implementation of the recommended management actions is organized under high priority management tasks; recommended EcoPark System Guidelines for trails, education and signage, vegetation management, and edge management; and site-specific management tasks. Following the outline for implementation of the recommended management actions, monitoring and evaluation of Management Plan implementation is reviewed.