

Roxborough North Parkette Adopt-a-Patch Site Assessment – Physical Characteristics

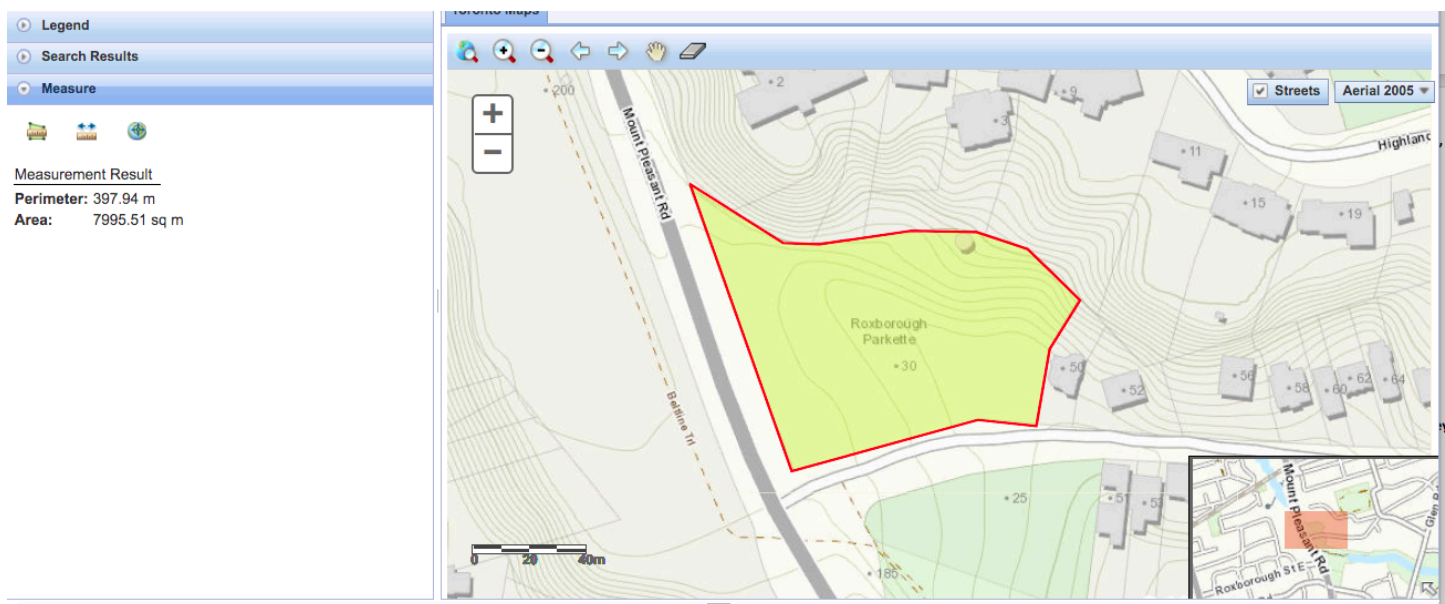
Date: May 6, 2021
Park/Ravine Name: Roxborough Parkette North (NE corner of Roxborough Drive and Mt. Pleasant)
Address: 30 Roxborough Drive

Longitude, Latitude (WGS 84): -79.381769, 43.681027

Lead Steward Name: Catherine Berka

Location description:

- Non ESA, but surrounded by ESA to the south and west (across Mt. Pleasant)
- Triangular piece nestled between residential areas to the North and East
- limited connectivity to surrounding ravine (major road)
- recently a “construction” area due to widening and asphaltting of Roxborough south parkette/traffic light construction
- lots of litter esp. Z2-Z3 border and fill/compacted soil
- limited street parking available on Roxborough
- new mixed native tree plantings and sumac on South side (Z1)
- early succession in woodlot area on West side (Z2)
- wetland (Z3)
- significant foot traffic in parks to the West and South
- few older trees mixed throughout, most especially on northwest and northeast corners of lot
- Yellow Creek buried underground, part of it comes up southeast of site in Park Drive Ravine
- Site size 8000 m²



Special features: (bold indicates features found in this park)

public road - Y	Trails- informal cut through to NW	stream/river-underground	Erosion - flat	Seep – No, water is moving
Washrooms – N but Rosedale Pk tennis	picnic shelter - N	picnic tables– Y on west side (Z2)	Playground -N	drinking water -N
Boardwalk -N	DOLA - N	Maint. bldg- N	garbage cans – Y South parkette	Parking limited on Roxborough

Grey infrastructure in patch vicinity: fibre optics buried under sidewalk on south Parkette, new not-yet-operational crosswalk light on Mt. Pleasant. Yellow Creek channeled underground below Mt Pleasant. Partially comes out on Park Drive but also buried under trail. Busy intersection and foot traffic area. Z1 of site mostly rubble and concrete. Irrigation control valve in Z2. Storm sewer in Z3. Gas line splits off from main line (runs perpendicular to it) toward parkette.

Catch basin x2	Manhole - N	Gas pipeline – Y on Roxborough Dr.	Storm sewer outfall- N	river channelization - N
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Physical Characteristics: 3 separate zones with varied conditions of soil and species composition: Z1 hard packed rubble in sun with native seedlings (mostly planted); Z2 early succession deciduous woodland; Z3 water comes in from Highland North above, pools and drains into storm sewer at SE corner

Aspect	N	NE	E	SE	S	SW	W	NW
Slope	Flat Z1,2	Low Z1,2		Medium North area	steep			
Soil moisture	standing water Z3	saturated soil Z3		damp soil Z2/3	dry soil Z1			
Site exposure	full sun wet	full sun dry Z1		partial sun wet Z3	partial sun dry Z2	shady wet Z3		shady dry
Soil type	Sand Z1	silt		Loam Z2	clay	Muck – doubtful that organic		Gravel Z1
Soil compaction	none	Light Z2,3		moderate	Heavy Z1			
Litter depth (leaf?)	0	< 1cm		1-2cm	> 2cm			
Bare ground Z1	0%	1-5%		6 – 10%	11– 25%	26– 50%		> 50%
Coarse Woody Debris Z2	0%	1 - 5%		6 – 10%	11– 25%	26– 50% Z2, Z3		> 50%
Habitat type:	meadow	shrubland		hardwood forest Z2	conifer forest	mixed forest		swamp/ marsh Z3

Vegetation: Mostly young successional, few older trees mostly in the North West and North East

Trees – (relates to the forest behind the patch)						
Overstory Tree Density >13cm dbh						
Native conifers	none	isolated	few	low	medium	high
Native deciduous	none	isolated	few	low	medium	high
Invasive	none	isolated	few	low	medium	high
Regenerating Tree Density <13cm dbh						
Native conifers	none	isolated	few	low	medium	high
Native deciduous	none	isolated	few	low	medium	high
Invasive	none	isolated	few	low	medium	high

Species present: Black gum, horse chestnut, red/white oak, beech, grey birch, white birch, basswood, **Norway Maple**, white cedar, white pine, Manitoba maple, black cherry (planted Z1), ash, apple, balsam poplar, **sweet cherry (*Prunus avium*) Z3/Z1**, silver maple (planted Z1), bur oak (planted Z1)

Shrubs (% cover)						
Native	0%	0 – 5%	6 – 25 %	26 – 50%	51 – 75%	>75%
Invasive	0%	0 – 5%	6 – 25 %	26 – 50%	51 – 75%	>75%

Species present: grey dogwood, alternate-leaf Dogwood, staghorn sumacs on west and south border,

Herbaceous Plants (% cover)						
Native	0%	0 – 5%	6 – 25 % Z2/Z3	26 – 50% Z1	51 – 75%	>75%
Invasive	0%	0 – 5%	6 – 25 %	26 – 50%	51 – 75%	>75%

Species present: DSV in Z1/Z2, garlic mustard Z3, Z2, JKW to the North, euonymus Z3, Lily of the Valley NE end of Z3, nettles, motherwort, broad-leaved goldenrod, field horsetail, sweet woodruff, trout lily, dandelion, English ivy (Z1/Z3 border), ostrich fern, celandine, jewel weed, non native iris, cattails, marsh marigolds, narrow-leaved bittercress, periwinkle Z2(north)



Restoration Plan:

1. Remove GM with flower heads
2. Remove litter throughout
3. Clip DSV
4. Remove euonymus
5. Remove English Ivy
6. Remove vinca (periwinkle)
7. Create brush piles with fallen logs for habitat in certain places into woods
8. Speak to Highland property re: illegal dumping.
9. Consider soil remediation in Z1 and planting in deadzone.
10. Remove JKW in eastern most section of Z3
11. Lots of young native regeneration on Z3 and North slope. Keep clear of invasives
12. Leave and watch English Ivy on Eastern border with residence.
13. Remove JKW in northern section (speak to owners to the N and E)
14. Plant understory and trees on North west grassy maintained area and South East bare area.
15. Wood chip path in future?

Lots of native species present. Remove aggressive invasives and allow natives to “move in”.

Notes:

1. Check property boundaries

2. Who is illegal dumping to the North
3. JKW plan with private landowner?
4. Soil remediation in Z-1
5. Wetland plan for future?