



# 30 - Willoughby Open Space



Table 30- Willoughby Open Space

## Site 30 Willoughby Open Space

|                            |   |
|----------------------------|---|
| <i>General Description</i> | This narrow space is found on an old hydro corridor where a creek bisects the path. There is a fence along the west side with shrub species, especially European buckthorn dominating the edge. The land is low-lying and wet in places. The trail is rutted from ATVs and pick-up trucks. There was some dumping, especially closest to Willick Rd., but not a large amount. The trail has had the vegetation cut in the last few months.  |
| <i>Polygon 1</i>           | Is the trail from Willick north a short ways along Willoughby. It then crosses Willoughby Rd. and continues north (where it is no longer part of this survey).  |
| <i>Polygon 2</i>           | Is the much longer stretch between Willick Rd and Weaver Rd. The trail then continues south of Weaver (also not part of survey)   |
| <i>Recommendations</i>     | <ol style="list-style-type: none"><li>1. Remove invasive species such as buckthorn. Priority for removal shall be in areas where there is greater impact on the existing native vegetation. After removal of invasive species has occurred, monitoring is necessary to ensure that these plants do not re-establish themselves. The techniques used for the removals shall be tailored to the invasive species being removed and be in accordance with industry standards.</li><li>2. To raise awareness of the woodland features and functions, informative signage should be put on site. The signage should be installed near a main trail or access point to the woodland.</li><li>3. All-terrain vehicle (ATV) barriers should be installed strategically to deter this illegal activity. Careful considerations should be made to the location of the barriers to insure that ATVs aren't simply moved to a different part of the woodland. Special signage should be part of these barriers that inform ATVers of the negative impact they are doing to the natural environment and the potential harm they could cause to park users.</li></ol> |



**Figure 1- Low-lying area. Credit: NF Nature Club**

# Willoughby Open Space Plant Species Inventory

Legend:

Layer: 1=Canopy(>10M), 2=Sub-Canopy, 3=Understory, 4=Ground Layer

Abundance: r=Rare, o=Occasional, a=Abundant, d=Dominant

Invasive Species: ai=Aggressive Invasive Species, i=Invasive Species

Old Growth: og=Old Growth

Plantation: p=Plantation Species

Federal Status: t=Threatened, v=Vulnerable, sp=Special Concern

Provincial Status: e=Endangered, t=Threatened, v=Vulnerable

| Site Number | Site Name             | Polygon | Layer | Species             | Abundance | Invasive | Old Growth | Plantation | Federal | Provincial |
|-------------|-----------------------|---------|-------|---------------------|-----------|----------|------------|------------|---------|------------|
| 30          | Willoughby Open Space | 2       | 1     | Fraxinus sp.        | d         |          |            |            |         |            |
| 30          | Willoughby Open Space | 2       | 1     | Quercus rubra       | o         |          |            |            |         |            |
| 30          | Willoughby Open Space | 2       | 1     | Salix sp.           | o         |          |            |            |         |            |
| 30          | Willoughby Open Space | 2       | 1     | Ulmus americana     | r         |          |            |            |         |            |
| 30          | Willoughby Open Space | 1       | 2     | Rhamnus cathartica  | d         | ai       |            |            |         |            |
| 30          | Willoughby Open Space | 2       | 2     | Rhamnus cathartica  | d         | ai       |            |            |         |            |
| 30          | Willoughby Open Space | 1       | 2     | Salix sp.           | a         |          |            |            |         |            |
| 30          | Willoughby Open Space | 2       | 2     | Salix sp.           | a         |          |            |            |         |            |
| 30          | Willoughby Open Space | 1       | 3     | Cornus racemosa     | o         |          |            |            |         |            |
| 30          | Willoughby Open Space | 2       | 3     | Cornus racemosa     | d         |          |            |            |         |            |
| 30          | Willoughby Open Space | 2       | 3     | Cornus stolonifera  | r         |          |            |            |         |            |
| 30          | Willoughby Open Space | 2       | 3     | Rhus typhina        | o         |          |            |            |         |            |
| 30          | Willoughby Open Space | 2       | 3     | Ribes sp.           | r         |          |            |            |         |            |
| 30          | Willoughby Open Space | 2       | 3     | Rosa sp.            | o         |          |            |            |         |            |
| 30          | Willoughby Open Space | 2       | 3     | Rubus idaeus        | o         |          |            |            |         |            |
| 30          | Willoughby Open Space | 2       | 3     | Rubus occidentalis  | o         |          |            |            |         |            |
| 30          | Willoughby Open Space | 1       | 3     | Spiraea alba        | o         |          |            |            |         |            |
| 30          | Willoughby Open Space | 2       | 3     | Spiraea alba        | a         |          |            |            |         |            |
| 30          | Willoughby Open Space | 2       | 4     | Arctium minus       | o         |          |            |            |         |            |
| 30          | Willoughby Open Space | 2       | 4     | Asclepias syriaca   | o         |          |            |            |         |            |
| 30          | Willoughby Open Space | 1       | 4     | Aster lateriflorus  | o         |          |            |            |         |            |
| 30          | Willoughby Open Space | 2       | 4     | Aster lateriflorus  | a         |          |            |            |         |            |
| 30          | Willoughby Open Space | 1       | 4     | Aster novae-angliae | o         |          |            |            |         |            |
| 30          | Willoughby Open Space | 2       | 4     | Aster novae-angliae | o         |          |            |            |         |            |
| 30          | Willoughby Open Space | 1       | 4     | Aster pilosus       | a         |          |            |            |         |            |

| Site Number | Site Name             | Polygon | Layer | Species                 | Abundance | Invasive | Old Growth | Plantation | Federal | Provincial |
|-------------|-----------------------|---------|-------|-------------------------|-----------|----------|------------|------------|---------|------------|
| 30          | Willoughby Open Space | 2       | 4     | Aster pilosus           | a         |          |            |            |         |            |
| 30          | Willoughby Open Space | 2       | 4     | Bidens frondosa         | r         |          |            |            |         |            |
| 30          | Willoughby Open Space | 1       | 4     | Centaurea sp.           | o         |          |            |            |         |            |
| 30          | Willoughby Open Space | 2       | 4     | Centaurea sp.           | a         |          |            |            |         |            |
| 30          | Willoughby Open Space | 1       | 4     | Cichorium intybus       | o         |          |            |            |         |            |
| 30          | Willoughby Open Space | 2       | 4     | Cichorium intybus       | o         |          |            |            |         |            |
| 30          | Willoughby Open Space | 2       | 4     | Cirsium sp.             | o         |          |            |            |         |            |
| 30          | Willoughby Open Space | 1       | 4     | Dactylis glomerata      | o         |          |            |            |         |            |
| 30          | Willoughby Open Space | 2       | 4     | Daucus carota           | o         |          |            |            |         |            |
| 30          | Willoughby Open Space | 2       | 4     | Dipsacus sylvestris     | a         |          |            |            |         |            |
| 30          | Willoughby Open Space | 1       | 4     | Echinochloa             | o         |          |            |            |         |            |
| 30          | Willoughby Open Space | 2       | 4     | Fragaria sp.            | o         |          |            |            |         |            |
| 30          | Willoughby Open Space | 2       | 4     | Juncus effusus          | o         |          |            |            |         |            |
| 30          | Willoughby Open Space | 2       | 4     | Lysimachia nummularia   | a         | i        |            |            |         |            |
| 30          | Willoughby Open Space | 1       | 4     | Medicago sativa         | o         |          |            |            |         |            |
| 30          | Willoughby Open Space | 1       | 4     | Phalaris arundinacea    | a         | ai       |            |            |         |            |
| 30          | Willoughby Open Space | 2       | 4     | Phalaris arundinacea    | a         | ai       |            |            |         |            |
| 30          | Willoughby Open Space | 1       | 4     | Phragmites              | o         | ai       |            |            |         |            |
| 30          | Willoughby Open Space | 2       | 4     | Plantago major          | a         |          |            |            |         |            |
| 30          | Willoughby Open Space | 2       | 4     | Polygonum pensylvanicum | a         |          |            |            |         |            |
| 30          | Willoughby Open Space | 1       | 4     | Scirpus atrovirens      | o         |          |            |            |         |            |
| 30          | Willoughby Open Space | 1       | 4     | Solidago canadensis     | a         |          |            |            |         |            |
| 30          | Willoughby Open Space | 2       | 4     | Solidago canadensis     | a         |          |            |            |         |            |
| 30          | Willoughby Open Space | 2       | 4     | Solidago graminifolia   | o         |          |            |            |         |            |
| 30          | Willoughby Open Space | 1       | 4     | Sonchus sp.             | a         |          |            |            |         |            |
| 30          | Willoughby Open Space | 2       | 4     | Trifolium pratense      | o         |          |            |            |         |            |
| 30          | Willoughby Open Space | 1       | 4     | Typha sp.               | o         |          |            |            |         |            |
| 30          | Willoughby Open Space | 2       | 4     | Typha sp.               | o         |          |            |            |         |            |
| 30          | Willoughby Open Space | 1       | 4     | Vitis sp.               | a         |          |            |            |         |            |
| 30          | Willoughby Open Space | 2       | 4     | Vitis sp.               | a         |          |            |            |         |            |

## Willoughby Open Space Disturbance Report

| Site                     | Polygon | Disturbance / Extent                             | Total Score |
|--------------------------|---------|--|-------------|
| 30 Willoughby Open Space | 1       | Alien Species / Extent Of Alien Species          | 6           |
| 30 Willoughby Open Space | 1       | ATVs And Pick-ups                                | 4           |
| 30 Willoughby Open Space | 1       | Beaver Activity / Extent Of Beaver Activity      | 0           |
| 30 Willoughby Open Space | 1       | Browse (e.g. Deer) / Extent Of Browse            | 1           |
| 30 Willoughby Open Space | 1       | Disease/Death Of Trees / Extent Of Disease/Death | 0           |
| 30 Willoughby Open Space | 1       | Dumping (rubbish) / Extent Of Dumping            | 1           |
| 30 Willoughby Open Space | 1       | Earth Displacement / Extent Of Displacement      | 0           |
| 30 Willoughby Open Space | 1       | Fire / Extent Of Fire                            | 0           |
| 30 Willoughby Open Space | 1       | Flooding (Pools & Puddling) / Extent Of Flooding | 0           |
| 30 Willoughby Open Space | 1       | Gaps In Forest Canopy / Extent Of Gaps           | 0           |
| 30 Willoughby Open Space | 1       | Ice Damage / Extent Of Ice Damage                | 0           |
| 30 Willoughby Open Space | 1       | Intensity / Extent Of Logging                    | 0           |
| 30 Willoughby Open Space | 1       | Livestock (Grazing) / Extent Of Livestock        | 0           |
| 30 Willoughby Open Space | 1       | Noise / Extent Of Noise                          | 0           |
| 30 Willoughby Open Space | 1       | Planting (plantation) / Extent Of Planting       | 0           |
| 30 Willoughby Open Space | 1       | Recreational Use / Extent Of Recr. Use           | 4           |
| 30 Willoughby Open Space | 1       | Sugar Bush Operations / Extent Of Operations     | 0           |
| 30 Willoughby Open Space | 1       | Time Since Logging                               | 0           |
| 30 Willoughby Open Space | 1       | Tracks And Trails / Extent Of Tracks/Trails      | 4           |
| 30 Willoughby Open Space | 1       | Wind Throw (blow Down) / Extent Of Wind Throw    | 0           |
| 30 Willoughby Open Space | 2       | Alien Species / Extent Of Alien Species          | 4           |
| 30 Willoughby Open Space | 2       | Beaver Activity / Extent Of Beaver Activity      | 0           |
| 30 Willoughby Open Space | 2       | Browse (e.g. Deer) / Extent Of Browse            | 1           |
| 30 Willoughby Open Space | 2       | Disease/Death Of Trees / Extent Of Disease/Death | 0           |
| 30 Willoughby Open Space | 2       | Dumping (rubbish) / Extent Of Dumping            | 1           |
| 30 Willoughby Open Space | 2       | Earth Displacement / Extent Of Displacement      | 0           |
| 30 Willoughby Open Space | 2       | Fire / Extent Of Fire                            | 0           |
| 30 Willoughby Open Space | 2       | Flooding (Pools & Puddling) / Extent Of Flooding | 2           |
| 30 Willoughby Open Space | 2       | Gaps In Forest Canopy / Extent Of Gaps           | 0           |
| 30 Willoughby Open Space | 2       | Ice Damage / Extent Of Ice Damage                | 0           |
| 30 Willoughby Open Space | 2       | Intensity / Extent Of Logging                    | 0           |
| 30 Willoughby Open Space | 2       | Livestock (Grazing) / Extent Of Livestock        | 0           |
| 30 Willoughby Open Space | 2       | Noise / Extent Of Noise                          | 4           |
| 30 Willoughby Open Space | 2       | Planting (plantation) / Extent Of Planting       | 0           |
| 30 Willoughby Open Space | 2       | Recreational Use / Extent Of Recr. Use           | 4           |
| 30 Willoughby Open Space | 2       | Sugar Bush Operations / Extent Of Operations     | 0           |
| 30 Willoughby Open Space | 2       | Time Since Logging                               | 0           |
| 30 Willoughby Open Space | 2       | Tracks And Trails / Extent Of Tracks/Trails      | 4           |
| 30 Willoughby Open Space | 2       | Wind Throw (blow Down) / Extent Of Wind Throw    | 0           |