



**Figure 2.** Fall photo of wetland near the north boundary line (20T 0476764 5047554).



**Figure 3.** The same wetland as above (20T 0476764 5047554). Photo taken in late Spring.



A second pond and its associated wetland (marsh) (Figs. 4 & 5), also occurring north of the quarry pit (20T 0476700 5047474), is southwest of the previous wetland and closer to the quarry than the previous wetland. This is a smaller wetland than the previous. Vascular plant species observed along the shoreline and/or within the pond include Blue Joint Reed Grass (*Calamagrostis canadensis*), Red Maple (*Acer rubrum*), Royal Fern (*Osmunda regalis*), Sensitive Fern (*Onoclea sensibilis*), Canada Manna Grass (*Glyceria canadensis*), Northern Water Horehound (*Lycopus uniflorus*), New York Fern (*Amauropelta noveboracensis*), Mad-dog Skullcap (*Scutellaria lateriflora*) and Rough-Stemmed Goldenrod (*Solidago rugosa*).

Additional species observed within this habitat during the Spring survey include Fringed Sedge (*Carex crinita*), Northern Long Sedge (*Carex folliculata*), Old Field Cinquefoil (*Potentilla simplex* var. *calvescens*), Black Sedge (*Carex arctata*), Fringed Black Knotweed (*Falopia cilinodis*), Evergreen Wood Fern (*Dryopteris intermedia*), Mountain Wood Fern (*Dryopteris campyloptera*) and Harlequin Blue Flag (*Iris versicolor*).



**Figure 4.** Wetland (20T 0476700 5047474) southwest of the previous wetland (Fall survey).



**Figure 5.** The same wetland as in Fig. 4. Photo taken in the Spring.

The third pond surveyed (Figs. 6 & 7), is located near the southeast corner of the quarry pit (20T 0476885 5047318). Vascular plant species observed here include Northern Water Horehound (*Lycopus uniflorus*), Swamp Yellow Loosestrife (*Lysimachia terrestris*), Woolly Bulrush (*Scirpus cyperinus*), Canada Manna Grass (*Glyceria canadensis*), American Water Horehound (*Lycopus americanus*), Mad-dog Skullcap (*Scutellaria lateriflora*), White Meadowsweet (*Spiraea alba* var. *latifolia*), White Turtlehead (*Chelone glabra*) and Fowl Blue Grass (*Poa palustris*).

Additional species observed here during the Fall survey include Fringed Sedge (*Carex crinita*), Northern Long Sedge (*Carex folliculata*), White Meadowsweet (*Spiraea alba* var. *latifolia*), Harlequin Blue Flag (*Iris versicolor*), Sensitive Fern (*Onoclea sensibilis*), Rough Goldenrod (*Solidago rugosa*) and New York Fern (*Parathelypteris noveboracensis*).





**Figure 6.** Wetland 3, located adjacent to the southeast corner of the quarry pit (20T 0476885 5047318). Photo taken in the Fall.



**Figure 7.** Wetland 3. Photo taken in the Spring.



The fourth wetland (Fig. 8 & 9) surveyed is the smallest of the wetlands present within the survey area. This pond occurs east of the quarry pit and south of the entrance road to the quarry (20T 0476958 5047374). It is somewhat choked with aquatic vegetation. Tree species around the pond edges include Balsam Fir (*Abies balsamea*), Red Maple (*Acer rubrum*) and Paper Birch (*Betula papyrifera*). The dominant herbaceous species within the pond is Bitter Dock (*Rumex obtusifolius*), a non-native vascular plant. Other wetland species present include Bluejoint Reed Grass (*Calamagrostis canadensis*), Sensitive Fern (*Onoclea sensibilis*), Creeping Buttercup (*Ranunculus repens*), Rough Goldenrod (*Solidago rugosa*), Swamp Yellow Loosestrife (*Lysimachia terrestris*), Common Water Parsnip (*Sium sauve*) and Fowl Manna Grass (*Glyceria striata*).

Additional species observed here during the Fall survey include Tall Meadow-rue (*Thalictrum pubescens*), Swamp Gooseberry (*Ribes hirtellum*), Awl-fruited Sedge (*Carex stipata*), Rough Bedstraw (*Galium asprellum*), Common Marsh bedstraw (*Galium palustre*) and brownish Sedge (*Carex brunnescens*).



**Figure 8.** Small wetland (pond and marsh) situated east of the quarry pit and south of the entrance road to the quarry (20T 0476958 5047374). The dominant herbaceous plant in the pond (and in photo) is Bitter Dock (*Rumex obtusifolius*). Photo taken in the Fall.



**Figure 9.** Another section of the same wetland shown in Figure 8. Photo taken in the Spring

Species of Conservation Concern in Wetlands: There were no species of conservation concern observed within any of these wetland habitats during these surveys **with the following exceptions:** Rosy Sedge (*Carex rosea*) was observed in Wetland 3 and Blunt Broom Sedge (*Carex tribuloides*) was observed in Wetland 4. Both observations were made during the Fall survey. Both species are listed as an S3/vulnerable /yellow species (Nova Scotia General Status Ranks and S3/vulnerable (Atlantic Conservation Data Centre).



## Woodlands

Woodland Types: Woodlands present within the survey area consist of mixed stands (Fig. 10), occasional, small, primarily coniferous stands (Fig. 11) and a deciduous stand (Fig. 12).



**Figure 10.** Open, mixed woodland, north of the quarry pit (20T 0476809, 5047577).

### ***Mixed Woodland***

Vascular plant species observed within mixed woodland occurring north of the quarry pit (20T 0476809, 5047577) (Fig. 10) include Red and Sugar Maple (*Acer rubrum*, *A. saccharum*), White and Yellow Birch (*Betula papyrifera*, *B. alleghaniensis*), Red Spruce (*Picea rubens*), Balsam Fir (*Abies balsamea*), Beaked Hazelnut (*Corylus cornuta*), Alternate-leaved Dogwood (*Cornus alternifolia*), Red Elderberry (*Sambucus racemosa*), Eastern Hay-scented Fern (*Dennstaedtia punctilobula*), Black Sedge (*Carex arctata*), Hairy Flat-topped White Aster (*Doellingeria umbellata*) and Rough Goldenrod (*Solidago rugosa*).

Additional vascular plant species observed in mixed woods immediately west of the quarry pit (20T 0476686 5047423) include Whorled Wood Aster (*Oclemena acuminata*), Calico Aster (*Symphyotrichum lateriflorum*), Bunchberry (*Cornus canadensis*), Yellow Bluebead Lily (*Clintonia borealis*), Dwarf Red Raspberry (*Rubus pubescens*), Tall Meadow-rue (*Thalictrum pubescens*), Wild Sarsaparilla (*Aralia nudicaulis*), Lady Fern (*Athyrium filixfemina*), Zigzag Goldenrod (*Solidago flexicaulis*), Canada Fly Honeysuckle (*Lonicera canadensis*), Northern Beech Fern (*Phegopteris connectilis*), Intermediate Wood Fern (*Dryopteris intermedia*), European Mountain Ash (*Sorbus aucuparia*), etc.

Additional species observed in these areas during the Spring survey include Beech (*Fagus grandifolia*), Wild lily-of-the-valley (*Maianthemum canadense*), Common Winterberry (*Ilex verticillata*), Bluebead Lily (*Clintonia borealis*) and Flat-top White Aster (*Doellingeria umbellata*).



**Figure 11.** Coniferous stand north of the quarry pit (20T 0476779 5047563).



### ***Coniferous Woodland***

Vascular plant species observed in both Spring and Fall surveys within small coniferous stands (Fig. 10) north of the quarry pit (20T 0476779 5047563), include Balsam Fir (*Abies balsamea*), Red Spruce (*Picea rubens*), Red Maple (*Acer rubrum*), Bunchberry (*Cornus canadensis*) and Evergreen Woodfern (*Dryopteris intermedia*).



**Figure 12.** Deciduous woodland located immediately south of the quarry pit.

### ***Deciduous Woodland***

The relatively undisturbed woodland (Figure 12) occurring immediately south of the quarry pit is primarily deciduous (20T 0476818 5047291). Tree species present include Sugar Maple (*Acer saccharum*), Red Maple (*Acer rubrum*), Mountain Maple (*Acer spicatum*), White Birch (*Betula papyrifera*) and Yellow Birch (*Betula alleghaniensis*). Shrubs occurring here include Hazelnut (*Corylus cornuta*), Alternate-leaved Dogwood (*Cornus alternifolia*), Red Raspberry (*Rubus idaeus* ssp. *strigosus*) and Canada Fly Honeysuckle (*Lonicera canadensis*). Herbaceous species present include Meadow-rue (*Thalictrum pubescens*), Rough Goldenrod (*Solidago rugosa*), Zigzag Goldenrod (*Solidago flexicaulis*), Fowl Manna Grass (*Glyceria striata*), Wild Sarsaparilla (*Aralia nudicaulis*), Lady Fern (*Athyrium filix-femina*), Bunchberry (*Cornus canadensis*), Beech Fern (*Phegopteris connectilis*) and Rose Twisted Stalk (*Streptopus lanceolatus*). Additional species observed in this habitat during the Spring survey include Trout Lily (*Erythronium americanum*), Brownish Sedge (*Carex brunnescens*) and Fringed Sedge (*Carex crinita*).

Species of conservation concern in Woodland Habitats: There were no species of conservation concern observed within any of these woodland habitats during this survey.

### Quarry Pit

A very limited survey was conducted within the quarry pit (Figure 13). This a highly disturbed area and many of the vascular plant species present are non-native. Plant species observed here include Sticky Ragwort (*Senecio viscosus*), Pearly Everlasting (*Anaphalis margaritacea*), Poverty Oat Grass (*Danthonia spicata*), Common Speedwell (*Veronica officinalis*), White Clover (*Trifolium repens*), Rabbit's-foot Clover (*Trifolium arvense*), Colt's Foot (*Tussilago farfara*), Tall White Aster (*Doellingeria umbellata*), Red Elderberry (*Sambucus racemosa*), a morning glory (*Calystegia* sp.), Wild Raspberry (*Rubus idaeus* ssp. *strigosus*). Additional species observed during the Spring survey included Ox-Eye Daisy (*Leucanthemum vulgare*) and Common St. John's-Wort (*Hypericum perforatum*).

There were no species of conservation concern observed within the quarry pit during these surveys.



**Figure 13.** The north edge of the quarry pit.



## Discussion

No species listed under either federal species-at-risk legislation or provincial species-at-risk legislation were observed on the quarry property during these surveys.

All vascular plant species observed and recorded during these surveys fall into the Nova Scotia general status rank categories of **YELLOW**, **LIGHT GREEN**, **GREEN** and **EXOTIC** with **YELLOW** indicating a plant that is vulnerable, **LIGHT GREEN** indicating a species that is at a fairly low risk of extirpation within the province, **GREEN** indicating a plant with a secure conservation status within the province and **EXOTIC** meaning a species that is non-native to Nova Scotia.

The Atlantic Canada Conservation Data Centre subnational status ranks all fall into the categories of **S3**, **S4**, **S4S5**, **S5** or **SNA**, also indicating that nearly all species documented on this site during this survey, are not of conservation concern (**S3** = **Vulnerable** - vulnerable in the province due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors making it vulnerable to extirpation, **S4** = **Apparently Secure** - uncommon but not rare; some cause for long-term concern due to declines or other factors; **S5** = **Secure** - common, widespread, and abundant in the province; **SNA** = **Not Applicable** - a conservation status rank is not applicable because the species is not a suitable target for conservation activities as for example, non-native (exotic) species.

Species listed in the APPENDIX not identified to species are not expected to be of conservation concern.

## APPENDIX

List of all vascular plant species observed on the East Annan Quarry property during surveys conducted on October 3<sup>rd</sup>, 2023, and June 19<sup>th</sup>, 2024, including the habitats in which they were found and their status ranks. Both the Nova Scotia General Status Rank\* and the Atlantic Canada Conservation Data Centre Subnational S-rank\*\* are provided for each species. Habitats surveyed include mixed woodland (MW), coniferous woodland (CW), deciduous woodland (DW), ponds and associated wetlands (W) and disturbed areas i.e. the quarry pit (Q). (*Species marked with a double asterisk \*\* in the first column are additional species documented in the Spring survey.*)

Latin Name	Common Name	Nova Scotia General Status Rank*	ACCDC Subnational Status Rank**	Habitat(s)
<i>Abies balsamea</i>	Balsam Fir	S5/secure (green)	S5/secure	CW, DW, MW
<i>Acer rubrum</i>	Red Maple	S5/secure (green)	S5/secure	DW, MW, W
<i>Acer saccharum</i>	Sugar Maple	S5/secure (green)	S5/secure	DW, MW, W
<i>Acer spicatum</i>	Mountain Maple	S5/secure (green)	S5/secure	DW
<i>Agrostis scabra</i>	Rough Bent Grass	S5/secure (green)	S5/secure	Q, W
<i>Alnus incana</i> ssp. <i>rugosa</i>	Speckled Alder	S5/secure (green)	S5/secure	W
<i>Amelanchier</i> sp.**	a serviceberry	-	-	MW, W
<i>Anaphalis margaritacea</i>	Pearly Everlasting	S5/secure (green)	S5/secure	Q
<i>Aralia nudicaulis</i>	Wild Sarsaparilla	S5/secure (green)	S5/secure	DW, MW
<i>Arisaema triphyllum</i> **	Jack-in-the-Pulpit	S5/secure (green)	S5/secure	W
<i>Athyrium filixfemina</i>	Lady Fern	S5/secure (green)	S5/secure	DW
<i>Betula alleghaniensis</i>	Yellow Birch	S5/secure (green)	S5/secure	DW, MW
<i>Betula papyrifera</i> **	White Birch	S5/secure (green)	S5/secure	DW, MW, W
<i>Bidens</i> sp.	a beggarticks	-	-	W
<i>Brachyelytrum aristosum</i>	Northern Shorthusk	S5/secure (green)	S5/secure	DW
<i>Calamagrostis canadensis</i>	Bluejoint Reed Grass	S5/secure (green)	S5/secure	W
<i>Calystegia</i> sp.	a bindweed	non-native/exotic	exotic	Q
<i>Carex arctata</i> **	Black Sedge	S5/secure (green)	S5/secure	DW, MW
<i>Carex brunnescens</i> **	Brownish Sedge	S5/secure (green)	S5/secure	DW, W
<i>Carex crinita</i> **	Fringed Sedge	S5/secure (green)	S5/secure	W
<i>Carex debilis</i> var. <i>rudgei</i> **	White-edged Sedge	S5/secure (green)	S5/secure	DW



Latin Name	Common Name	Nova Scotia General Status Rank*	ACCDC Subnational Status Rank**	Habitat(s)
<i>Carex folliculata</i> **	Northern Long Sedge	S5/secure (green)	S5/secure	DW, W
<i>Carex intumescens</i>	Bladder Sedge	S5/secure (green)	S5/secure	DW
<i>Carex gracillima</i> **	Graceful Sedge	S5/secure (green)	S5/secure	
<i>Carex lurida</i>	Sallow Sedge	S5/secure (green)	S5/secure	W
<i>Carex novaeangliae</i> **	New England Sedge	S5/secure (green)	S5/secure	DW
<i>Carex rosea</i> **	Rosy Sedge	S3/vulnerable (yellow)	S3/vulnerable	W
<i>Carex stipata</i> **	Awl-fruited Sedge	S5/secure (green)	S5/secure	W
<i>Carex vesicaria</i> **	Inflated Sedge	S3/apparently secure	S4/apparently secure	W
<i>Circaea alpina</i>	Small Enchanter's Nightshade	S5/secure (green)	S5/secure	MW
<i>Carex tribuloides</i> **	Blunt Broom Sedge	S3/vulnerable (yellow)	S3/vulnerable	W
<i>Claytonia borealis</i> <i>claytoniana</i> **	Interrupted Fern	S5/secure (green)	S3/secure	DW, MW
<i>Clintonia borealis</i>	Yellow Bluebead Lily	S5/secure (green)	S5/secure	MW
<i>Cornus alternifolia</i>	Alternate leaved Dogwood	S5/secure (green)	S5/secure	DW, MW
<i>Cornus canadensis</i>	Bunchberry	S5/secure (green)	S5/secure	CW, DW, MW
<i>Corylus cornuta</i>	Beaked Hazelnut	S5/secure (green)	S5/secure	DW, MW, W
<i>Cypripedium acaule</i>	Pink Lady's Slipper	S5/secure (green)	S5/secure	MW
<i>Dennstaedtia punctilobula</i>	Hay-scented Fern	S5/secure (green)	S5/secure	MW
<i>Doellingeria umbellata</i> **	Tall White Aster	S5/secure (green)	S5/secure	MW, Q, W
<i>Dryopteris carthusiana</i> **	Spinulose Wood Fern	S5/secure (green)	S5/secure	MW, W
<i>Dryopteris cristata</i>	Crested Wood Fern	S5/secure (green)	S5/secure	MW, W
<i>Dryopteris intermedia</i> **	Intermediate Wood Fern	S5/secure (green)	S5/secure	CW, DW, MW, W
<i>Dulichium arundinaceum</i>	Three-way Sedge	S5/secure (green)	S5/secure	W
<i>Erythronium americanum</i> **	Yellow Trout Lily	S4S5 (light green to green)	S4S5(apparently secure to secure)	DW

Latin Name	Common Name	Nova Scotia General Status Rank*	ACCDC Subnational Status Rank**	Habitat(s)
<i>Euthamia graminifolia</i>	Grass-leaved Goldenrod	S5/secure (green)	S5/secure	W
<i>Fallopia cilinodis**</i>	Fringed Black Bindweed	S5/secure (green)	S5/secure	W
<i>Fragaria virginiana</i>	Wild Strawberry	S5/secure (green)	S5/secure	W
<i>Frangula alnus**</i>	Glossy Buckthorn	non-native/exotic	exotic	W
<i>Galium asprellum**</i>	Rough Bedstraw	S5/secure (green)	S5/secure	W
<i>Galium palustre**</i>	Marsh Bedstraw	S5/secure (green)	S5/secure	W
<i>Geum macrophyllum**</i>	Large-leaved Avens	S5/secure (green)	S5/secure	W
<i>Glyceria canadensis</i>	Canada Manna Grass	S5/secure (green)	S5/secure	W
<i>Glyceria striata</i>	Fowl Manna Grass	S5/secure (green)	S5/secure	DW
<i>Hamamelis virginiana</i>	American Witch- hazel	S5/secure (green)	S5/secure	MW
<i>Hypericum fraseri</i>	Fraser's St. John's-Wort	S5/secure (green)	S5/secure	W
<i>Hypericum perforatum**</i>	St. John's-Wort	non-native/exotic	exotic	Q
<i>Hypericum virginicum</i>	Virginia St. John's-Wort	S5/secure (green)	S5/secure	W
<i>Ilex mucronata</i>	Mountain Holly	S5/secure (green)	S5/secure	W
<i>Ilex verticillata</i>	Common Winterberry	S5/secure (green)	S5/secure	W
<i>Impatiens sp.**</i>	a jewellweed	-	-	S, W
<i>Iris versicolor**</i>	Harlequin Blueflag	S5/secure (green)	S5/secure	W
<i>Kalmia angustifolia</i>	Sheep Laurel	S5/secure (green)	S5/secure	MW
<i>Leucanthmum vulgare**</i>	Ox-eye Daisy	non-native/exotic	exotic	Q
<i>Lonicera canadensis</i>	Canada Fly Honeysuckle	S5/secure (green)	S5/secure	DW
<i>Lycopus americanus</i>	American Water Horehound	S5/secure (green)	S5/secure	W
<i>Lycopus uniflorus</i>	Northern Water Horehound	S5/secure (green)	S5/secure	W



Latin Name	Common Name	Nova Scotia General Status Rank*	ACCDC Subnational Status Rank**	Habitat(s)
<i>Lysimachia terrestris</i>	Swamp Yellow Loosestrife	S5/secure (green)	S5/secure	W
<i>Maianthemum canadense</i>	Wild Lily-of-the-Valley	S5/secure (green)	S5/secure	DW, MW
<i>Monotropa uniflora</i>	Convulsionroot	S5/secure (green)	S5/secure	MW
<i>Oclemena acuminata</i>	Whorled Wood Aster	S5/secure (green)	S5/secure	DW, MW
<i>Onoclea sensibilis</i>	Sensitive Fern	S5/secure (green)	S5/secure	W
<i>Osmunda regalis</i>	Royal fern	S5/secure (green)	S5/secure	W
<i>Osmundastrum cinnamomeum</i>	Cinnamon Fern	S5/secure (green)	S5/secure	W
<i>Parathelypteris novaboracensis</i>	New York Fern	S5/secure (green)	S5/secure	DW, W
<i>Phegopteris connectilis</i>	Northern Beech Fern	S5/secure (green)	S5/secure	DW
<i>Picea mariana</i>	Black Spruce	S5/secure (green)	S5/secure	B
<i>Picea rubens</i>	Red Spruce	S5/secure (green)	S5/secure	CW, MW
<i>Pinus strobus</i>	White Pine	S5/secure (green)	S5/secure	MW
<i>Poa palustris</i>	Fowl Blue Grass	S5/secure (green)	S5/secure	W
<i>Poa saltuensis**</i>	Weak Blue Grass	S5/secure (green)	S5/secure	DW
<i>Polygonum cilinode</i>	Black Bindweed			
<i>Polystichum acrostichoides</i>	Christmas Fern	S5/secure (green)	S5/secure	CO, MW
<i>Populus tremuloides</i>	Trembling Aspen	S5/secure (green)	S5/secure	CO
<i>Potentilla simplex</i> var. <i>calvescens</i>	Old Field Cinquefoil	S5/secure (green)	S5/secure	W
<i>Prunus pensylvanica**</i>	Pin Cherry	S5/secure (green)	S5/secure	MW, W
<i>Prunus serotina**</i>	Blackcherry	S5/secure (green)	S5/secure	W
<i>Prunus virginiana**</i>	Chokecherry	S5/secure (green)	S5/secure	DW, W
<i>Pteridium aquilinum</i>	Bracken Fern	S5/secure (green)	S5/secure	MW
<i>Quercus rubra</i>	Northern Red Oak	S5/secure (green)	S5/secure	MW
<i>Ranunculus abortivus</i>	Kidneyleaved Buttercup	S4S5/apparently secure (light green)	S4/S5/apparently secure	DW
<i>Ranunculus repens</i>	Creeping Buttercup	non-native/exotic	exotic	W
<i>Ribes hirtellum**</i>	Smooth Gooseberry	S5/secure (green)	S5/secure	W
<i>Ribes lacustre**</i>	Bristly Black Currant	S5/secure (green)	S5/secure	DW

Latin Name	Common Name	Nova Scotia General Status Rank*	ACCDC Subnational Status Rank**	Habitat(s)
<i>*Rubus idaeus ssp. strigosus</i>	Wild Raspberry	S5/secure (green)	S5/secure	DW, Q, W
<i>Rubus pubescens</i>	Dwarf Red Raspberry	S5/secure (green)	S5/secure	DW, MW
<i>Rubus sp.</i>	a blackberry	-	-	MW, Q
<i>Rumex crispus**</i>	Curled Dock	non-native/exotic	exotic	W
<i>Rumex obtusifolious</i>	Bitter Dock	non-native/exotic	exotic	W
<i>Salix bebbiana**</i>	Bebb's Willow	S5/secure (green)	S5/secure	W
<i>Salix spp.</i>	willows	-	-	W
<i>Sambucus racemosa</i>	Red Elderberry	S5/secure (green)	S5/secure	MW, Q
<i>Scirpus cyperinus</i>	Common Woolly Bulrush	S5/secure (green)	S5/secure	W
<i>Scutellaria galericulata**</i>	Marsh Skullcap	S5/secure (green)	S5/secure	W
<i>Scutellaria lateriflora</i>	Mad-dog Skullcap	S5/secure (green)	S5/secure	W
<i>Senecio viscosus</i>	Sticky Ragwort	non-native/exotic	exotic	Q
<i>Sium suave</i>	Common Water Parsnip	S5/secure (green)	S5/secure	W
<i>Solidago flexicaulis</i>	Zigzag Goldenrod	S5/secure (green)	S5/secure	DW
<i>Solidago rugosa</i>	Rough Goldenrod	S5/secure (green)	S5/secure	DW, MW, Q, W
<i>Sorbus aucuparia</i>	European Mountain Ash	non-native/exotic	exotic	MW
<i>Sparganium sp.</i>	a burreed	-	-	W
<i>Spinulum annotinum</i>	Stiff Clubmoss	S5/secure (green)	S5/secure	MW
<i>Spiraea alba var. latifolia</i>	White meadowsweet	S5/secure (green)	S5/secure	W
<i>Spiranthes cernua</i>	Nodding Ladies' Tresses	S4?/apparently secure	S4?/apparently secure	Q
<i>Streptopus lanceolatus</i>	Rose Twisted Stalk	S5/secure (green)	S5/secure	DW
<i>Symphyotrichum cordifolium</i>	Heart-leaved Aster	S4S5/apparently secure (light green)	S4S5	MW
<i>Symphyotrichum lateriflorum</i>	Calico Aster	S5/secure (green)	S5/secure	MW, W
<i>Symphyotrichum puniceum**</i>	Purple Stemmed Aster	S5/secure (green)	S5/secure	W
<i>Taraxacum officinale</i>	Common Dandelion	non-native/exotic	exotic	Q



Latin Name	Common Name	Nova Scotia General Status Rank*	ACCDC Subnational Status Rank**	Habitat(s)
<i>Thalictrum pubescens</i> **	Tall Meadowrue	S5/secure (green)	S5/secure	DW, W
<i>Thelypteris palustris</i> **	Eastern Marsh Fern	S5/secure (green)	S5/secure	W
<i>Trifolium repens</i>	White Clover	non-native/exotic	exotic	Q
<i>Trillium cernuum</i> **	Nodding Trillium	S4/apparently secure (light green)	S4/apparently secure	DW
<i>Tsuga canadensis</i>	Eastern Hemlock	S4/apparently secure (light green)	S4/apparently secure	MW
<i>Tussilago farfara</i> **	Colt's-foot	non-native/exotic	exotic	Q
<i>Vaccinium angustifolium</i>	Late Lowbush Blueberry	S5/secure (green)	S5/secure	MW
<i>Vaccinium myrtilloides</i>	Velvet-leaved Blueberry	S5/secure (green)	S5/secure	MW
<i>Veronica officinalis</i> **	Common Speedwell	non-native/exotic	exotic	Q
<i>Veronica scutellata</i> **	Marsh Speedwell	S5/secure (green)	S5/secure	W
<i>Viburnum. cassinoides</i> **	Northern Wild Raisin	S5/secure (green)	S5/secure	W
<i>Viburnum lantanoides</i>	Hobblebush	S5/secure (green)	S4/apparently secure	MW
<i>Viola sp.</i>	a violet	-	-	W

\*The Nova Scotia general status ranks used in this report are based on the ranks used in the 2020 Wild Species of Canada Report (available at <https://www.wildspecies.ca/>) ; **S5 = Secure/green** (at very low or no risk of extirpation in the jurisdiction due to a very extensive range, abundant populations or occurrences, with little to no concern from declines or threats; **S4 = Apparently secure/light green** (at a fairly low risk of extirpation in the jurisdiction due to an extensive range and/or many populations or occurrences, but with possible cause for some concern as a result of local recent declines, threats, or other factors; **S3 = Vulnerable/yellow** (at moderate risk of extirpation in the jurisdiction due to a fairly restricted range, relatively few populations or occurrences, recent and widespread declines, threats, or other factors; **S2 = Imperilled/orange** (at high risk of extirpation in the jurisdiction due to restricted range, few populations or occurrences, steep declines, severe threats, or other factors); **NA = not applicable** (nonnative/exotic).

\*\*ACCDC: Atlantic Canada Conservation Data Centre explanation of status ranks used in this report (<http://accdc.com/en/rank-definitions.html>): **S5 = Secure** (common, widespread, and abundant in the province); **S4 = Apparently Secure** (uncommon but not rare; some cause for long-term concern due to declines or other factors); **S3 = Vulnerable** (Vulnerable in the province due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors making

it vulnerable to extirpation. ); **S2 = Imperiled** (imperiled in the province because of rarity due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors making it very vulnerable to extirpation from the nation or state/province. **SNA = Not Applicable** - a conservation status rank is not applicable because the species is not a suitable target for conservation activities, e.g., a non-native species.



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## **APPENDIX C**

# **MAMMAL AND WILDLIFE SURVEY**

JUNE 2, 2024

# A GENERAL WILDLIFE ASSESSMENT FOR DEXTER CONSTRUCTION'S NEW ANNAN QUARRY, COLCHESTER COUNTY, NS



MARK PULSIFER MSC  
EDGEWOOD ENVIRONMENTAL SERVICES  
Antigonish, Nova Scotia