



C.

Terrestrial Ecology

APPENDIX C1

Plant List

Table 1. Complete Vascular Plant List for the Study Area

Scientific Name	Common Name	¹ S-rank	² CoC	³ CoW	Native Species	⁴ Hamilton Status (2014 NAI)
<i>Acalypha rhomboidea</i>	Common Three-seeded Mercury	S5	0	3	Yes	C
<i>Acer negundo</i>	Manitoba Maple	S5	0	0	Yes	C
<i>Acer nigrum</i>	Black Maple	S4?	7	3	Yes	C
<i>Acer platanoides</i>	Norway Maple	SNA	-	5	No	IX
<i>Acer rubrum</i>	Red Maple	S5	4	0	Yes	C
<i>Acer saccharinum</i>	Silver Maple	S5	5	-3	Yes	C
<i>Acer saccharum</i>	Sugar Maple	S5	4	3	Yes	C
<i>Acer x freemanii</i>	(<i>Acer rubrum</i> X <i>Acer saccharinum</i>)	SNA	6	-5	No	hyb
<i>Achillea millefolium</i>	Common Yarrow	SNA	-	3	No	IX
<i>Actaea pachypoda</i>	White Baneberry	S5	6	5	Yes	C
<i>Agrimonia eupatoria</i>	European Agrimony	SNA	-	-	No	-
<i>Agrimonia gryposepala</i>	Hooked Agrimony	S5	2	3	Yes	C
<i>Agrostis gigantea</i>	Redtop	SNA	-	-3	No	IX
<i>Agrostis</i> sp.	<i>Agrostis</i> species	-	-	-	-	-
<i>Agrostis stolonifera</i>	Creeping Bentgrass	SNA	-	-3	No	IX
<i>Ailanthus altissima</i>	Tree-of-heaven	SNA	-	5	No	IC
<i>Alisma</i> sp.	<i>Alisma</i> species	-	-	-	-	-
<i>Alisma triviale</i>	Northern Water-plantain	S5	1	-5	Yes	X
<i>Alliaria petiolata</i>	Garlic Mustard	SNA	-	0	No	IC
<i>Ambrosia artemisiifolia</i>	Common Ragweed	S5	0	3	Yes	C
<i>Ambrosia trifida</i>	Great Ragweed	S5	0	0	Yes	U
<i>Amelanchier arborea</i>	Downy Serviceberry	S5	5	3	Yes	C
<i>Amelanchier</i> sp.	Serviceberry species	-	-	-	-	-
<i>Amphicarpaea bracteata</i>	American Hog-peanut	S5	4	0	Yes	C
<i>Aralia nudicaulis</i>	Wild Sarsaparilla	S5	4	3	Yes	C
<i>Arctium lappa</i>	Great Burdock	SNA	-	3	No	IX
<i>Arctium minus</i>	Common Burdock	SNA	-	3	No	IC

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<i>Arisaema triphyllum</i>	Jack-in-the-pulpit	S5	5	-3	Yes	C
<i>Asclepias incarnata</i>	Swamp Milkweed	S5	6	-5	Yes	C
<i>Asclepias syriaca</i>	Common Milkweed	S5	0	5	Yes	C
<i>Asparagus officinalis</i>	Garden Asparagus	SNA	-	3	No	IX
<i>Atriplex patula</i>	Spear Saltbush	SNA	-	-3	No	IU
<i>Avena fatua</i>	Common Wild Oats	SNA	-	5	No	-
<i>Barbarea vulgaris</i>	Bitter Wintercress	SNA	-	0	No	IX
<i>Berberis thunbergii</i>	Japanese Barberry	SNA	-	3	No	IX
<i>Betula papyrifera</i>	Paper Birch	S5	2	3	Yes	C
<i>Bidens frondosa</i>	Devil's Beggarticks	S5	3	-3	Yes	C
<i>Brassica nigra</i>	Black Mustard	SNA	-	5	No	IR
<i>Bromus inermis</i>	Smooth Brome	SNA	-	5	No	IC
<i>Bromus sp.</i>	Bromus species	-	-	-	-	-
<i>Bromus tectorum</i>	Downy Brome	SNA	-	5	No	IX
<i>Calystegia sepium</i>	Hedge False Bindweed	S5	2	0	Yes	C
<i>Carex albursina</i>	White Bear Sedge	S5	7	5	Yes	C
<i>Carex crinita</i>	Fringed Sedge	S5	6	-5	Yes	C
<i>Carex gracillima</i>	Graceful Sedge	S5	4	3	Yes	C
<i>Carex hitchcockiana</i>	Hitchcock's Sedge	S4S5	6	5	Yes	C
<i>Carex intumescens</i>	Bladder Sedge	S5	6	-3	Yes	C
<i>Carex lupulina</i>	Hop Sedge	S5	6	-5	Yes	C
<i>Carex molesta</i>	Troublesome Sedge	S4S5	5	0	Yes	C
<i>Carex pedunculata</i>	Long-stalked Sedge	S5	5	3	Yes	C
<i>Carex radiata</i>	Eastern Star Sedge	S5	4	0	Yes	C
<i>Carex rosea</i>	Rosy Sedge	S5	2	5	Yes	C
<i>Carex scoparia</i>	Pointed Broom Sedge	S5	5	-3	Yes	C
<i>Carex sp.</i>	Carex species	-	-	-	-	-
<i>Carex spicata</i>	Spiked Sedge	SNA	-	3	No	IC

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<i>Carex stipata</i>	Awl-fruited Sedge	S5	3	-5	Yes	C
<i>Carex tribuloides</i>	Blunt Broom Sedge	S4	5	-3	Yes	C
<i>Carex vulpinoidea</i>	Fox Sedge	S5	3	-5	Yes	C
<i>Carpinus caroliniana</i>	Blue-beech	S5	6	0	Yes	C
<i>Carya cordiformis</i>	Bitternut Hickory	S5	6	0	Yes	C
<i>Carya glabra</i>	Pignut Hickory	S3	9	3	Yes	R
<i>Carya laciniosa</i>	Shellbark Hickory	S3	9	-3	Yes	-
<i>Carya ovata</i>	Shagbark Hickory	S5	6	3	Yes	C
<i>Celastrus scandens</i>	Climbing Bittersweet	S5	3	3	Yes	C
<i>Centaurea stoebe</i>	Spotted Knapweed	SNA	-	5	No	IX
<i>Cerastium fontanum</i>	Common Mouse-ear Chickweed	SNA	-	3	No	IC
<i>Cichorium intybus</i>	Wild Chicory	SNA	-	5	No	IC
<i>Circaea canadensis</i>	Broad-leaved Enchanter's Nightshade	S5	2	3	Yes	C
<i>Cirsium arvense</i>	Canada Thistle	SNA	-	3	No	IC
<i>Cirsium vulgare</i>	Bull Thistle	SNA	-	3	No	IX
<i>Clinopodium vulgare</i>	Wild Basil	S5	4	5	Yes	C
<i>Convolvulus arvensis</i>	Field Bindweed	SNA	-	5	No	IC
<i>Cornus alternifolia</i>	Alternate-leaved Dogwood	S5	6	3	Yes	C
<i>Cornus obliqua</i>	Silky Dogwood	S5	2	-3	Yes	C
<i>Cornus racemosa</i>	Grey Dogwood	S5	2	0	Yes	C
<i>Cornus sericea</i>	Red-osier Dogwood	S5	2	-3	Yes	C
<i>Crataegus chrysoarpa</i>	Fireberry Hawthorn	S5	4	5	Yes	U
<i>Crataegus coccinea</i>	Scarlet Hawthorn	S5	4	5	Yes	R
<i>Crataegus crus-galli</i>	Cockspur Hawthorn	S4	4	0	Yes	C
<i>Crataegus macracantha</i>	Large-thorned Hawthorn	S5	4	5	Yes	U
<i>Crataegus mollis</i>	Downy Hawthorn	S4S5	4	0	Yes	U
<i>Crataegus monogyna</i>	English Hawthorn	SNA	-	3	No	IX
<i>Crataegus punctata</i>	Dotted Hawthorn	S5	4	5	Yes	C

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<i>Crataegus sp.</i>	Hawthorn species	-	-	-	-	-
<i>Crataegus succulenta</i>	Fleshy Hawthorn	S5	4	5	Yes	C
<i>Crepis sp.</i>	Hawksbeard species	-	-	-	-	-
<i>Cyperus esculentus</i>	Perennial Yellow Flatsedge	S5	1	-3	Yes	C
<i>Cyperus fuscus</i>	Brown Flatsedge	SNA	-	-3	No	-
<i>Dactylis glomerata</i>	Orchard Grass	SNA	-	3	No	IC
<i>Daucus carota</i>	Wild Carrot	SNA	-	5	No	IC
<i>Dianthus armeria</i>	Deptford Pink	SNA	-	5	No	IC
<i>Dianthus deltoides</i>	Maiden Pink	SNA	-	5	No	-
<i>Dipsacus fullonum</i>	Common Teasel	SNA	-	3	No	IX
<i>Dryopteris carthusiana</i>	Spinulose Wood Fern	S5	5	-3	Yes	C
<i>Echinochloa crus-galli</i>	Large Barnyard Grass	SNA	-	-3	No	IC
<i>Echinochloa sp.</i>	Barnyard Grass species	-	-	-	-	-
<i>Echinocystis lobata</i>	Wild Cucumber	S5	3	-3	Yes	C
<i>Elaeagnus angustifolia</i>	Russian Olive	SNA	-	3	No	IX
<i>Eleocharis erythropoda</i>	Red-stemmed Spikerush	S5	4	-5	Yes	C
<i>Eleocharis obtusa</i>	Blunt Spikerush	S5	5	-5	Yes	C
<i>Eleocharis palustris</i>	Creeping Spikerush	S5	6	-5	Yes	C
<i>Elodea canadensis</i>	Canada Waterweed	S5	4	-5	Yes	C
<i>Elymus hystrix</i>	Bottlebrush Grass	S5	5	5	Yes	C
<i>Elymus repens</i>	Quackgrass	SNA	-	3	No	IC
<i>Elymus virginicus</i>	Virginia Wildrye	S5	5	-3	Yes	C
<i>Epifagus virginiana</i>	Beechdrops	S5	6	5	Yes	C
<i>Epilobium ciliatum</i>	Northern Willowherb	S5	3	-3	Yes	C
<i>Epilobium hirsutum</i>	Hairy Willowherb	SNA	-	-3	No	IX
<i>Erigeron annuus</i>	Annual Fleabane	S5	0	3	Yes	C
<i>Erigeron sp.</i>	Fleabane species	-	-	-	-	-
<i>Erigeron strigosus</i>	Rough Fleabane	S5	4	3	Yes	C

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<i>Erythronium americanum</i>	Yellow Trout-lily	S5	5	5	Yes	C
<i>Euonymus alatus</i>	Winged Euonymus	SNA	-	5	No	IR
<i>Euonymus europaeus</i>	European Euonymus	SNA	-	5	No	-
<i>Euonymus obovatus</i>	Running Strawberry-bush	S4	6	5	Yes	C
<i>Eupatorium perfoliatum</i>	Common Boneset	S5	2	-3	Yes	C
<i>Euphorbia dentata</i>	Toothed Spurge	SNA	-	5	No	-
<i>Eurybia macrophylla</i>	Large-leaved Aster	S5	5	5	Yes	C
<i>Euthamia graminifolia</i>	Grass-leaved Goldenrod	S5	2	0	Yes	C
<i>Eutrochium maculatum</i>	Spotted Joe Pye Weed	S5	3	-5	Yes	C
<i>Fagus grandifolia</i>	American Beech	S4	6	3	Yes	C
<i>Fagus sylvatica</i>	European Beech	-	-	-	No	-
<i>Festuca arvernensis</i>	Blue Fescue	-	-	-	No	-
<i>Festuca sp.</i>	Fescue species	-	-	-	-	-
<i>Fragaria vesca</i>	Woodland Strawberry	S5	4	3	Yes	C
<i>Fragaria virginiana</i>	Wild Strawberry	S5	2	3	Yes	C
<i>Fraxinus americana</i>	White Ash	S4	4	3	Yes	C
<i>Fraxinus nigra</i>	Black Ash	S4	7	-3	Yes	C
<i>Fraxinus pennsylvanica</i>	Red Ash	S4	3	-3	Yes	C
<i>Fraxinus sp.</i>	Ash species	-	-	-	-	-
<i>Galium aparine</i>	Common Bedstraw	S5	4	3	Yes	C
<i>Galium palustre</i>	Common Marsh Bedstraw	S5	5	-5	Yes	C
<i>Geranium maculatum</i>	Spotted Geranium	S5	6	3	Yes	C
<i>Geranium robertianum</i>	Herb-Robert	S5	2	3	Yes	C
<i>Geum canadense</i>	Canada Avens	S5	3	0	Yes	C
<i>Geum laciniatum</i>	Rough Avens	S4	4	-3	Yes	C
<i>Geum sp.</i>	Avens species	-	-	-	-	-
<i>Geum urbanum</i>	Wood Avens	SNA	-	5	No	IX
<i>Glechoma hederacea</i>	Ground-ivy	SNA	-	3	No	IC

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<i>Gleditsia triacanthos</i>	Honey Locust	S2?	8	0	Yes	IX
<i>Glyceria septentrionalis</i>	Eastern Mannagrass	S4	7	-5	Yes	C
<i>Glyceria striata</i>	Fowl Mannagrass	S5	3	-5	Yes	C
<i>Hackelia virginiana</i>	Virginia Stickseed	S5	5	3	Yes	C
<i>Hemerocallis fulva</i>	Orange Daylily	SNA	-	5	No	IX
<i>Hesperis matronalis</i>	Dame's Rocket	SNA	-	3	No	IC
<i>Hordeum jubatum</i>	Foxtail Barley	S5?	0	0	Yes	IX
<i>Hydrophyllum virginianum</i>	Virginia Waterleaf	S5	6	0	Yes	C
<i>Hypericum perforatum</i>	Common St. John's-wort	SNA	-	5	No	IC
<i>Ilex verticillata</i>	Common Winterberry	S5	5	-3	Yes	C
<i>Impatiens capensis</i>	Spotted Jewelweed	S5	4	-3	Yes	C
<i>Iris sp.</i>	Irish species	-	-	-	-	-
<i>Juglans cinerea hybrid</i>	Butternut hybrid	-	-	-	-	-
<i>Juglans nigra</i>	Black Walnut	S4?	5	3	Yes	C
<i>Juncus dudleyi</i>	Dudley's Rush	S5	1	-3	Yes	C
<i>Juncus effusus</i>	Soft Rush	S5	4	-5	Yes	C
<i>Juncus tenuis</i>	Path Rush	S5	0	0	Yes	C
<i>Juncus torreyi</i>	Torrey's Rush	S5	3	-3	Yes	C
<i>Lactuca serriola</i>	Prickly Lettuce	SNA	-	3	No	IX
<i>Lamium amplexicaule</i>	Common Dead-nettle	SNA	-	5	No	IX
<i>Leersia oryzoides</i>	Rice Cutgrass	S5	3	-5	Yes	C
<i>Leersia virginica</i>	White Cutgrass	S4	6	-3	Yes	C
<i>Lemna minor</i>	Small Duckweed	S5	5	-5	Yes	C
<i>Leonurus cardiaca</i>	Common Motherwort	SNA	-	5	No	IC
<i>Leucanthemum vulgare</i>	Oxeye Daisy	SNA	-	5	No	IX
<i>Ligustrum vulgare</i>	European Privet	SNA	-	3	No	IX
<i>Lolium pratense</i>	Meadow Ryegrass	SNA	-	3	No	IX
<i>Lonicera dioica</i>	Limber Honeysuckle	S5	5	3	Yes	C
<i>Lonicera sp.</i>	Honeysuckle species	-	-	-	-	-

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<i>Lonicera tatarica</i>	Tatarian Honeysuckle	SNA	-	3	No	IX
<i>Lotus corniculatus</i>	Garden Bird's-foot Trefoil	SNA	-	3	No	IC
<i>Luzula multiflora</i>	Many-flowered Woodrush	S5	6	3	Yes	C
<i>Lycium barbarum</i>	Common Matrimony Vine	SNA	-	5	No	-
<i>Lycopus americanus</i>	American Water-horehound	S5	4	-5	Yes	C
<i>Lythrum salicaria</i>	Purple Loosestrife	SNA	-	-5	No	IC
<i>Maclura pomifera</i>	Osage-orange	SNA	-	3	No	IR
<i>Magnolia sp.</i>	Magnolia species	-	-	-	N/A	-
<i>Maianthemum racemosum</i>	Large False Solomon's Seal	S5	4	3	Yes	C
<i>Malus baccata</i>	Siberian Crabapple	SNA	-	5	No	IR
<i>Malus pumila</i>	Common Apple	SNA	-	5	No	IX
<i>Malus sp.</i>	Apple species	-	-	-	N/A	-
<i>Matteuccia struthiopteris</i>	Ostrich Fern	S5	5	0	Yes	C
<i>Medicago lupulina</i>	Black Medick	SNA	-	3	No	IC
<i>Melilotus albus</i>	White Sweet-clover	SNA	-	3	No	IC
<i>Melilotus officinalis</i>	Yellow Sweet-clover	SNA	-	3	No	IC
<i>Menispermum canadense</i>	Canada Moonseed	S4	7	0	Yes	-
<i>Mentha arvensis</i>	Wild Mint	-	-	-	No	C
<i>Mentha canadensis</i>	Canada Mint	S5	3	-3	Yes	C
<i>Morus alba</i>	White Mulberry	SNA	-	0	No	IC
<i>Nepeta cataria</i>	Catnip	SNA	-	3	No	IX
<i>Oenothera biennis</i>	Common Evening-primrose	S5	0	3	Yes	C
<i>Onoclea sensibilis</i>	Sensitive Fern	S5	4	-3	Yes	C
<i>Ostrya virginiana</i>	Eastern Hop-hornbeam	S5	4	3	Yes	C
<i>Oxalis stricta</i>	Upright Yellow Wood-sorrel	SNA	-	3	No	C
<i>Panicum capillare</i>	Common Panicgrass	S5	0	0	Yes	C
<i>Panicum dichotomiflorum</i>	Fall Panicgrass	SNA	-	-3	No	IX
<i>Parthenocissus vitacea</i>	Thicket Creeper	S5	4	3	Yes	C
<i>Persicaria hydropiper</i>	Marshpepper Smartweed	SNA	-	-5	No	IX
<i>Persicaria pensylvanica</i>	Pennsylvania Smartweed	S5	3	-3	Yes	C

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<i>Phalaris arundinacea</i> var. <i>arundinacea</i>	Reed Canarygrass	S5	0	-3	Yes	C
<i>Phleum pratense</i>	Common Timothy	SNA	-	3	No	IC
<i>Phragmites australis</i> ssp. <i>Australis</i>	European Reed	SNA	-	-3	No	X
<i>Picea abies</i>	Norway Spruce	SNA	-	5	No	IR
<i>Picea glauca</i>	White Spruce	S5	6	3	Yes	C
<i>Picris hieracioides</i>	Hawkweed Oxtongue	SNA	-	5	No	IR
<i>Pinus nigra</i>	Austrian Pine	SNA	-	5	No	IR
<i>Pinus strobus</i>	Eastern White Pine	S5	4	3	Yes	C
<i>Pinus sylvestris</i>	Scots Pine	SNA	-	3	No	IX
<i>Poa alsodes</i>	Grove Bluegrass	S4	7	0	Yes	U
<i>Poa compressa</i>	Canada Bluegrass	SNA	-	3	No	IX
<i>Poa palustris</i>	Fowl Bluegrass	S5	5	-3	Yes	C
<i>Poa pratensis</i>	Kentucky Bluegrass	S5	0	3	Yes	IC
<i>Poa</i> sp.	Poa species	-	-	-	-	-
<i>Podophyllum peltatum</i>	May-apple	S5	5	3	Yes	C
<i>Polygonum</i> sp.	Polygonum species	-	-	-	-	-
<i>Populus deltoides</i>	Eastern Cottonwood	S5	4	0	Yes	C
<i>Populus grandidentata</i>	Large-toothed Aspen	S5	5	5	Yes	C
<i>Populus tremuloides</i>	Trembling Aspen	S5	2	0	Yes	C
<i>Potamogeton pusillus</i>	Small Pondweed	S5	4	-5	Yes	C
<i>Potentilla norvegica</i>	Rough Cinquefoil	S5	0	0	Yes	X
<i>Potentilla recta</i>	Sulphur Cinquefoil	SNA	-	5	No	IX
<i>Potentilla simplex</i>	Old-field Cinquefoil	S5	3	3	Yes	C
<i>Prunella vulgaris</i>	Common Self-heal	S5	0	0	Yes	-
<i>Prunus avium</i>	Sweet Cherry	SNA	-	5	No	IX
<i>Prunus padus</i>	European Bird Cherry	SNA	-	5	No	-
<i>Prunus pensylvanica</i>	Pin Cherry	S5	3	3	Yes	C
<i>Prunus serotina</i>	Black Cherry	S5	3	3	Yes	C
<i>Prunus</i> sp.	Cherry species	-	-	-	-	-
<i>Prunus virginiana</i>	Chokecherry	S5	2	3	Yes	C

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<i>Pyrus communis</i>	Common Pear	SNA	-	5	No	IX
<i>Pyrus sp.</i>	Pear species	-	-	-	-	-
<i>Quercus alba</i>	White Oak	S5	6	3	Yes	C
<i>Quercus bicolor</i>	Swamp White Oak	S4	8	-3	Yes	C
<i>Quercus macrocarpa</i>	Bur Oak	S5	5	3	Yes	C
<i>Quercus rubra</i>	Northern Red Oak	S5	6	3	Yes	C
<i>Ranunculus abortivus</i>	Kidney-leaved Buttercup	S5	2	0	Yes	C
<i>Ranunculus recurvatus</i>	Hooked Buttercup	S5	4	-3	Yes	C
<i>Ranunculus sceleratus</i>	Cursed Buttercup	S5	2	-5	Yes	C
<i>Reynoutria japonica</i>	Japanese Knotweed	SNA	-	3	No	IX
<i>Rhamnus cathartica</i>	European Buckthorn	SNA	-	0	No	IX
<i>Rhus typhina</i>	Staghorn Sumac	S5	1	3	Yes	C
<i>Ribes americanum</i>	American Black Currant	S5	4	-3	Yes	C
<i>Ribes cynosbati</i>	Eastern Prickly Gooseberry	S5	4	3	Yes	C
<i>Ribes rubrum</i>	European Red Currant	SNA	-	5	No	IX
<i>Ribes sp.</i>	Ribes species	-	-	-	-	-
<i>Ribes triste</i>	Swamp Red Currant	S5	6	-5	Yes	C
<i>Robinia pseudoacacia</i>	Black Locust	SNA	-	3	No	-
<i>Rorippa palustris</i>	Marsh Yellowcress	S5	3	-5	Yes	C
<i>Rosa multiflora</i>	Multiflora Rose	SNA	-	3	No	IC
<i>Rosa rubiginosa</i>	Sweetbriar Rose	SNA	-	3	No	IX
<i>Rubus idaeus</i>	Red Raspberry	S5	2	3	Yes	C
<i>Rubus idaeus ssp. idaeus</i>	European Red Raspberry	SNA	-	3	No	IR
<i>Rubus occidentalis</i>	Black Raspberry	S5	2	5	Yes	C
<i>Rubus pubescens</i>	Dwarf Raspberry	S5	4	-3	Yes	C
<i>Rumex crispus</i>	Curled Dock	SNA	-	0	No	IX
<i>Rumex verticillatus</i>	Swamp Dock	S4	7	-5	Yes	C
<i>Salix amygdaloides</i>	Peach-leaved Willow	S5	6	-3	Yes	C
<i>Salix bebbiana</i>	Bebb's Willow	S5	4	-3	Yes	C
<i>Salix eriocephala</i>	Cottony Willow	S5	4	-3	Yes	C

Scientific Name	Common Name	¹ S-rank	² CoC	³ CoW	Native Species	⁴ Hamilton Status (2014 NAI)
<i>Salix euxina</i>	Crack Willow	SNA	-	0	No	IX
<i>Salix interior</i>	Sandbar Willow	S5	1	-3	Yes	C
<i>Salix nigra</i>	Black Willow	S4	6	-5	Yes	C
<i>Salix petiolaris</i>	Meadow Willow	S5	3	-3	Yes	C
<i>Salix sp.</i>	Willow species	-	-	-	-	-
<i>Salix X fragilis</i>	(<i>Salix alba</i> X <i>Salix euxina</i>)	SNA	-	-	No	hyb
<i>Salix x sepulcralis</i>	(<i>Salix alba</i> X <i>Salix babylonica</i>)	SNA	-	-	No	hyb
<i>Sambucus canadensis</i>	Common Elderberry	S5	5	-3	Yes	C
<i>Sanguinaria canadensis</i>	Bloodroot	S5	5	3	Yes	C
<i>Schoenoplectus tabernaemontani</i>	Soft-stemmed Bulrush	S5	5	-5	Yes	C
<i>Scirpus atrovirens</i>	Dark-green Bulrush	S5	3	-5	Yes	C
<i>Scirpus cyperinus</i>	Common Woolly Bulrush	S5	4	-5	Yes	C
<i>Scirpus sp.</i>	Scirpus species	-	-	-	-	-
<i>Sinapis arvensis</i>	Corn Mustard	SNA	-	5	No	IX
<i>Sium suave</i>	Common Water-parsnip	S5	4	-5	Yes	C
<i>Solanum dulcamara</i>	Bittersweet Nightshade	SNA	-	0	No	IC
<i>Solidago altissima</i>	Tall Goldenrod	S5	1	3	Yes	C
<i>Solidago canadensis</i>	Canada Goldenrod	S5	1	3	Yes	C
<i>Solidago flexicaulis</i>	Zigzag Goldenrod	S5	6	3	Yes	C
<i>Solidago gigantea</i>	Giant Goldenrod	S5	4	-3	Yes	C
<i>Solidago sp.</i>	Goldenrod species	-	-	-	-	-
<i>Sonchus arvensis</i>	Field Sow-thistle	SNA	-	3	No	IC
<i>Sorbus aucuparia</i>	European Mountain-ash	SNA	-	5	No	IX
<i>Symphyotrichum ericoides</i>	White Heath Aster	S5	4	3	Yes	C
<i>Symphyotrichum lanceolatum</i>	Panicled Aster	S5	3	-3	Yes	C
<i>Symphyotrichum lateriflorum</i>	Calico Aster	S5	3	0	Yes	C
<i>Symphyotrichum novae-angliae</i>	New England Aster	S5	2	-3	Yes	C
<i>Symphyotrichum pilosum</i>	Old Field Aster	S5	-	3	Yes	C
<i>Symphyotrichum puniceum</i>	Purple-stemmed Aster	S5	6	-5	Yes	C
<i>Symphyotrichum sp.</i>	Aster species	-	-	-	-	-

Scientific Name	Common Name	¹ S-rank	² CoC	³ CoW	Native Species	⁴ Hamilton Status (2014 NAI)
<i>Syringa reticulata</i>	Japanese Tree Lilac	SNA	-	-	No	IR
<i>Syringa vulgaris</i>	Common Lilac	SNA	-	5	No	IR
<i>Taraxacum officinale</i>	Common Dandelion	SNA	-	3	No	IC
<i>Thuja occidentalis</i>	Eastern White Cedar	S5	4	-3	Yes	C
<i>Tilia americana</i>	Basswood	S5	4	3	Yes	C
<i>Tilia cordata</i>	Little-leaved Linden	SNA	-	5	No	IR
<i>Toxicodendron radicans</i>	Poison Ivy	S5	2	0	Yes	C
<i>Toxicodendron radicans var. radicans</i>	Eastern Poison Ivy	S5	2	0	Yes	C
<i>Toxicodendron radicans var. rydbergii</i>	Western Poison Ivy	S5	2	0	Yes	C
<i>Tragopogon sp.</i>	Tragopogon species	-	-	-	-	-
<i>Trifolium pratense</i>	Red Clover	SNA	-	3	No	IC
<i>Trifolium repens</i>	White Clover	SNA	-	3	No	IC
<i>Trillium grandiflorum</i>	White Trillium	S5	5	3	Yes	C
<i>Typha angustifolia</i>	Narrow-leaved Cattail	SNA	-	-5	No	IX
<i>Typha latifolia</i>	Broad-leaved Cattail	S5	1	-5	Yes	C
<i>Typha x glauca</i>	(<i>Typha angustifolia</i> X <i>Typha latifolia</i>)	SNA	-	-5	No	hyb
<i>Ulmus americana</i>	White Elm	S5	3	-3	Yes	C
<i>Ulmus pumila</i>	Siberian Elm	SNA	-	3	No	IX
<i>Urtica dioica</i>	Stinging Nettle	SNA	-	0	No	-
<i>Verbascum thapsus</i>	Common Mullein	SNA	-	5	No	IC
<i>Verbena urticifolia</i>	White Vervain	S5	4	0	Yes	C
<i>Veronica officinalis</i>	Common Speedwell	SNA	-	5	No	IC
<i>Viburnum acerifolium</i>	Maple-leaved Viburnum	S5	6	5	Yes	C
<i>Viburnum lantana</i>	Wayfaring Viburnum	SNA	-	5	No	IR
<i>Viburnum lentago</i>	Nannyberry	S5	4	0	Yes	C
<i>Viburnum opulus</i>	Cranberry Viburnum	S5	5	-3	Yes	IX
<i>Viburnum sp.</i>	Viburnum species	-	-	-	-	-
<i>Vicia cracca</i>	Tufted Vetch	SNA	-	5	No	IC
<i>Vicia tetrasperma</i>	Four-seed Vetch	SNA	-	5	No	IX

Scientific Name	Common Name	¹ S-rank	² CoC	³ CoW	Native Species	⁴ Hamilton Status (2014 NAI)
<i>Viola cucullata</i>	Marsh Blue Violet	S5	5	-5	Yes	C
<i>Viola sororia</i>	Woolly Blue Violet	S5	4	0	Yes	C
<i>Vitis riparia</i>	Riverbank Grape	S5	0	0	Yes	C

¹S-rank refers to the subnational rank that indicates the rarity and risk of a species within a region, ranging from S1, which indicates a critically imperiled species, to S5, which indicates a regionally secure species.

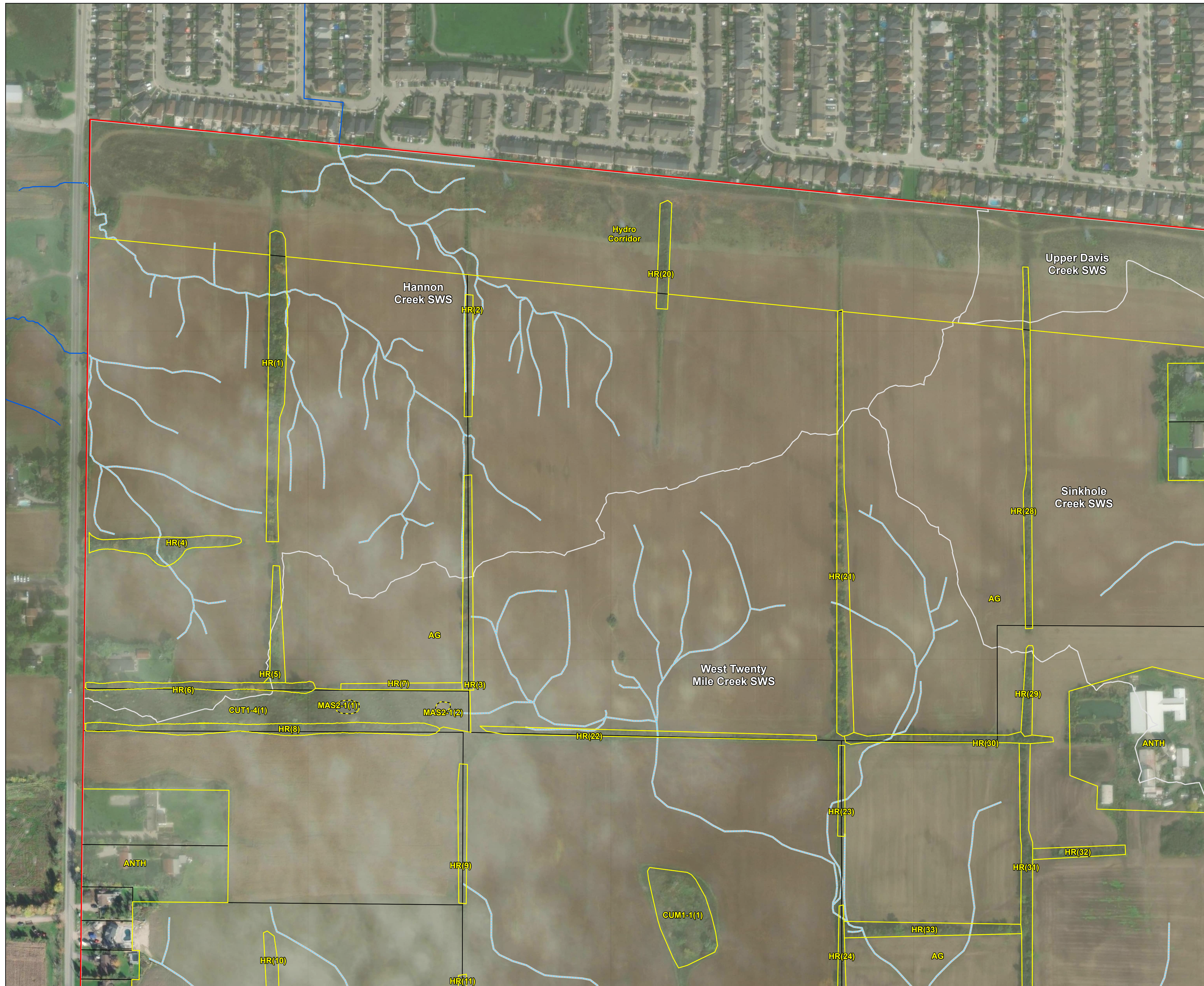
²CoC refers to the coefficient of conservatism, which indicates species sensitivity to disturbance on a scale of 0 to 10, with the most conservative or sensitive plants receiving a score of 10 and the least receiving a score of 0.

³CoW refers to the coefficient of wetness, which indicates a species' tolerance for soil moisture on a scale of 5 to -5, with -5 being species with a high tolerance for soil moisture, and 5 being species with a low tolerance.

⁴The letter codes given for species status in Hamilton are: I – introduced, C – common, U – uncommon, R – rare, H – historic records only (generally >30 years), X – present; status unknown or not specified in source lists, ? – unconfirmed report, hyb – hybrid species. Species with no code given were not given a status in the 2014 Hamilton Natural Areas Inventory.

APPENDIX C2

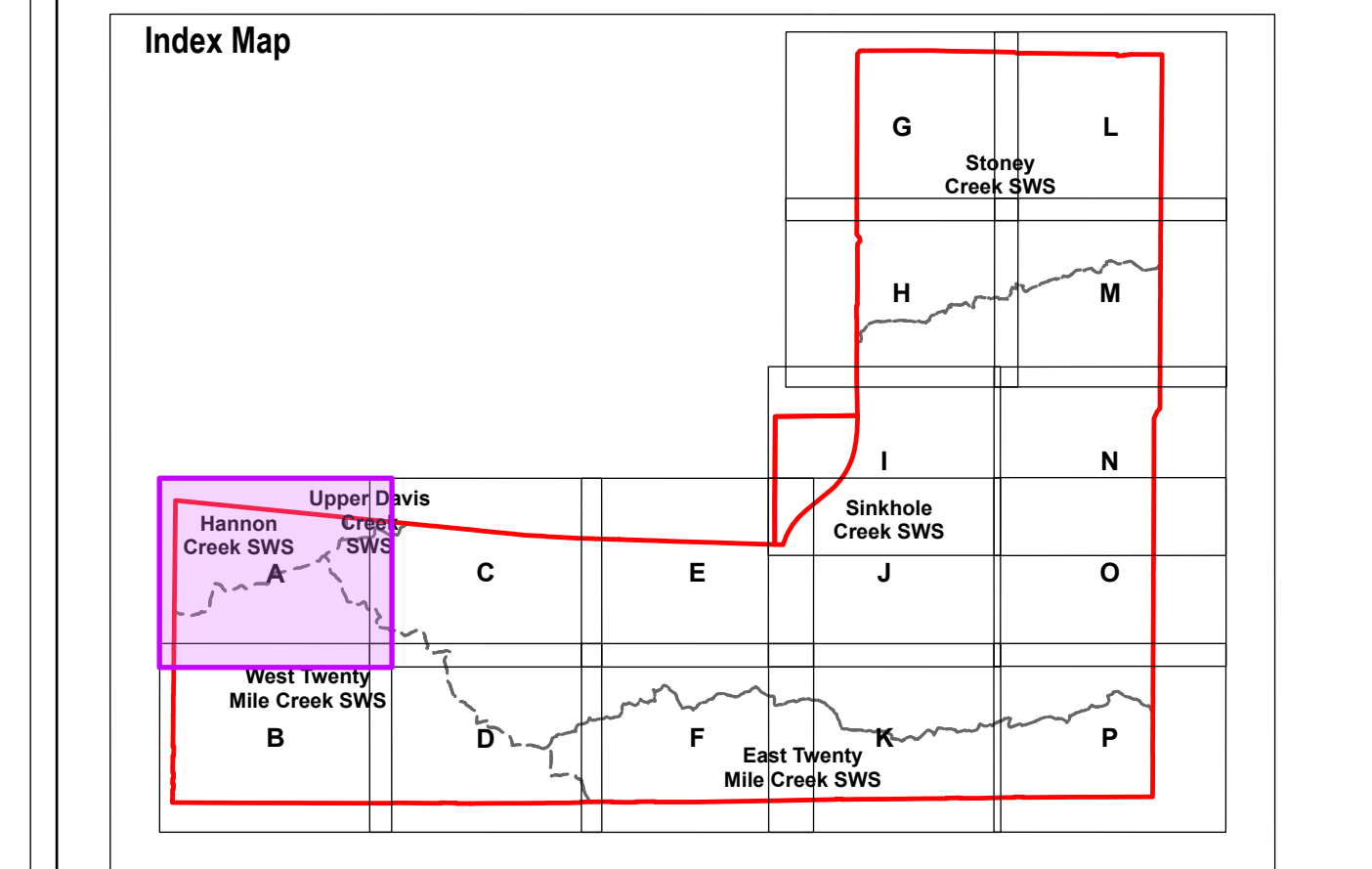
Ecological Land Classification (ELC) Map Book



LEGEND

Study Area	Drainage Feature ¹
Additional Lands (Unsurveyed)	Headwater Drainage Feature (HDF) ²
Subject Property	Unevaluated Drainage Feature within Non-Participating Land
Subwatershed Boundary	Evaluated Drainage Feature within Participating Land
Ecological Land Classification (ELC)	
ELC Inclusion	

LABEL	DESC
AG	Agricultural
ANTH	Anthropogenic
CUM1-1	Dry-Moist Old Field Mineral Cultural Meadow
CUT1-4	Gray Dogwood Cultural Thicket
HR	Hedgerow
Hydro Corridor	
MAS2-1	Cattail Mineral Shallow Marsh Type



1 - Watercourses as labelled by Geohub Ontario mapping. Subject to refinement following field studies, data has been refined in specific locations based off field observations and satellite imagery to better reflect current conditions.
 2 - HDF classifications within non participating properties were assessed based on the most conservative adjacent HDF classification.

NOTE: The information contained within this figure is preliminary and will be refined during further study. Features delineated within non-participating properties will need to be verified at a later date, refer to Fig 1.4.1 for list of non-participating properties.



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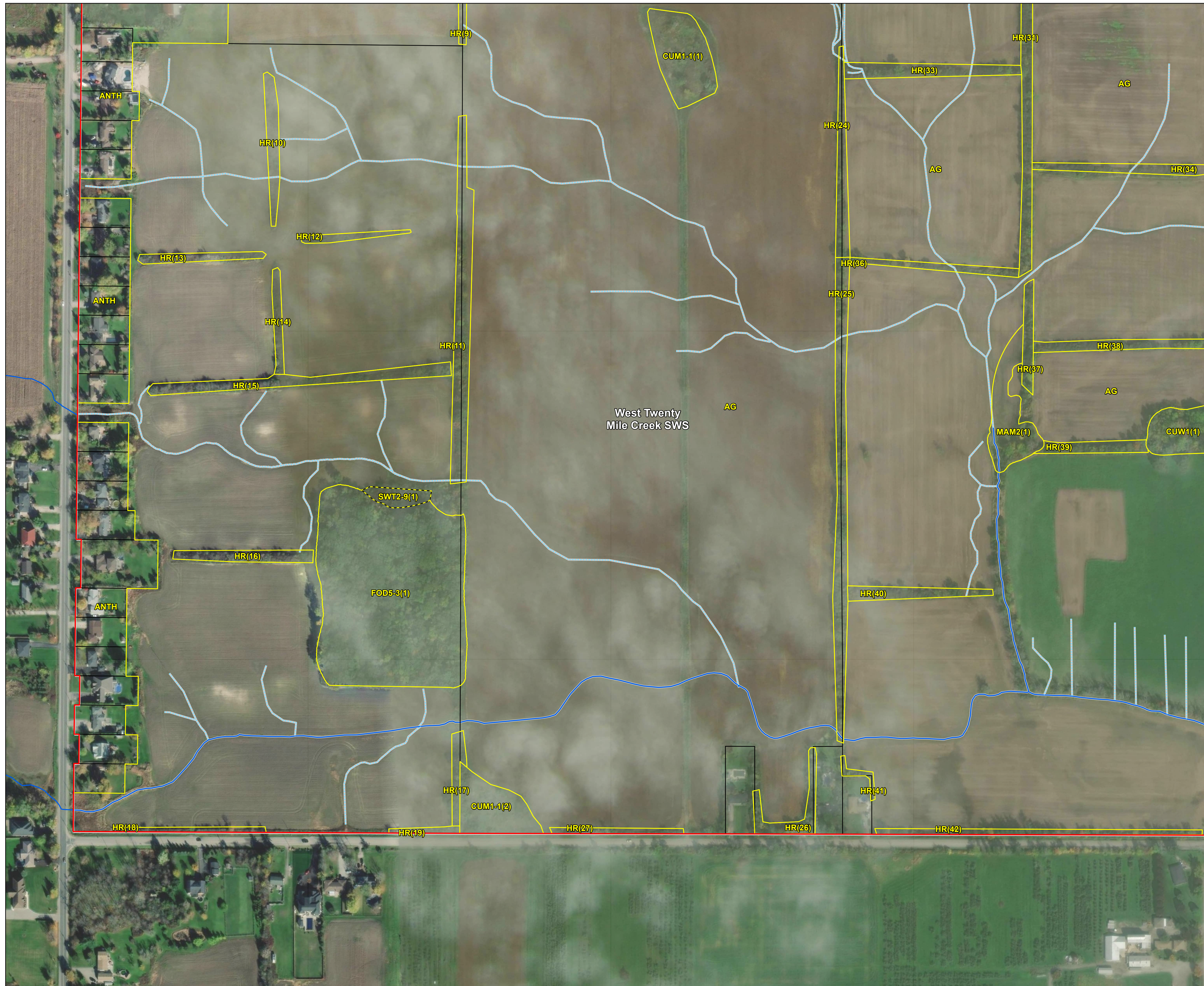


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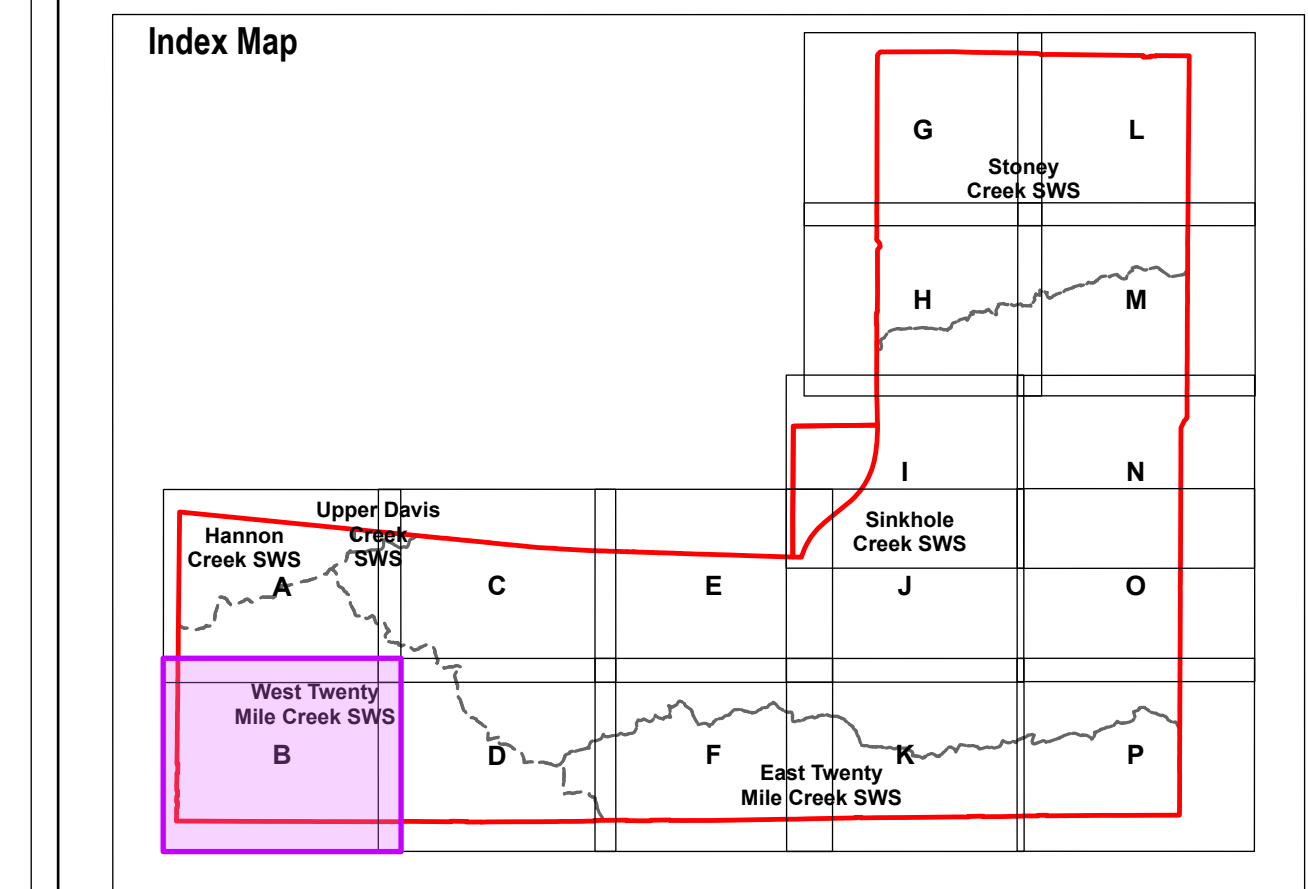
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	Figure 3.1.2 A



LEGEND

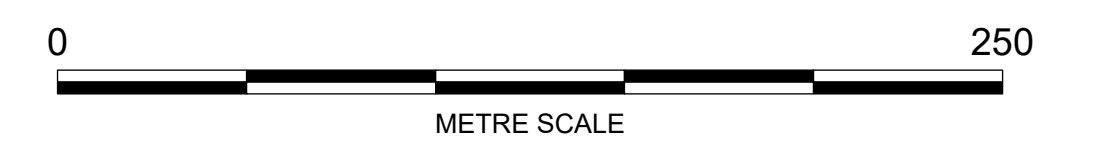
Study Area	Drainage Feature ¹
Additional Lands (Unsurveyed)	Headwater Drainage Feature (HDF) ²
Subject Property	Unevaluated Drainage Feature within Non-Participating Land
Subwatershed Boundary	Evaluated Drainage Feature within Participating Land
Ecological Land Classification (ELC)	
ELC Inclusion	

LABEL	DESC
AG	Agricultural
ANTH	Anthropogenic
CUM1-1	Dry-Moist Old Field Mineral Cultural Meadow
CUW1	Mineral Cultural Woodland
FOD5-3	Dry - Fresh Sugar Maple - Oak Deciduous Forest
HR	Hedgerow
MAM2	Graminoid Mineral Meadow Marsh Ecosite
SWT2-9	Gray Dogwood Mineral Thicket Swamp



1 - Watercourses as labelled by Geohub Ontario mapping. Subject to refinement following field studies, data has been refined in specific locations based off field observations and satellite imagery to better reflect current conditions.
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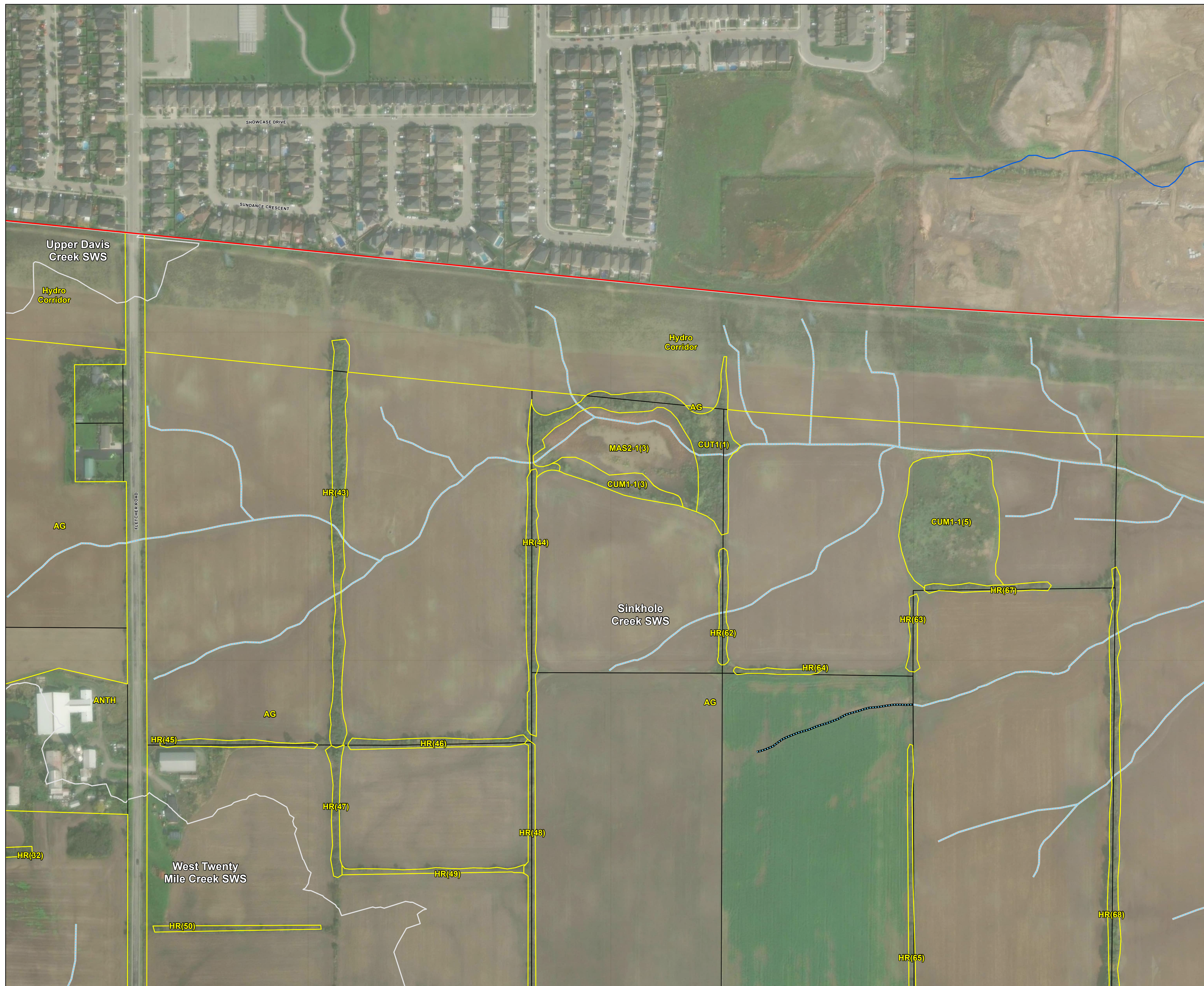


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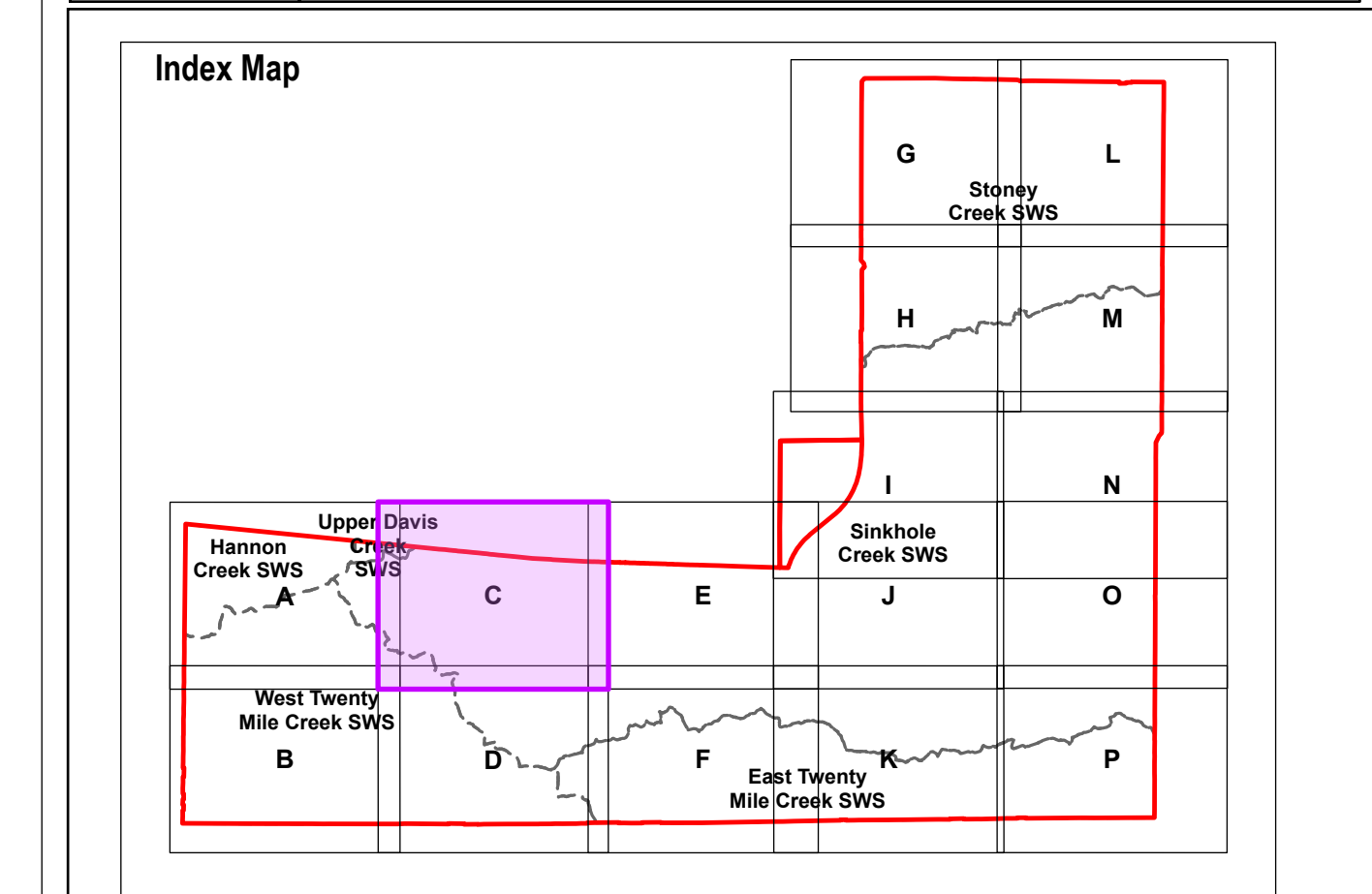
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	Figure 3.1.2 B



LEGEND

Study Area	Drainage Feature ¹
Additional Lands (Unsurveyed)	Headwater Drainage Feature (HDF) ²
Subject Property	Unevaluated Drainage Feature within Non-Participating Land
Subwatershed Boundary	Evaluated Drainage Feature within Participating Land
Ecological Land Classification (ELC)	

LABEL	DESC
AG	Agricultural
ANTH	Anthropogenic
CUM1-1	Dry-Moist Old Field Mineral Cultural Meadow
CUT1	Mineral Cultural Woodland
HR	Hedgerow
Hydro Corridor	
MAS2-1	Cattail Mineral Shallow Marsh Type



1 - Watercourses as labelled by Geohub Ontario mapping. Subject to refinement following field studies, data has been refined in specific locations based off field observations and satellite imagery to better reflect current conditions.
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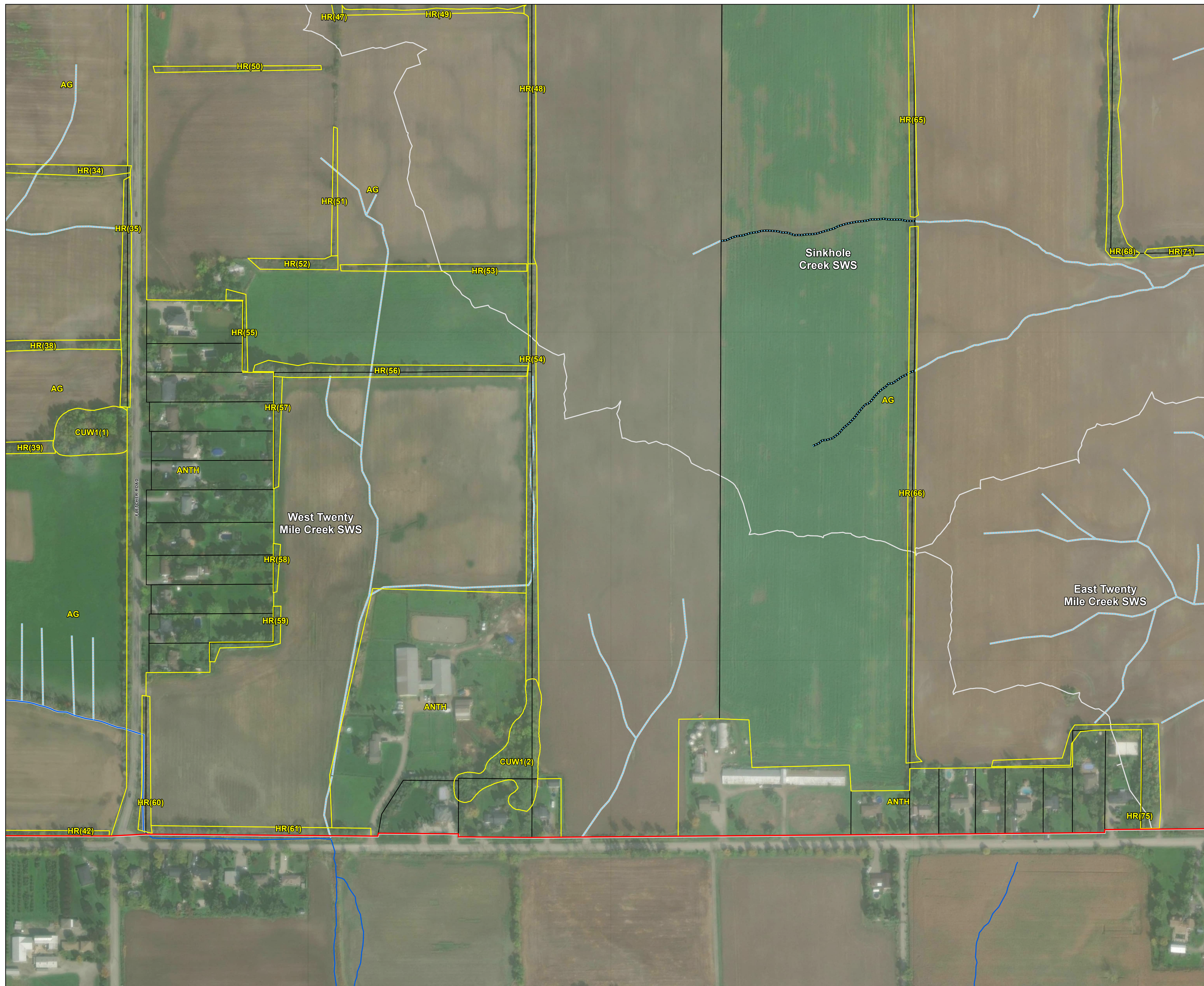
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Ecological Land Classification

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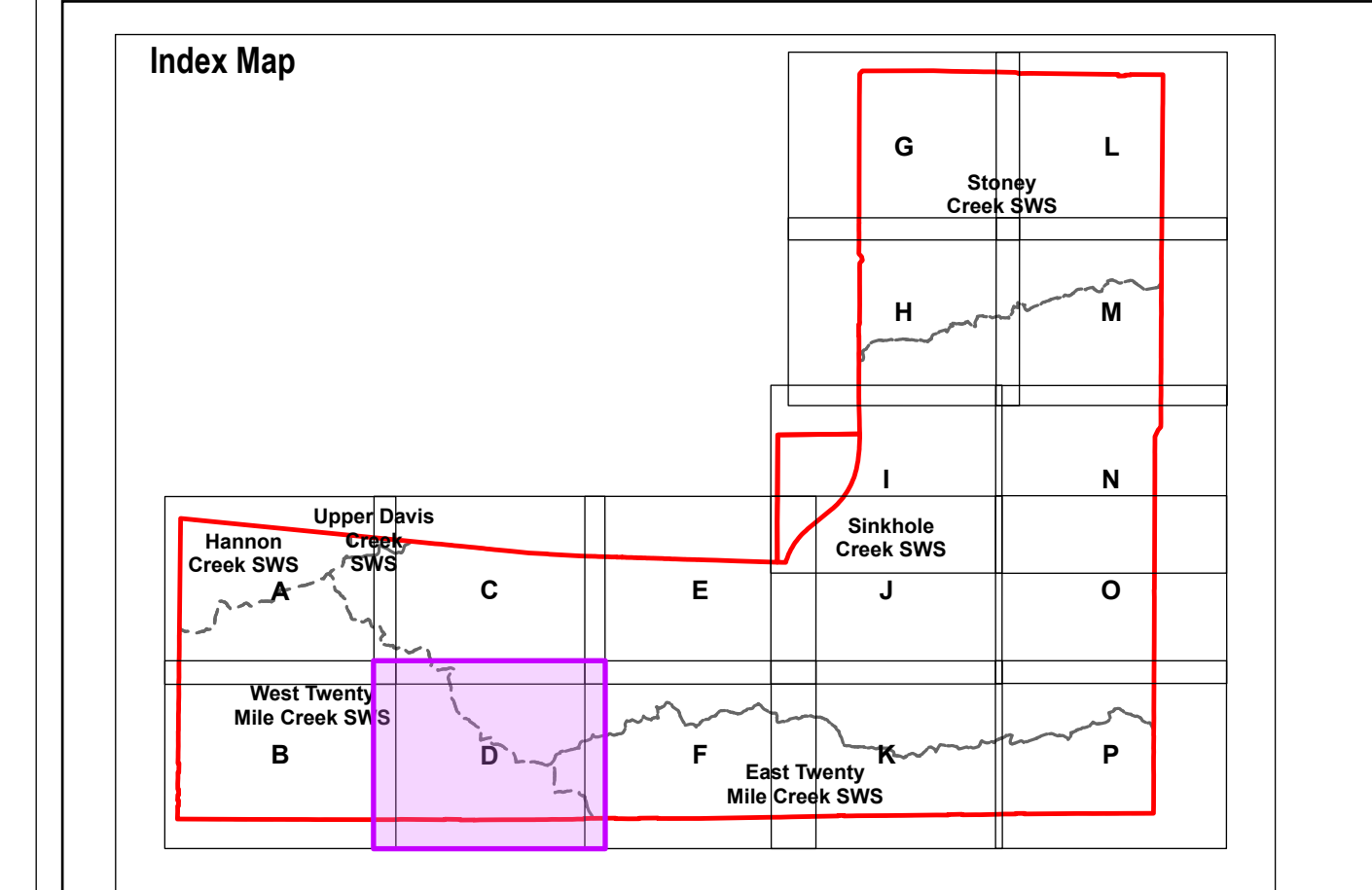
Figure 3.1.2 C



LEGEND

Study Area	Drainage Feature ¹
Additional Lands (Unsurveyed)	Headwater Drainage Feature (HDF) ²
Subject Property	Unevaluated Drainage Feature within Non-Participating Land
Subwatershed Boundary	Evaluated Drainage Feature within Participating Land
Ecological Land Classification (ELC)	

LABEL	DESC
AG	Agricultural
ANTH	Anthropogenic
CUW1	Mineral Cultural Woodland
HR	Hedgerow



1 - Watercourses as labelled by Geohub Ontario mapping. Subject to refinement following field studies, data has been refined in specific locations based off field observations and satellite imagery to better reflect current conditions.
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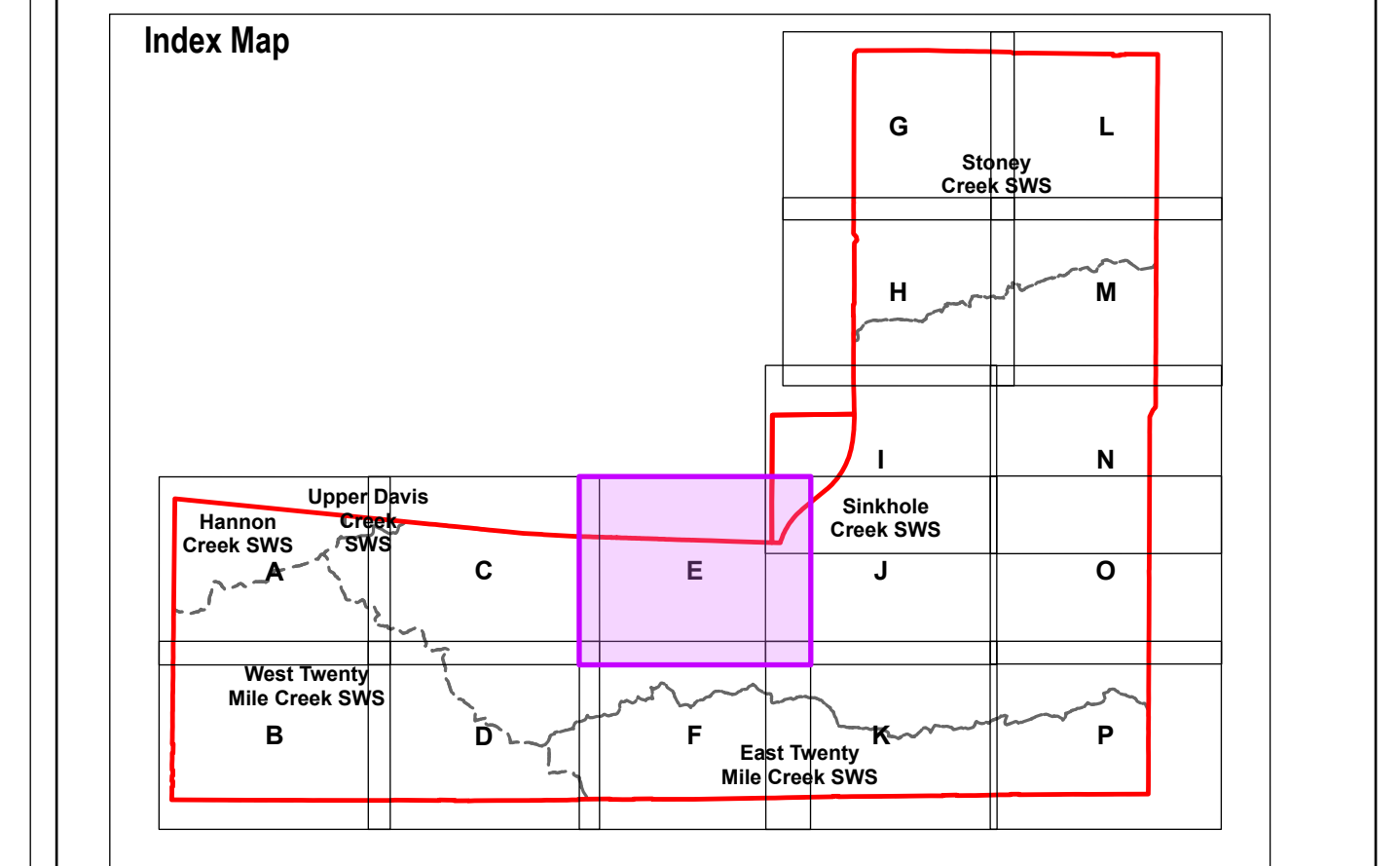
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	Figure 3.1.2 D



LEGEND

Study Area	Drainage Feature ¹
Additional Lands (Unsurveyed)	Headwater Drainage Feature (HDF) ²
Subject Property	Unevaluated Drainage Feature within Non-Participating Land
Subwatershed Boundary	Evaluated Drainage Feature within Participating Land
Ecological Land Classification (ELC)	

LABEL	DESC
AG	Agricultural
ANTH	Anthropogenic
HR	Hedgerow
Hydro Corridor	
MAM2	Graminoid Mineral Meadow Marsh Ecosite
MAM2-2	Reed-canary Grass Mineral Meadow Marsh Type
MAS2-1	Cattail Mineral Shallow Marsh Type
SWT/CUM	Swamp Thicket / Mineral Cultural Meadow



1 - Watercourses as labelled by Geohub Ontario mapping. Subject to refinement following field studies, data has been refined in specific locations based off field observations and satellite imagery to better reflect current conditions.
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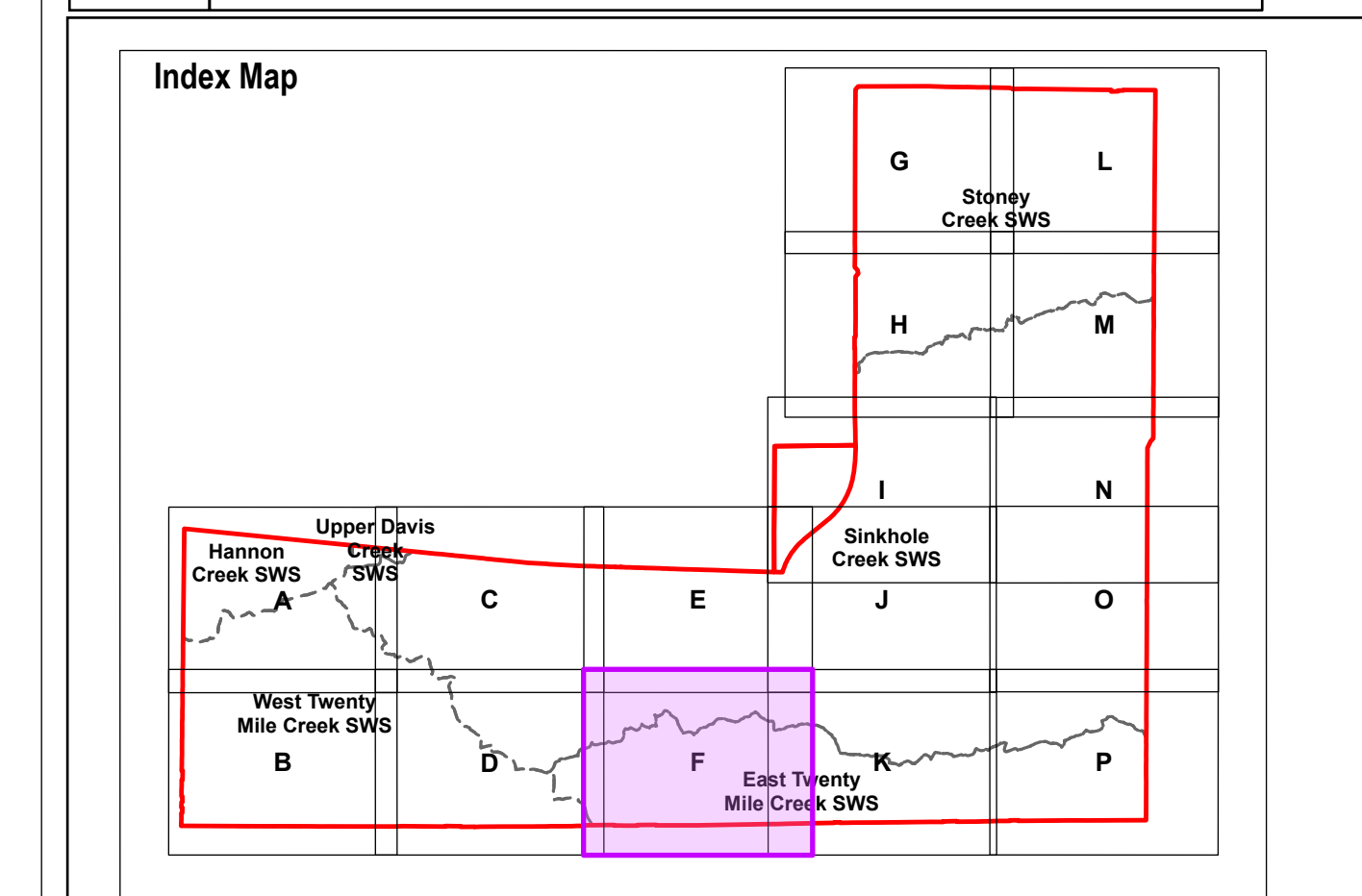
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	Figure 3.1.2 E



LEGEND

- Study Area
- Additional Lands (Unsurveyed)
- Subject Property
- Subwatershed Boundary
- Ecological Land Classification (ELC)
- ELC Inclusion
- Drainage Feature¹
- Headwater Drainage Feature (HDF)²
- Unevaluated Drainage Feature within Non-Participating Land
- Evaluated Drainage Feature within Participating Land

LABEL	DESC
AG	Agricultural
ANTH	Anthropogenic
CUM1-1	Dry-Moist Old Field Mineral Cultural Meadow
CUT1	Mineral Cultural Woodland
CUW1	Mineral Cultural Woodland
FOD5	Dry – Fresh Sugar Maple Deciduous Forest Ecosite
HR	Hedgerow
Pond	Pond



1 - Watercourses as labelled by Geohub Ontario mapping. Subject to refinement following field studies, data has been refined in specific locations based off field observations and satellite imagery to better reflect current conditions.
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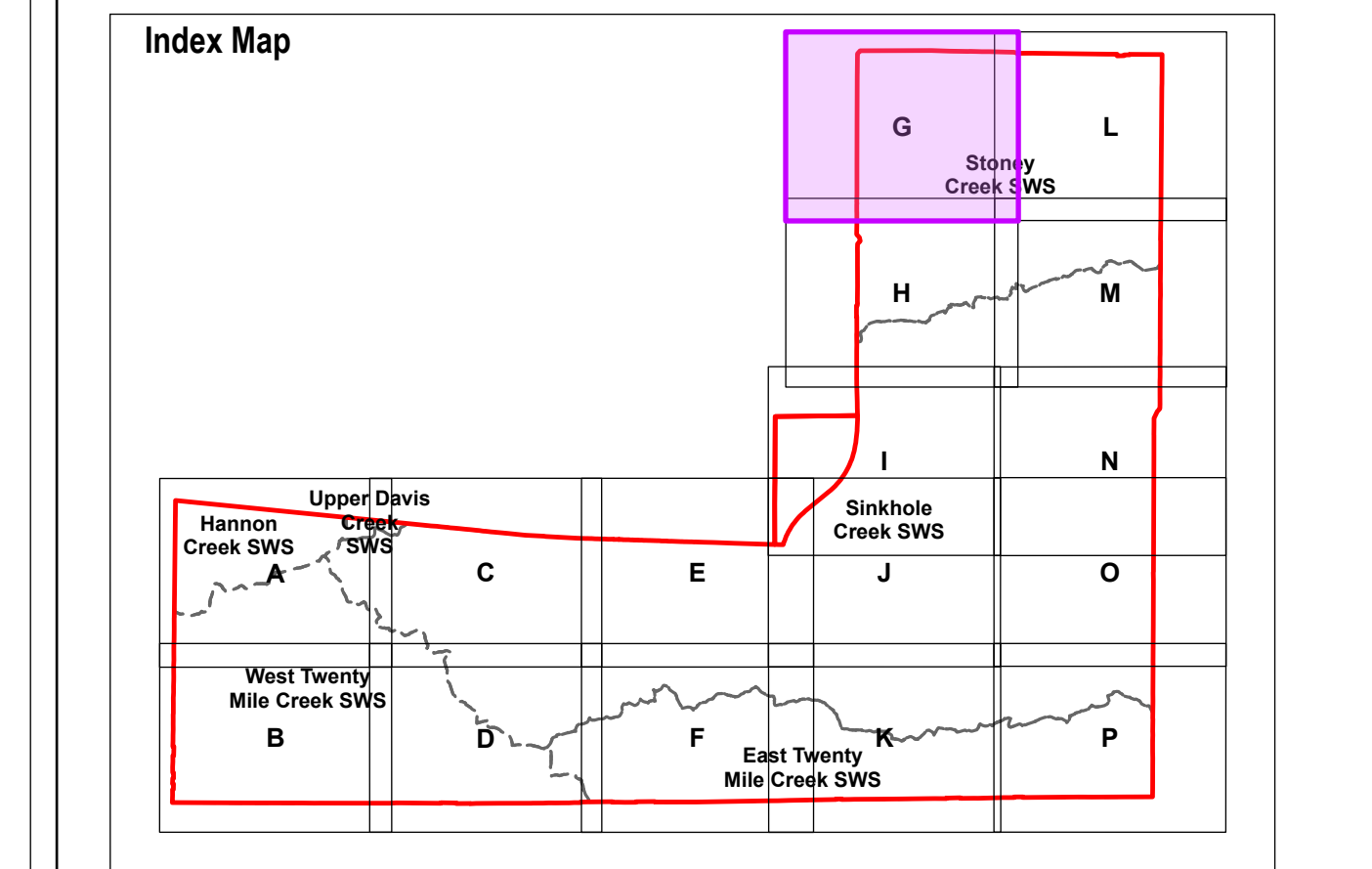
Figure 3.1.2 F



LEGEND

Study Area	Drainage Feature ¹
Additional Lands (Unsurveyed)	Headwater Drainage Feature (HDF) ²
Subject Property	Unevaluated Drainage Feature within Non-Participating Land
Subwatershed Boundary	Evaluated Drainage Feature within Participating Land
Ecological Land Classification (ELC)	
ELC Inclusion	

LABEL	DESC
AG	Agricultural
ANTH	Anthropogenic
HR	Hedgerow
Pond	Pond



1 - Watercourses as labelled by Geohub Ontario mapping. Subject to refinement following field studies, data has been refined in specific locations based off field observations and satellite imagery to better reflect current conditions.
 2 - HDF classifications within non participating properties were assessed based on the most conservative adjacent HDF classification.

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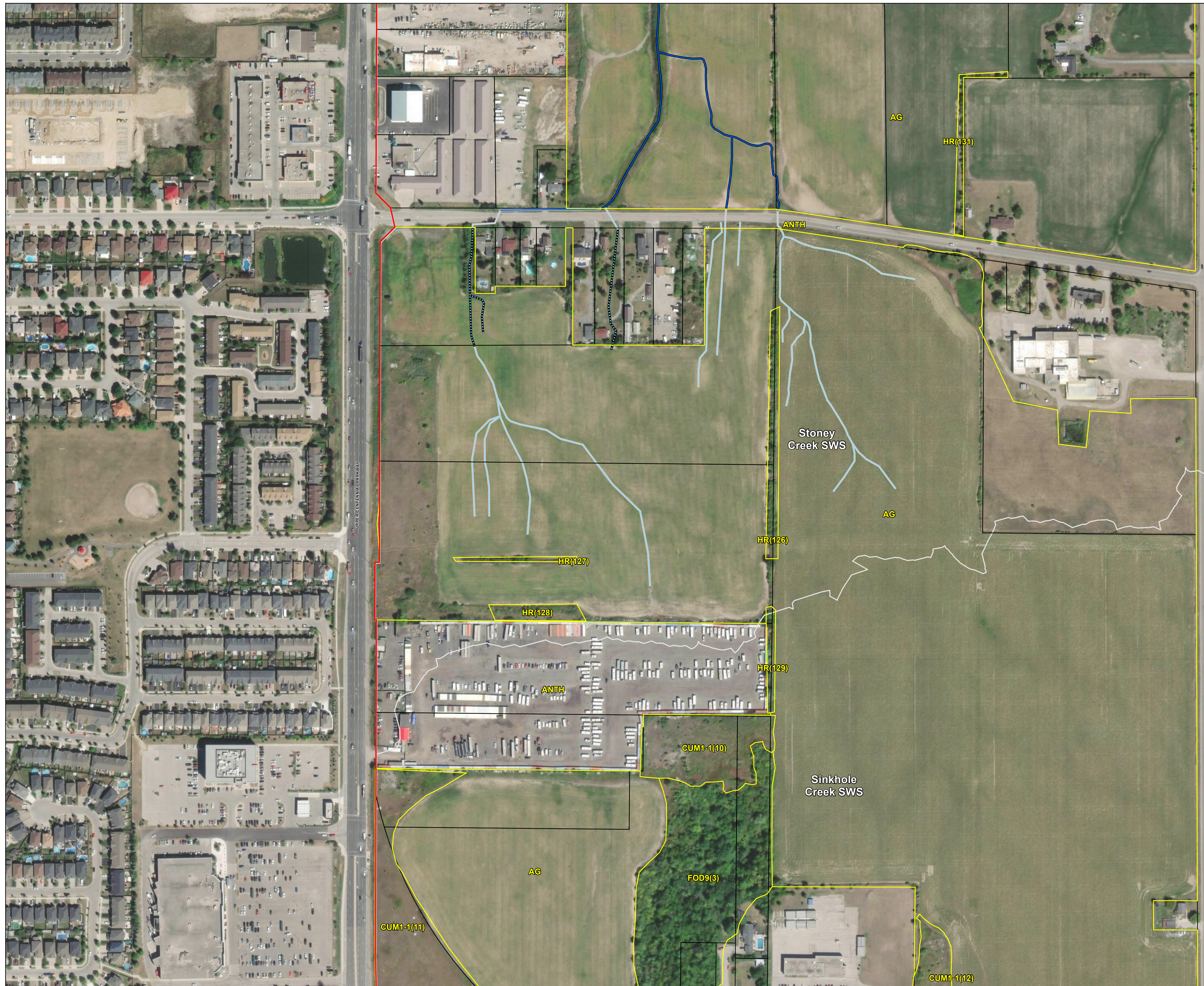


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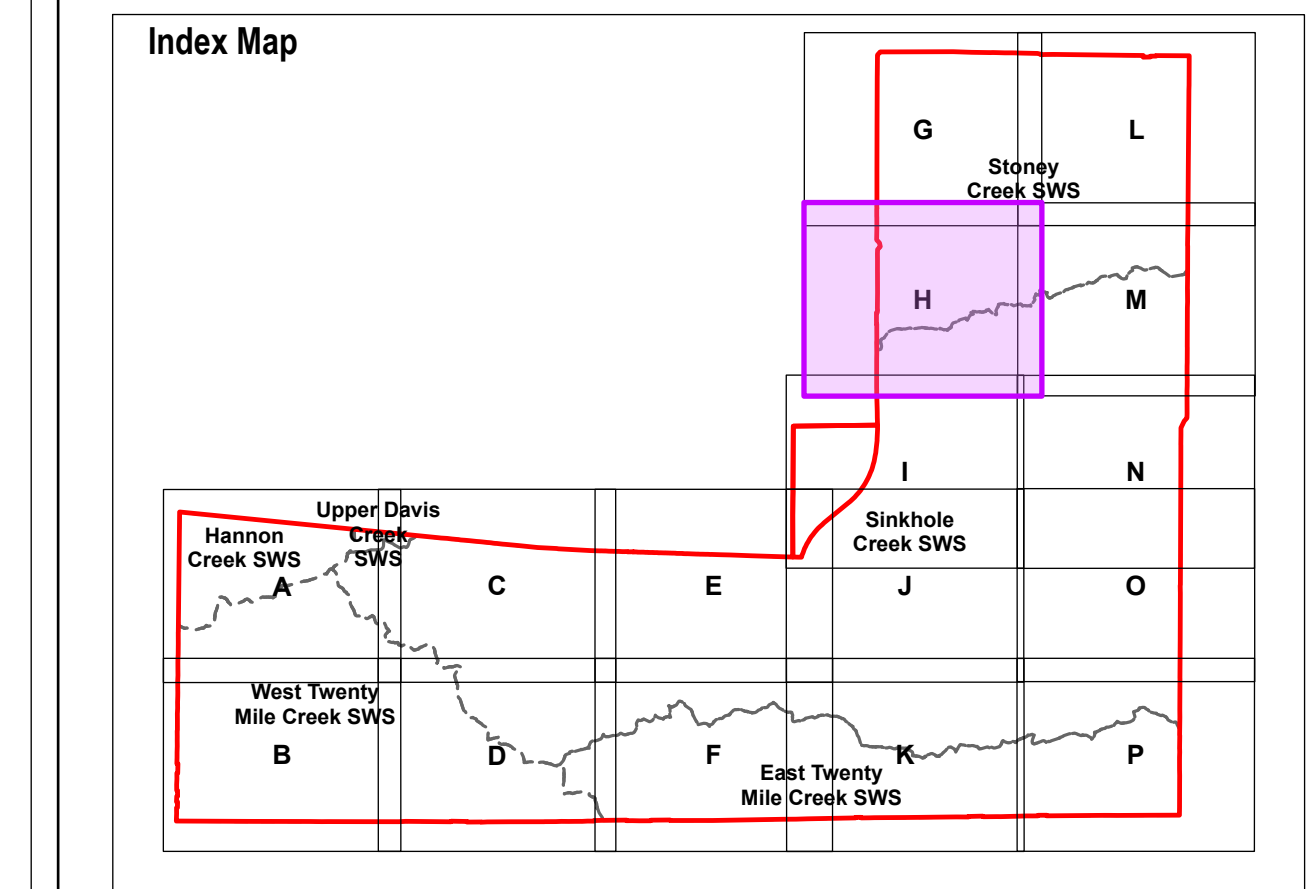
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	Figure 3.1.2 G



LEGEND

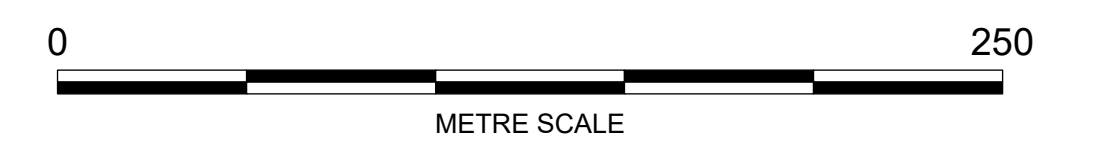
Study Area	Drainage Feature ¹
Additional Lands (Unsurveyed)	Headwater Drainage Feature (HDF) ²
Subject Property	Unevaluated Drainage Feature within Non-Participating Land
Subwatershed Boundary	Evaluated Drainage Feature within Participating Land
Ecological Land Classification (ELC)	

LABEL	DESC
AG	Agricultural
ANTH	Anthropogenic
CUM1-1	Dry-Moist Old Field Mineral Cultural Meadow
FOD9	Fresh - Moist Oak - Maple - Hickory Deciduous Forest
HR	Hedgerow



1 - Watercourses as labelled by Geohub Ontario mapping. Subject to refinement following field studies, data has been refined in specific locations based off field observations and satellite imagery to better reflect current conditions.
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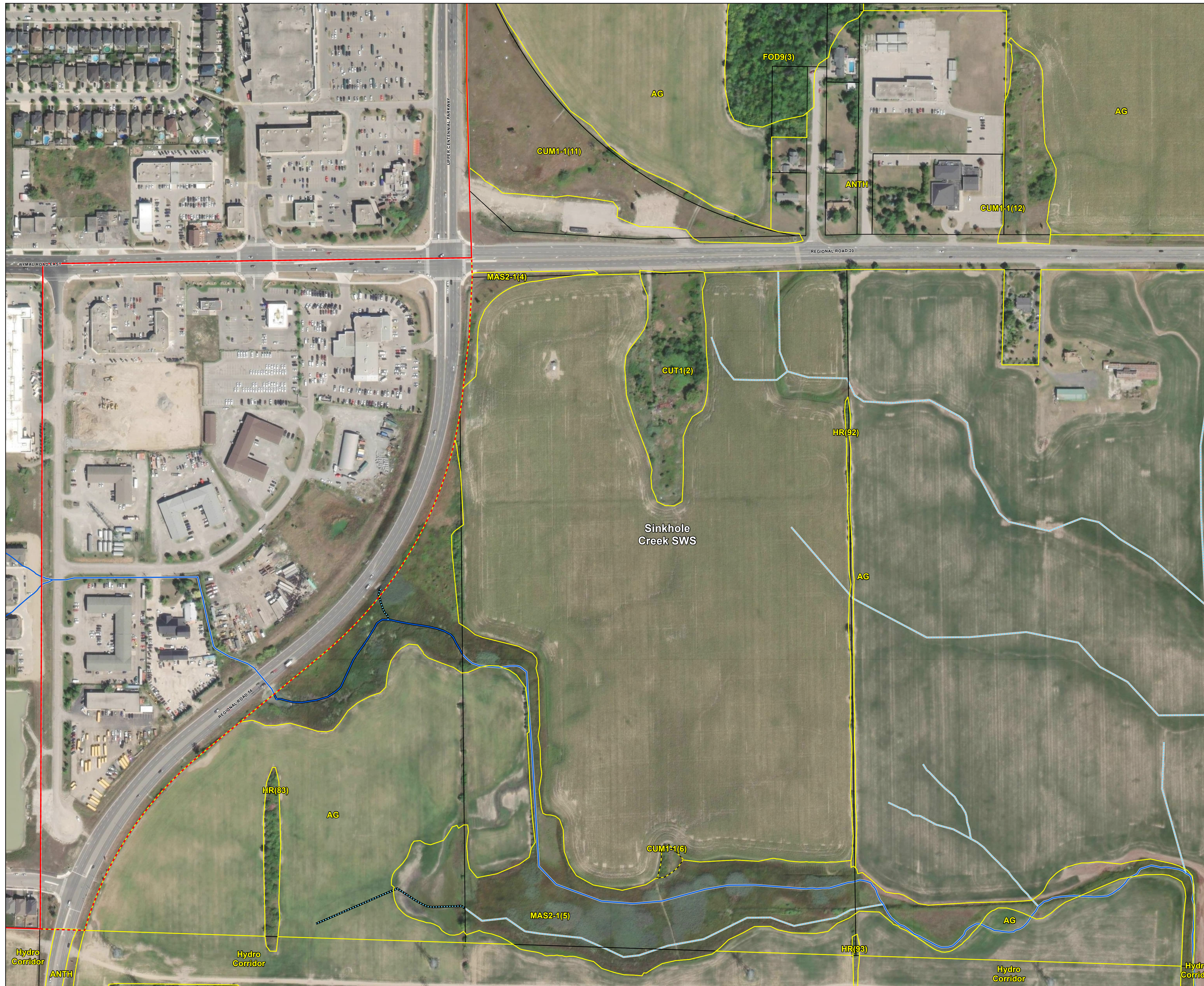
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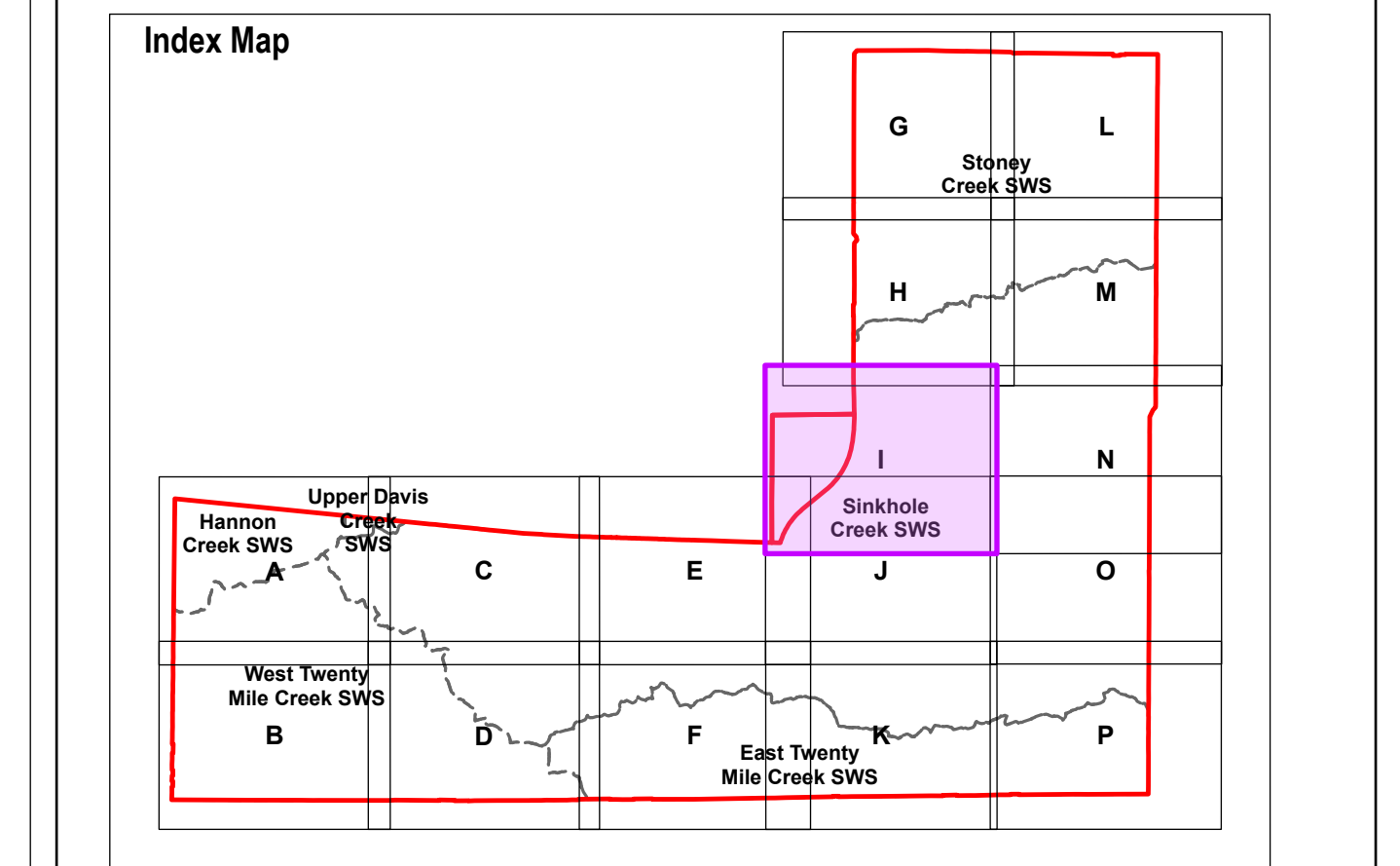
Figure 3.1.2 H



LEGEND

Study Area	Drainage Feature ¹
Additional Lands (Unsurveyed)	Headwater Drainage Feature (HDF) ²
Subject Property	Unevaluated Drainage Feature within Non-Participating Land
Subwatershed Boundary	Evaluated Drainage Feature within Participating Land
Ecological Land Classification (ELC)	
ELC Inclusion	

LABEL	DESC
AG	Agricultural
ANTH	Anthropogenic
CUM1-1	Dry-Moist Old Field Mineral Cultural Meadow
CUT1	Mineral Cultural Woodland
FOD9	Fresh - Moist Oak - Maple - Hickory Deciduous Forest
HR	Hedgerow
Hydro Corridor	
MAS2-1	Cattail Mineral Shallow Marsh Type



1 - Watercourses as labelled by Geohub Ontario mapping. Subject to refinement following field studies, data has been refined in specific locations based on field observations and satellite imagery to better reflect current conditions.
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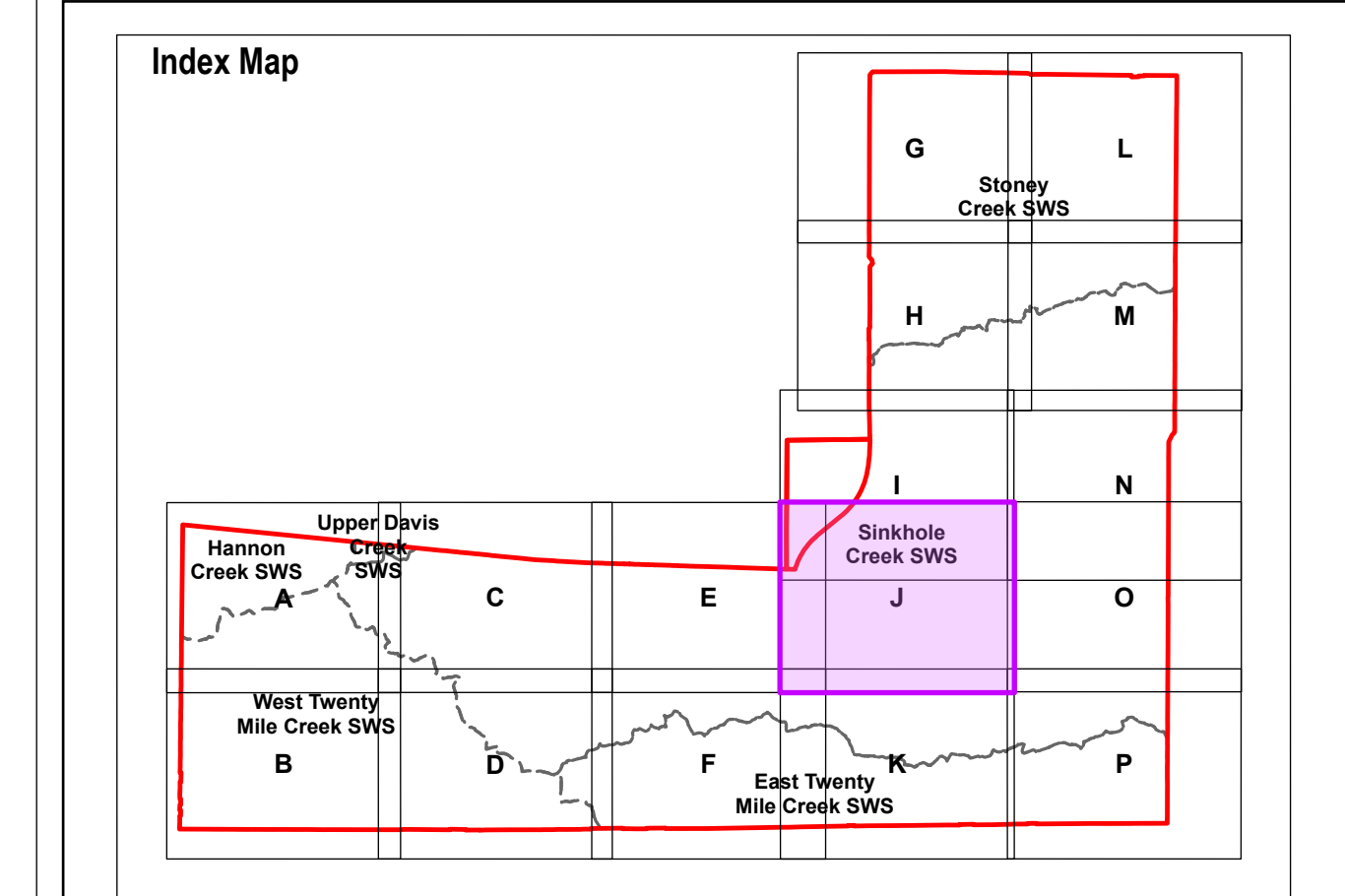
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	Figure 3.1.2 I



LEGEND

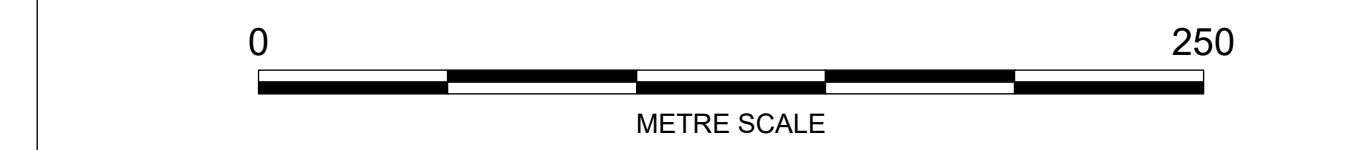
- Study Area
- Additional Lands (Unsurveyed)
- Subject Property
- Subwatershed Boundary
- Ecological Land Classification (ELC)
- ELC Inclusion
- Drainage Feature¹
- Headwater Drainage Feature (HDF)²
- Unevaluated Drainage Feature within Non-Participating Land
- Evaluated Drainage Feature within Participating Land

LABEL	DESC
AG	Agricultural
ANTH	Anthropogenic
CUM1-1	Dry-Moist Old Field Mineral Cultural Meadow
CUW1	Mineral Cultural Woodland
FOD9	Fresh - Moist Oak - Maple - Hickory Deciduous Forest
HR	Hedgerow
Hydro Corridor	
MAM2	Graminoid Mineral Meadow Marsh Ecosite
MAM2-2	Reed-canary Grass Mineral Meadow Marsh Type
MAS2-1	Cattail Mineral Shallow Marsh Type
SWD	Mineral Deciduous Swamp
SWT/CUM	Swamp Thicket / Mineral Cultural Meadow



1 - Watercourses as labelled by Geohub Ontario mapping. Subject to refinement following field studies, data has been refined in specific locations based off field observations and satellite imagery to better reflect current conditions.
 2 - HDF classifications within non participating properties were assessed based on the most conservative adjacent HDF classification.

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North American Datum 1983
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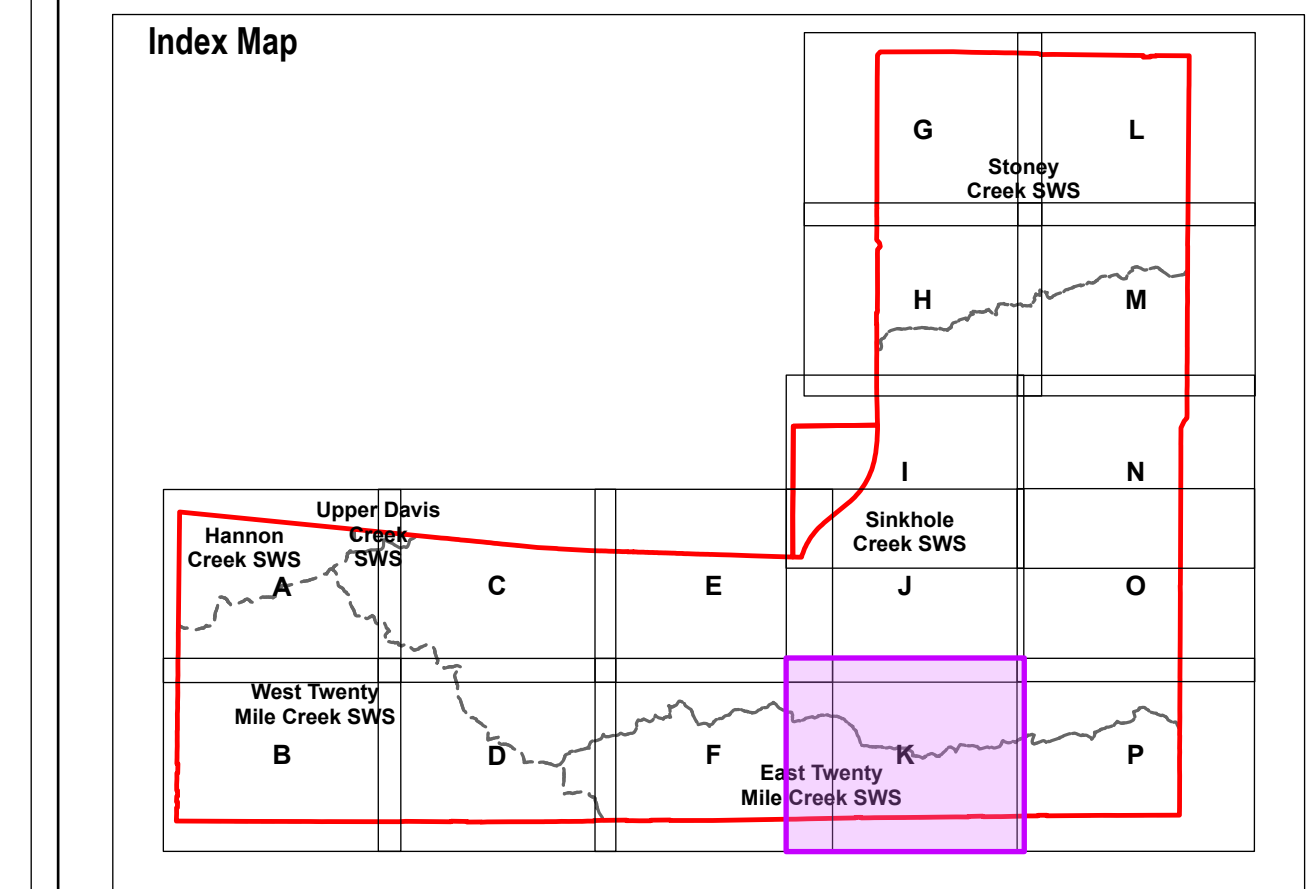
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	Figure 3.1.2 J



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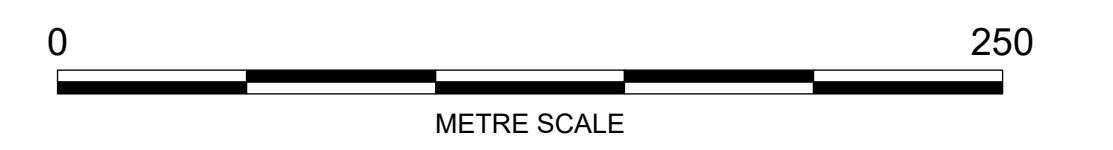
Study Area	Drainage Feature ¹
Additional Lands (Unsurveyed)	Headwater Drainage Feature (HDF) ²
Subject Property	Unevaluated Drainage Feature within Non-Participating Land
Subwatershed Boundary	Evaluated Drainage Feature within Participating Land
Ecological Land Classification (ELC)	
ELC Inclusion	

LABEL	DESC
AG	Agricultural
ANTH	Anthropogenic
CUT1	Mineral Cultural Woodland
CUW1	Mineral Cultural Woodland
FOD5	Dry – Fresh Sugar Maple Deciduous Forest Ecosite
FOD5-1	Dry – Fresh Sugar Maple Deciduous Forest Type
HR	Hedgerow
Pond	Pond
SWD4-2	White Elm Mineral Deciduous Swamp



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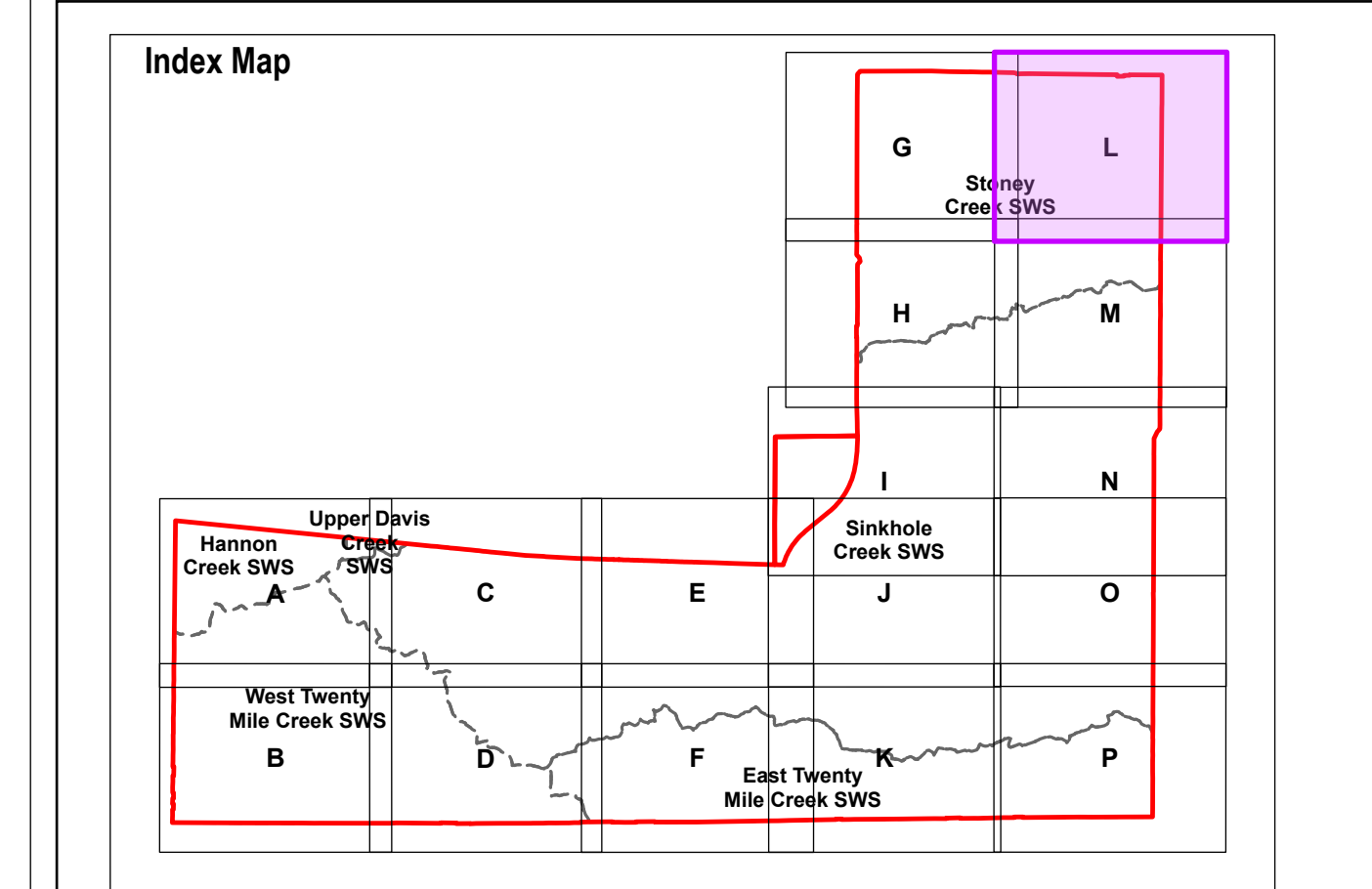
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	Figure 3.1.2 K



LEGEND

Study Area	Drainage Feature ¹
Additional Lands (Unsurveyed)	Headwater Drainage Feature (HDF) ²
Subject Property	Unevaluated Drainage Feature within Non-Participating Land
Subwatershed Boundary	Evaluated Drainage Feature within Participating Land
Ecological Land Classification (ELC)	

LABEL	DESC
AG	Agricultural
ANTH	Anthropogenic
HR	Hedgerow
SWDM4-1	Willow Mineral Deciduous Swamp Type



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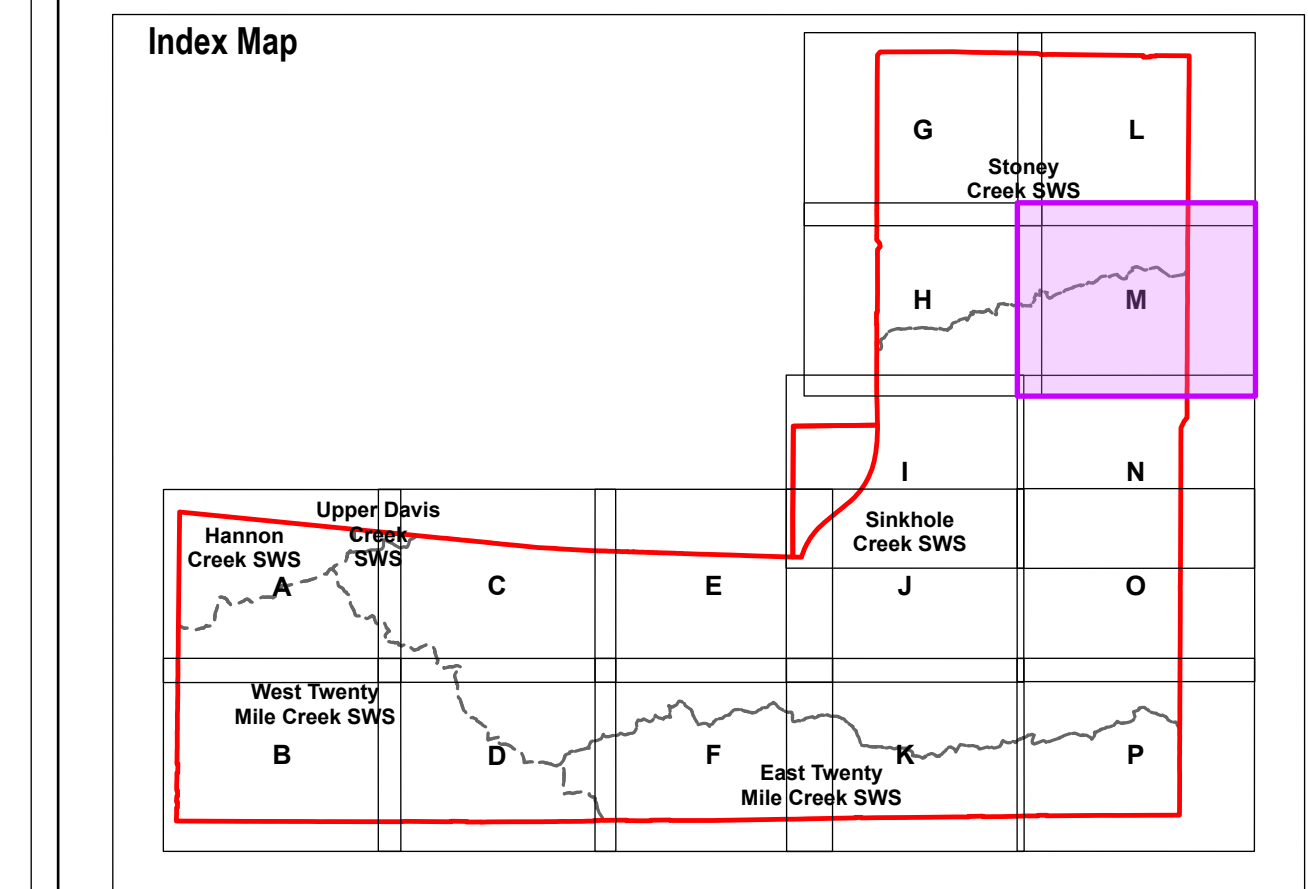
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	Figure 3.1.2 L



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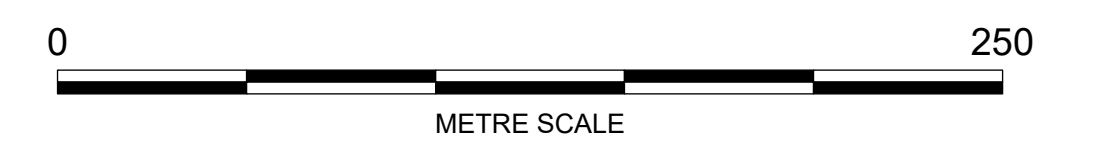
Study Area	Drainage Feature ¹
Additional Lands (Unsurveyed)	Headwater Drainage Feature (HDF) ²
Subject Property	Unevaluated Drainage Feature within Non-Participating Land
Subwatershed Boundary	Evaluated Drainage Feature within Participating Land
Ecological Land Classification (ELC)	
ELC Inclusion	

LABEL	DESC
AG	Agricultural
ANTH	Anthropogenic
CUT1	Mineral Cultural Woodland
FOD4-1	Dry – Fresh Beech Deciduous Forest Type
FOD9-4	Fresh – Moist Shagbark Hickory Deciduous Forest Type
HR	Hedgerow
SWD3-1	Red Maple Mineral Deciduous Swamp Type
SWT	Swamp Thicket



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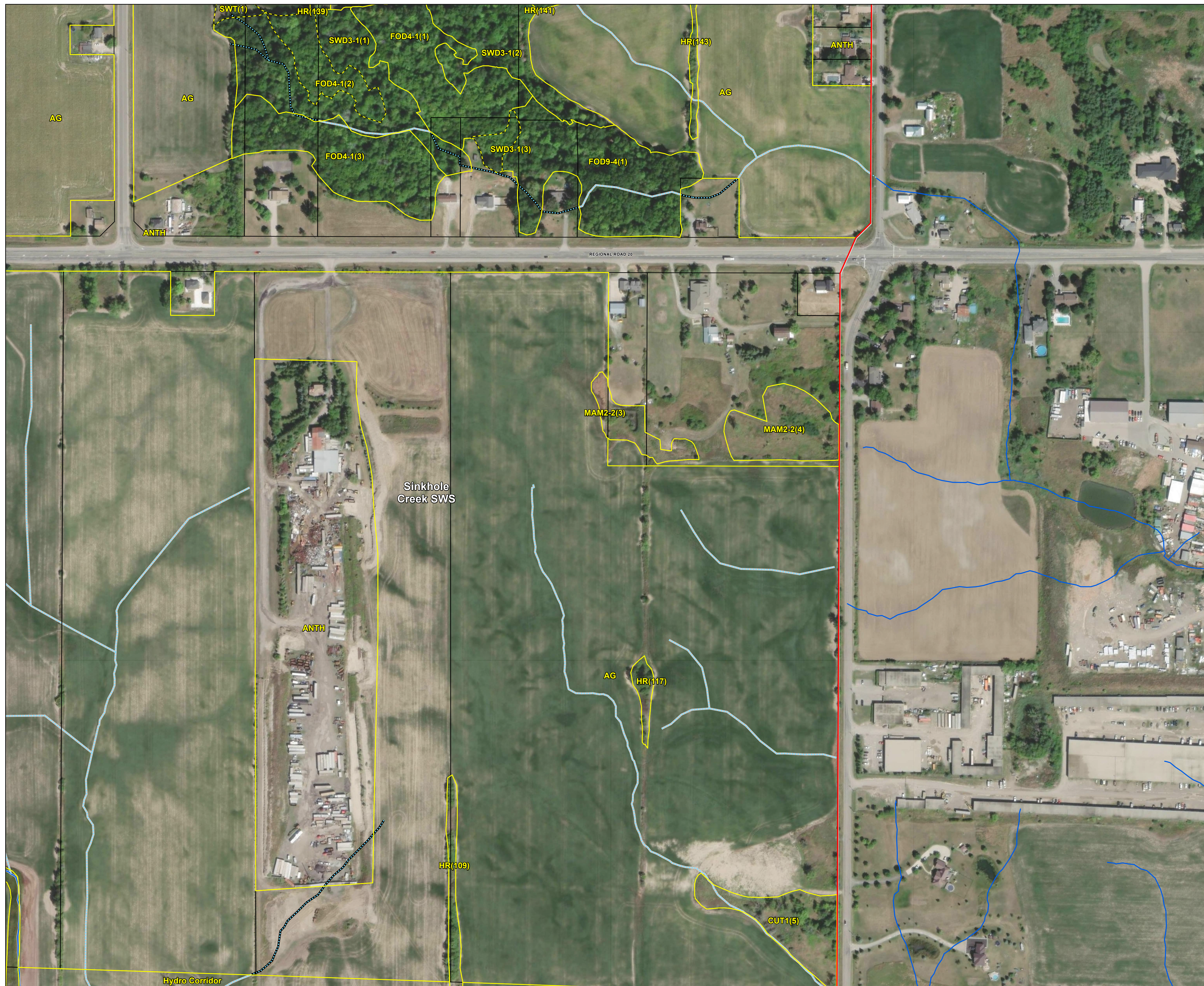
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TITLE
Ecological Land Classification

REF. NO.
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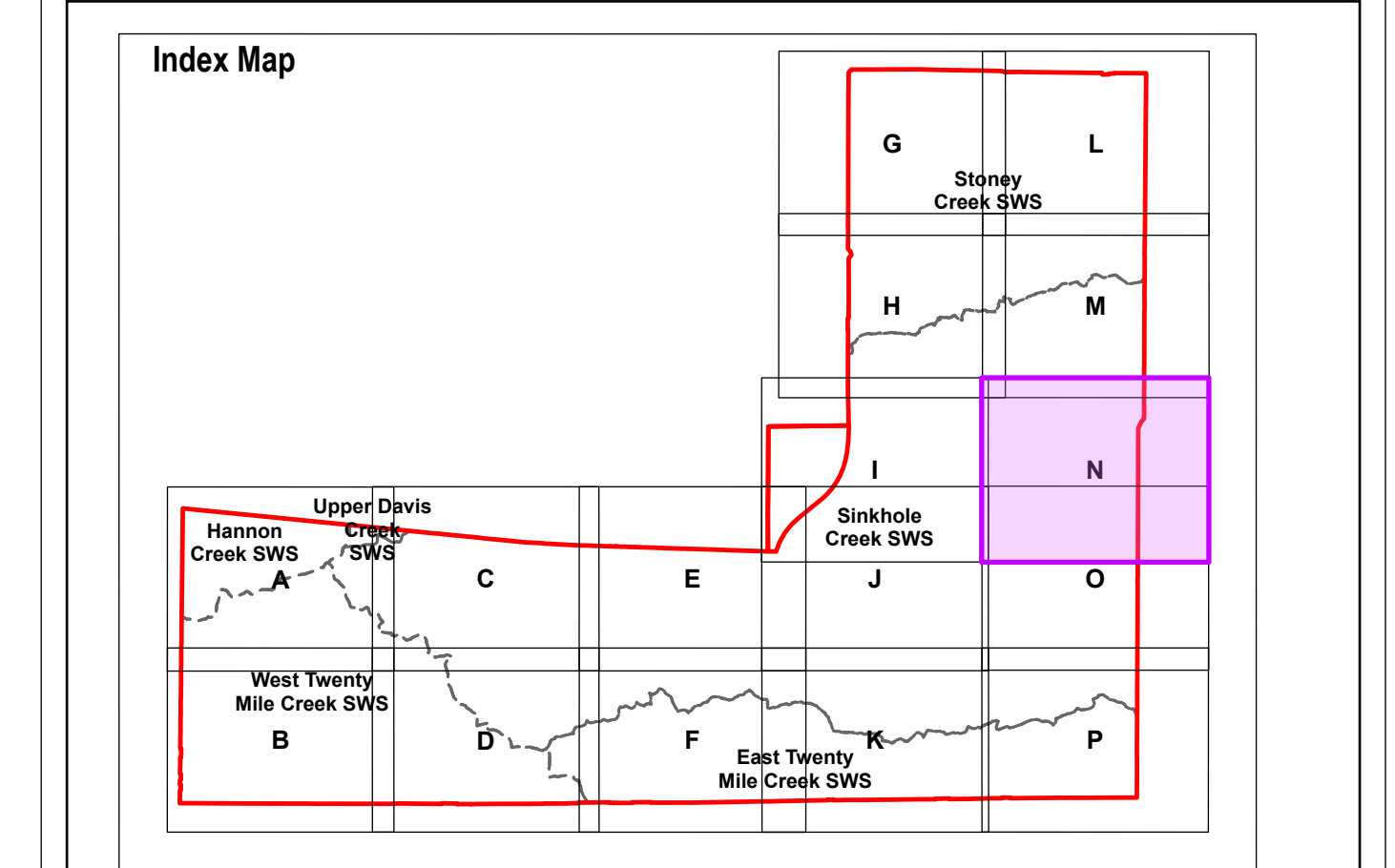
Figure 3.1.2 M



LEGEND

Study Area	Drainage Feature ¹
Additional Lands (Unsurveyed)	Headwater Drainage Feature (HDF) ²
Subject Property	Unevaluated Drainage Feature within Non-Participating Land
Subwatershed Boundary	Evaluated Drainage Feature within Participating Land
Ecological Land Classification (ELC)	
ELC Inclusion	

LABEL	DESC
AG	Agricultural
ANTH	Anthropogenic
CUT1	Mineral Cultural Woodland
FOD4-1	Dry – Fresh Beech Deciduous Forest Type
FOD9-4	Fresh – Moist Shagbark Hickory Deciduous Forest Type
HR	Hedgerow
Hydro Corridor	
MAM2-2	Reed-canary Grass Mineral Meadow Marsh Type
MAS2-1	Cattail Mineral Shallow Marsh Type
SWD3-1	Red Maple Mineral Deciduous Swamp Type
SWT	Swamp Thicket



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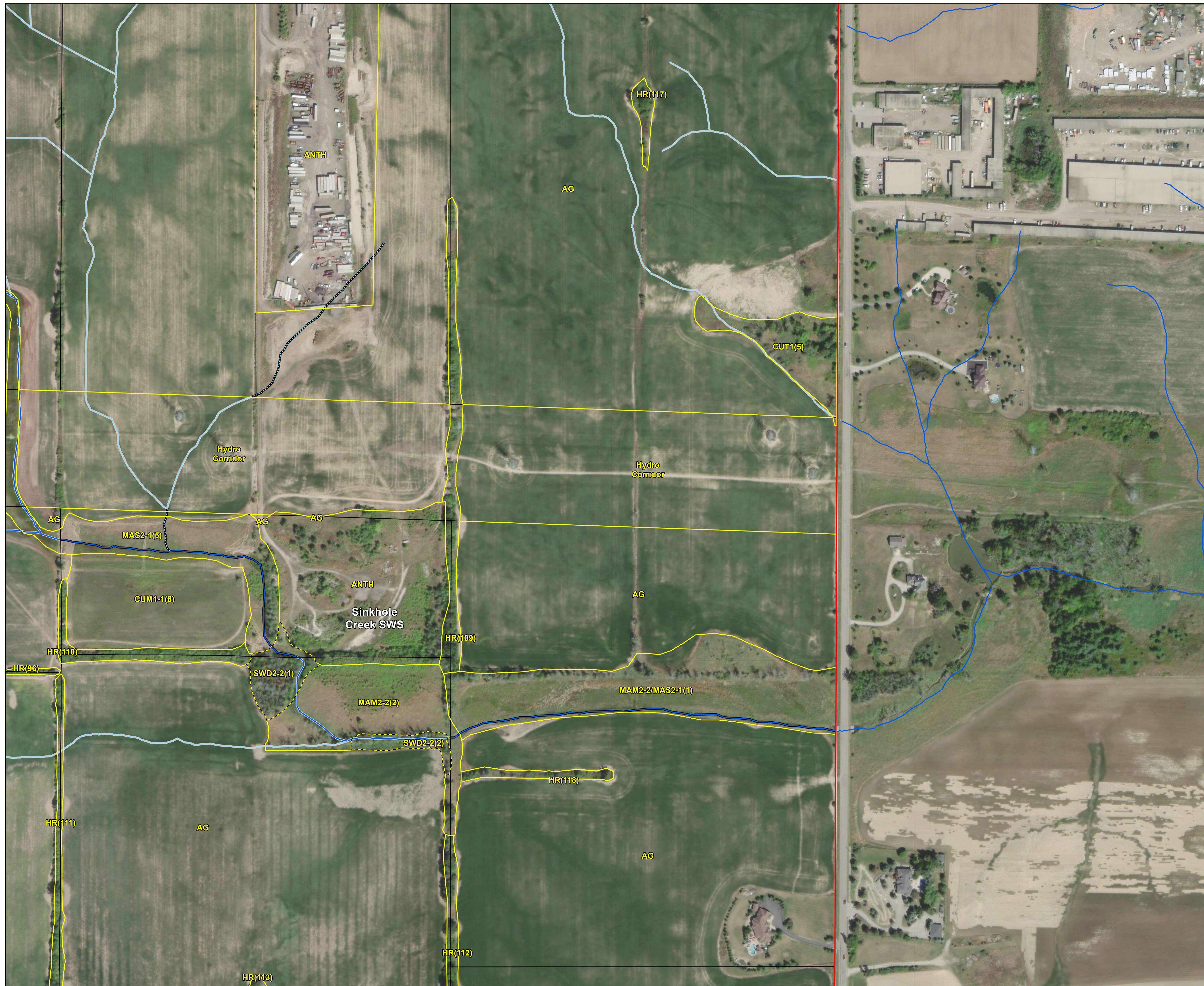
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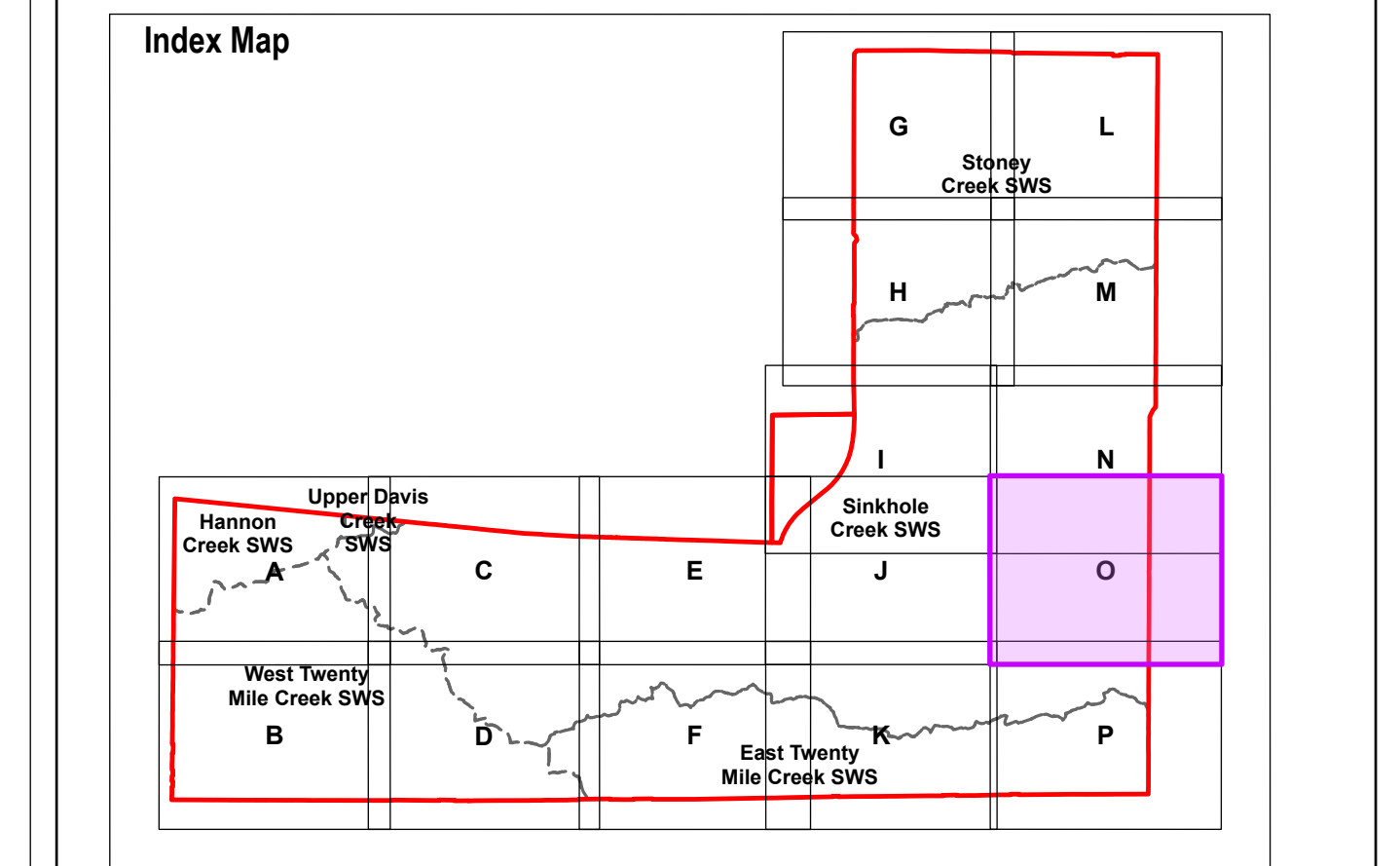
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	Figure 3.1.2 N



LEGEND

Study Area	Drainage Feature ¹
Additional Lands (Unsurveyed)	Headwater Drainage Feature (HDF) ²
Subject Property	Unevaluated Drainage Feature within Non-Participating Land
Subwatershed Boundary	Evaluated Drainage Feature within Participating Land
Ecological Land Classification (ELC)	
ELC Inclusion	

LABEL	DESC
AG	Agricultural
ANTH	Anthropogenic
CUM1-1	Dry-Moist Old Field Mineral Cultural Meadow
CUT1	Mineral Cultural Woodland
HR	Hedgerow
Hydro Corridor	
MAM2-2	Reed-canary Grass Mineral Meadow Marsh Type
MAM2-2/MAS2	Reed-canary Grass Graminoid Mineral Meadow Marsh Type / Graminoid Mineral Shallow Marsh
MAS2-1	Cattail Mineral Shallow Marsh Type
SWD2-2	Green Ash Mineral Deciduous Swamp Type



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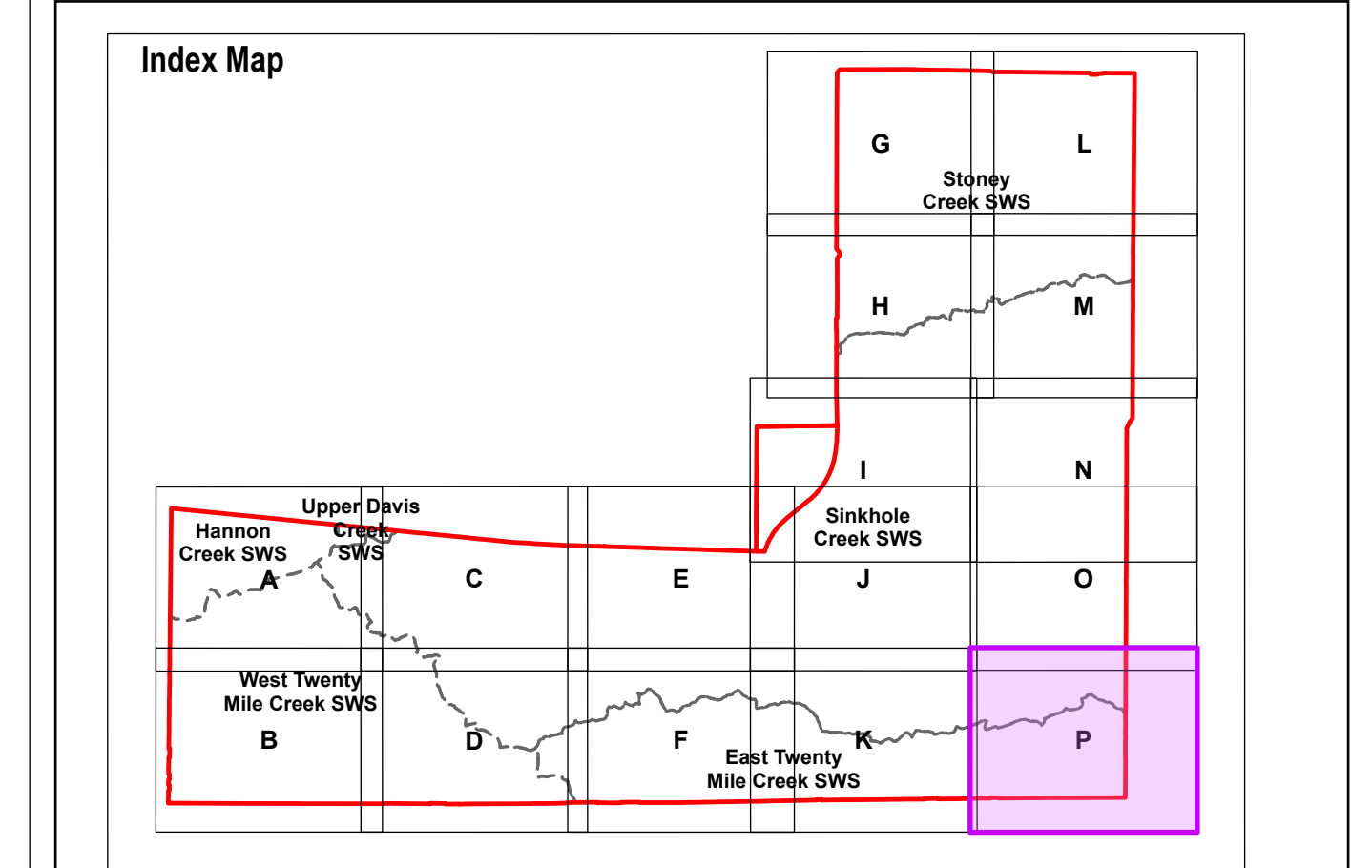
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	Figure 3.1.2 O



LEGEND

Study Area	Drainage Feature ¹
Additional Lands (Unsurveyed)	Headwater Drainage Feature (HDF) ²
Subject Property	Unevaluated Drainage Feature within Non-Participating Land
Subwatershed Boundary	Evaluated Drainage Feature within Participating Land
Ecological Land Classification (ELC)	

LABEL	DESC
AG	Agricultural
ANTH	Anthropogenic
CUM1-1	Dry-Moist Old Field Mineral Cultural Meadow
FOD5-2	Fresh - Moist Oak - Maple - Hickory Deciduous Forest
HR	Hedgerow
SWD3-2	Silver Maple Mineral Deciduous Swamp Type



1 - Watercourses as labelled by Geohub Ontario mapping. Subject to refinement following field studies, data has been refined in specific locations based off field observations and satellite imagery to better reflect current conditions.
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	TITLE Ecological Land Classification
	REF. NO. 2306301-3.1.2P-1
	Figure 3.1.2 P

APPENDIX C3

Significant Wildlife Habitat (SWH) Table

Significant Wildlife Habitat - Ecoregion 7E

SWH Type	Associated Species	Associated ELC Ecosites	Habitat Criteria	Presence (Y/P/N)	Additional Notes and Species Observations
Seasonal Concentration Areas of Animals					
Waterfowl Stopover and Staging Areas (Terrestrial)	Duck-like species, Tundra Swan	CUM + CUT ecosites	Fields with sheet-water flooding mid-March to May. Specific areas for Tundra Swan	N	No suitable habitat recorded.
Waterfowl Stopover and Staging Area (Aquatic)	Ducks, Geese	Ponds, Lakes, Inlets, Marshes, bays, coastal inlets, watercourse used in migration, Swamps, Shallow Water Ecosites	Sewage & SWM ponds not SWH. Reservoir managed as a large wetland or pond/lake qualifies. Abundant food supply (inverts, shallow water veg)	N	No suitable habitat present.
Shorebird Migratory Stopover Area	Shorebirds	Beaches, Dunes, Meadow Marshes	Shorelines. Great Lakes Shores, including rocky ones. Sewage treatment ponds and storm water ponds not SWH.	N	No suitable habitat present.
Raptor Wintering Area	Eagles, Hawks, Owls	Hawks/Owls: Combination of both Forest and Cultural Ecosites Bald Eagle: Forest or swamp near open water (hunting ground)	Raptors: >20ha, with a combo of forest and upland. Meadow (>15ha) with adjacent woodlands. Eagles: open water, large trees & snags for roosting.	N	One location indicated that several raptor species have been observed there in winter but numbers and frequency not well known. Potential further study at EIS stage. See report for further details.
Bat Hibernacula	Big Brown Bat, Tri-coloured Bat	Caves, Crevices, mines, karsts	Buildings and active mine sites not SWH.	N	No suitable habitat present.
Bat Maternity Colonies	Big Brown Bat, Silver-haired Bat	Deciduous or mixed forests and swamps.	Mature deciduous and mixed forests with >10/ha cavity trees >25 cm DBH.	P	If some woodlands contain mature trees and suitable cavities are considered potential bat maternity colony habitat. Further study at later stages of development would occur to determine if suitable areas are present (for maternity colonies) and/or acoustic surveys to determine presence. Note that Silver-haired Bat is now covered under Endangered species legislation.
Turtle Wintering Area	Turtles (Midland, N. Map, Snapping)	SW, MA, OA, SA, FEO, BOO (requires open waters)	Free water beneath ice. Soft mud substrate. Permanent water bodies, large wetlands, bogs, fens with adequate DO. Man-made is not SWH.	N	No suitable habitat present.
Reptile Hibernaculum	Snakes	Snakes: Any ecosite (esp. w/ rocky areas), other than very wet ones. Talus, Rock Barren, Crevice, Cave, Alvar esp.	Access below frost line: burrows; rock crevices, piles or slopes, stone fences or foundations. Conifer/shrubby swamps/swales, poor fens, depressions in bedrock w/ accumulations of sphagnum moss or sedge hummock ground cover.	N	No suitable habitat recorded.
Colonially-nesting Bird Breeding Habitat (Bank and Cliff)	Cliff Swallow, N. Rough-winged Swallow	Habitat includes: banks, sandy hills/piles, pits, slopes, cliff faces, bridge abutments, silos, barns.	Exposed soil banks, does not a licensed/permitted aggregate area or new man-made features (2 yrs), nor bridges or buildings.	N	No suitable habitat present.
Colonially-nesting Bird Breeding Habitat (Tree/Shrubs)	Great Blue Heron, Black-crowned Night Heron, Great Egret, Green Heron	SWM2, SWM3, SWM5, SWM6, SWD1 to SWD7, FET1	Nests in live or dead standing trees in wetlands, lakes, islands and peninsulas. Shrubs and emergents may be used. Nests in trees are 11 - 15 m from ground, near tree tops.	N	Nesting of listed species not recorded
Colonially-nesting Bird Breeding Habitat (Ground)	Herring Gull, Great Black-backed Gull, Little Gull, Ring-billed Gull, Common Tern, Caspian Tern, Brewer's Blackbird	Gulls/Terns: Rocky island or peninsula in lake or river. Brewer's Blackbird: close to watercourses in open fields or pastures with scattered trees or shrubs.	Gulls/Terns: islands or peninsulas with open water or marshy areas. Brewer's Blackbird colonies: on the ground in low bushes close to streams and irrigation ditches.	N	Nesting of listed species not recorded. Also no suitable habitat present.
Migratory Butterfly Stopover Area	Painted Lady, Red Admiral, Special Concern: Monarch	Combination of open (CU) and forested (FO) ecosites (need one from each).	≥10 ha, located within 5 km of Lake Ontario or Lake Erie. Undisturbed sites, with preferred nectar species.	N	Lands not within 5 km of Lake Ontario. Few areas of CU habitat.
Landbird Migratory Stopover Areas	All migratory songbirds. All migrant raptor species.	Forest (FO) and Swamp (SW) ecosites	Woodlots >5 ha within 5 km of L. Ontario & L. Erie (2-5 ha if rare in area). If multiple woodlands are along the shoreline, those <2 km from L. Ontario are more significant.	N	Lands not within 5 km of Lake Ontario.
Deer Winter Congregation Areas	White-tailed Deer	Mixed or Conifer ecosites	Determined by MNRF - no studies	N	Not mapped by MNRF.
Rare Vegetation Communities					
Cliffs and Talus Slopes		TAO, TAS, CLO, CLS, TAT, CLT e.g., Niagara Escarpment (contact NEC)	Cliff: near vertical bedrock >3m Talus Slope: coarse rock rubble at the base of a cliff	N	Vegetation community not present.

SWH Type	Associated Species	Associated ELC Ecosites	Habitat Criteria	Presence (Y/P/N)	Additional Notes and Species Observations
Sand Barren		SBO1, SBS1, SBT1	Sand Barrens >0.5 ha. Vegetation can vary from patchy and barren to tree covered, but <60%. <50% vegetation cover are exotic species.	N	Vegetation community not present.
Alvar	<i>Carex crawei</i> , <i>Panicum philadelphicum</i> , <i>Eleocharis compressa</i> , <i>Scutellaria parvula</i> , <i>Trichostema brachiatum</i>	ALO1, ALS1, ALT1, FOC1, FOC2, CUM2, CUS2, CUT2-1, CUW2	Alvar >0.5 ha. Need 4 of the 5 Alvar Indicator Spp. <50% vegetation cover are exotic species.	N	Vegetation community not present.
Old Growth Forest	Trees >140 yrs; heavy mortality = gaps. Multi-layer canopy, lots of snags and downed logs	FOD, FOC, FOM, SWD, SWC, SWM	Woodland areas 0.5 ha. No evidence of logging.	N	No old growth forest present
Savannah	Prairie Grasses w/ trees	TPS1, TPS2, TPW1, TPW2, CUS2	No min. size. A Savannah is a <u>tallgrass prairie</u> habitat that has tree cover of 25 – 60%. <50% cover of exotic species.	N	Vegetation community not present.
Tallgrass Prairie	Prairies Grasses dominate	TPO1, TPO2	No min. size. An <u>open Tallgrass Prairie</u> habitat has < 25% tree cover. Less than 50% cover of exotic species.	N	Vegetation community not present.
Other Rare Vegetation Communities		Provincially Rare S1 - S3 veg. comm. are listed in Appendix M of SWHTG.	Rare Vegetation Communities may include beaches, fens, forest, marsh, barrens, dunes and swamps.	N	No rare vegetation communities present.
Specialized Habitat for Wildlife					
Waterfowl Nesting Area	Ducks	Upland habitats adjacent to: MAS1 to MAS3, SAS1, SAM1, SAF1, MAM1 to MAM6, SWT1, SWT2, SWD1 to SWD4 (>0.5 ha open water wetlands, alone or collectively).	Extends 120 m from a wetland or wetland complex. Upland areas should be at least 120 m wide. Wood Ducks and Hooded Mergansers use cavity trees (>40 cm dbh).	N	No suitable habitat.
Bald Eagle & Osprey Nesting, Foraging and Perching Habitat	Osprey, Bald Eagle	FOD, FOM, FOC, SWD, SWM, SWC directly adjacent to riparian areas	Nesting areas are associated with waterbodies along forested shorelines, islands, or on structures over water. Not man-made structures.	N	No suitable habitat.
Woodland Raptor Nesting Habitat	Barred Owl. Hawks: N. Goshawk, Cooper's, Sharp-shinned, Red-shouldered, Broad-winged.	Forests (FO), swamps (SW), and conifer plantations (CUP3)	>30 ha with > 4 ha interior habitat (200 m buffer)	N	No woodlands are sufficiently large to meet SWH criteria, although Cooper's Hawk was observed (this species has become more abundant in southern Ontario in recent decades)
Turtle Nesting Areas	Midland Painted Turtle Special Concern: Snapping Turtle, Northern Map Turtle	Exposed mineral soil (sand or gravel) areas adjacent (<100m) or within: MAS1 to MAS3, SAS1, SAM1, SAF1, BOO1, FEO1	Nest sites within open sunny areas with soil suitable for digging. Sand and gravel beaches.	N	No suitable habitat recorded.
Seeps and Springs	Wild Turkey, Ruffed Grouse, Spruce Grouse, White-tailed Deer, Salamander spp.	Seeps/Springs are areas where ground water comes to the surface.	Any forested area within the headwaters of a stream/river system. (2 or more seeps/springs confirms SWH type).	N	No seeps or springs observed.
Amphibian Breeding Habitat (Woodland)	Woodland Frogs and Salamanders, E. Newt	FOC, FOM, FOD, SWC, SWM, SWD	Open water wetlands, pond or woodland pool of >500 m ² within or adjacent to wooded areas. Permanent ponds or holding water until mid-July preferred.	N	No amphibian habitat in woodlands.
Amphibian Breeding Habitat (Wetlands)	Toads, Frogs, and Salamanders, E. Newt	SW, MA, FE, BO, OA and SA. Typically isolated (>120m) from woodland ecosites, however larger wetlands may be adjacent to woodlands.	Open water wetland ecosites >500m ² isolated from woodland ecosites with high species diversity. Permanent water with abundant vegetation for bullfrogs.	N	Insufficient numbers of breeding amphibians to meet SWH criteria.
Woodland Area-Sensitive Bird Breeding Habitat	Birds (area-sensitive species)	FOC, FOM, FOD, SWC, SWM, SWD	Presence of sufficient numbers of area-sensitive birds (more likely in large mature (>60 years) forest stands/woodlots >30 ha. Interior forest habitat >200m from forest edge).	N	Negligible numbers of area-sensitive birds recorded.
Habitat of Species of Conservation Concern					
Marsh Bird Breeding Habitat	Listed Wetland Birds	MAM1 to MAM6, SAS1, SAM1, SAF1, FEO1, BOO1 Green Heron: SW, MA and CUM1	Presence of sufficient numbers of listed wetland birds (wetlands with shallow water and emergent vegetation. Gr. Heron @ edges of these types w/ woody cover.)	N	Negligible numbers of listed wetland birds recorded.
Open Country Bird Breeding Habitat	Upland Sandpiper, Grasshopper Sparrow, Vesper Sparrow, N. Harrier, Savannah Sparrow, Short-eared Owl (SC)	CUM1, CUM2	Grassland/meadow >30 ha. Not being actively used for farming. Habitat established for 5 years or more.	N	Savannah Sparrow and Vesper Sparrow present, but not in grasslands or meadows. See report for further details.

Significant Wildlife Habitat - EcoRegion 7E

SWH Type	Associated Species	Associated ELC Ecosites	Habitat Criteria	Presence (Y/P/N)	Additional Notes and Species Observations
Shrub/Early Successional Bird Breeding Habitat	Brown Thrasher + Clay-coloured Sparrow (indicators); Field Sparrow, Black-billed Cuckoo, E. Towhee, Willow Flycatcher, Yellow-breasted Chat, Golden-winged Warbler	CUT1, CUT2, CUS1, CUS2, CUW1, CUW2	Large field areas succeeding to shrub and thicket habitats > 10 ha. Areas not actively used for farming in the last 5 years.	N	No large successional areas, and negligible numbers of listed shrub species.
Terrestrial Crayfish	Chimney or Digger Crayfish; Devil Crayfish or Meadow Crayfish	MAM1 to MAM6, MAS1 to MAS3, SWD, SWT, SWM. CUM1 sites with inclusions of the aforementioned.	Wet meadow and edges of shallow marshes (no minimum size) should be surveyed for terrestrial crayfish (typc. protected by wetland setbacks).	P	No crayfish chimneys observed. However, has been considered potential within and immediately adjacent to meadow marsh and shallow marsh communities.
Special Concern and Rare Wildlife Species	Any species of concern or rare wildlife species	Any ELC code.	Presence of species of concern or rare wildlife species.	Y	Eastern Wood-Pewee (Special Concern) candidate SWH in several woodlands. One Peregrine Falcon (Special Concern) was not considered SWH as it was a foraging juvenile, and the species did not nest in the Elfrida Lands. One Short-eared Owl (Special Concern) was not SWH habitat as the individual was not nesting and was not in suitable habitat. Fall sightings of non-breeding Great Egret and Kentucky Warbler are not SWH. Grass Pickerel (Special Concern) did not constitute SWH as it was for an off-site downstream reach and the upstream on-site reach did not contain suitable habitat. Woodland locations of Pignut Hickory and Shellbark Hickory (both S3) are considered areas of confirmed SWH. Four Barn Swallow (Special Concern) nests were noted in a barn. As this was a man-made structure, the barn was not deemed SWH.
Animal Movement Corridors					
Amphibians	Amphibians	all ecosites assoc. w/ water	Movement corridors between breeding habitat and summer habitat.	N	No corridors present (must be from amphibian breeding SWH, which does not occur)
SWH Exceptions for Ecodistricts within EcoRegion 7E					
Bat Migratory Stopover: 7E-2	Hoary Bat, Eastern Red Bat, Silver-haired Bat	No Specific ELC	Long Point (42°35' N, 80°30'E to 42°33' N, 80°03'E) - Silver-haired. Additional stopover areas currently unknown.	N	Not known to occur.

Presence: N = No, P = Potential (i.e. Candidate) and Y = Yes (i.e. Confirmed)

APPENDIX C4

Winter Wildlife Survey Table and Map Book

Table 1. Winter Wildlife Survey Summaries

Survey Area	Species	Relative Abundance (indicated by 'pieces' of evidence)	Evidence	Comments	Weather Conditions	Incidental Wildlife Observations
1i	White-tailed Deer	1	Tracks	Moving E-W along HDF south of Significant Woodland and across 1i.	Temp(°C): -5 feels like -14 Cloud Cover: 10/10 Beaufort Wind Scale: 2-3 Average snow depth: 5 cm Average snow drift depth: 23 cm Last Snowfall: 2 days, snow began falling in latter half of day.	Dark-eyed Junco x1, Blue Jay x3, Canada Goose x24, Common Raven x2, American Crow x1
	Coyote	10	Tracks	Moving E-W along HDF south of Significant Woodland and across 1i, as well as moving parallel to 1i into and from Significant Woodland		
	Eastern Cottontail	2	Tracks			
	Squirrel	17	Tracks, Foraging	Many instances of acorn bits left behind in piles among tracks, as well as holes dug into the ground in search of food.		
1j	Coyote	19	Tracks	High traffic along hedgerow (N-S direction), many other tracks were observed coming from field to the east (Parcel 2) and towards hedgerow as well as from field to field to the west (Parcel 1). High concentration of tracks ~5m east of where 1j and Significant Woodland meet.	Temp(°C): -5 feels like -14 Cloud Cover: 10/10 Beaufort Wind Scale: 2-3 Average snow depth: 5 cm Average snow drift depth: 23 cm Last Snowfall: 2 days, snow began falling in latter half of day.	Grey Squirrel x2, Golden-crowned Kinglet x3, American Tree Sparrow x2.
	Rodent sp.	7	Tracks			
2F	Coyote	14	Tracks, Scat	Tracks going in both directions alongside hedgerow, many tracks coming from field in Parcel 3 through hedgerow 2F. Tracks moving	Temp (°C): 4 Cloud Cover: 5/10	Northern Cardinal x1

Survey Area	Species	Relative Abundance (indicated by 'pieces' of evidence)	Evidence	Comments	Weather Conditions	Incidental Wildlife Observations
				across the field of Parcel 2 towards Significant Woodland and hedgerow 2F	Beaufort Wind Scale: 3-4 Average snow depth: 50 cm Last Snowfall: 4 days	
	Eastern Cottontail	1	Tracks	High traffic area on east side of hedgerow moving N-S		
	Squirrel	25	Tracks, Foraging	Multiple instances of broken walnut shells observed, often alongside evidence of digging in snow.		
4C *discussion with homeowner who noted presence of bats along 4C every summer	Coyote	1	Tracks, Scat	Urine and scat among tracks, moving along 11D and into 11C.	Temp (°C): -2 Cloud Cover 5/10 Beaufort Wind Scale: 1-2 Average snow depth: 22 cm Average snow drift depth: N/A Last snowfall: 2 days	Common Raven x3, Northern cardinal x1, European Starling x2, Dark-eyed Junco x1, House Sparrow x8, White-breasted Nuthatch x2, Blue Jay x2, Red-tailed Hawk x1
	Eastern Cottontail	3	Tracks, Scat			
	Squirrel	1	Tracks			
5C *many older unidentifiable tracks present along and across 5C	Coyote	7	Tracks	Tracks coming from fields to the north and south and passing perpendicular to 5C, in addition to tracks moving parallel through 5C	Temp (°C): -11 Cloud Cover: 10/10 Beaufort Wind Scale: 0-1 Average snow depth: 22 cm Average snow drift depth: N/A Last Snowfall: 1 day	House Sparrow x 1, Black-capped Chickadee x1, Northern cardinal x1, Blue Jay x5, Common Raven x1 (agitated, possible nest), Red-bellied Woodpecker x1
	Squirrel	2	Tracks, Foraging, Scat			
	Songbird	3	Tracks			
	Bird of Prey	3	Tracks, Foraging, Predation by Bird	Large garbage bag filled with meat with multiple instances of clawed bird tracks moving		

Survey Area	Species	Relative Abundance (indicated by 'pieces' of evidence)	Evidence	Comments	Weather Conditions	Incidental Wildlife Observations
				to, from and around the bag. Predation event on rodent sp. located ~10m south of hedgerow in field.		
7B	Coyote	1	Tracks	Tracks indicate high volume of coyotes moving along 7B and between 7B and 23A and 23B.	Temp (°C): -11 Cloud Cover: 10/10 Beaufort Wind Scale: 0-1 Average snow depth: 22 cm Average snow drift depth: N/A Last Snowfall: 1 day	Common Raven x1, Red-tailed Hawk x1, Canada Goose x9
10A	Eastern Cottontail	2	Tracks		Temp (°C): -2 Cloud Cover 5/10 Beaufort Wind Scale: 1-2 Average snow depth:22 cm Average snow drift depth: N/A Last snowfall: 2 days	Red Squirrel x1, Gray Squirrel x1, Hairy Woodpecker x1, Black-capped Chickadee x2, Morning Dove x2, White-breasted Nuthatch x4, Dark-eyed Junco x3
	Bird of Prey	1	Predation by Bird (snow angel)	Bird snow angel intercepting rodent tracks in field directly beside hedgerow.		
	Rodent sp.	2	Tracks			
10B	Coyote	2	Tracks	Tracks travelling east from Significant Woodland and through 10B. Second area of tracks also moving through 10B from Significant Woodland but in the direction of hedgerow 10C (NW) and associated woodland/thicket.	Temp (°C): -2 Cloud Cover 5/10, Beaufort Wind Scale: 1-2 Average snow depth:22 cm Average snow drift depth: N/A Last snowfall: 2 days	Northern cardinal x1, Blue Jay x 1
	Squirrel	7	Tracks			
	Songbird	1	Tracks			
	Rodent sp.	2	Tracks			

Survey Area	Species	Relative Abundance (indicated by 'pieces' of evidence)	Evidence	Comments	Weather Conditions	Incidental Wildlife Observations
B10b	Bird of Prey	1	Predation by Bird (snow angel)	Bird snow angel intercepting rodent tracks in field directly beside hedgerow.	Temp (°C): -2 Cloud Cover 5/10 Beaufort Wind Scale: 1-2 Average snow depth:22 cm Average snow drift depth: N/A Last snowfall: 2 days	Black-capped Chickadee x2, Tree Sparrow x4, American Crow x1. White-breasted Nuthatch x4, Dark-eyed Junco x3
	Songbird	1	Tracks, Foraging			
	Rodent sp.	2	Tracks			
11C	Eastern Cottontail	2	Tracks, Scat, Visual observation of rabbit	Multiple observations of scat within tracks. Tracks went in both directions multiple times between 11C and 11D.	Temp (°C): -2 Cloud Cover 5/10 Beaufort Wind Scale: 1-2 Average snow depth:22 cm Average snow drift depth: N/A Last snowfall: 2 days	Praying Mantis egg sac x1
11D	Coyote	1	Tracks, Scat	Urine and scat among tracks, moving along 11D and into 11C.	Temp (°C): -2 Cloud Cover 5/10 Beaufort Wind Scale: 1-2 Average snow depth:22 cm Average snow drift depth: N/A Last snowfall: 2 days	
	Eastern Cottontail	3	Tracks, Scat			
	Squirrel	1	Tracks			
13A	Eastern Cottontail	1	Tracks	High traffic area along east side of hedgerow	Temp (°C): -8 feels like -15 Cloud Cover 10/10 Beaufort Wind Scale: 0-1	Blue Jay x1, Northern Cardinal x1, Canada Goose
	Squirrel	11	Tracks, Scat			

Survey Area	Species	Relative Abundance (indicated by 'pieces' of evidence)	Evidence	Comments	Weather Conditions	Incidental Wildlife Observations
	Songbird	13	Tracks, Scat	Visual observation of DEJU, HOSP, ATSP feeding in survey area. Multiple observations of Goldenrod stalks being foraged by songbirds which left piles of fluff and seeds behind on ground below. Tracks also seemed to concentrate around the bases of large trees on 5 occasions.	Average snow depth: 20 cm Average snow drift depth: >30 cm Last snowfall: 1 day	x5, Black-capped Chickadee x1, Hairy Woodpecker x1, Morning Dove x1, White-breasted Nuthatch x2, House Sparrow x1, Red-bellied Woodpecker x1, American tree Sparrow x5, Downy Woodpecker x2, Common Raven x1, Dark-eyed Junco x6
13B	Eastern Cottontail	19	Tracks, Foraging, Scat, injury/predation		Temp (°C): -8 feels like -15 Cloud Cover 10/10 Beaufort Wind Scale: 0-1 Average snow depth: 20 cm Average snow drift depth: >30 cm Last snowfall: 1 day	Bue Jay x1, Canada Goose x16, Dark-eyed Junco x1
	Weasel sp.	1	Tracks			
14A	Coyote	6	Tracks	Majority of tracks observed in N-S direction moving between the northern PSW and southern Significant Woodland.	Temp (°C): -5 Cloud Cover 5/10 Beaufort Wind Scale: 0-1 Average snow depth: 16 cm Average snow drift depth: >30 cm Last snowfall: 7+ days	Golden Crowned Kinglet x10+, Black-capped Chickadee x2
	Eastern Cottontail	2	Tracks			
	Squirrel	6	Tracks, Predation by Bird	Abruptly stop from predation by bird.		
	Songbird	4	Tracks, Foraging	High density in edge areas where forb seeds were present – observed evidence of foraging along entire length of 14A		

Survey Area	Species	Relative Abundance (indicated by 'pieces' of evidence)	Evidence	Comments	Weather Conditions	Incidental Wildlife Observations
	Rodent sp.	2	Tracks, Foraging			
	Mouse	1	Foraging	Feeding evidence on soybeans above snow.		
	Mole	1	Tracks and burrowing below snow	Snow tunnel observed.		
B13-14	White-tailed Deer	3	Tracks	Multiple sets of tracks, many entering and exiting from high traffic deer rea observed in hedgerow 13B.	Temp (°C): -5 Cloud Cover 5/10 Beaufort Wind Scale: 0-1 Average snow depth: 16 cm Average snow drift depth: >30 cm Last snowfall: 7+ days	Downy Woodpecker x2
	Coyote	1	Tracks	High traffic area spanning length of Significant Woodland in N-S direction.		
	Eastern Cottontail	1	Tracks, Scat			
	Squirrel	2	Tracks, Foraging			
	Raccoon	1	Tracks	Tracks heading in direction of adjacent backyard.		
Bird of Prey	1	Predation by Bird	Large wing marks present in snow adjacent to southern woodland border, rodent tracks leave woodland heading south and are intercepted at wing mark location and do not continue. Several small specks of blood observed in vicinity.			
14B	Coyote	1	Tracks	Moving north across Golf Club Road and using 14B as cover while moving across Parcel 14	Temp (°C): -5 Cloud Cover 5/10 Beaufort Wind Scale: 0-1	

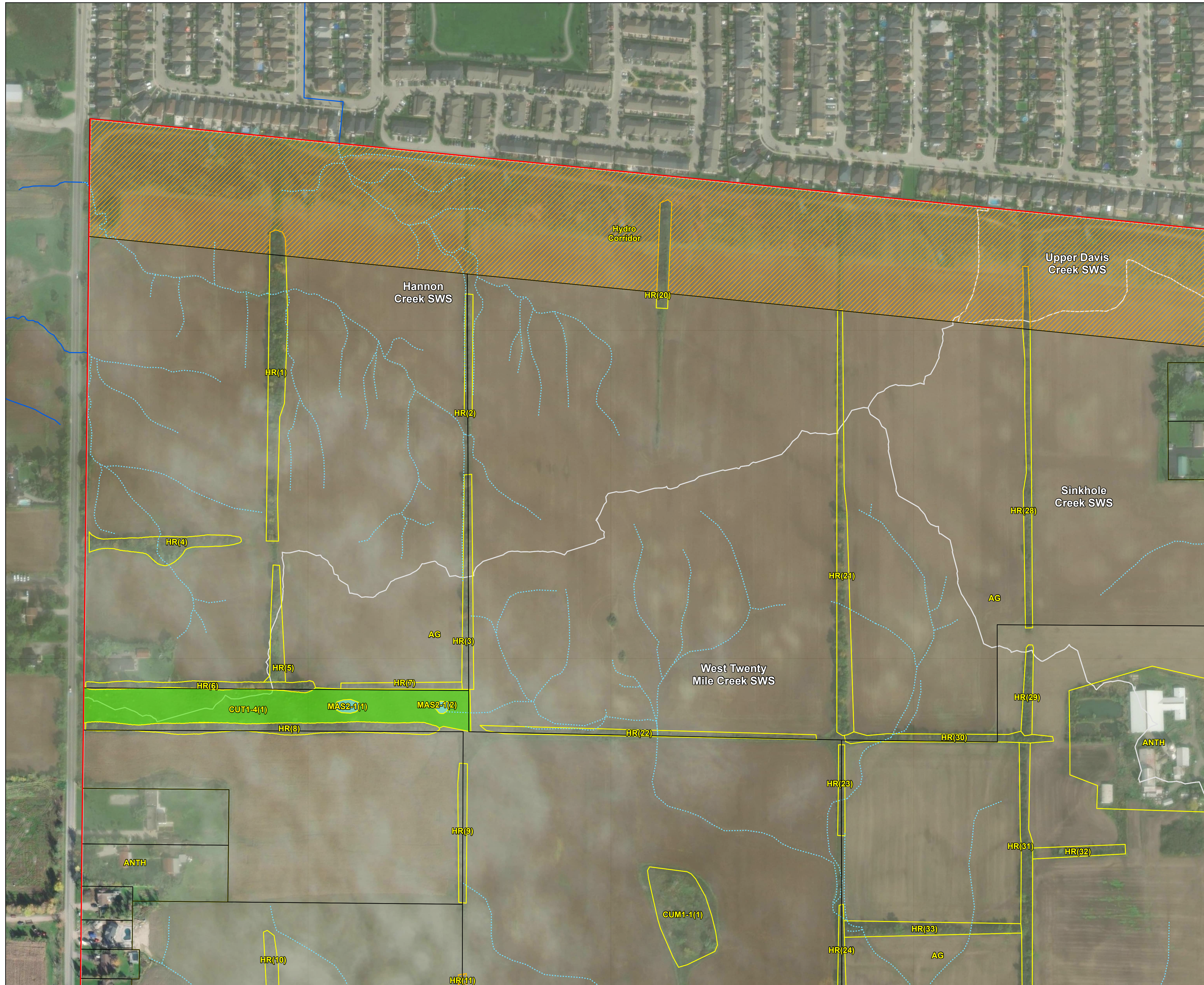
Survey Area	Species	Relative Abundance (indicated by 'pieces' of evidence)	Evidence	Comments	Weather Conditions	Incidental Wildlife Observations
	Rodent sp.	5	Tracks, Foraging		Average snow depth: 16 cm Average snow drift depth: >30 cm Last snowfall: 7+ days	
14C+14D	White-tailed Deer	2	Tracks	Moving N-S and S-N along hedgerow 14C into and from the PSW.	Temp (°C): -5 Cloud Cover 5/10 Beaufort Wind Scale: 0-1 Average snow depth: 16 cm Average snow drift depth: >30 cm Last snowfall: 7+ days	Squirrel Dray x7, American Crow x1, Blue Jay x3, House Sparrow x1, Dark-eyed Junco x2, Morning Dove x1
	Coyote	8	Tracks, Predation on rabbit	Tracks moving between 14D and 14B and coming from south of Golf Club and moving along 14C+14D towards PSW, evidence of predation on rabbit as evidenced by blood, urine and feces. High traffic area identified E-W along southern edge of PSW.		
	Fox	1	Tracks			
	Eastern Cottontail	16	Tracks, Scat, Foraging	Many instances of scat in piles observed throughout hedgerow, browse on neighbouring cedar boughs at beginning of 14D near Golf Club Road.		
	Squirrel	15	Tracks, Scat	Many areas with large disturbance to snow cover and tracks leading to and from area.		
	Mouse	5	Tracks, Foraging	Very high traffic area moving from edge of 14C and southern edge of PSW to exposed soybeans ~5 m into the field.		
	Wild Turkey	1	Tracks	Moving away from 14D through the field towards Golf Club Road		
	Songbird	3	Tracks, Foraging, Scat			

Survey Area	Species	Relative Abundance (indicated by 'pieces' of evidence)	Evidence	Comments	Weather Conditions	Incidental Wildlife Observations
	Rodent sp.	7	Tracks, Foraging			
	Bird of Prey	1	Predation by bird (snow angel)	Large wing marks present in snow, rodent tracks are intercepted at wing mark location and do not continue.		
	Weasel	5	Tracks	Majority of tracks moving parallel to west side of hedgerow, tracks disappear likely due to drifting snow. One instance of weasel tracks intercepting small rodent tracks in an area of disturbed snow, possible predation event.		
23A	Coyote	Several	Tracks	Very high activity area, tracks going in both directions parallel and perpendicular to hedgerow, lots of movement from southern part of field in Parcel 23, to hedgerow 23A, and between 23A and 23C.	Temp (°C): -3 Cloud Cover: 10/10 Beaufort Wind Scale: 0-1 Average snow depth: 10 cm Average snow drift depth: 20 cm Last Snowfall: 1 day	Common Raven x1, Blue Jay x1, Canada Goose x5
	Eastern Cottontail	3	Tracks, Scat, visual observation of individual			
	Squirrel	1	Tracks			
	Rodent sp.	4	Tracks			
23B	Coyote	6	Tracks, Predation by coyote	At the eastern corner of 23B and southern corner of 23C multiple layers of tracks in area surrounding blood spatter, deer jaw and highly disturbed snow. Tracks moved around disturbed area as well as to and from in all directions.	Temp (°C): -11 Cloud Cover: 10/10 Beaufort Wind Scale: 0-1 Average snow depth: 22 cm Average snow drift depth: N/A Last Snowfall: 1 day	American Crow x1, Common Raven x1
	Squirrel	2	Tracks	Tracks show individuals moving between large trees in hedgerow		

Survey Area	Species	Relative Abundance (indicated by 'pieces' of evidence)	Evidence	Comments	Weather Conditions	Incidental Wildlife Observations
23C	Coyote	4	Tracks	Majority of tracks come from within hedgerow 23C, exit the hedgerow at its northern terminus and head towards hedgerow 23A. Observed multiple sets of tracks going in the opposite direction as well.	Temp (°C): -11 Cloud Cover: 10/10 Beaufort Wind Scale: 0-1 Average snow depth: 22 cm Average snow drift depth: N/A Last Snowfall: 1 day	Blue Jay x1
	Songbird	1	Tracks			
25A	Coyote	2	Tracks, Scat		Temp (°C): -3 Cloud Cover: 10/10 Beaufort Wind Scale: 0-1 Average snow depth: 10 cm Average snow drift depth: 20 cm Last Snowfall: 1 day	Canada Goose: evidence of feeding, scat, tracks and imprints from tail feathers, feet, and wings when individuals land, Common Raven x1, Praying Mantis Egg Sac x1
	Squirrel	2	Tracks, Foraging	Multiple instances of squirrel tracks leading up to/away from areas with digging evidence in snow and walnut pieces and shells strewn about.		
	Bird of Prey	6	Predation by Bird (snow angel)	Six total instances of predation, four of which where rodent tracks abruptly stop after the snow angel.		
	Rodent sp.	2	Tracks	Hole present at end of one set of tracks where individual appears to have dug beneath the snow and reappeared on the other side of a large stick as evidenced by hole and tunnel.		
25B	Coyote	5+	Tracks	Area not included in surveys due to its status as a PSW and resulting setbacks, but evidence of use was noted as staff passed by. Evidence largely consists of coyote tracks moving in all directions along and through 25B.	Temp (°C): -3 Cloud Cover: 10/10 Beaufort Wind Scale: 0-1 Average snow depth: 10 cm Average snow drift depth: 20 cm Last Snowfall: 1 day	

Survey Area	Species	Relative Abundance (indicated by 'pieces' of evidence)	Evidence	Comments	Weather Conditions	Incidental Wildlife Observations
38A	Coyote	4	Tracks	Multiple sets of tracks moving perpendicular to 38A coming from fields on either side.	Temp (°C): 3 Cloud Cover: 10/10 Beaufort Wind Scale: 4-5 Average snow depth: 40 cm Average snow drift depth: >50 cm Last Snowfall: 4 days	Horned Lark x3
	Squirrel	3	Tracks			
38B	Coyote	10	Tracks, Scat	Multiple sets of tracks moving between 38A and 38B. High traffic area identified on east side of 38B moving N-S. Many sets of tracks moving perpendicular to 38B coming from field area on either side.	Temp (°C): 3 Cloud Cover: 10/10 Beaufort Wind Scale: 4-5 Average snow depth: 40 cm Average snow drift depth: >50 cm Last Snowfall: 4 days	
	Squirrel	5	Tracks	High traffic area identified on east side of hedgerow.		
47A	White-tailed Deer	2	Tracks	One instance of tracks coming from direction of Mud St., four instances of tracks moving E-W/W-E in field adjacent to 47A ~20 m east of feature.	Temp(°C): -5 feels like -14 Cloud Cover: 10/10 Beaufort Wind Scale: 2-3 Average snow depth: 12 cm Average snow drift depth: N/A Last Snowfall: 2 days, snow began falling in latter half of day.	Red-tailed Hawk x1, hunting overhead in adjacent field, Red-bellied Woodpecker x2, White-breasted Nuthatch x2
	Coyote	4	Tracks	North side of 47A saw a large volume of track evidence moving lengthwise along feature from coyotes. Many tracks also appeared to go straight onto Mud St. indicating likely movement between 47A and woodland across the street. Also observed lots of tracks moving through 47A into adjacent woodland and wetland area to the west.		
	Raccoon	5	Tracks	Tracks moving towards large Red Oak, tracks did not continue past Red Oak. Another		

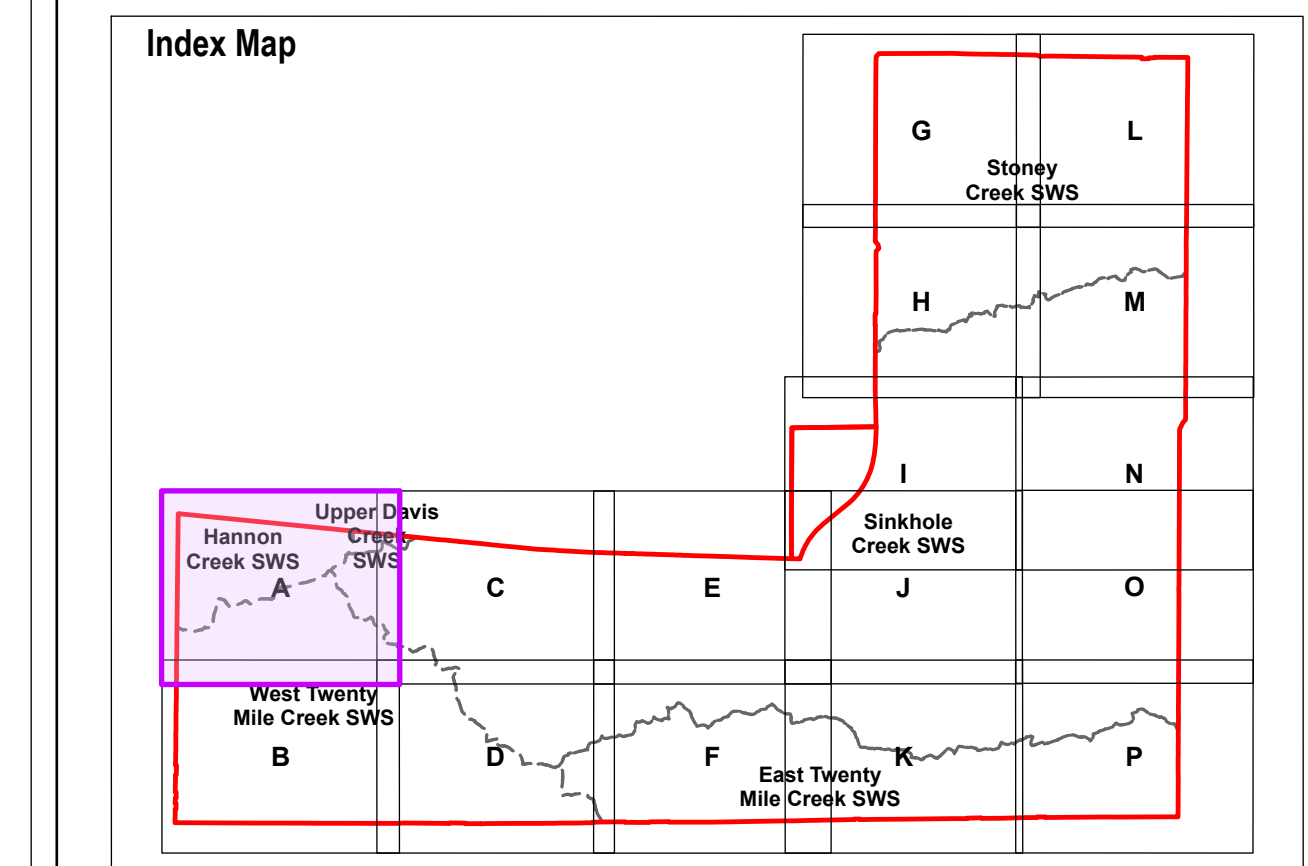
Survey Area	Species	Relative Abundance (indicated by 'pieces' of evidence)	Evidence	Comments	Weather Conditions	Incidental Wildlife Observations
				instance of tracks heading towards large Bur Oak and abruptly stopping.		
	Squirrel	17	Tracks, Foraging	One instance of one tuft of fur from tail observed in a packed down area of snow on the border of the feature.		
	Rodent sp.	7	Tracks, Nest, Foraging	Many tracks present throughout feature, of note was a hole at base of mature Oak with high track density going in and out in addition to crumbs of nuts and leaf litter near entrance.		



LEGEND

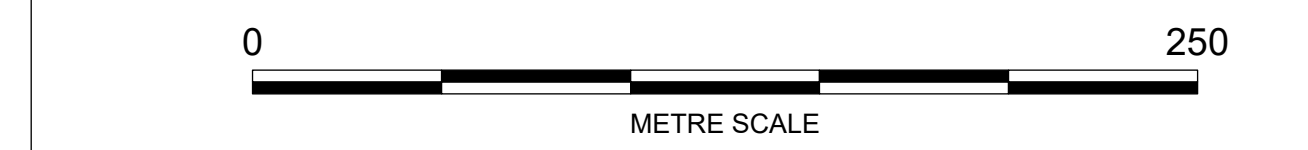
Study Area	Unevaluated Drainage Feature within Non-Participating Land
Additional Lands (Unsurveyed)	Evaluated Drainage Feature within Participating Land
Subject Property	
Subwatershed Boundary	
Ecological Land Classification (ELC)	
Wetland ¹	
Woodland ¹	
Winter Wildlife Survey Area	
Drainage Feature ²	
Headwater Drainage Feature (HDF) ³	

ELC Code	Description
AG	Agricultural
ANTH	Anthropogenic
CUM1-1	Dry-Moist Old Field Mineral Cultural Meadow
CUT1-4	Gray Dogwood Cultural Thicket
HR	Hedgerow
MAS2-1	Cattail Mineral Shallow Marsh Type



1 - Verified through 2023-2025 field investigations.
 2 - Watercourses as labelled by Geohub Ontario mapping. Subject to refinement following field studies, data has been refined in specific locations based off field observations and satellite imagery to better reflect current conditions.
 3 - HDF classifications within non participating properties were assessed based on the most conservative adjacent HDF classification.

NOTE: The information contained within this figure is preliminary and will be refined during further study. Features delineated within non-participating properties will need to be verified at a later date, refer to Fig 1.4.1 for list of non-participating properties.



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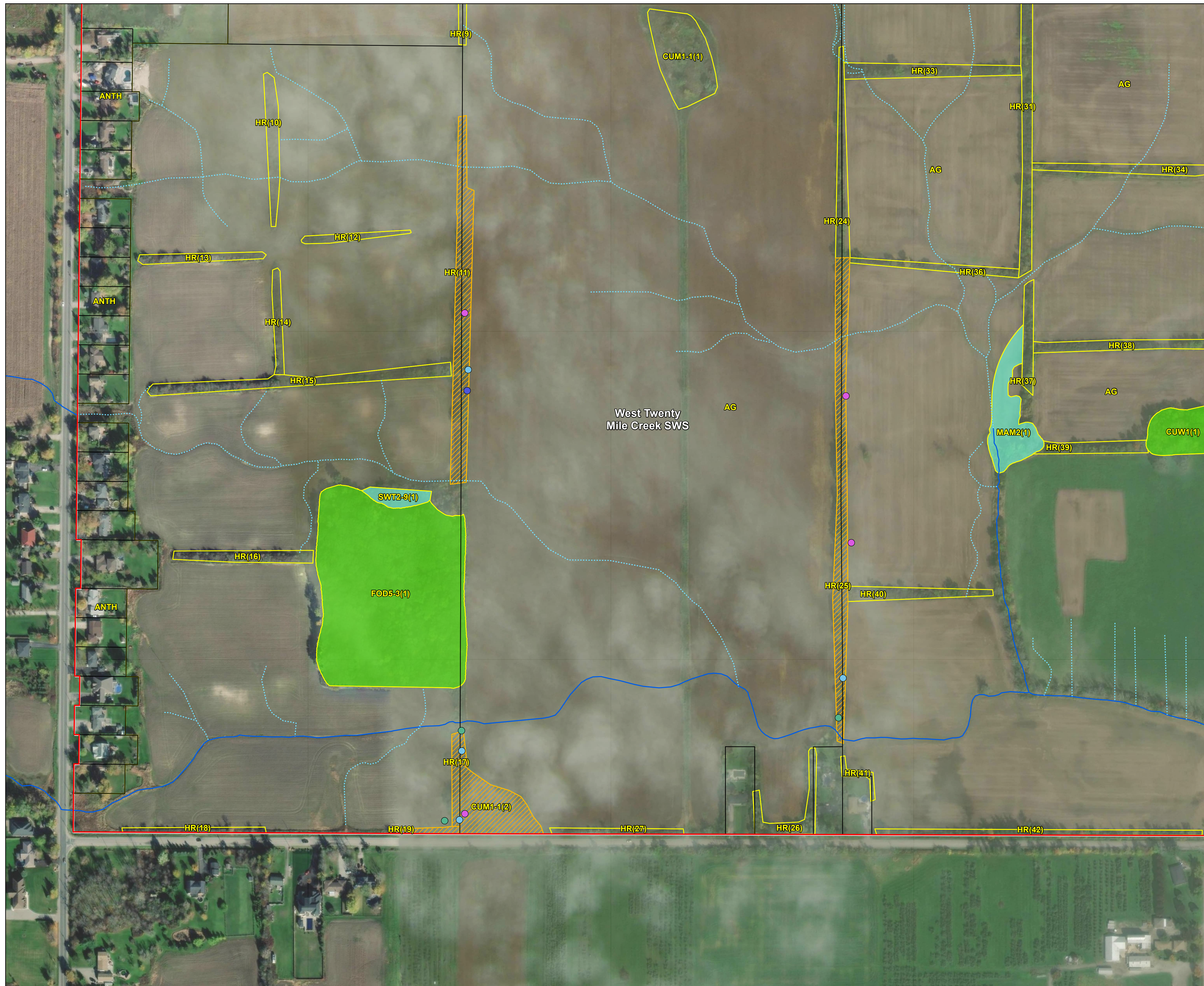
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PROJECT
 Elfrida Subwatershed Plan

	TITLE Winter Wildlife Observations
	REF. NO. 2306301-3.1.4A-1
	Figure 3.1.4 A



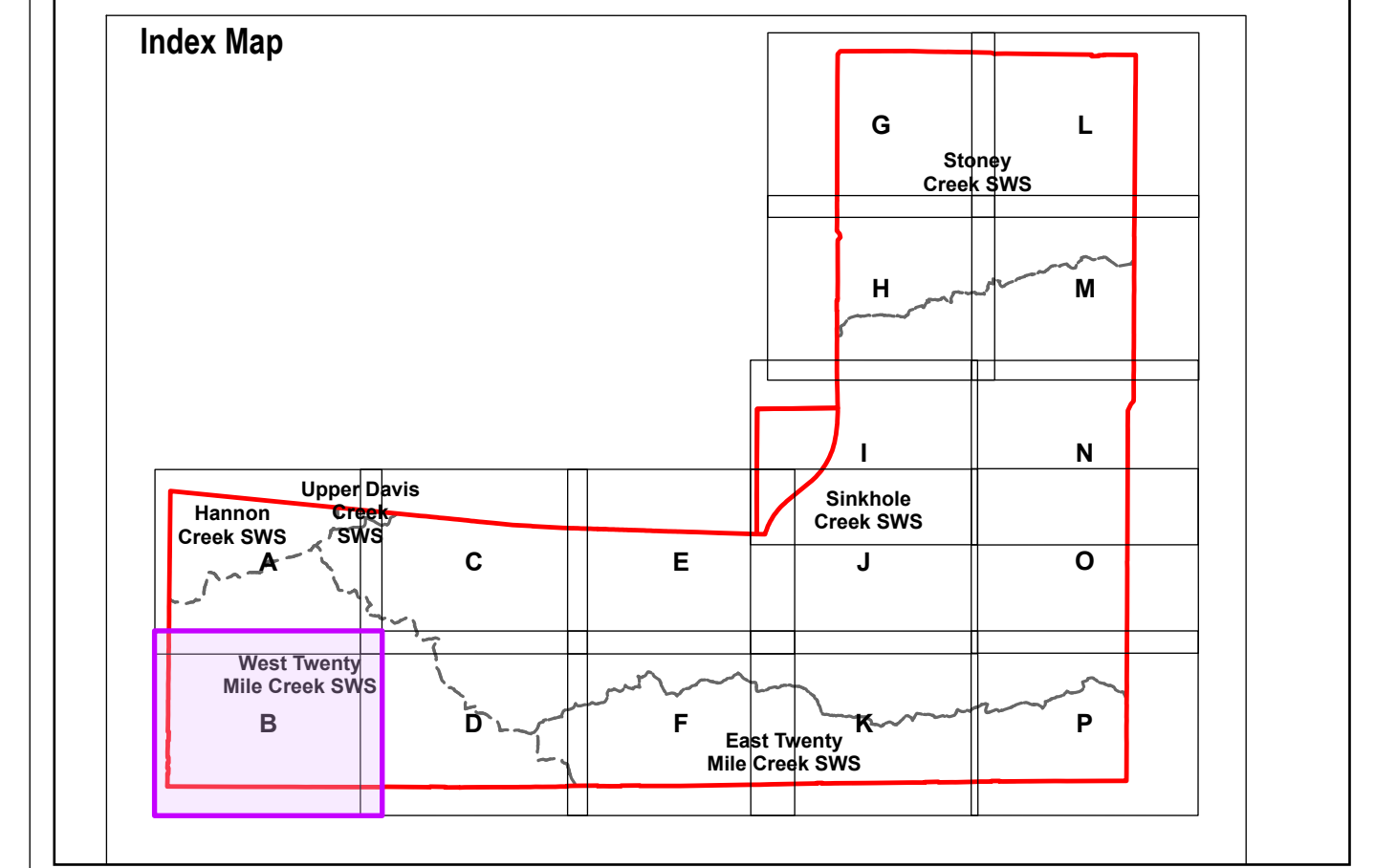
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- Study Area
- Additional Lands (Unsurveyed)
- Subject Property
- Subwatershed Boundary
- Ecological Land Classification (ELC)
- Wetland¹
- Woodland¹
- Winter Wildlife Survey Area
- Drainage Feature²
- Headwater Drainage Feature (HDF)³
- Unevaluated Drainage Feature within Non-Participating Land
- Evaluated Drainage Feature within Participating Land

Winter Wildlife Observation

- Coyote (*Canis latrans*)
- Eastern Cottontail (*Sylvilagus floridanus*)
- Rodent
- Squirrel (*Sciuridae sp.*)

ELC Code	Description
AG	Agricultural
ANTH	Anthropogenic
CUM1-1	Dry-Moist Old Field Mineral Cultural Meadow
CUW1	Mineral Cultural Woodland
FOD5-3	Dry – Fresh Sugar Maple – Oak Deciduous Forest
HR	Hedgerow
MAM2	Graminoid Mineral Meadow Marsh Ecosite
SWT2-9	Gray Dogwood Mineral Thicket Swamp



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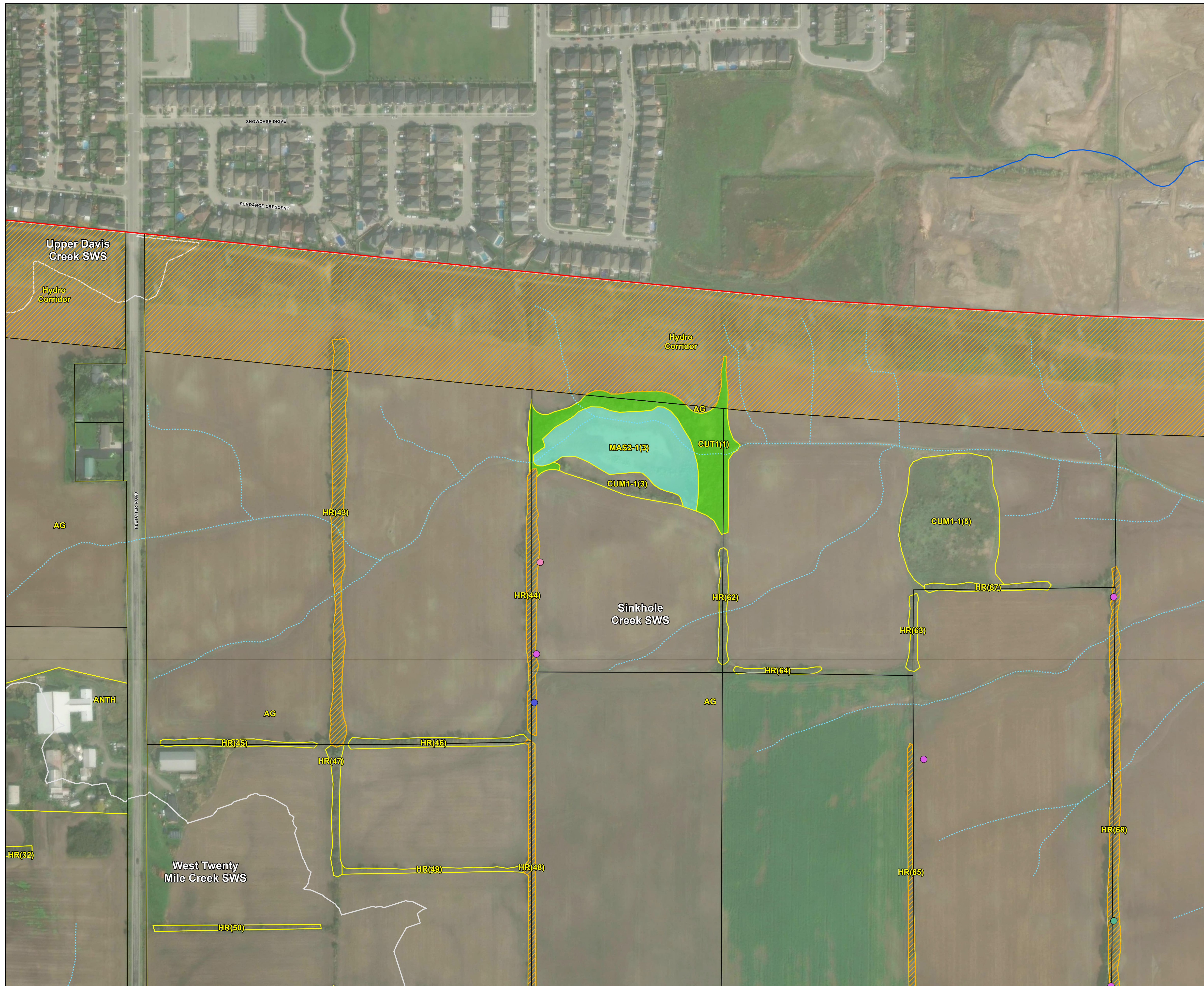
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PROJECT: Elfrida Subwatershed Plan

TITLE: Winter Wildlife Observations

REF. NO.: 2306301-3.1.4B-1

Figure 3.1.4 B



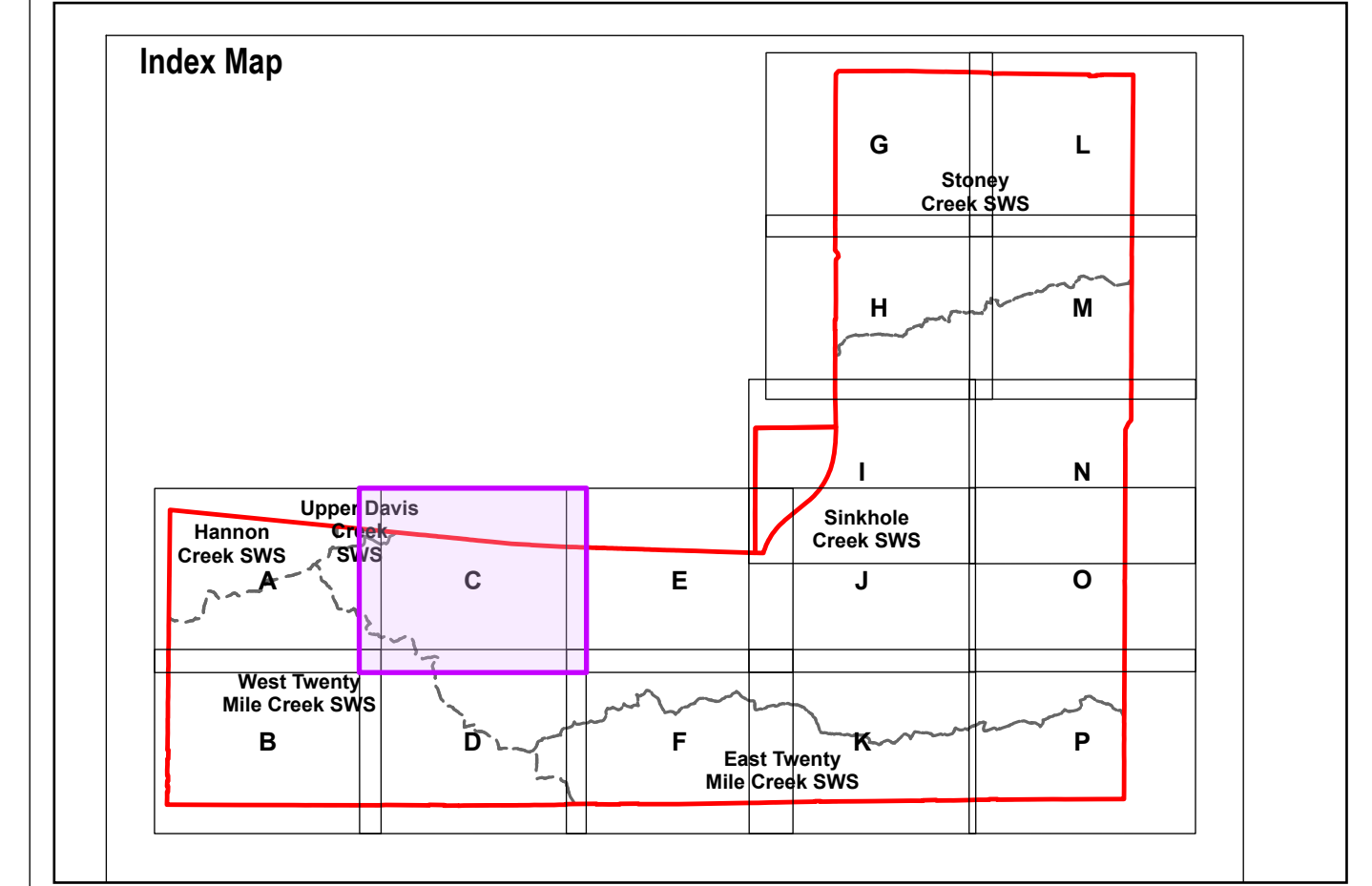
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- Study Area
- Additional Lands (Unsurveyed)
- Subject Property
- Subwatershed Boundary
- Ecological Land Classification (ELC)
- Wetland¹
- Woodland¹
- Winter Wildlife Survey Area
- Drainage Feature²
- Headwater Drainage Feature (HDF)³
- Unevaluated Drainage Feature within Non-Participating Land
- Evaluated Drainage Feature within Participating Land

Winter Wildlife Observation

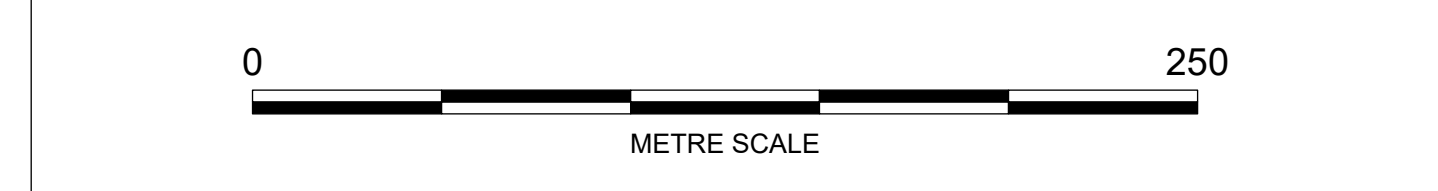
- Coyote (*Canis latrans*)
- Eastern Cottontail (*Sylvilagus floridanus*)
- Raptor
- Rodent

ELC Code	Description
AG	Agricultural
ANTH	Anthropogenic
CUM1-1	Dry-Moist Old Field Mineral Cultural Meadow
CUT1	Mineral Cultural Woodland
HR	Hedgerow
MAS2-1	Cattail Mineral Shallow Marsh Type



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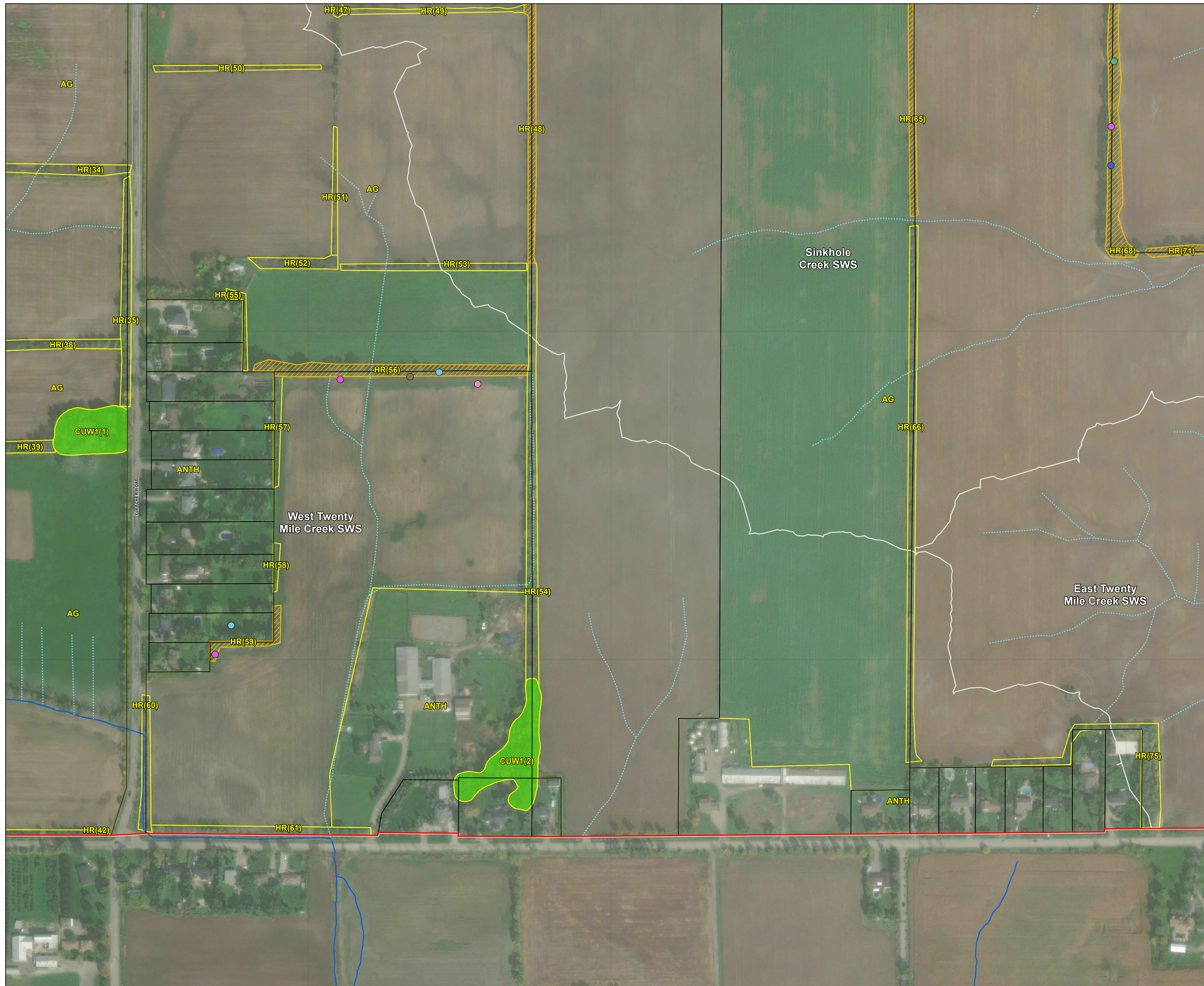
NORTH

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	TITLE Winter Wildlife Observations
	REF. NO. 2306301-3.1.4C-1
	Figure 3.1.4 C



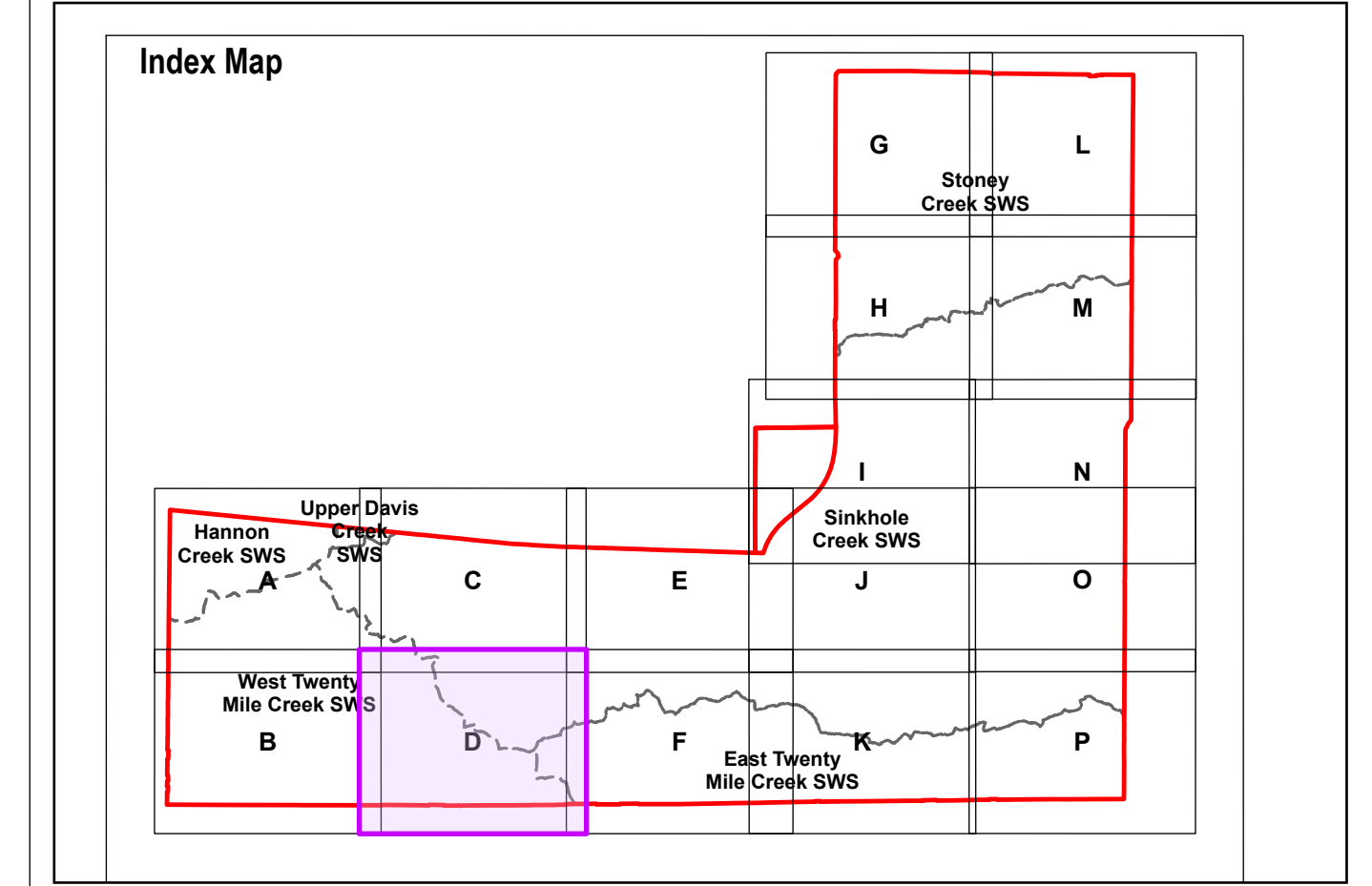
LEGEND

- Study Area
- Additional Lands (Unsurveyed)
- Subject Property
- Subwatershed Boundary
- Ecological Land Classification (ELC)
- Woodland¹
- Winter Wildlife Survey Area
- Drainage Feature²
- Headwater Drainage Feature (HDF)³
- Unevaluated Drainage Feature within Non-Participating Land
- Evaluated Drainage Feature within Participating Land

Winter Wildlife Observation

- Coyote (*Canis latrans*)
- Eastern Cottontail (*Sylvilagus floridanus*)
- Raptor
- Rodent
- Songbird
- Squirrel (*Sciuridae* sp.)

ELC Code	Description
AG	Agricultural
ANTH	Anthropogenic
CUW1	Mineral Cultural Woodland
HR	Hedgerow



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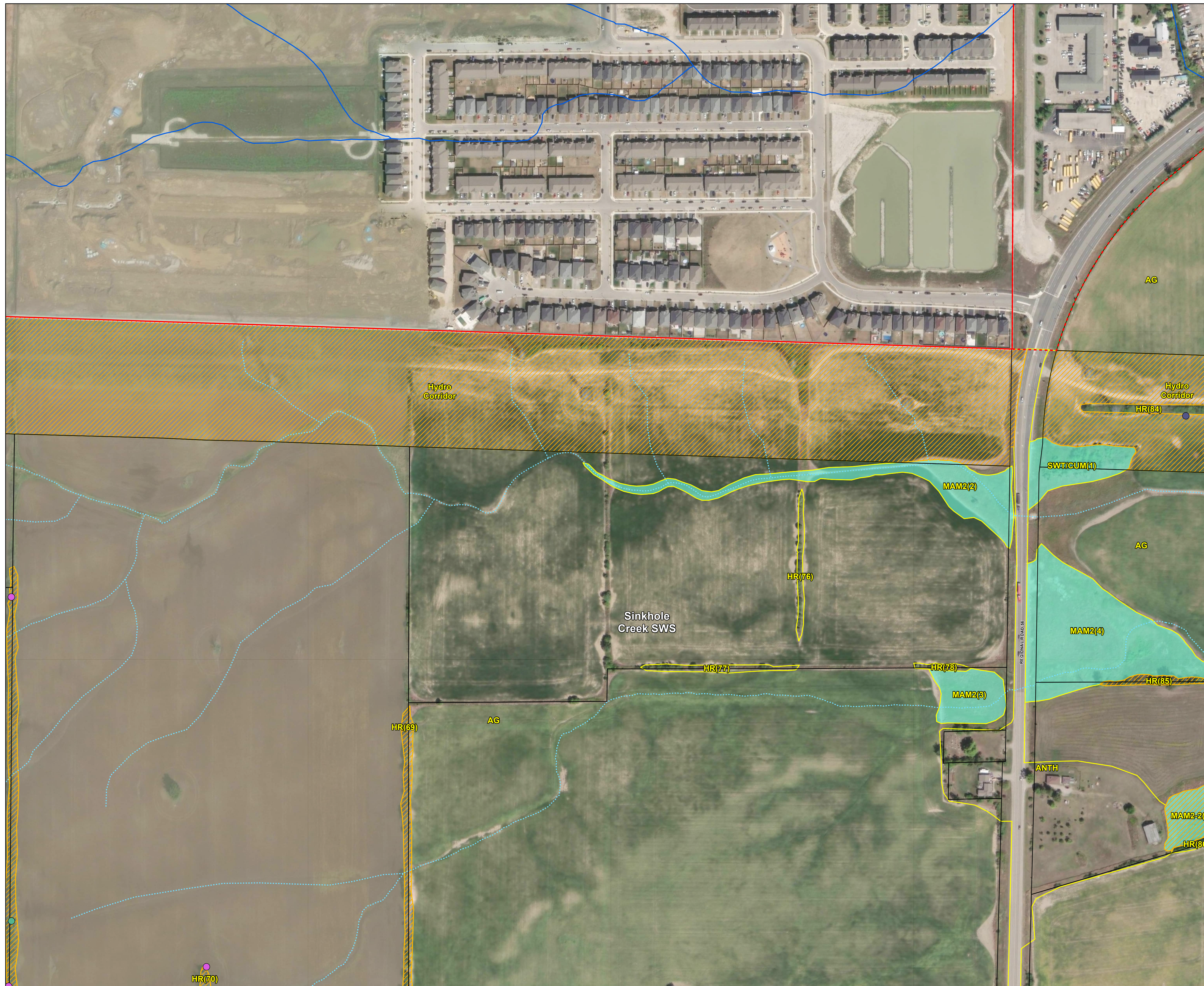


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 	TITLE Winter Wildlife Observations
	REF. NO. 2306301-3.1.4D-1
	Figure 3.1.4 D



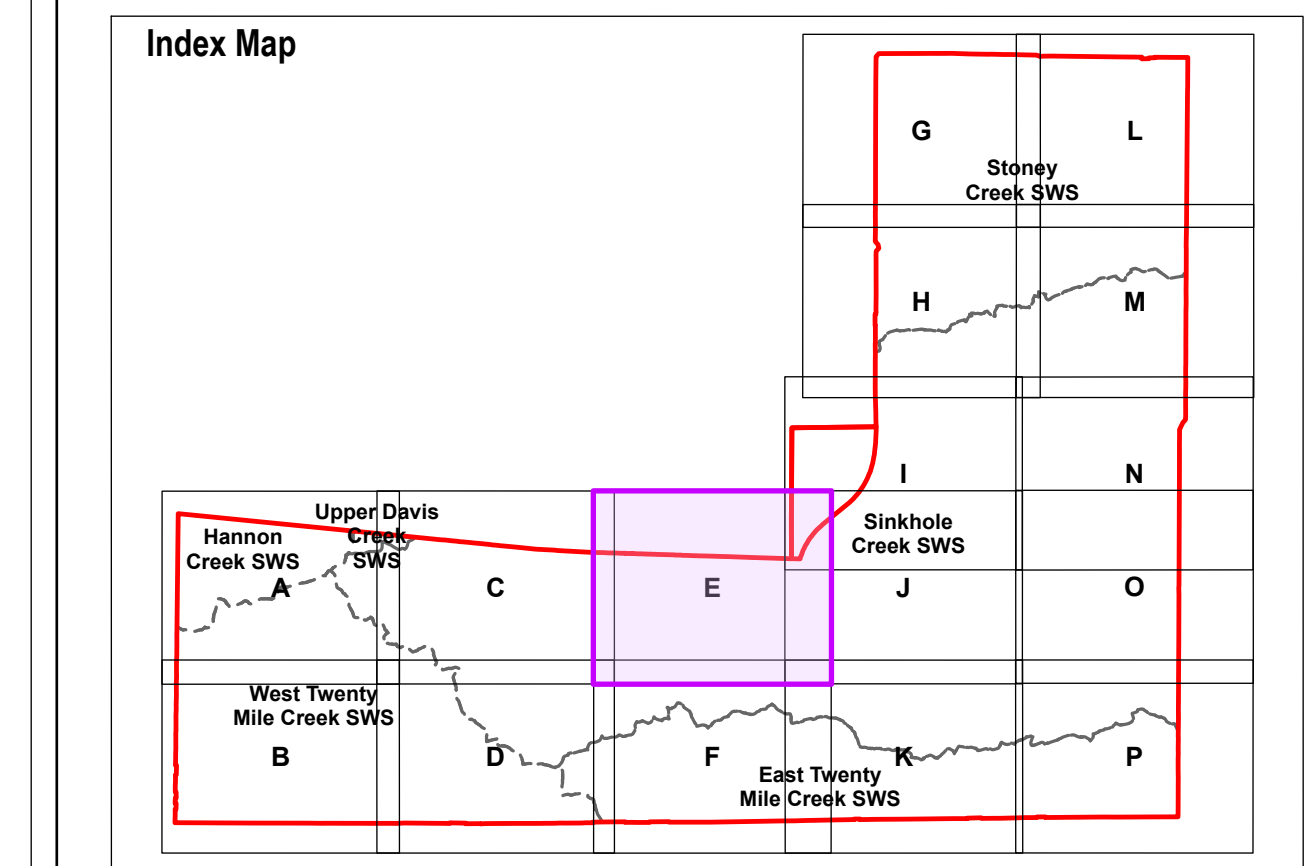
LEGEND

- Study Area
- Additional Lands (Unsurveyed)
- Subject Property
- Subwatershed Boundary
- Ecological Land Classification (ELC)
- Wetland¹
- Winter Wildlife Survey Area
- Drainage Feature²
- Headwater Drainage Feature (HDF)³
- Unevaluated Drainage Feature within Non-Participating Land
- Evaluated Drainage Feature within Participating Land

Winter Wildlife Observation

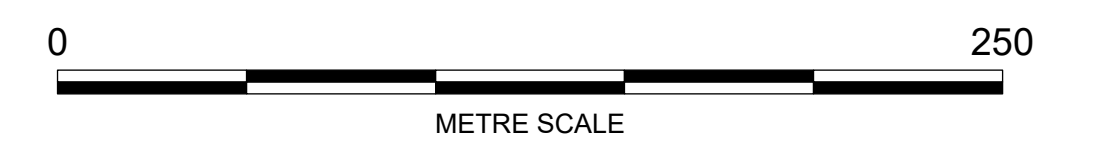
- Coyote (*Canis latrans*)
- Eastern Cottontail (*Sylvilagus floridanus*)
- Mouse (*Mus sp.*)

ELC Code	Description
AG	Agricultural
ANTH	Anthropogenic
HR	Hedgerow
MAM2	Graminoid Mineral Meadow Marsh Ecosite
MAM2-2	Reed-cattail Grass Mineral Meadow Marsh Type
MAS2-1	Cattail Mineral Shallow Marsh Type
SWT/CUM	Swamp Thicket / Mineral Cultural Meadow



1 - Verified through 2023-2025 field investigations.
 2 - Watercourses as labelled by Geohub Ontario mapping. Subject to refinement following field studies, data has been refined in specific locations based off field observations and satellite imagery to better reflect current conditions.
 3 - HDF classifications within non participating properties were assessed based on the most conservative adjacent HDF classification.

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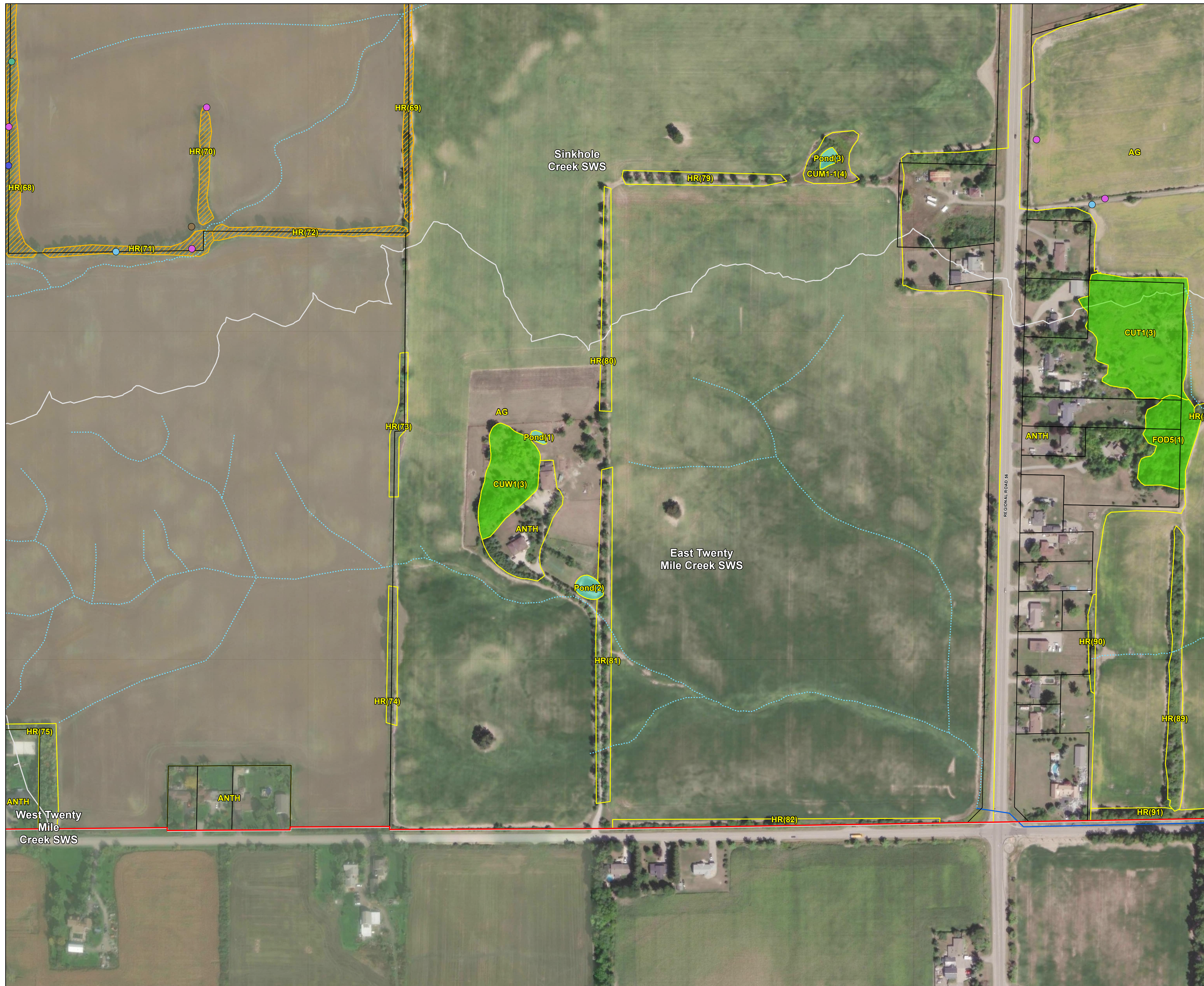
NORTH

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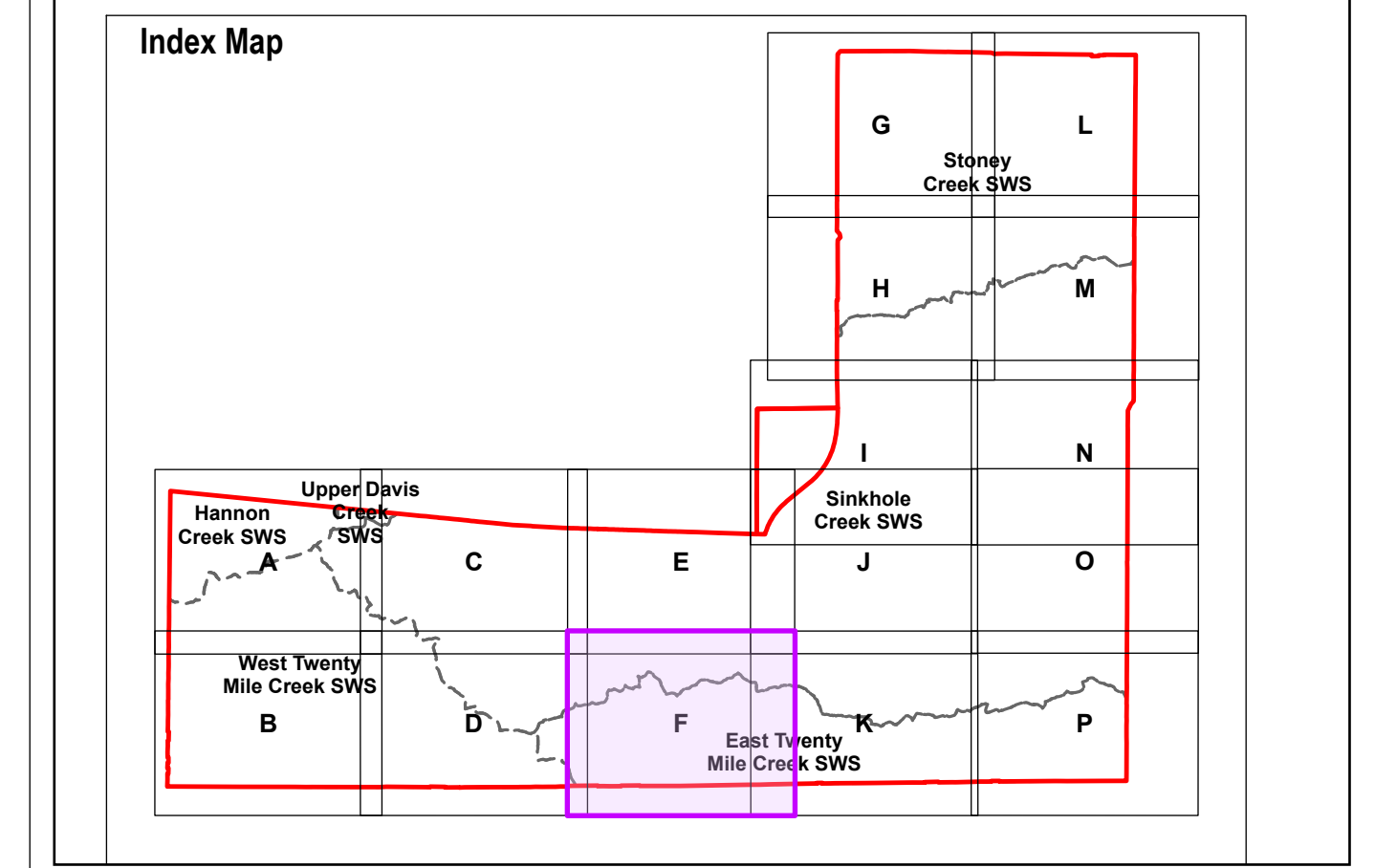
	TITLE Winter Wildlife Observations
	REF. NO. 2306301-3.1.4E-1
	Figure 3.1.4 E



LEGEND

Study Area	Unevaluated Drainage Feature within Non-Participating Land
Additional Lands (Unsurveyed)	Evaluated Drainage Feature within Participating Land
Subject Property	Winter Wildlife Observation
Subwatershed Boundary	Coyote (<i>Canis latrans</i>)
Ecological Land Classification (ELC)	Eastern Cottontail (<i>Sylvilagus floridanus</i>)
Wetland ¹	Rodent
Woodland ¹	Songbird
Winter Wildlife Survey Area	Squirrel (<i>Sciuridae sp.</i>)
Drainage Feature ²	
Headwater Drainage Feature (HDF) ³	

ELC Code	Description
AG	Agricultural
ANTH	Anthropogenic
CUM1-1	Dry-Moist Old Field Mineral Cultural Meadow
CUW1	Mineral Cultural Woodland
FOD5	Dry – Fresh Sugar Maple Deciduous Forest Ecosite
HR	Hedgerow
MAM2-2	Reed-canary Grass Mineral Meadow Marsh Type
Pond	Pond



1 - Verified through 2023-2025 field investigations.
 2 - Watercourses as labelled by Geohub Ontario mapping. Subject to refinement following field studies, data has been refined in specific locations based off field observations and satellite imagery to better reflect current conditions.
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	TITLE Winter Wildlife Observations
	REF. NO. 2306301-3.1.4F-1
	Figure 3.1.4 F



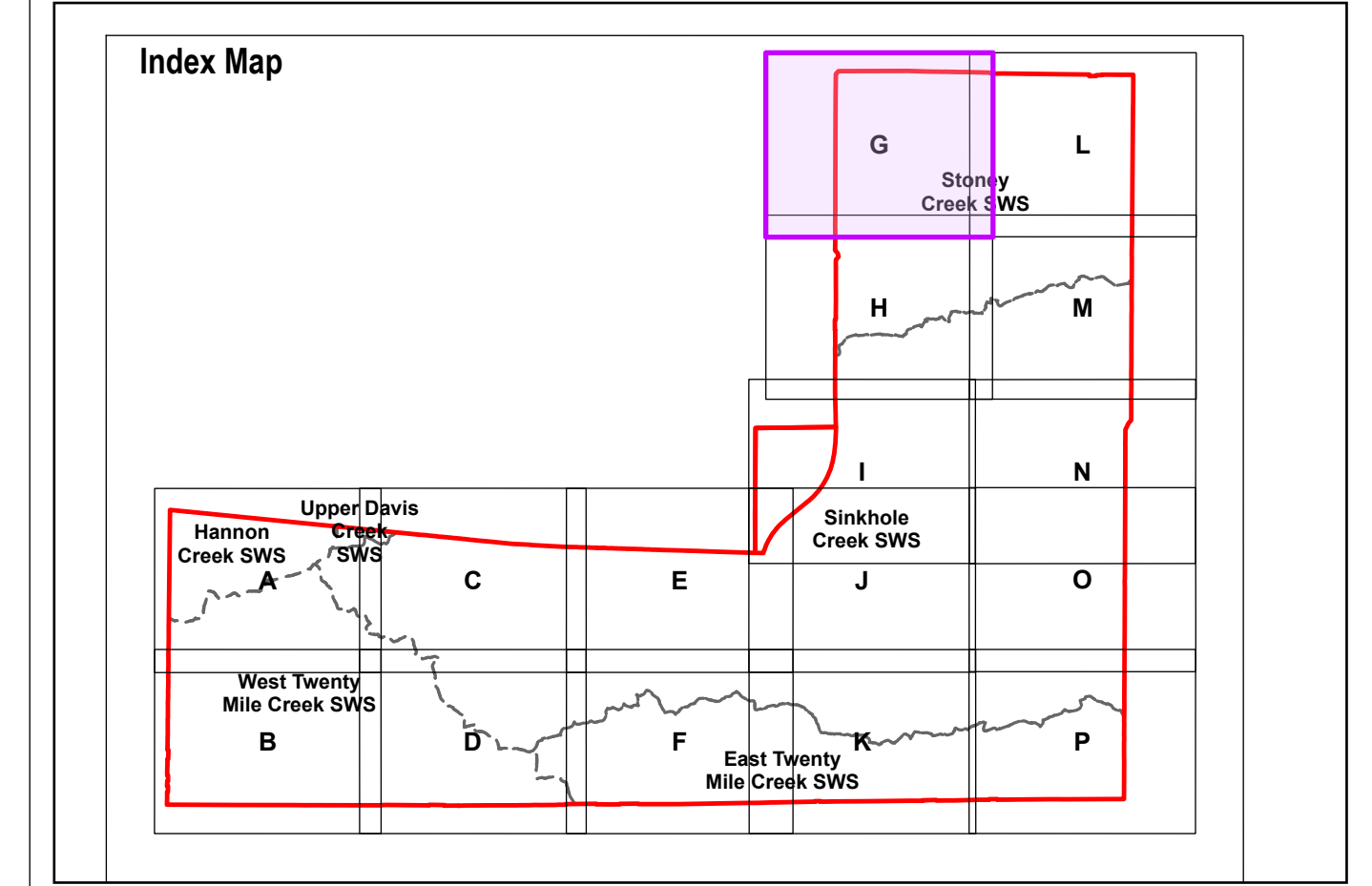
LEGEND

- Study Area
- Additional Lands (Unsurveyed)
- Subject Property
- Subwatershed Boundary
- Ecological Land Classification (ELC)
- Wetland¹
- Winter Wildlife Survey Area
- Drainage Feature²
- Headwater Drainage Feature (HDF)³
- Unevaluated Drainage Feature within Non-Participating Land
- Evaluated Drainage Feature within Participating Land

Winter Wildlife Observation

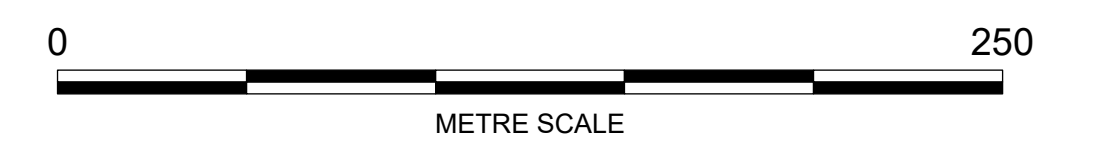
- Coyote (*Canis latrans*)
- Raccoon (*Procyon lotor*)
- Rodent
- Squirrel (*Sciuridae* sp.)

ELC Code	Description
AG	Agricultural
ANTH	Anthropogenic
HR	Hedgerow
Pond	Pond



1 - Verified through 2023-2025 field investigations.
 2 - Watercourses as labelled by Geohub Ontario mapping. Subject to refinement following field studies, data has been refined in specific locations based off field observations and satellite imagery to better reflect current conditions.
 3 - HDF classifications within non participating properties were assessed based on the most conservative adjacent HDF classification.

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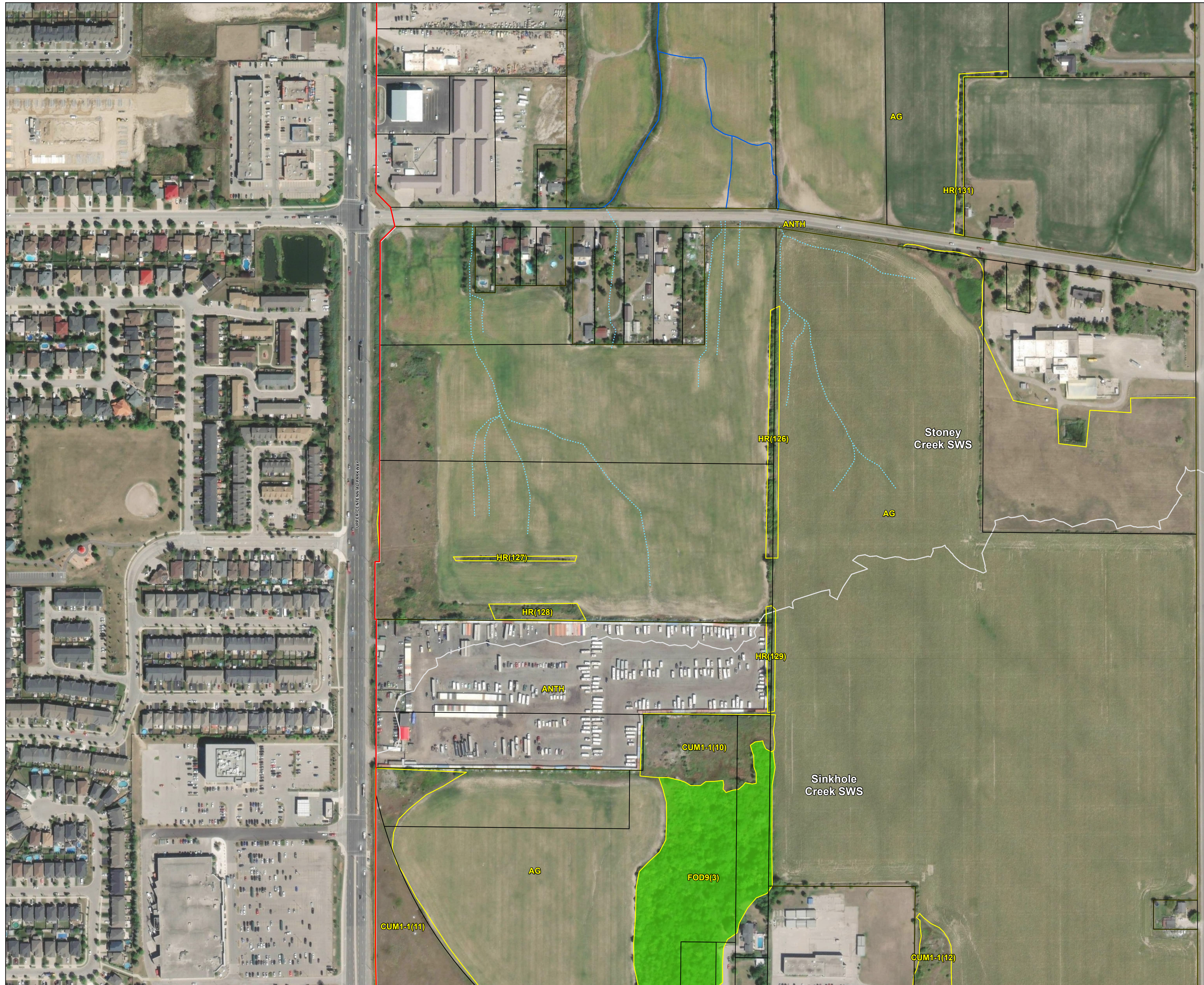


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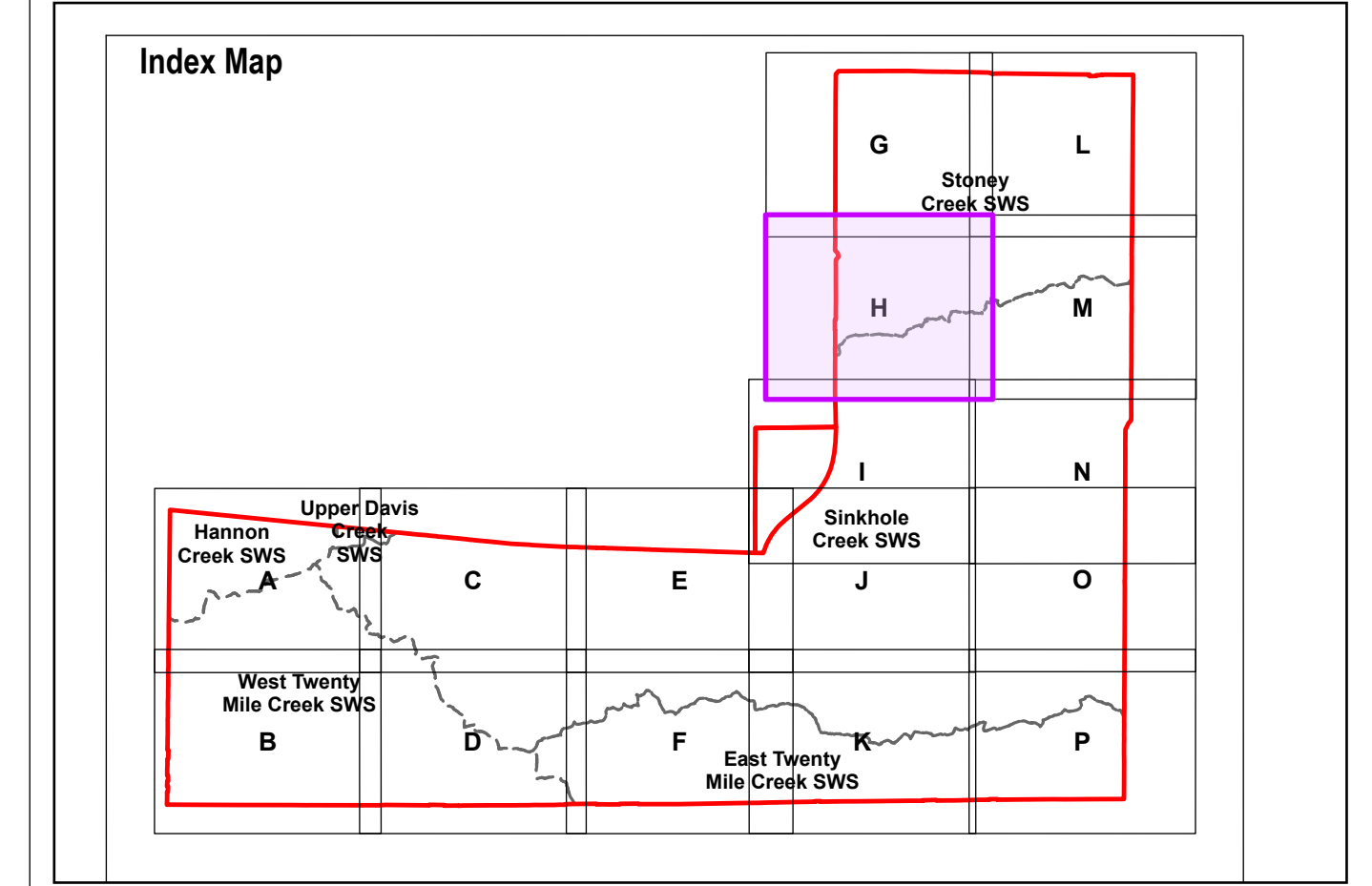
	TITLE Winter Wildlife Observations
	REF. NO. 2306301-3.1.4G-1
	Figure 3.1.4 G



LEGEND

Study Area	Unevaluated Drainage Feature within Non-Participating Land
Additional Lands (Unsurveyed)	Evaluated Drainage Feature within Participating Land
Subject Property	
Subwatershed Boundary	
Ecological Land Classification (ELC)	
Woodland ¹	
Drainage Feature ²	
Headwater Drainage Feature (HDF) ³	

ELC Code	Description
AG	Agricultural
ANTH	Anthropogenic
CUM1-1	Dry-Moist Old Field Mineral Cultural Meadow
FOD9	Fresh - Moist Oak - Maple - Hickory Deciduous Forest
HR	Hedgerow



1 - Verified through 2023-2025 field investigations.
 2 - Watercourses as labelled by Geohub Ontario mapping. Subject to refinement following field studies, data has been refined in specific locations based off field observations and satellite imagery to better reflect current conditions.
 3 - HDF classifications within non participating properties were assessed based on the most conservative adjacent HDF classification.

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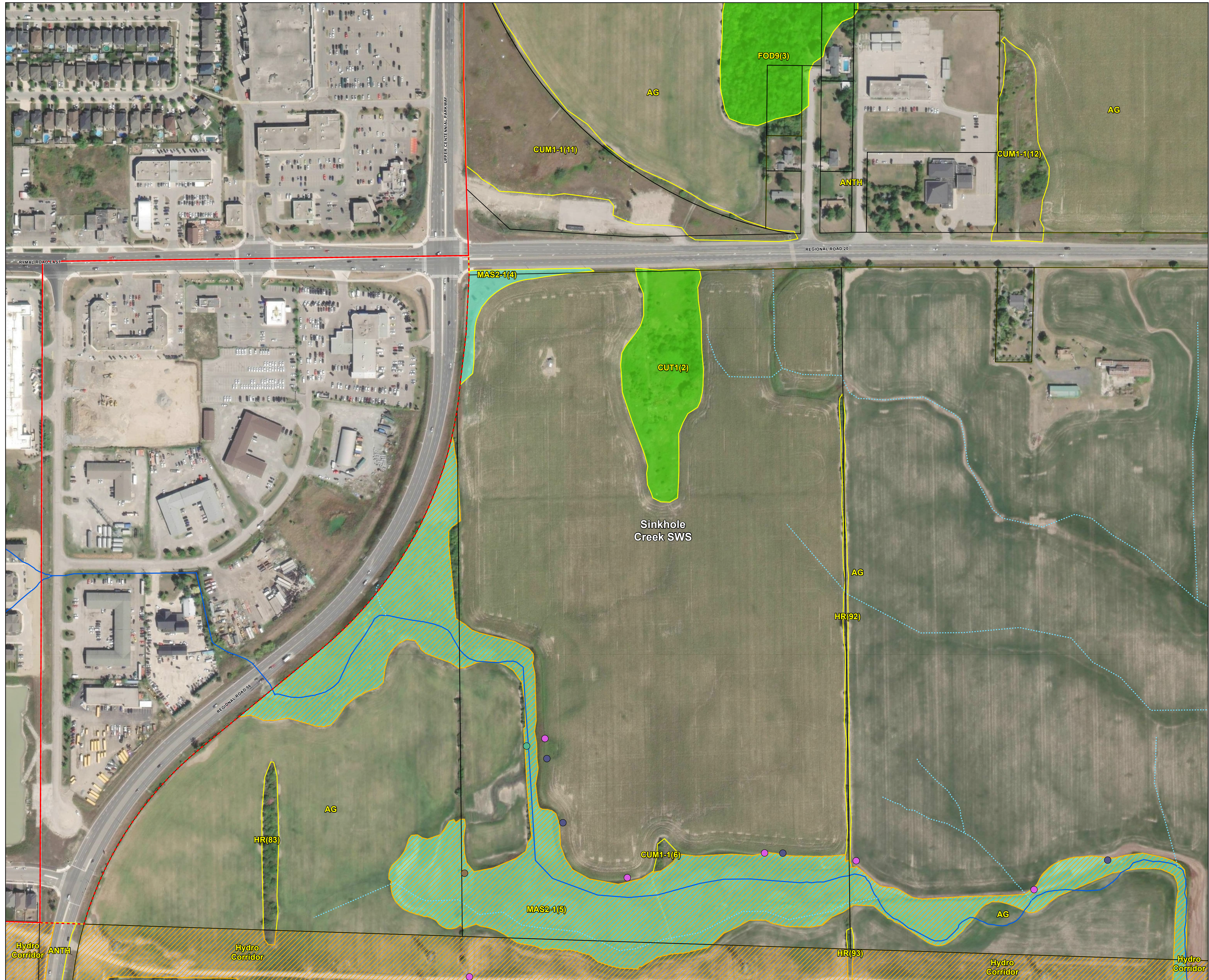
NORTH

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	TITLE Winter Wildlife Observations
	REF. NO. 2306301-3.1.4H-1
	Figure 3.1.4 H



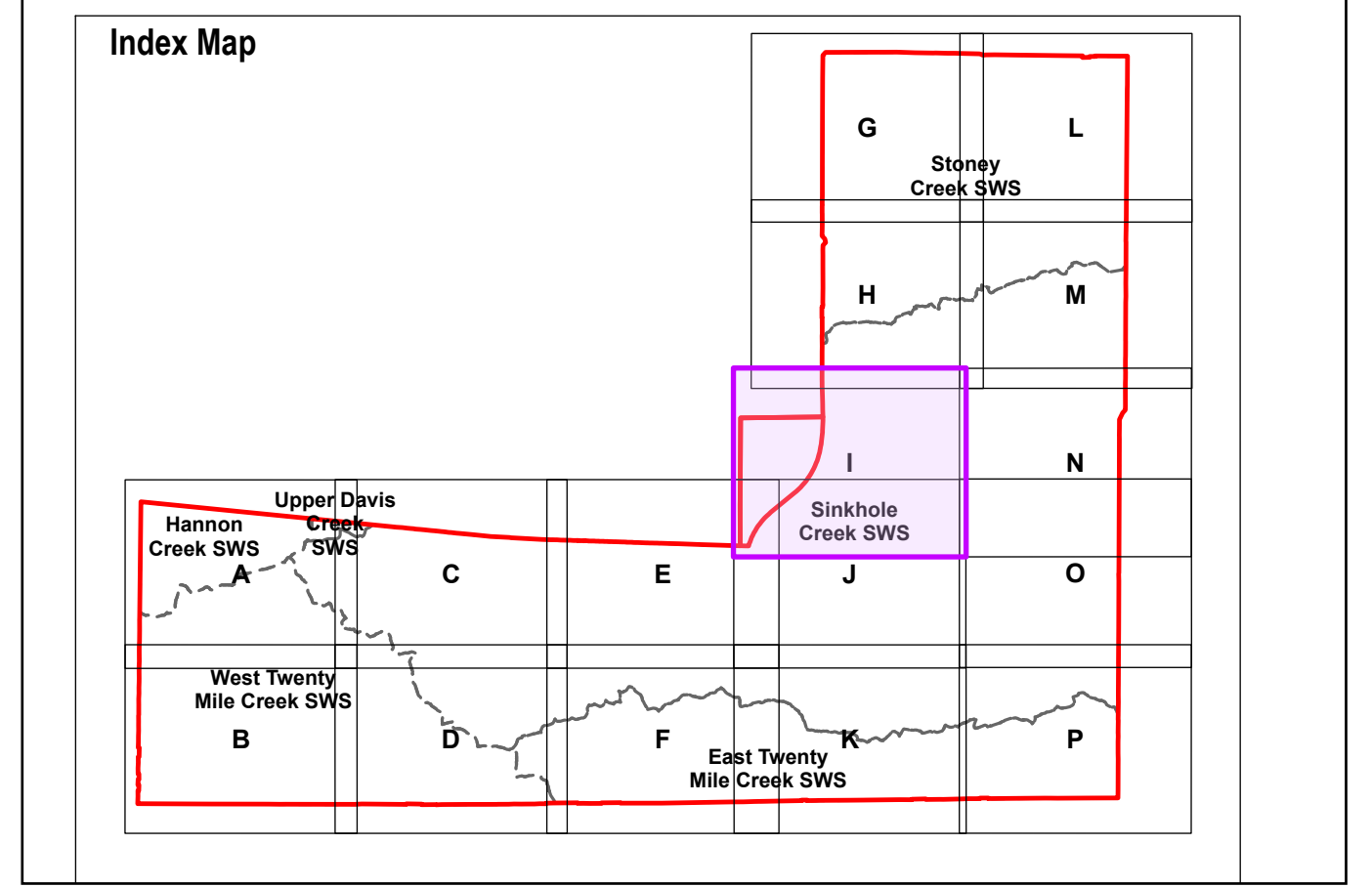
LEGEND

- Study Area
- Additional Lands (Unsurveyed)
- Subject Property
- Subwatershed Boundary
- Ecological Land Classification (ELC)
- Wetland¹
- Woodland¹
- Winter Wildlife Survey Area
- Drainage Feature²
- Headwater Drainage Feature (HDF)³
- Unevaluated Drainage Feature within Non-Participating Land
- Evaluated Drainage Feature within Participating Land

Winter Wildlife Observation

- Coyote (*Canis latrans*)
- Eastern Cottontail (*Sylvilagus floridanus*)
- Mouse (*Mus sp.*)
- Songbird

ELC Code	Description
AG	Agricultural
ANTH	Anthropogenic
CUM1-1	Dry-Moist Old Field Mineral Cultural Meadow
CUT1	Mineral Cultural Woodland
FOD9	Fresh - Moist Oak - Maple - Hickory Deciduous Forest
HR	Hedgerow
MAS2-1	Cattail Mineral Shallow Marsh Type



1 - Verified through 2023-2025 field investigations.
 2 - Watercourses as labelled by Geohub Ontario mapping. Subject to refinement following field studies, data has been refined in specific locations based off field observations and satellite imagery to better reflect current conditions.
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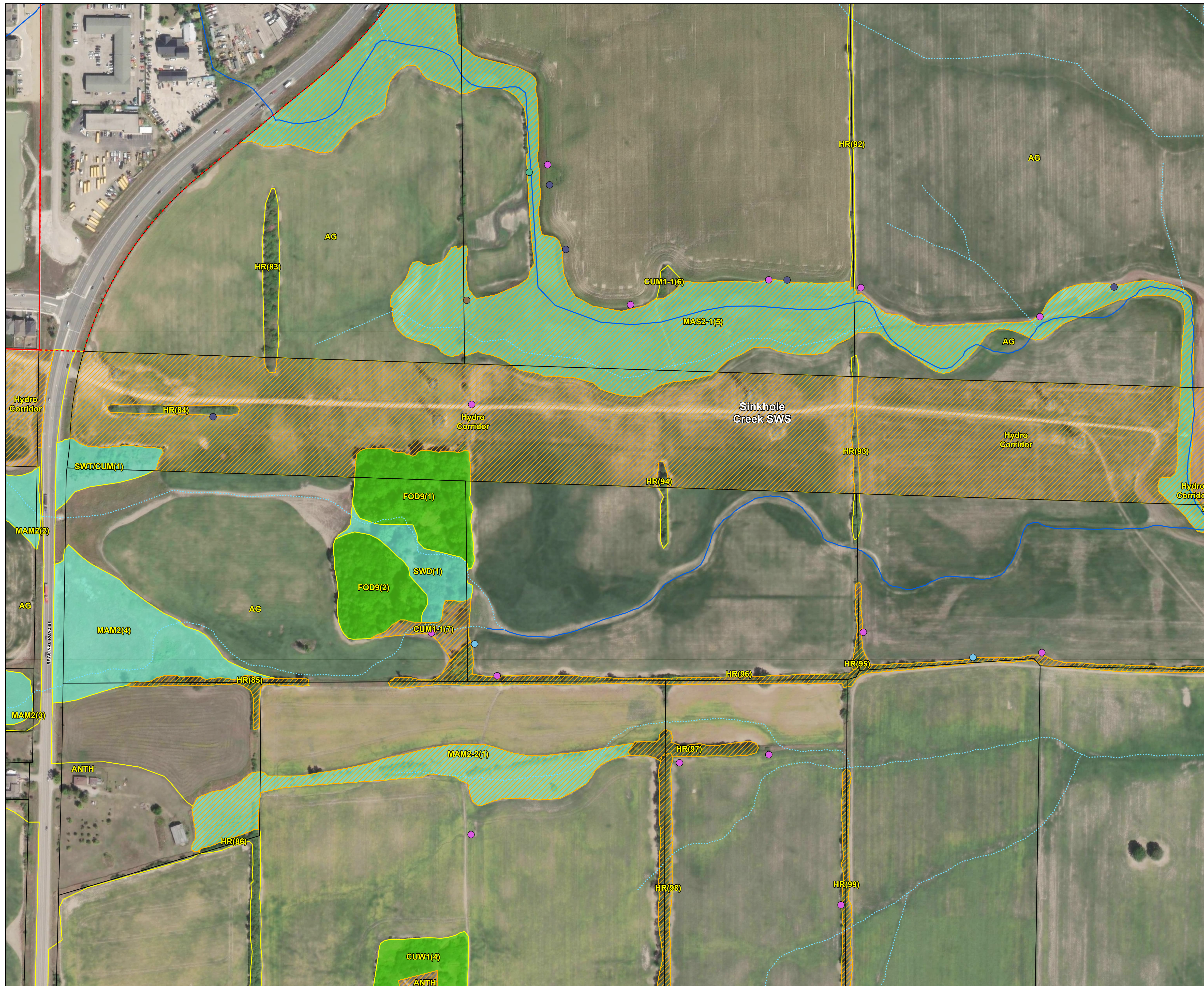
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TITLE
Winter Wildlife Observations

REF. NO.
 2306301-3.1.4I-1

Figure 3.1.4 I



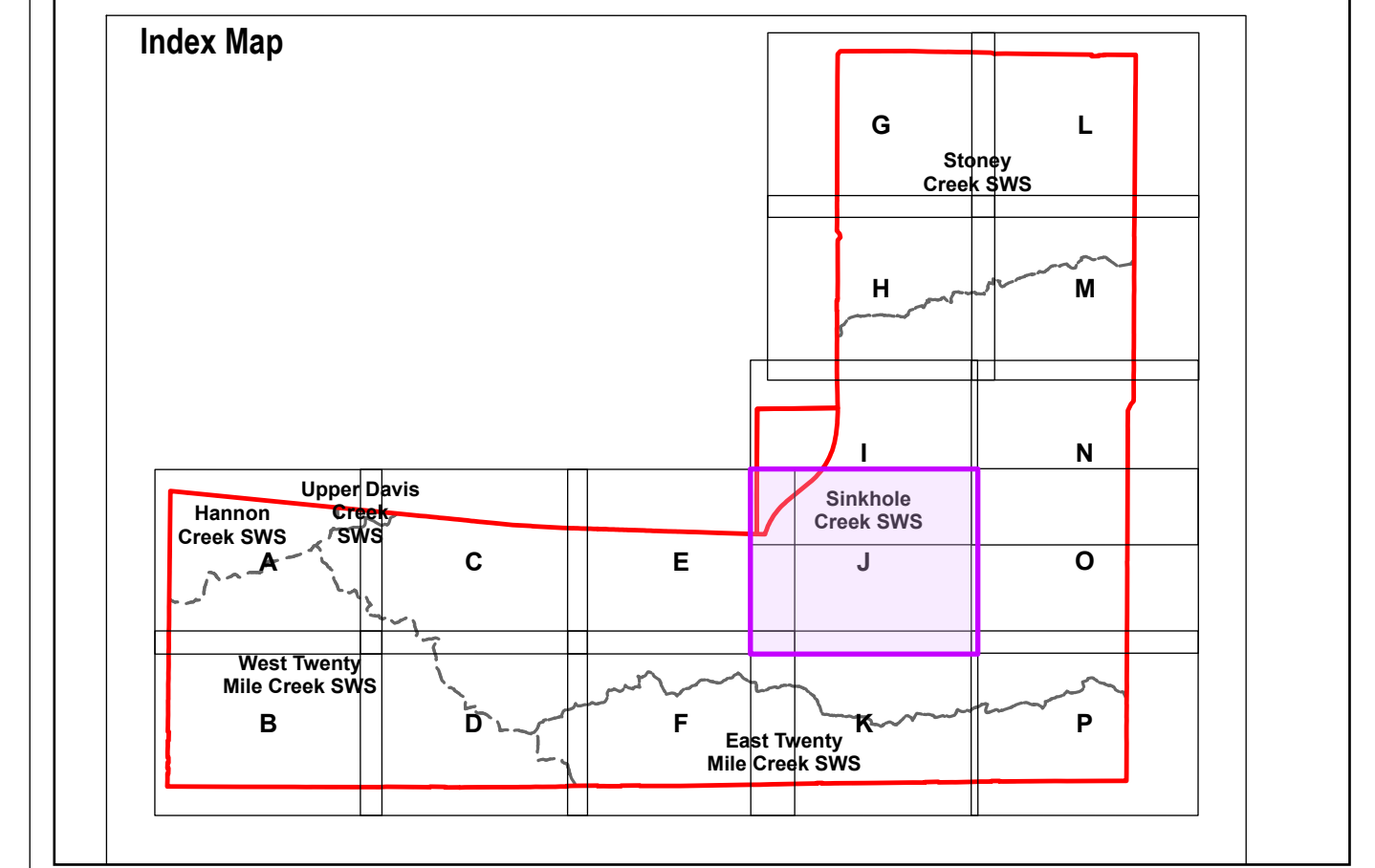
LEGEND

- Study Area
- Additional Lands (Unsurveyed)
- Subject Property
- Subwatershed Boundary
- Ecological Land Classification (ELC)
- Wetland¹
- Woodland¹
- Winter Wildlife Survey Area
- Drainage Feature²
- Headwater Drainage Feature (HDF)³
- Unevaluated Drainage Feature within Non-Participating Land
- Evaluated Drainage Feature within Participating Land

Winter Wildlife Observation

- Coyote (*Canis latrans*)
- Eastern Cottontail (*Sylvilagus floridanus*)
- Mouse (*Mus sp.*)
- Songbird
- Squirrel (*Sciuridae sp.*)

ELC Code	Description
AG	Agricultural
ANTH	Anthropogenic
CUM1-1	Dry-Moist Old Field Mineral Cultural Meadow
CUM1-2	Mineral Cultural Woodland
FOD9	Fresh - Moist Oak - Maple - Hickory Deciduous Forest
HR	Hedgerow
MAM2	Graminoid Mineral Meadow Marsh Ecosite
MAM2-2	Reed-canary Grass Mineral Meadow Marsh Type
MAM2-1	Cattail Mineral Shallow Marsh Type
SWD	Mineral Deciduous Swamp
SWT/CUM	Swamp Thicket / Mineral Cultural Meadow



1 - Verified through 2023-2025 field investigations.
 2 - Watercourses as labelled by Geohub Ontario mapping. Subject to refinement following field studies, data has been refined in specific locations based off field observations and satellite imagery to better reflect current conditions.
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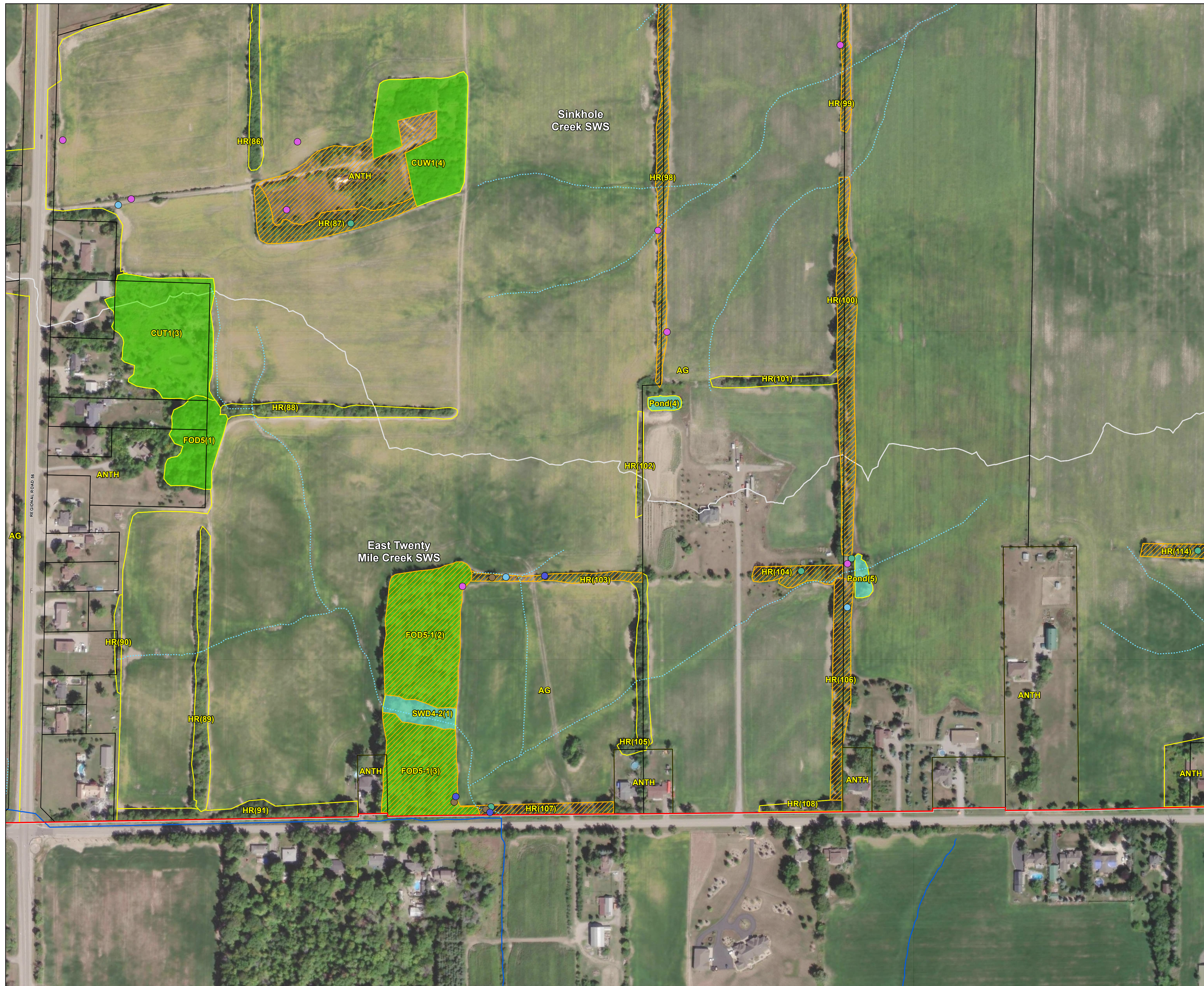
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PROJECT: **Elfrida Subwatershed Plan**

TITLE: **Winter Wildlife Observations**

REF. NO.: 2306301-3.1.4J-1

Figure 3.1.4 J



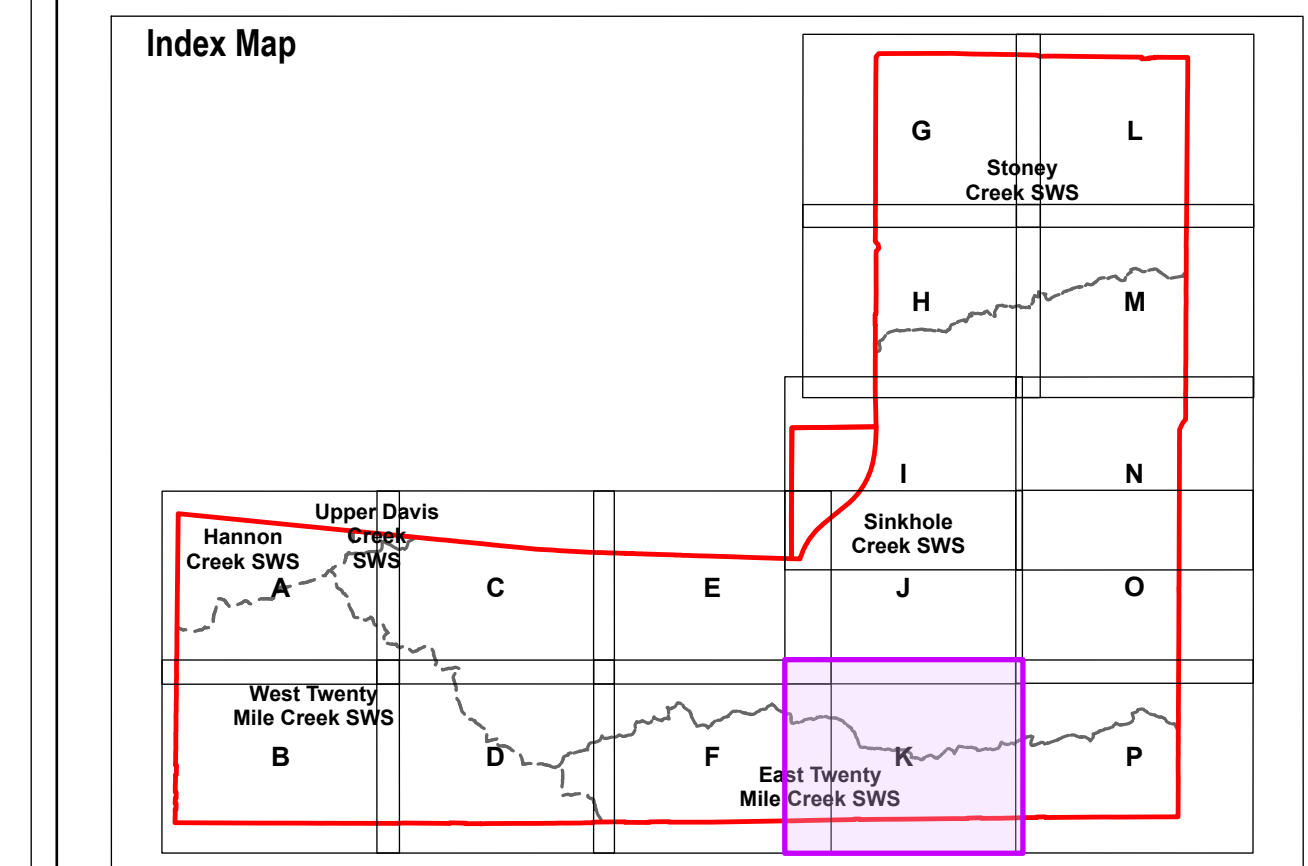
LEGEND

- Study Area
- Additional Lands (Unsurveyed)
- Subject Property
- Subwatershed Boundary
- Ecological Land Classification (ELC)
- Wetland¹
- Woodland¹
- Winter Wildlife Survey Area
- Drainage Feature²
- Headwater Drainage Feature (HDF)³
- Unevaluated Drainage Feature within Non-Participating Land
- Evaluated Drainage Feature within Participating Land

Winter Wildlife Observation

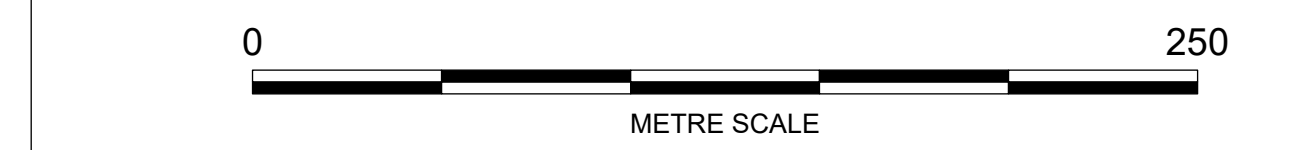
- Coyote (*Canis latrans*)
- Eastern Cottontail (*Sylvilagus floridanus*)
- Rodent
- Songbird
- Squirrel (*Sciuridae sp.*)
- Weasel (*Mustela sp.*)

ELC Code	Description
AG	Agricultural
ANTH	Anthropogenic
CUW1	Mineral Cultural Woodland
FOD5	Dry – Fresh Sugar Maple Deciduous Forest Ecosite
FOD5-1	Dry – Fresh Sugar Maple Deciduous Forest Type
HR	Hedgerow
MAM2-2	Reed-canary Grass Mineral Meadow Marsh Type
Pond	Pond
SWD4-2	White Elm Mineral Deciduous Swamp



1 - Verified through 2023-2025 field investigations.
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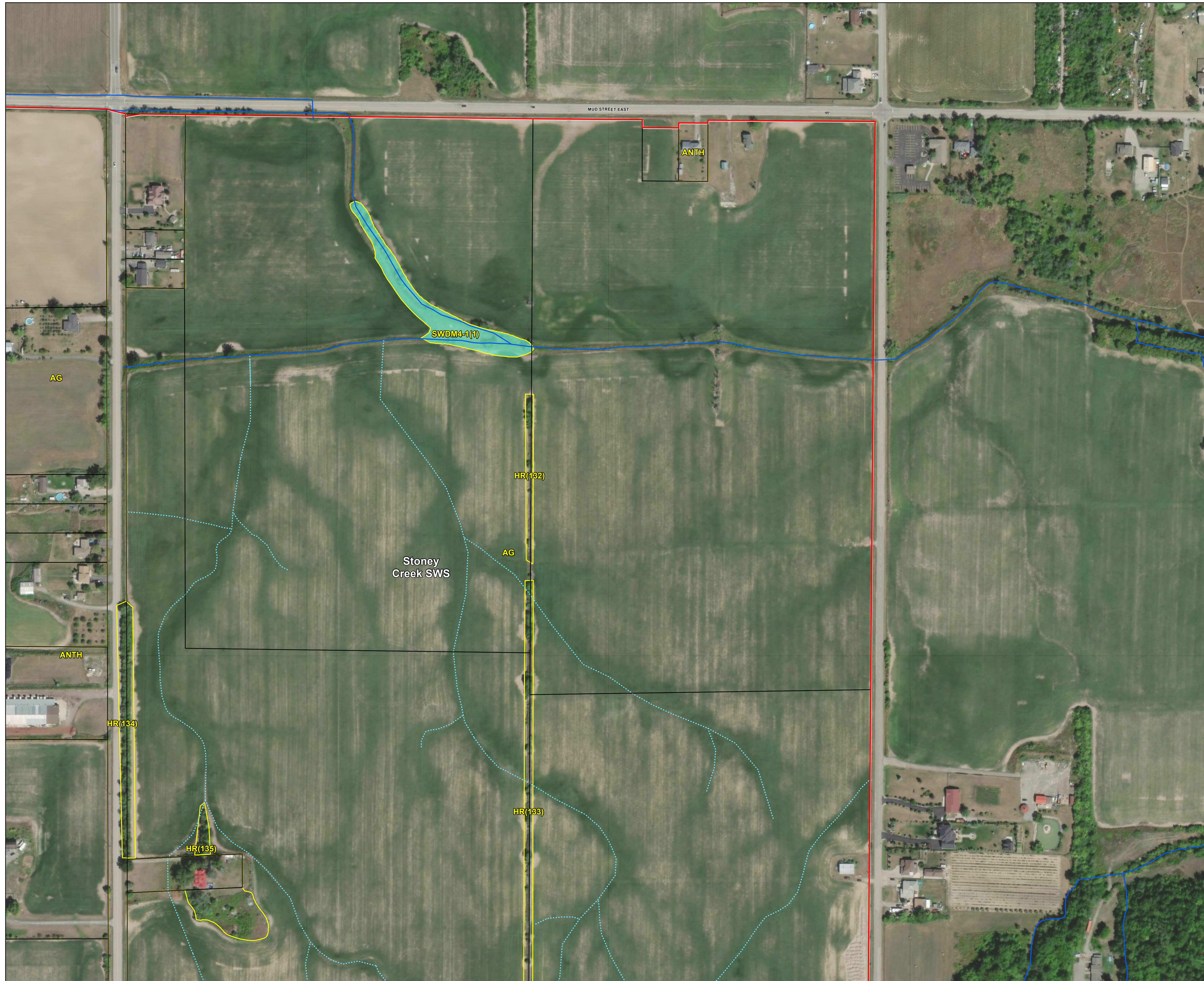
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Winter Wildlife Observations

REF. NO.
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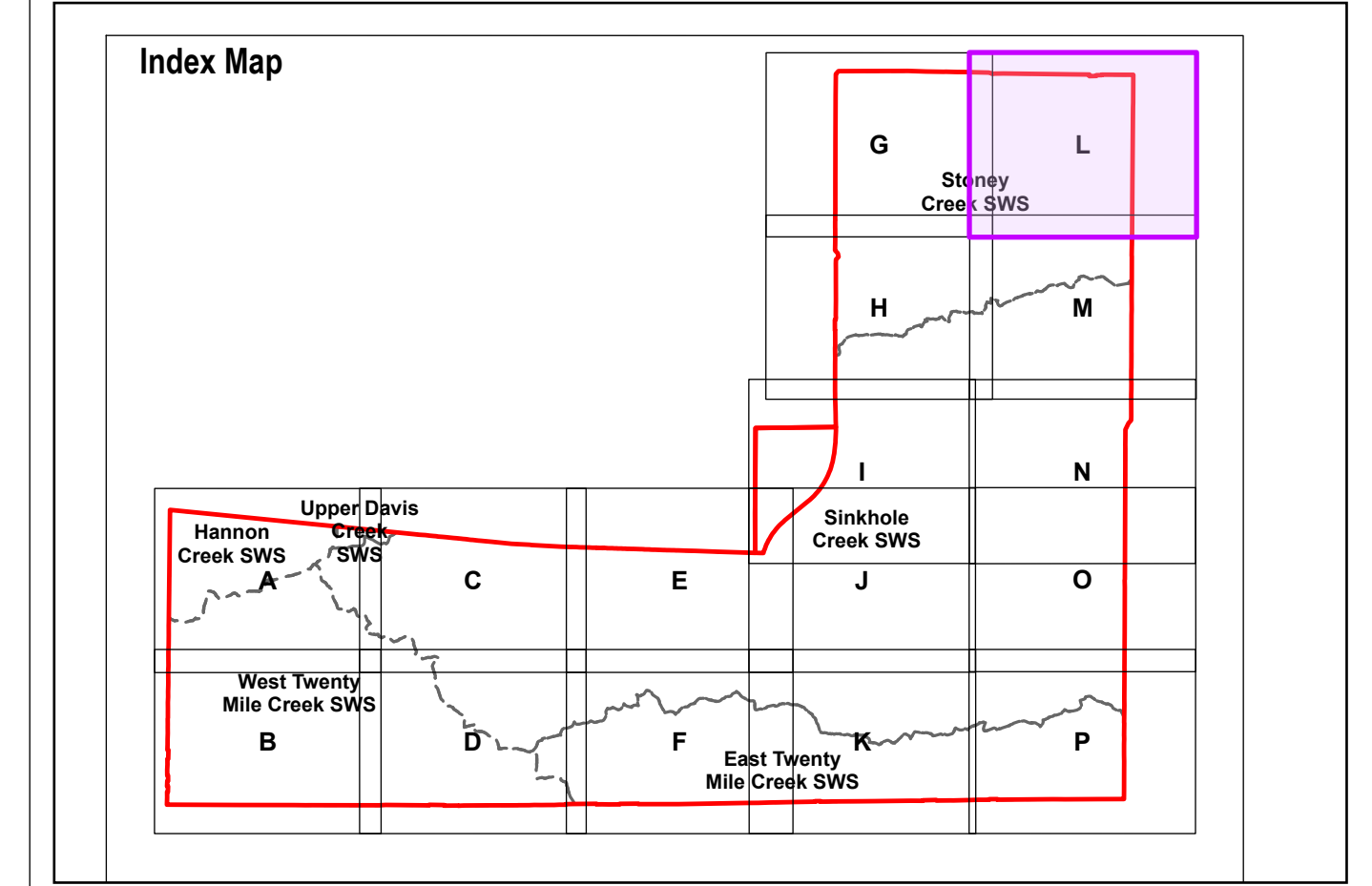
Figure 3.1.4 K



LEGEND

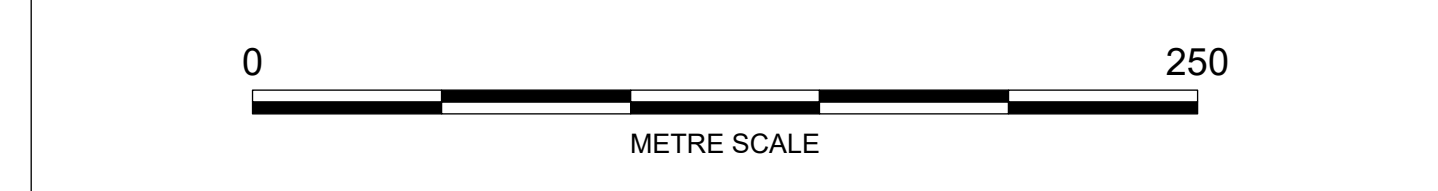
Study Area	Unevaluated Drainage Feature within Non-Participating Land
Additional Lands (Unsurveyed)	Evaluated Drainage Feature within Participating Land
Subject Property	
Subwatershed Boundary	
Ecological Land Classification (ELC)	
Wetland ¹	
Drainage Feature ²	
Headwater Drainage Feature (HDF) ³	

ELC Code	Description
AG	Agricultural
ANTH	Anthropogenic
HR	Hedgerow
SWDM4-1	Willow Mineral Deciduous Swamp Type



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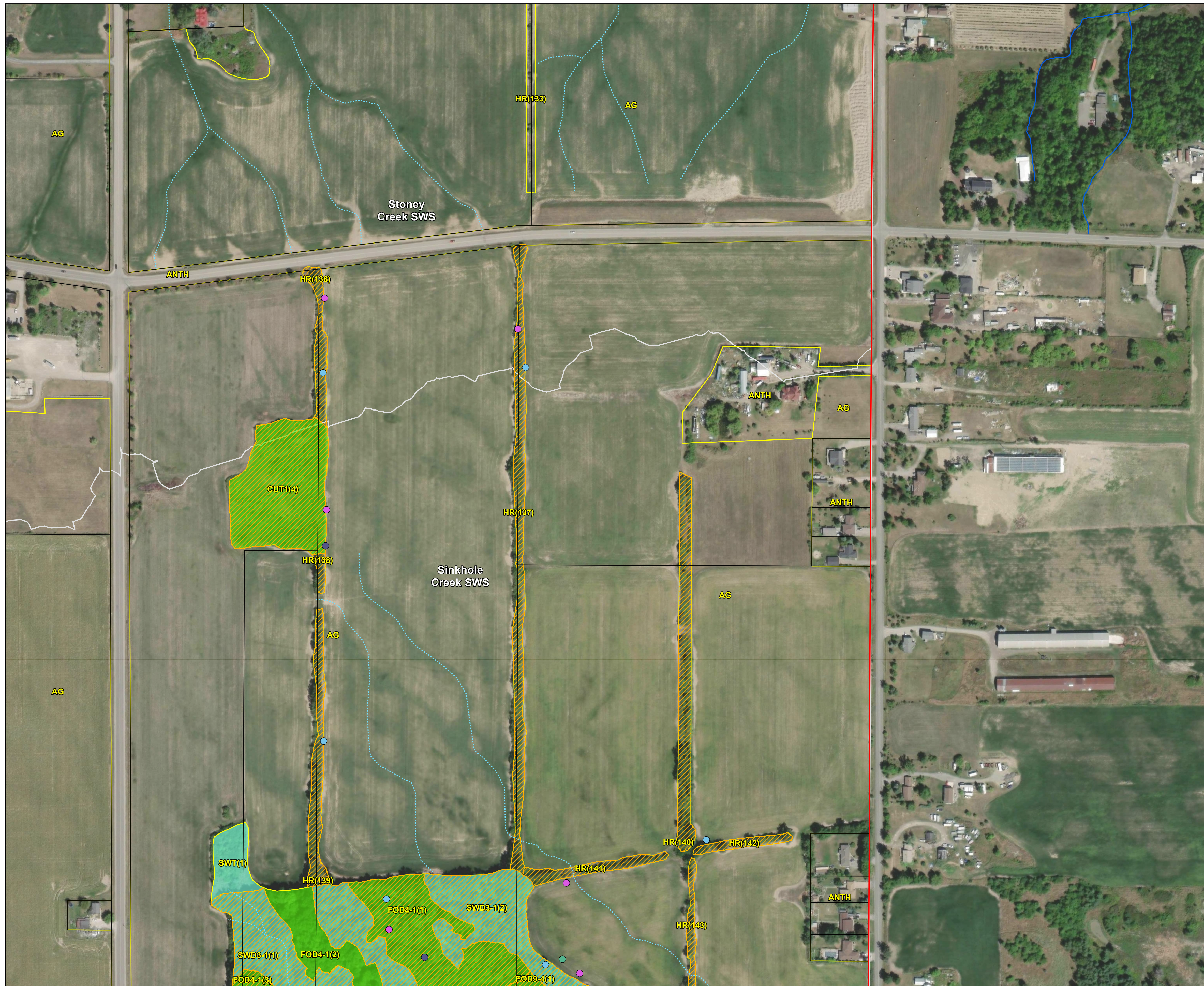
NORTH

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	TITLE Winter Wildlife Observations
	REF. NO. 2306301-3.1.4L-1
	Figure 3.1.4 L



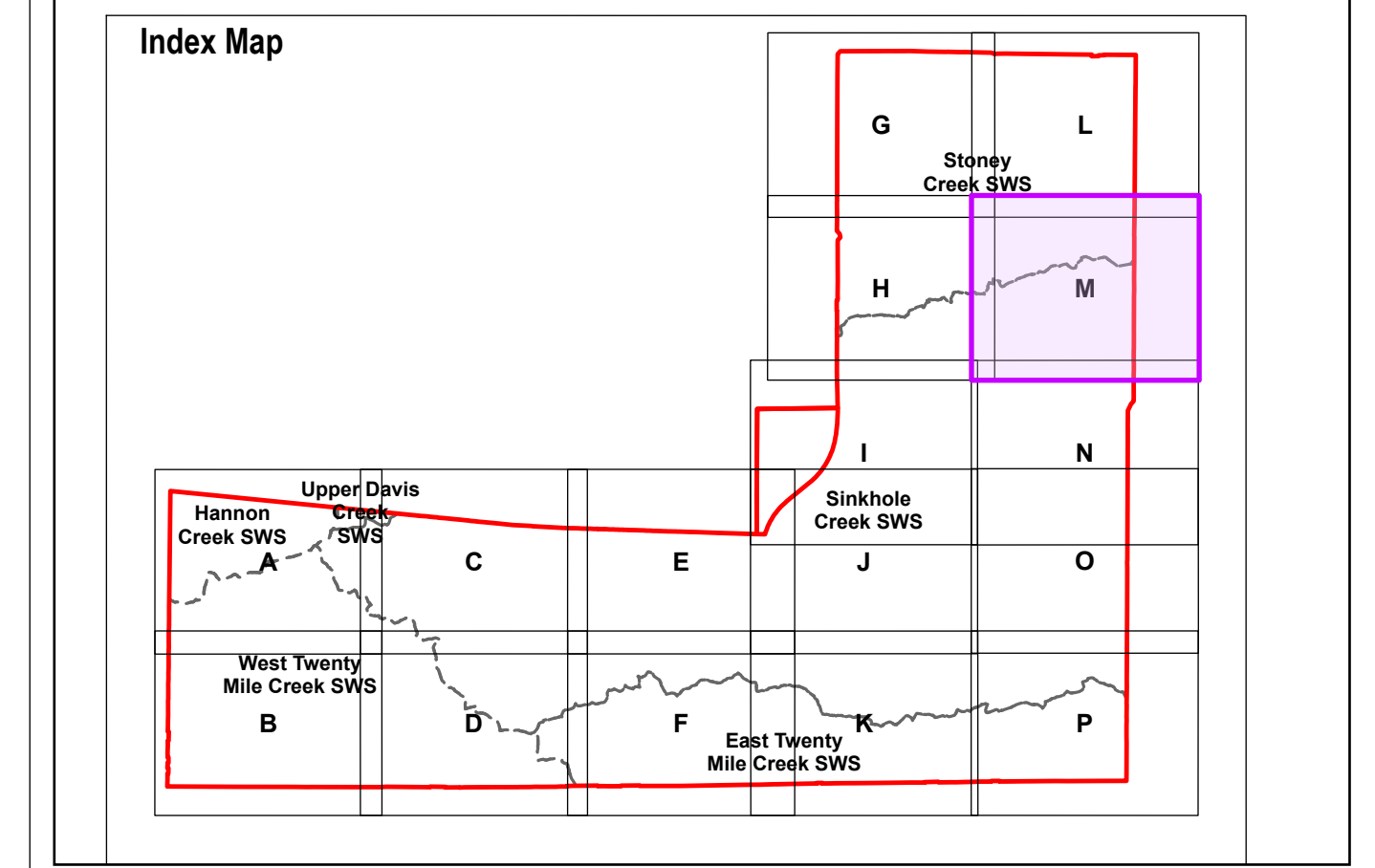
LEGEND

- Study Area
- Additional Lands (Unsurveyed)
- Subject Property
- Subwatershed Boundary
- Ecological Land Classification (ELC)
- Wetland¹
- Woodland¹
- Winter Wildlife Survey Area
- Drainage Feature²
- Headwater Drainage Feature (HDF)³
- Unevaluated Drainage Feature within Non-Participating Land
- Evaluated Drainage Feature within Participating Land

Winter Wildlife Observation

- Coyote (*Canis latrans*)
- Eastern Cottontail (*Sylvilagus floridanus*)
- Mouse (*Mus sp.*)
- Squirrel (*Sciuridae sp.*)

ELC Code	Description
AG	Agricultural
ANTH	Anthropogenic
CUT1	Mineral Cultural Woodland
FOD4-1	Dry – Fresh Beech Deciduous Forest Type
FOD9-4	Fresh – Moist Shagbark Hickory Deciduous Forest Type
HR	Hedgerow
SWD3-1	Red Maple Mineral Deciduous Swamp Type
SWT	Swamp Thicket



1 - Verified through 2023-2025 field investigations.
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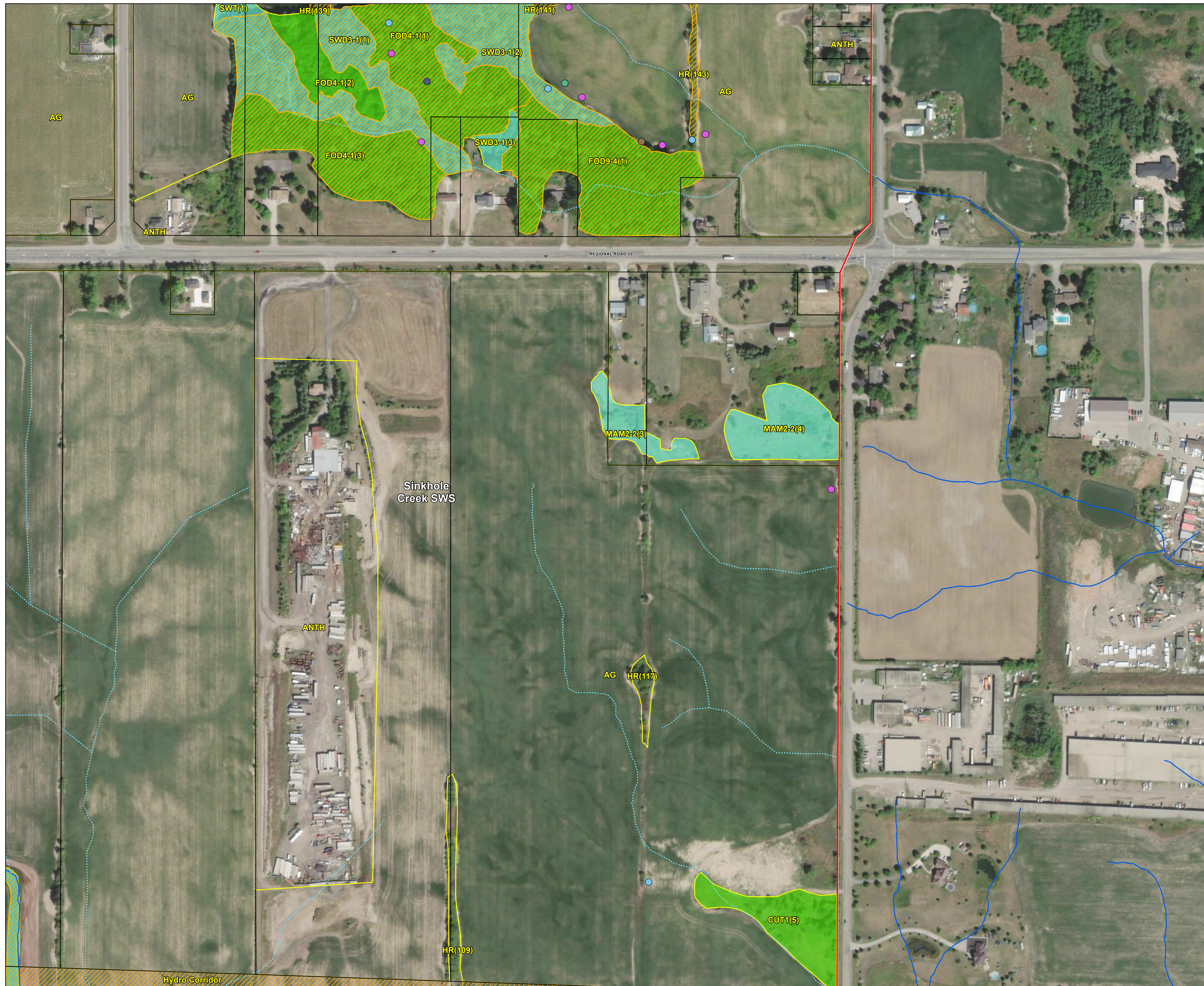
NORTH

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 	TITLE Winter Wildlife Observations
	REF. NO. 2306301-3.1.4M-1
	Figure 3.1.4 M



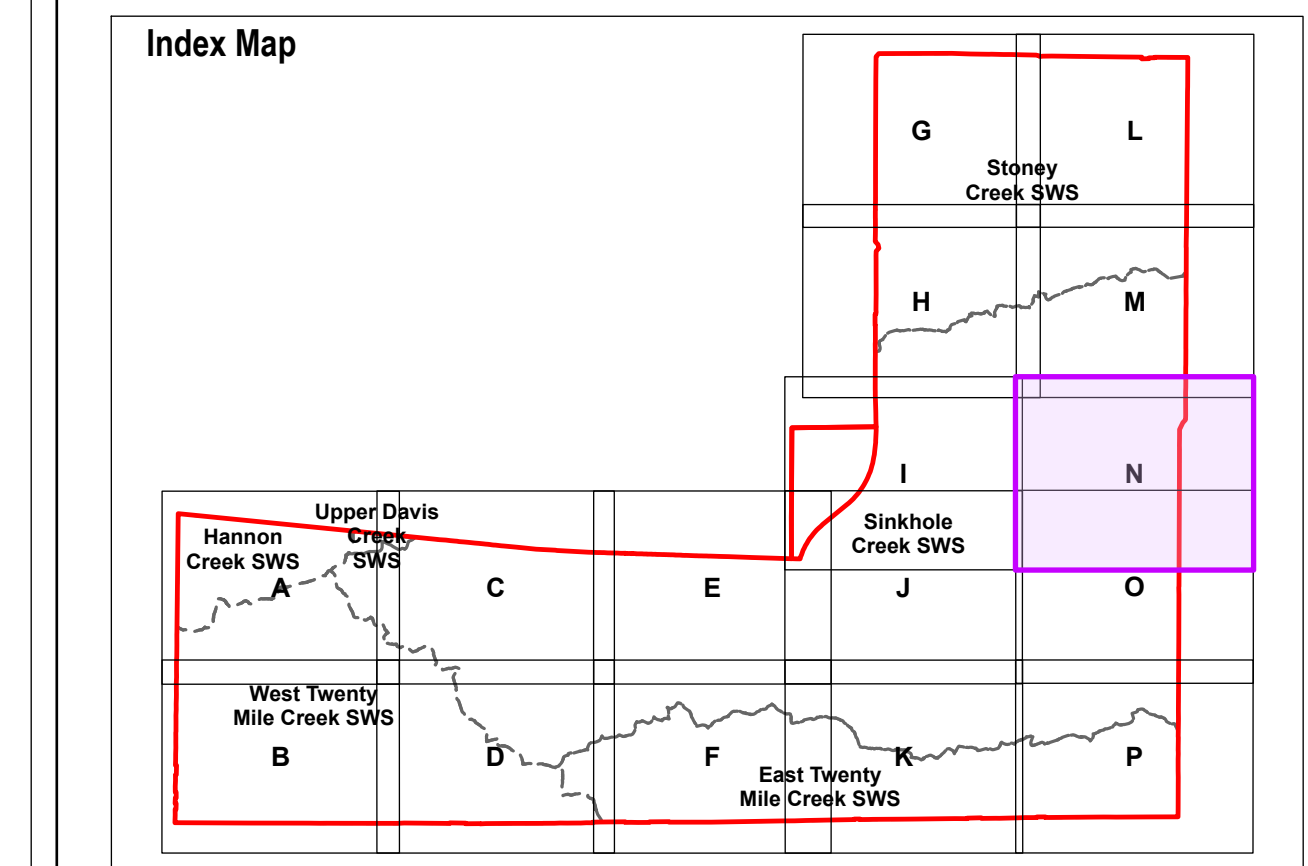
LEGEND

- Study Area
- Additional Lands (Unsurveyed)
- Subject Property
- Subwatershed Boundary
- Ecological Land Classification (ELC)
- Wetland¹
- Woodland¹
- Winter Wildlife Survey Area
- Drainage Feature²
- Headwater Drainage Feature (HDF)³
- Unevaluated Drainage Feature within Non-Participating Land
- Evaluated Drainage Feature within Participating Land

Winter Wildlife Observation

- Coyote (*Canis latrans*)
- Eastern Cottontail (*Sylvilagus floridanus*)
- Mouse (*Mus sp.*)
- Songbird
- Squirrel (*Sciuridae sp.*)

ELC Code	Description
AG	Agricultural
ANTH	Anthropogenic
CUT1	Mineral Cultural Woodland
FOD4-1	Dry – Fresh Beech Deciduous Forest Type
FOD9-4	Fresh – Moist Shagbark Hickory Deciduous Forest Type
HR	Hedgerow
MAM2-2	Reed-canary Grass Mineral Meadow Marsh Type
MAS2-1	Cattail Mineral Shallow Marsh Type
SWD3-1	Red Maple Mineral Deciduous Swamp Type
SWT	Swamp Thicket



1 - Verified through 2023-2025 field investigations.
 2 - Watercourses as labelled by Geohub Ontario mapping. Subject to refinement following field studies, data has been refined in specific locations based off field observations and satellite imagery to better reflect current conditions.
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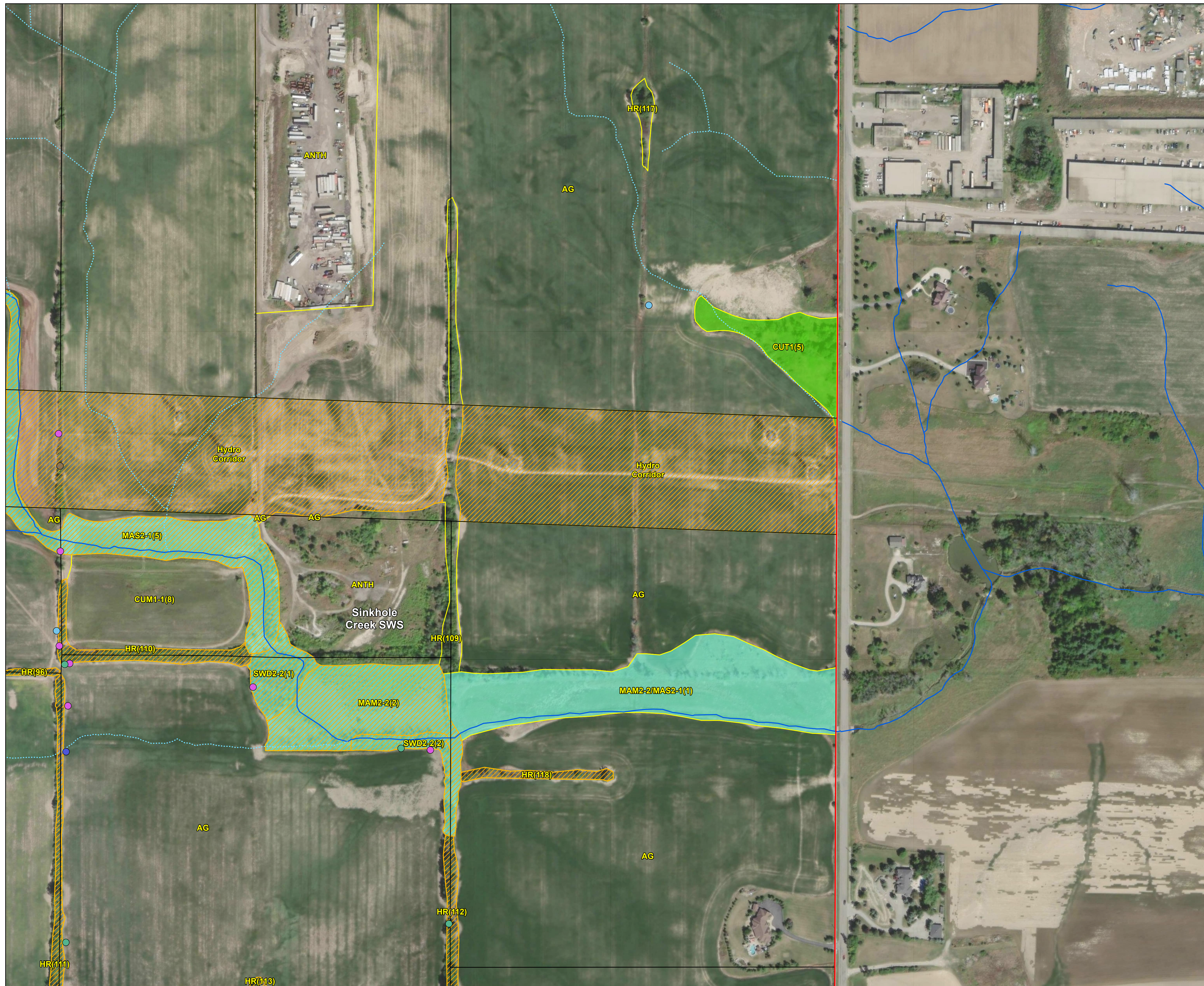
NORTH

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 	TITLE Winter Wildlife Observations
	REF. NO. 2306301-3.1.4N-1
	Figure 3.1.4 N



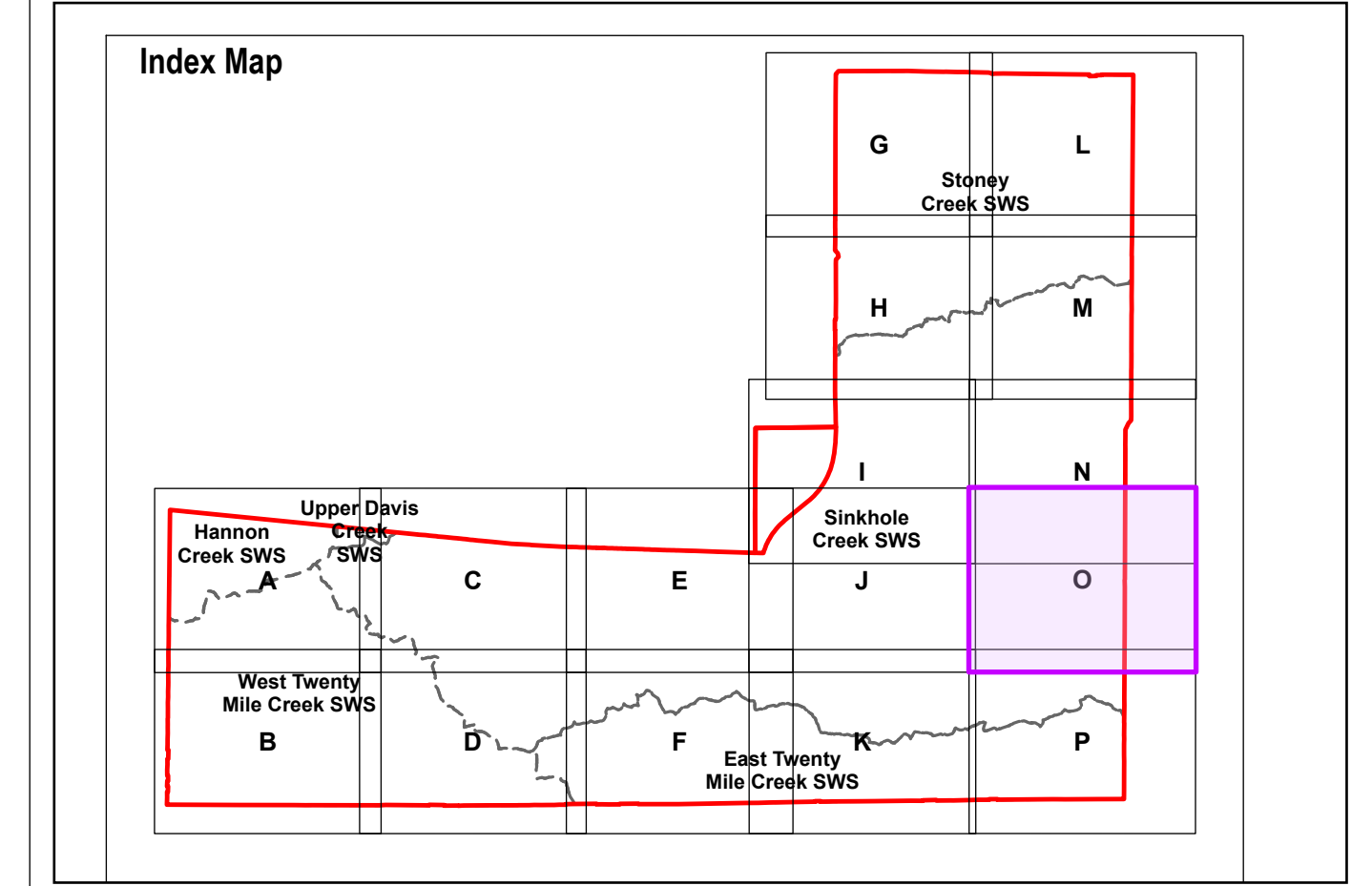
LEGEND

- Study Area
- Additional Lands (Unsurveyed)
- Subject Property
- Subwatershed Boundary
- Ecological Land Classification (ELC)
- Wetland¹
- Woodland¹
- Winter Wildlife Survey Area
- Drainage Feature²
- Headwater Drainage Feature (HDF)³
- Unevaluated Drainage Feature within Non-Participating Land
- Evaluated Drainage Feature within Participating Land

Winter Wildlife Observation

- Coyote (*Canis latrans*)
- Eastern Cottontail (*Sylvilagus floridanus*)
- Rodent
- Songbird
- Squirrel (*Sciuridae* sp.)

ELC Code	Description
AG	Agricultural
ANTH	Anthropogenic
CUM1-1	Dry-Moist Old Field Mineral Cultural Meadow
CUT1	Mineral Cultural Woodland
HR	Hedgerow
MAM2-2	Reed-canary Grass Mineral Meadow Marsh Type
MAM2-2/MAS2	Reed-canary Grass Graminoid Mineral Meadow Marsh Type / Graminoid Mineral Shallow Marsh
MAS2-1	Cattail Mineral Shallow Marsh Type
SWD2-2	Green Ash Mineral Deciduous Swamp Type



1 - Verified through 2023-2025 field investigations.
 2 - Watercourses as labelled by Geohub Ontario mapping. Subject to refinement following field studies, data has been refined in specific locations based off field observations and satellite imagery to better reflect current conditions.
 3 - HDF classifications within non participating properties were assessed based on the most conservative adjacent HDF classification.

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 Scale: 1:2,000
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Drawn: SM
 Checked: DJ
 Date: Jan 26, 2026

NORTH

Source Notes:
 Imagery (2022) provided by Bramalea region map service. Contains information licensed under the Open Government Licence – Ontario.

CLIENT
 Elfrida Community Builders Group Inc.

PROJECT
 Elfrida Subwatershed Plan

	TITLE Winter Wildlife Observations
	REF. NO. 2306301-3.1.40-1
	Figure 3.1.4 O



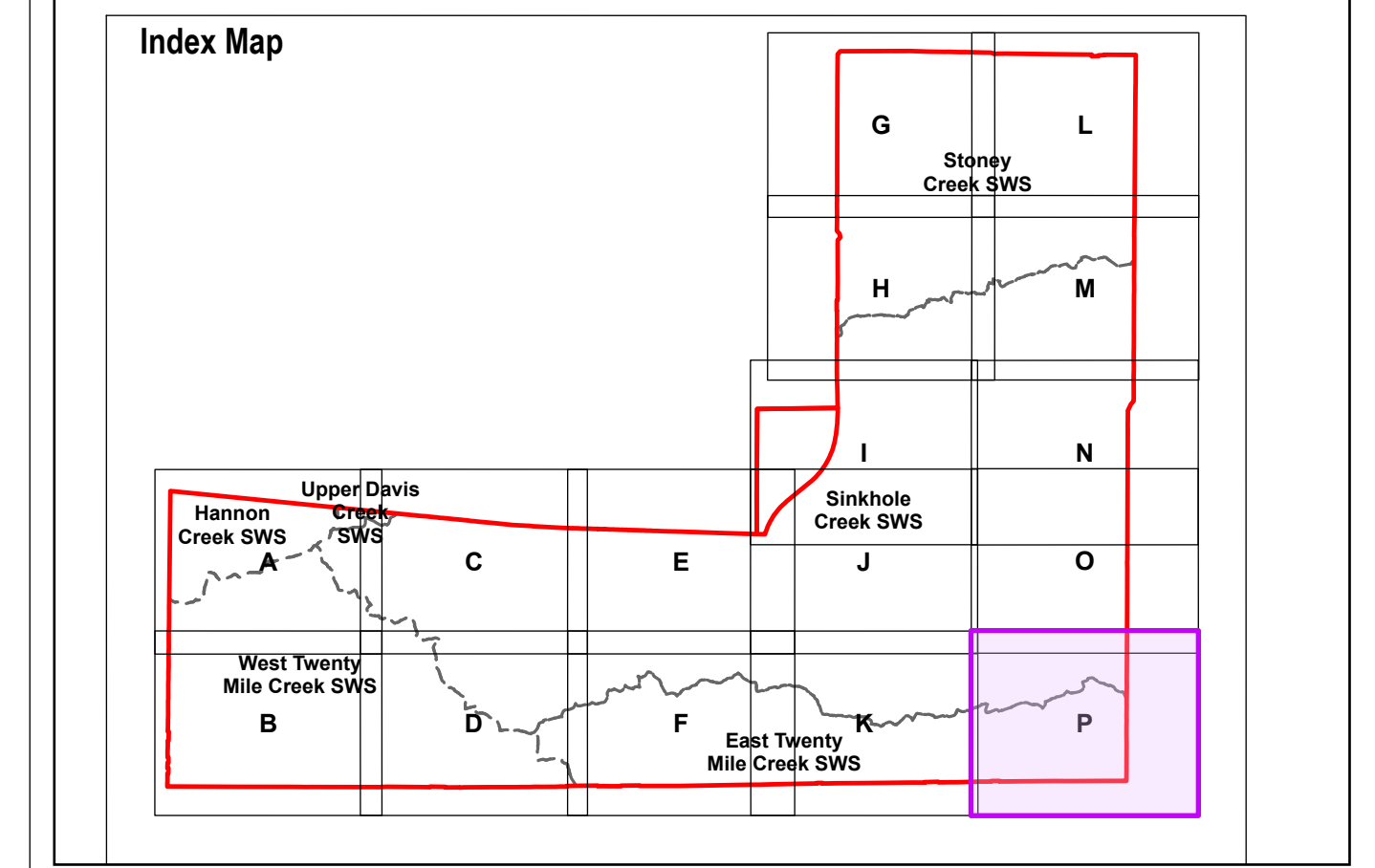
LEGEND

- Study Area
- Additional Lands (Unsurveyed)
- Subject Property
- Subwatershed Boundary
- Ecological Land Classification (ELC)
- Wetland¹
- Woodland¹
- Winter Wildlife Survey Area
- Drainage Feature²
- Headwater Drainage Feature (HDF)³
- Unevaluated Drainage Feature within Non-Participating Land
- Evaluated Drainage Feature within Participating Land

Winter Wildlife Observation

- Coyote (*Canis latrans*)
- Eastern Cottontail (*Sylvilagus floridanus*)
- Fox (*Vulpes* sp.)
- Mole (*Talpidae* sp.)
- Mouse (*Mus* sp.)
- Raptor
- Rodent
- Songbird
- Squirrel (*Sciuridae* sp.)
- Weasel (*Mustela* sp.)
- Wild Turkey (*Meleagris gallopavo*)

ELC Code	Description
AG	Agricultural
ANTH	Anthropogenic
CUM1-1	Dry-Moist Old Field Mineral Cultural Meadow
CUT1 / MAM2-2	Mineral Cultural Woodland / Reed-canary Grass Mineral Meadow Marsh Type
FOD5-2	Fresh - Moist Oak - Maple - Hickory Deciduous Forest
HR	Hedgerow
SWD3-2	Silver Maple Mineral Deciduous Swamp Type



1 - Verified through 2023-2025 field investigations.
 2 - Watercourses as labelled by Geohub Ontario mapping. Subject to refinement following field studies, data has been refined in specific locations based off field observations and satellite imagery to better reflect current conditions.
 3 - HDF classifications within non participating properties were assessed based on the most conservative adjacent HDF classification.

NOTE: The information contained within this figure is preliminary and will be refined during further study. Features delineated within non-participating properties will need to be verified at a later date, refer to Fig 1.4.1 for list of non-participating properties.



North American Datum 1983
 Universal Transverse Mercator Projection Zone 17
 Scale: 1:2,000
 Page Size: ANSI D (22 x 34 inches)

Drawn: SM
 Checked: DJ
 Date: Jan 26, 2026

NORTH

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CLIENT
 Elfrida Community Builders Group Inc.

PROJECT
 Elfrida Subwatershed Plan

TITLE
 Winter Wildlife Observations

REF. NO.
 2306301-3.1.4P-1

Figure 3.1.4 P

APPENDIX C5

Breeding Bird Table

Breeding Birds of Elfrida Lands

Common Name	Scientific Name	Status					Number of Birds Observed		
		National Species at Risk COSEWIC ^a	Species at Risk in Ontario Listing ^a	Provincial breeding season SRANK ^b	Area-sensitive (OMNR) ^c	Hamilton ^d	Cultural (Agri, hedgerow, upland meadow, residential)	Forest	Wetland
Great Blue Heron	<i>Ardea herodias</i>			S4		N, U	13X	1X	
Canada Goose	<i>Branta canadensis</i>			S5		N, C	39X		1
Mallard	<i>Anas platyrhynchos</i>			S5		N, C	15		11
Turkey Vulture	<i>Cathartes aura</i>			S5		N, C	9X	1X	
Cooper's Hawk	<i>Accipiter cooperi</i>			S4	A	N, U	1		
Red-tailed Hawk	<i>Buteo jamaicensis</i>			S5		N, C	11	1	1
Merlin	<i>Falco columbarius</i>			S5		*	1		
Peregrine Falcon	<i>Falco peregrinus</i>		SC	S3		N, R	1X		
Wild Turkey	<i>Meleagris gallopavo</i>			S5		E	1		
Ruffed Grouse	<i>Bonasa umbellus</i>			S4		N, R	1		
Virginia Rail	<i>Rallus limicola</i>			S4		N, U			2
Killdeer	<i>Charadrius vociferus</i>			S5		N, C	94	3	8
Spotted Sandpiper	<i>Actitis macularia</i>			S5		N, C	20		7
American Woodcock	<i>Scolopax minor</i>			S4		N, C	1		
Ring-billed Gull	<i>Larus delawarensis</i>			S5		N, C	88X		11X
Herring Gull	<i>Larus argentatus</i>			S5		N, U	6X	1X	1X
Rock Pigeon	<i>Columba livia</i>			SE		E	23		5
Mourning Dove	<i>Zenaida macroura</i>			S5		N, C	271	2	7
Red-bellied Woodpecker	<i>Melanerpes carolinus</i>			S4		N, C	5	6	
Downy Woodpecker	<i>Dryobates pubescens</i>			S5		N, C	4		
Hairy Woodpecker	<i>Dryobates villosus</i>			S5	A	N, C		2	
Northern Flicker	<i>Colaptes auratus</i>			S4		N, C	26	6	1
Eastern Wood-Pewee	<i>Contopus virens</i>	SC	SC	S4		N, C	2	7	
Alder Flycatcher	<i>Empidonax alnorum</i>			S5		N, U	1		
Willow Flycatcher	<i>Empidonax traillii</i>			S5		N, C	17		5
Least Flycatcher	<i>Empidonax minimus</i>			S4	A	N, U			1
Eastern Phoebe	<i>Sayornis phoebe</i>			S5		N, U	7		1
Great Crested Flycatcher	<i>Myiarchus crinitus</i>			S4		N, C	7	2	
Eastern Kingbird	<i>Tyrannus tyrannus</i>			S4		N, C	11		7
Horned Lark	<i>Eremophila alpestris</i>			S5		N, C	104		9
Tree Swallow	<i>Tachycineta bicolor</i>			S4		N, C	10		
N. Rough-winged Swallow	<i>Stelgidopteryx serripennis</i>			S4		N, U	1X		
Cliff Swallow	<i>Petrochelidon pyrrhonota</i>			S4		N, U	1X		
Barn Swallow	<i>Hirundo rustica</i>	SC	SC	S4		N, C	4, 104F		1X
Blue Jay	<i>Cyanocitta cristata</i>			S5		N, C	93	9	5
American Crow	<i>Corvus brachyrhynchos</i>			S5		N, C	28	1	1
Common Raven	<i>Corvus corax</i>			S5		*	51	6	3
Black-capped Chickadee	<i>Poecile atricapillus</i>			S5		N, C	38	4	
White-breasted Nuthatch	<i>Sitta carolinensis</i>			S5	A	N, C	2		
Brown Creeper	<i>Certhia americana</i>			S5	A	N, U		4	
House Wren	<i>Troglodytes aedon</i>			S5		N, C	44	2	1
Eastern Bluebird	<i>Sialia sialis</i>			S5		N, U	2		
American Robin	<i>Turdus migratorius</i>			S5		N, C	187	10	6
Gray Catbird	<i>Dumetella carolinensis</i>			S4		N, C	28	4	2
Brown Thrasher	<i>Toxostoma rufum</i>			S4		N, U	2	0	
Cedar Waxwing	<i>Bombycilla cedrorum</i>			S5		N, C	58	1	1
European Starling	<i>Sturnus vulgaris</i>			SE		E	167		11
Warbling Vireo	<i>Vireo gilvus</i>			S5		N, C	9		2
Red-eyed Vireo	<i>Vireo olivaceus</i>			S5		N, C	6	4	2
Yellow Warbler	<i>Setophaga petechia</i>			S5		N, C	23		9
Chestnut-sided Warbler	<i>Setophaga pensylvanica</i>			S5		N, U	1		1
American Redstart	<i>Setophaga ruticilla</i>			S5	A	N, C			1
Common Yellowthroat	<i>Geothlypis trichas</i>			S5		N, C			5
Northern Cardinal	<i>Cardinalis cardinalis</i>			S5		N, C	110	7	8
Rose-breasted Grosbeak	<i>Pheucticus ludovicianus</i>			S4		N, C		1	
Indigo Bunting	<i>Passerina cyanea</i>			S4		N, C	12	6	
Chipping Sparrow	<i>Spizella passerina</i>			S5		N, C	36	4	2
Field Sparrow	<i>Spizella pusilla</i>			S4		N, C	2		
Vesper Sparrow	<i>Poocetes gramineus</i>			S4		N, U	52	2	3
Savannah Sparrow	<i>Passerculus sandwichensis</i>			S4	A	N, C	96		10

Common Name	Scientific Name	Status					Number of Birds Observed		
		National Species at Risk COSEWIC ^a	Species at Risk in Ontario Listing ^a	Provincial breeding season SRANK ^b	Area-sensitive (OMNR) ^c	Hamilton ^d	Cultural (Agri, hedgerow, upland meadow, residential)	Forest	Wetland
Song Sparrow	<i>Melospiza melodia</i>			S5		N, C	268	8	30
Swamp Sparrow	<i>Melospiza georgiana</i>			S5		N, C	6		7
Bobolink	<i>Dolichonyx oryzivorus</i>	THR	THR	S4	A	N, C	10		1
Red-winged Blackbird	<i>Agelaius phoeniceus</i>			S4		N, C	227	6	26
Eastern Meadowlark	<i>Sturnella magna</i>	THR	THR	S4	A	N, C	1		
Common Grackle	<i>Quiscalus quiscula</i>			S5		N, C	87	1	3
Brown-headed Cowbird	<i>Molothrus ater</i>			S5		N, C	140	3	4
Baltimore Oriole	<i>Icterus galbula</i>			S4		N, C	12	1	
House Finch	<i>Haemorhous mexicanus</i>			SE		E	89		
American Goldfinch	<i>Spinus tristis</i>			S5		N, C	134	6	8
House Sparrow	<i>Passer domesticus</i>			SE		E	15		

* C. Raven and Merlin no status in Hamilton in 2013; since then ranges of both have spread southward and become regular breeding species (Raven likely common, Merlin uncommon)

Note: X - flyby or F foraging (non-breeding)

SLR Field Work Conducted On:	Date	Temp (°C)	Wind Speed (km/h)	Cloud Cover (%)	Start time	End time
Round 1 - CH	3-Jun-24	16	3	75	6:12	9:47
Round 1 - MR	11-Jun-24	12	10	75	6:43	10:10
Round 1 - MR	12-Jun-24	10	5	50	6:40	9:45
Round 2 - RC	25-Jun-24	19	5	25	5:30	10:30
Round 2 - JB	26-Jun-24					
Round 2 - JB	27-Jun-24					
Round 3 - MR (selected locations only)	5-Jul-24	19	10	25	6:40	9:40
GeoProcess Field Work Conducted On:						
Round 1 - May 29 and 30, June 3, 4, 5, 6, 7, 10, 15.						
Round 2 - June 17, 18, 19, 20, 21, 25, and July 4, 2025						

Number of Species: 71 (63 breeding, 8 flyby or foraging only X)

Number of (provincial and national) Species at Risk: 5 (4 breeding, 1 foraging only)

Number of S1 to S3 (provincially rare) Species: 0

Number of Forest Area-sensitive Species: 6

Number of Open- Country/Grassland Area-sensitive Species: 3

Number of locally rare birds: 2

Number of locally uncommon birds: 14 (10 breeding, 4 flyby or foraging only)

KEY

^a COSEWIC = Committee on the Status of Endangered Wildlife in Canada

a Species at Risk in Ontario List (as applies to ESA) as designated by COSSARO (Committee on the Status of Species at Risk in Ontario)

END = Endangered, THR = Threatened, SC = Special Concern

^b SRANK (from Natural Heritage Information Centre) for breeding status if:

S1 (Critically Imperiled), S2 (Imperiled), S3 (Vulnerable), S4 (Apparently Secure), S5 (Secure)

SZB (breeding migrants or vagrants) and SR (reported as breeding, but no persuasive documentation) .

SE (exotic, i.e. non-native)

^c Ontario Ministry of Natural Resources (OMNR). 2000. Significant Wildlife Habitat Technical Guide (Appendix G). 151 p plus appendices.

^d What's Alive in Hamilton Bird Checklist 2013

Residency Codes: N = Native - Indigenous to Ontario, E = Exotic - Not indigenous to Ontario

Abundance Codes: R = Rare. Highly significant to Hamilton area, U = Uncommon. Moderately significant in Hamilton area,

C = Common. Present in many locations across the City of Hamilton, M = Migrant. Passes through Hamilton; not known to breed here.

Breeding Birds of Point Counts at Elfrida Lands (SLR and GeoProcess 2023-2024)

(Point counts as reported by Aquafor-Beech in 2018)

Common Name	Scientific Name	Status					Number of Birds Observed							
		National Species at Risk COSEWIC ^a	Species at Risk in Ontario Listing ^a	Provincial breeding season SRANK ^b	Area-sensitive (OMNR) ^c	Hamilton ^d	Point Count 1	Point Count 2	Point Count 4	Point Count 3	Point Count 5	Point Count 6	Point Count 7	Point Count 8
Great Blue Heron	<i>Ardea herodias</i>			S4		N, U					1X	1X		1X
Red-tailed Hawk	<i>Buteo jamaicensis</i>			S5		N, C		1				2		
Wild Turkey	<i>Meleagris gallopavo</i>			S5		E							1X	
Killdeer	<i>Charadrius vociferus</i>			S5		N, C				2			1	4
Ring-billed Gull	<i>Larus delawarensis</i>			S5		N, C							2X	
Herring Gull	<i>Larus argentatus</i>			S5						1X	2X			
Rock Pigeon	<i>Columba livia</i>			SE		E							1	
Mourning Dove	<i>Zenaidura macroura</i>			S5		N, C			2					
Red-bellied Woodpecker	<i>Melanerpes carolinus</i>			S4		N, C			2					
Northern Flicker	<i>Colaptes auratus</i>			S4		N, C				1				
Eastern Wood-Pewee	<i>Contopus virens</i>	SC	SC	S4		N, C		1		1				
Willow Flycatcher	<i>Empidonax traillii</i>			S5		N, C			1					4
Great Crested Flycatcher	<i>Myiarchus crinitus</i>			S4		N, C		1						
Horned Lark	<i>Eremophila alpestris</i>			S5		N, C			1				1	2
Tree Swallow	<i>Tachycineta bicolor</i>			S4		N, C								1X
Blue Jay	<i>Cyanocitta cristata</i>			S5		N, C		2		1	1			1
Common Raven	<i>Corvus corax</i>			S5						1				
Brown Creeper	<i>Certhia americana</i>			S5		A				3				
House Wren	<i>Troglodytes aedon</i>			S5		N, C				1				
American Robin	<i>Turdus migratorius</i>			S5		N, C	1	1		3	3	1	2	1
Gray Catbird	<i>Dumetella carolinensis</i>			S4		N, C	2	1		1				1
Brown Thrasher	<i>Toxostoma rufum</i>			S4		N, U			1					
Cedar Waxwing	<i>Bombycilla cedrorum</i>			S5		N, C	1		1				2	
European Starling	<i>Sturnus vulgaris</i>			SE		E						7	2	
Yellow Warbler	<i>Setophaga petechia</i>			S5		N, C	1		1					1
Northern Cardinal	<i>Cardinalis cardinalis</i>			S5		N, C	1	1			1	1	1	1
Rose-breasted Grosbeak	<i>Pheucticus ludovicianus</i>			S4		N, C					1			
Indigo Bunting	<i>Passerina cyanea</i>			S4		N, C	1	2		1				
Vesper Sparrow	<i>Pooecetes gramineus</i>			S4		N, U			1		1			
Savannah Sparrow	<i>Passerculus sandwichensis</i>			S4		A	N, C	1		1		2	5	
Song Sparrow	<i>Melospiza melodia</i>			S5		N, C	2	1	1	2	2	1	3	3
Bobolink	<i>Dolichonyx oryzivorus</i>	THR	THR	S4		A						1		
Red-winged Blackbird	<i>Agelaius phoeniceus</i>			S4		N, C			1			7	3	3
Common Grackle	<i>Quiscalus quiscula</i>			S5		N, C								1
Brown-headed Cowbird	<i>Molothrus ater</i>			S5		N, C	1					1	2	1
American Goldfinch	<i>Spinus tristis</i>			S5		N, C	1		1	1	3	2	1	
House Sparrow	<i>Passer domesticus</i>			SE		E						3	2	2

X = present but not breeding

Note Point Count 8 was numbered 9 in the Aquafor Beech report

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S1 (Critically Imperiled), S2 (Imperiled), S3 (Vulnerable), S4 (Apparently Secure), S5 (Secure)

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APPENDIX C6

Amphibian Calling Survey Results

Table 1. Amphibian Calling Survey Results

Station	Round	Date	Start Time	Air Temp (°C)	Wind (Beaufort)*	Precip.	Cloud Cover (10ths)	Species**	Call Code	# of Individuals Heard	Notes
TMC-1 (2a) 2025	Round Two	23-May-24	21:42	23	2	None/dry	1	None	0	0	
	Round Three	03-Jul-24	22:42	22	2	None/dry	4	None	0	0	
	Round One	22-Apr-25	22:21	10	1	None/dry	1	None	0	0	CHFR 1-1 heard while walking to station, AMTO 1-1 heard approx. 250m outside station
	Round Two	14-May-25	23:17	11	0	None/dry	3	None	0	0	
	Round Three	12-Jun-25	22:11	30	0	None/dry	7	None	0	0	
TMC-2 (2b) 2025	Round Two	24-May-24	22:44	20	0	None/dry	4	None	0	0	
	Round Three	26-Jun-24	22:29	17	2	damp haze/fog	8	None	0	0	GRTR 1-1 500m N and GRTR 3 800m S outside station.
	Round One	17-Apr-25	22:17	9	1	None/dry	2	None	0	0	
	Round Two	14-May-25	22:38	11	0	None/dry	4	None	0	0	
TMC-5 (3) 2025	Round Three	12-Jun-25	22:40	30	2	None/dry	7	None	0	0	
	Round Two	24-May-24	21:50	20	0	None/dry	4	None	0	0	AMTO 1-1 and AMTO 1-2 calling 50m behind station.
	Round Three	03-Jul-24	22:15	22	2	None/dry	3	None	0	0	GRTR 1-1 calling outside station.
	Round One	22-Apr-25	21:46	11	1	None/dry	1	None	0	0	NLFR heard 300m S and CHFR heard 500m E outside station.
	Round Two	14-May-25	22:56	11	0	None/dry	4	AMTO	1	2	
TMC-7 (9a) 2025	Round Three	12-Jun-25	21:26	30	2	None/dry	7	None	0	0	
	Round Two	24-May-24	21:26	20	0	None/dry	4	AMTO	3		Full chorus.
								GRFR	3		
	Round Three	03-Jul-24	23:14	21	2	None/dry	4	GRFR	1	3	
								GRFR	1	2	
Round One	22-Apr-25	21:05	13	1	None/dry	1	None	0	0		
Round Two	14-May-25	22:06	12	0	None/dry	4	None	0	0		

Station	Round	Date	Start Time	Air Temp (°C)	Wind (Beaufort)*	Precip.	Cloud Cover (10ths)	Species**	Call Code	# of Individuals Heard	Notes
	Round Three	12-Jun-25	22:56	28	0	None/dry	5	GRFR	1	3	
TMC-6 (9b) 2025	Round Two	24-May-24	21:15	20	1	None/dry	4	Green Frog	1	1	
	Round Three	03-Jul-24	23:01	22	1	None/dry	2	None	0	0	
	Round One	22-Apr-25	21:13	13	1	None/dry	1	None	0	0	CHFR calling 500m outside station.
	Round Two	14-May-25	22:13	12	0	None/dry	4	AMTO	2	4	
	Round Three	12-Jun-25	23:03	28	0	None/dry	5	GRFR	1	1	
TMC-9 (10a) 2025	Round Two	16-May-24	21:31	16	0	None/dry	1	SPPE	1	1	SPPE 1-1 and GRFR 1-1 calling outside station.
	Round Three	17-Jun-24	21:55	18	1	None/dry	2	GRTR	3		
								GRTR	1	1	
	Round One	22-Apr-25	21:53	10	1	None/dry	2	None	0	0	
	Round Two	14-May-25	21:19	12	0	None/dry	5	None	0	0	
Round Three	12-Jun-25	23:20	28	0	None/dry	5	GRTR	1	2		
TMC-8 (10b) 2025	Round Two	16-May-24	21:15	16	0	None/dry	1	GRFR	1	1	
								GRFR	1	1	
	Round Three	27-Jun-24	21:40	18	1	None/dry	2	GRFR	1	1	
	Round One	17-Apr-25	20:39	12	1	None/dry	1	SPPE	3		
								CHFR	2	4	
								CHFR	2	3	
Round Two	14-May-25	21:03	12	0	None/dry	5	SPPE	1	2		
Round Three	12-Jun-25	23:39	28	0	None/dry	5	GRFR	1	2	GRTR 1-2 calling outside station	
TMC-10 (12)	Round Two	16-May-24	21:51	16	0	None/dry	1	GRTR	1	1	GRTR 1-1, GRTR 1-2, and GRFR 1-1 calling outside station.
								SPPE	1	2	
								GRFR	1	1	
	Round Three	27-Jun-24	22:09	18	1	None/dry	2	GRFR	1	2	GRTR 2-4 calling outside station.
Round One	17-Apr-25	21:36	10	1	None/dry	2	CHFR	1	2	CHFR 2-4 calling outside station.	

Station	Round	Date	Start Time	Air Temp (°C)	Wind (Beaufort)*	Precip.	Cloud Cover (10ths)	Species**	Call Code	# of Individuals Heard	Notes
	Round Two	14-May-25	21:33	12	0	None/dry	4	SPPE	1	2	
								GRTR	1	1	
	Round Three	12-Jun-25	23:29	17	1	None/dry	9	GRFR	1	2	
TMC-11 (14)	Round Two	16-May-24	22:16	16	0	None/dry	0	None	0	0	GRTR 1-2, SPPE 1-1, and SPPE 1-1 calling outside station.
	Round Three	27-Jun-24	22:25	18	1	None/dry	2	None	0	0	GRTR 3 (full chorus) calling outside station.
	Round One	17-Apr-25	21:21	10	1	None/dry	2	None	0	0	
	Round Two	14-May-25	21:49	12	0	None/dry	4	SPPE	1	1	GRTR 1-2 calling outside station.
								AMTO	1	2	
Round Three	12-Jun-25	23:15	18	1	None/dry	9	None	0	0	GRTR 1-1 and 1-2 calling outside station.	
TMC-12 (15)	Round Two	16-May-24	22:35	16	0	None/dry	0	AMTO	1	1	GRTR 1-1 calling outside station.
								GRTR	1	1	
								GRTR	2	4	
	Round Three	27-Jun-24	22:40	18	1	None/dry	2	None	0	0	
	Round One	17-Apr-25	21:07	10	1	None/dry	2	None	0	0	
	Round Two	12-May-25	22:45	14	0	None/dry	9	GRTR	1	1	
							AMTO	1	1		
Round Three	12-Jun-25	23:02	18	2	None/dry	9	None	0	0	GRTR 1-2 calling outside station.	
SC-7 (26)	Round Two	23-May-24	20:48	21	2	None/dry	1	GRFR	1	2	
	Round Three	26-Jun-24	21:59	17	2	damp haze/fog	8	None	0	0	
	Round One	16-Apr-25	21:35	5	1	None/dry	1	None	0	0	No access to site. Survey taken from road.
	Round Two	12-May-25	21:58	15	0	None/dry	8	None	0	0	CHFR calling from 200m S and AMTO 1-1 calling outside station. No access to site. Survey taken from road.
	Round Three	12-Jun-25	22:18	20	2	None/dry	9	GRFR	1	1	
SC-8 (27)	Round Two	23-May-24	20:57	21	2	None/dry	1	None	0	0	
	Round Three	03-Jul-24	22:20	20	3	None/dry	8	None	0	0	
	Round One	16-Apr-25	21:41	5	1	None/dry	1	None	0	0	No access to site. Survey taken from road.

Station	Round	Date	Start Time	Air Temp (°C)	Wind (Beaufort)*	Precip.	Cloud Cover (10ths)	Species**	Call Code	# of Individuals Heard	Notes
	Round Two	12-May-25	22:03	15	0	None/dry	8	None	0	0	No access to site. Survey taken from road.
	Round Three	12-Jun-25	22:23	20	2	None/dry	9	None	0	0	
HC-1 (28)	Round Two	23-May-24	21:17	23	2	None/dry	1	None	0	0	
	Round Three	26-Jun-24	22:52	18	2	damp haze/fog	8	None	0	0	
	Round One	22-Apr-25	22:57	10	0	None/dry	0	None	0	0	
	Round Two	14-May-25	23:56	11	0	None/dry	3	None	0	0	
	Round Three	12-Jun-25	21:52	30	2	None/dry	7	None	0	0	
SC-9 (29)	Round Two	23-May-24	20:34	22	2	None/dry	1	GRFR	1	1	
	Round Three	26-Jun-24	21:49	17	2	damp haze/fog	8	GRFR	1	2	
								GRFR	1	1	
	Round One	16-Apr-25	21:18	5	1	None/dry	1	None	0	0	
	Round Two	12-May-25	22:11	15	0	None/dry	9	AMTO	1	1	CHFR 1-1 calling outside station.
								CHFR	1	2	
Round Three	12-Jun-25	22:30	20	2	None/dry	9	SPPE	1	1		
SC-5 (43)	Round Two	15-May-24	21:07	14	1	None/dry	5	None	0	0	
	Round Three	03-Jul-24	22:10	22	2	None/dry	5	None	0	0	AMTO 1-2 calling outside station.
	Round One	17-Apr-25	20:51	10	1	None/dry	2	None	0	0	
	Round Two	12-May-25	21:45	15	0	None/dry	9	None	0	0	CHFR 1-2 heard calling from about 200m S.
	Round Three	12-Jun-25	22:04	20	1	None/dry	9	None	0	0	
SC-4 (45)	Round Two	15-May-24	21:20	14	1	None/dry	5	None	0	0	
	Round Three	03-Jul-24	22:00	22	3	None/dry	5	None	0	0	
	Round One	16-Apr-25	20:33	5	1	None/dry	1	None	0	0	
	Round Two	12-May-25	22:22	15	0	None/dry	9	AMTO	1	2	
								CHFR	1	1	
Round Three	12-Jun-25	22:40	18	2	None/dry	9	None	0	0		
SC-2 (47a)	Round Two	15-May-24	21:50	14	1	None/dry	3	None	0	0	AMTO 1-1 calling outside station
	Round Three	03-Jul-24	22:33	22	2	None/dry	4	GRFR	1	1	

Station	Round	Date	Start Time	Air Temp (°C)	Wind (Beaufort)*	Precip.	Cloud Cover (10ths)	Species**	Call Code	# of Individuals Heard	Notes
								GRFR	1	2	
								GRFR	1	3	
								GRFR	1	2	
	Round One	16-Apr-25	20:48	5	1	None/dry	1	None	0	0	
	Round Two	12-May-25	21:25	16	0	None/dry	8	None	0	0	AMTO 1-1 calling outside station.
Round Three	12-Jun-25	21:46	20	1	None/dry	9	GRFR	1	2		
SC-1 (47b)	Round Two	15-May-24	21:57	13	0	None/dry	3	None	0	0	AMTO 1-1 and GRTR 1-1 calling outside station.
	Round Three	03-Jul-24	21:38	22	2	None/dry	4	None	0	0	
	Round One	16-Apr-25	20:56	5	1	None/dry	1	CHFR	1	2	
	Round Two	12-May-25	21:17	16	0	None/dry	8	CHFR	1	2	
	Round Three	12-Jun-25	21:40	20	1	None/dry	9	None	0	0	
SC-3 (51)	Round Two	15-May-24	21:35	14	1	None/dry	6	None	0	0	GRTR 1-2 and GRTR 1-1 calling outside station.
	Round Three	03-Jul-24	21:49	22	2	None/dry	4	None	0	0	
	Round One	17-Apr-25	20:35	10	1	None/dry	2	None	0	0	CHFR 1-1 calling approx. 500m behind station.
	Round Two	12-May-25	21:04	18	0	None/dry	8	None	0	0	AMTO 1-1 calling from outside station.
	Round Three	12-Jun-25	21:30	20	2	None/dry	9	None	0	0	
SC-6 (58)	Round Two	15-May-24	22:20	13	1	None/dry	4	None	0	0	GRTR 1-1 and GRTR 1-1 calling outside station.
	Round Three	26-Jun-24	22:08	17	2	damp haze/fog	8	None	0	0	GRTR 1-1 calling outside station.
	Round One	16-Apr-25	21:44	5	1	None/dry	1	None	0	0	
	Round Two	12-May-25	21:51	15	0	None/dry	9	None	0	0	CHFR 1-1 calling from about 200m S.
	Round Three	12-Jun-25	22:11	20	1	None/dry	9	None	0	0	
TMC-3 (AB2)	Round Two	24-May-24	22:11	20	0	None/dry	2	None	0	0	
	Round Three	27-Jun-24	23:09	18	1	None/dry	2	None	0	0	GRTR 1-1 calling outside station.
	Round One	22-Apr-25	22:39	10	1	None/dry	1	NLFR	1	1	
								CHFR	1	3	
	Round Two	14-May-25	22:43	11	0	None/dry	4	AMTO	1	1	
Round Three	12-Jun-25	22:32	30	0	None/dry	7	None	0	0		

Station	Round	Date	Start Time	Air Temp (°C)	Wind (Beaufort)*	Precip.	Cloud Cover (10ths)	Species**	Call Code	# of Individuals Heard	Notes
TMC-4 (AB3)	Round Two	24-May-24	22:26	20	1	None/dry	4	None	0	0	
	Round Three	27-Jun-24	23:20	18	1	None/dry	0	None	0	0	
	Round One	22-Apr-25	22:00	11	1	None/dry	10	CHFR	1	3	
	Round Two	14-May-25	23:33	11	0	None/dry	3	None	0	0	
	Round Three	12-Jun-25	22:23	30	0	None/dry	7	None	0	0	
SC-10 (AB32)	Round Two	23-May-24	22:13	21	2	None/dry	1	None	0	0	GRFR 1-1 calling outside station.
	Round Three	26-Jun-24	21:40	17	3	damp haze/fog	8	None	0	0	
	Round One	16-Apr-25	21:07	5	1	None/dry	1	None	0	0	CHFR 1-4 heard calling from 50-100m behind.
	Round Two	12-May-25	21:35	16	0	None/dry	8	None	0	0	CHFR 1-2 and AMTO 1-1 calling from 50m behind (SW).
	Round Three	12-Jun-25	21:54	20	1	None/dry	9	None	0	0	
SiC1	Round Two	23-May-24	21:35	23	3	None/dry	1	NLFR	1	3	
								GRFR	1	1	
								SPPE	1	1	
	Round Three	18-Jun-24	21:47	25	1	None/dry	3	GRFR	1	7	
	Round One	23-Apr-25	21:02	9	2	None/dry	9	NLFR	1	1	
	Round Two	14-May-25	21:24	12	2	None/dry	3	None	0	0	
Round Three	25-Jun-25	21:40	25	1	None/dry	8	GRFR	1	3		
SiC2	Round Two	23-May-24	21:15	23	3	None/dry	1	None	0	0	
	Round Three	18-Jun-24	21:33	30	2	None/dry	3	None	0	0	
	Round One	23-Apr-25	20:41	9	2	None/dry	9	None	0	0	CHFR 1-3 calling outside station.
	Round Two	14-May-25	21:07	12	2	None/dry	3	None	0	0	
	Round Three	25-Jun-25	23:56	23	1	drizzle	10	None	0	0	
SiC3	Round Two	23-May-24	22:06	23	3	None/dry	1	GRFR	1	5	
	Round Three	18-Jun-24	22:11	30	2	None/dry	3	GRFR	1	5	
								GRTR	1	1	
Round One	23-Apr-25	21:32	9	2	None/dry	9	None	0	0	SPPE 1-4 calling outside station.	

Station	Round	Date	Start Time	Air Temp (°C)	Wind (Beaufort)*	Precip.	Cloud Cover (10ths)	Species**	Call Code	# of Individuals Heard	Notes
	Round Two	14-May-25	21:51	12	2	None/dry	3	AMTO	1	2	
	Round Three	25-Jun-25	23:17	23	1	None/dry	10	GRFR	1	4	
SiC4	Round Two	23-May-24	22:21	23	3	None/dry	1	None	0	0	
	Round Three	18-Jun-24	22:26	30	2	None/dry	3	None	0	0	
	Round One	23-Apr-25	21:29	12	2	None/dry	3	None	0	0	
	Round Two	14-May-25	22:06	12	2	None/dry	3	None	0	0	
	Round Three	25-Jun-25	23:32	23	1	None/dry	10	None	0	0	
SiC5	Round Two	23-May-24	23:17	23	3	None/dry	1	None	0	0	
	Round Three	18-Jun-24	23:02	30	2	None/dry	3	None	0	0	
	Round One	23-Apr-25	22:21	9	2	None/dry	9	None	0	0	
	Round Two	14-May-25	22:33	12	2	None/dry	3	None	0	0	
	Round Three	25-Jun-25	21:56	25	1	None/dry	8	None	0	0	
SiC6	Round Two	23-May-24	23:07	23	3	None/dry	1	None	0	0	
	Round Three	18-Jun-24	23:24	30	2	None/dry	3	None	0	0	GRFR 1-1 calling outside station.
	Round One	23-Apr-25	22:32	9	2	None/dry	9	SPPE	2	6-10	Call level 2 with approximately 6 to 10 individuals heard.
	Round Two	14-May-25	22:43	12	2	None/dry	3	SPPE	1	4	
	Round Three	25-Jun-25	22:06	25	1	None/dry	8	None	0	0	
SiC7	Round Two	23-May-24	22:57	23	3	None/dry	1	None	0	0	
	Round Three	18-Jun-24	23:16	30	2	None/dry	3	GRFR	1	1	
	Round One	23-Apr-25	22:43	9	2	None/dry	9	AMTO	1	1	
								SPPE	1	2	
	Round Two	14-May-25	22:52	12	2	None/dry	3	None	0	0	
Round Three	25-Jun-25	22:14	25	1	None/dry	8	GRTR	1	1	GRTR 1-1 calling outside station as well.	
SiC8	Round Two	23-May-24	23:24	23	3	None/dry	1	GRFR	1	1	
	Round Three	18-Jun-24	22:57	30	2	None/dry	3	GRFR	1	3	
	Round One	23-Apr-25	23:00	9	2	None/dry	9	None	0	0	

Station	Round	Date	Start Time	Air Temp (°C)	Wind (Beaufort)*	Precip.	Cloud Cover (10ths)	Species**	Call Code	# of Individuals Heard	Notes
	Round Two	14-May-25	23:09	12	2	None/dry	3	AMTO	1	2	
								NLFR	1	1	
	Round Three	25-Jun-25	22:44	25	1	drizzle	8	None	0	0	
SiC9	Round Two	23-May-24	23:34	23	3	None/dry	1	None	0	0	
	Round Three	18-Jun-24	22:48	30	2	None/dry	3	None	0	0	
	Round One	23-Apr-25	23:05	9	2	None/dry	9	None	0	0	
	Round Two	14-May-25	23:18	12	2	None/dry	3	None	0	0	
	Round Three	25-Jun-25	22:54	23	1	None/dry	10	None	0	0	
SiC10	Round Two	23-May-24	22:36	23	3	None/dry	1	GRFR	1	3	AMTO 1-1 calling outside station
	Round Three	18-Jun-24	22:37	30	2	None/dry	3	GRFR	1	2	
	Round One	23-Apr-25	22:04	9	2	None/dry	9	NLFR	1	1	
	Round Two	14-May-25	22:18	12	2	None/dry	3	None	0	0	
	Round Three	25-Jun-25	23:51	23	1	None/dry	10	None	0	0	
SiC11	Round Two	23-May-24	23:57	23	3	None/dry	1	SPPE	1	1	
								GRFR	1	2	
	Round Three	18-Jun-24	23:20	25	1	None/dry	3	None	0	0	GRFR 1-5 calling outside station.
	Round One	23-Apr-25	22:48	9	2	None/dry	9	None	0	0	
	Round Two	14-May-25	23:08	12	2	None/dry	2	None	0	0	
SiC12	Round Three	25-Jun-25	23:25	23	1	None/dry	10	None	0	0	
	Round Two	23-May-24	23:51	19	2	None/dry	0	None	0	0	
	Round Three	18-Jun-24	23:05	25	1	None/dry	3	None	0	0	
	Round One	23-Apr-25	22:31	9	2	None/dry	9	CHFR	1	3	
	Round Two	14-May-25	22:52	12	2	None/dry	2	SPPE	1	1	CHFR 1-3 calling outside station.
SiC13	Round Three	25-Jun-25	23:12	23	1	None/dry	10	None	0	0	
	Round Two	23-May-24	23:31	19	2	None/dry	0	None	0	0	
	Round One	23-Apr-25	22:18	9	2	None/dry	9	None	0	0	

Station	Round	Date	Start Time	Air Temp (°C)	Wind (Beaufort)*	Precip.	Cloud Cover (10ths)	Species**	Call Code	# of Individuals Heard	Notes
	Round Two	14-May-25	22:40	12	2	None/dry	2	None	0	0	
	Round Three	25-Jun-25	23:03	23	1	None/dry	10	None	0	0	
SiC14	Round Two	23-May-24	23:07	19	2	None/dry	0	None	0	0	
	Round Three	18-Jun-24	22:43	25	1	None/dry	3	None	0	0	
	Round One	23-Apr-25	22:08	9	2	None/dry	9	None	0	0	CHFR 1-3 calling outside station.
	Round Two	14-May-25	22:29	12	2	None/dry	2	None	0	0	CHFR 1-2 calling outside station.
	Round Three	25-Jun-25	22:54	23	1	None/dry	10	None	0	0	
SiC15	Round Two	23-May-24	22:58	19	2	None/dry	0	None	0	0	
	Round Three	-	-	-	-	-	-	-	-	-	Not completed during this round.
	Round One	23-Apr-25	22:00	9	2	None/dry	9	None	0	0	
	Round Two	14-May-25	22:20	12	2	None/dry	2	CHFR	1	2	
	Round Three	25-Jun-25	22:45	23	1	None/dry	10	None	0	0	
SiC16	Round Two	23-May-24	21:26	19	2	None/dry	0	None	0	0	GRTR 1-5 and SPPE 1-2 calling outside station.
	Round Three	18-Jun-24	22:25	25	1	None/dry	3	None	0	0	GRTR 1-2 calling outside station.
	Round One	23-Apr-25	21:43	9	2	None/dry	9	SPPE	1	1	
								CHFR	1	1	
	Round Two	14-May-25	22:06	12	2	None/dry	2	SPPE	1	1	
Round Three	25-Jun-25	22:31	23	1	None/dry	10	GRTR	1	1		
SiC17	Round Two	23-May-24	21:34	19	2	None/dry	0	None	0	0	GRTR 1-5, GRFR 1-5, and SPPE 1-2 calling outside station.
	Round Three	18-Jun-24	22:19	25	1	None/dry	3	None	0	0	
	Round One	23-Apr-25	21:34	9	2	None/dry	9	None	0	0	
	Round Two	14-May-25	21:58	12	2	None/dry	2	None	0	0	
	Round Three	25-Jun-25	22:23	23	1	None/dry	10	None	0	0	
SiC18	Round Two	23-May-24	21:47	19	2	None/dry	0	None	0	0	GRFR 1-7 and SPPE 1-2 calling outside station.
	Round Three	18-Jun-24	22:08	25	1	None/dry	3	None	0	0	GRFR 1-4 and GRTR 1-2 calling outside station.

Station	Round	Date	Start Time	Air Temp (°C)	Wind (Beaufort)*	Precip.	Cloud Cover (10ths)	Species**	Call Code	# of Individuals Heard	Notes
	Round One	23-Apr-25	21:21	9	2	None/dry	9	None	0	0	CHFR 1-1 and SPPE 1-1 calling outside station.
	Round Two	14-May-25	21:46	12	2	None/dry	2	None	0	0	SPPE and GRTR calling outside station.
	Round Three	25-Jun-25	22:14	23	1	None/dry	10	None	0	0	
SiC19	Round Two	23-May-24	22:04	19	2	None/dry	0	GRFR	1	4	GRFR 1-2 calling outside station.
	Round Three	18-Jun-24	22:01	25	1	None/dry	3	GRFR	1	5	
	Round One	23-Apr-25	21:03	9	2	None/dry	9	AMTO	1	2	CHFR 1-3 calling outside station.
								SPPE	1	1	
	Round Two	14-May-25	21:33	12	2	None/dry	2	None	0	0	CHFR 1-1 calling outside station
	Round Three	25-Jun-25	22:03	23	1	None/dry	10	GRTR	1	2	
								GRFR	1	6	
SiC20	Round Two	23-May-24	22:33	19	2	None/dry	0	GRFR	1	4	
	Round Three	18-Jun-24	21:42	25	1	None/dry	3	GRFR	1	5	
	Round One	23-Apr-25	20:42	9	2	None/dry	9	CHFR	1	2	AMTO and NLFR calling outside station.
								SPPE	1	1	
	Round Two	14-May-25	21:11	12	2	None/dry	2	AMTO	1	2	GRTR and SPPE calling outside station.
	Round Three	25-Jun-25	21:37	23	1	None/dry	10	GRTR	1	3	
GRFR								1	3		

**The Beaufort Wind Scale indicates severity of wind conditions on a scale of 0-6. Numbers 0-3 are the only acceptable wind strengths for amphibian surveys as per MMP protocol. Wind indicators corresponding to these numbers are: 0- Calm, 1- Light air movement, 2- Slight Breeze, 3- Gentle breeze.*

***Amphibian species codes: AMTO (American Toad), GRTR (Gray Treefrog), SPPE (Spring Peeper), CHFR (Chorus Frog), NLFR (Northern Leopard Frog), GRFR (Green Frog).*

APPENDIX C7

Species at Risk (SAR) Table

Table 1. Species at Risk (SAR) Screening Resources

Screening Resource	Description
Natural Heritage Information Center (NHIC)	The Natural Heritage Information Center (NHIC), operated by the Ontario Ministry of Natural Resources and Forestry, collects, reviews, manages and distributes information on Ontario's biodiversity. Data distributed by the NHIC is used in conservation and natural resource management decision making and was a primary resource for this report. Through the NHIC Make-a-Map tool, data on species, plant communities, wildlife concentration areas and natural areas is made accessible to the public and professionals using generalized 1-kilometer grid units to protect sensitive information. The mapping interface provides current and historical occurrences of SAR within the specified grid unit. The database also identifies environmental designations which provide insight into habitat potential including wetland, areas of natural and scientific interests and woodlands.
Breeding Bird Atlas	The atlas divides the province into 10×10 km squares and then birders find as many breeding species as possible in each square. Atlassers who know birds well by song complete 5-minute "Point Counts", 25 of which are required to provide an index of the abundance of each species in a square. Data from every square are mapped to show the distribution of each species. Point count data from each square show how the relative abundance of each species varies across the province.
eBird	eBird data document bird distribution, abundance, habitat use, and trends through checklist data collected within a simple, scientific framework. Birders enter when, where, and how they went birding, and then fill out a checklist of all the birds seen and heard during the outing. eBird's free mobile app allows offline data collection anywhere in the world, and the website provides many ways to explore and summarize your data and other observations from the global eBird community. eBird hotspots that are within 1 km of the Study Area are selected for species review.
Ontario Moth Atlas	The Ontario Moth Atlas is a project of the Toronto Entomologists' Association. The atlas currently covers about 250 species from 7 of the best-known families. The atlas presently includes 62,000 records. The last update of the atlas was in April 2020. The atlas is updated at least every 3 months. Most atlas data come from iNaturalist records. However, there is some data from Chris Schmidt of Agriculture Canada, the BOLD (Barcode of Life Datasystems) project of the University of Guelph, and from other records submitted directly to the TEA. The atlas uses the same 10×10 km squares at the Breeding Bird Atlas.
Ontario Butterfly Atlas	The Ontario Butterfly Atlas is a project of the Toronto Entomologists' Association (TEA). The TEA has been accumulating records and publishing annual seasonal summaries (Ontario Lepidoptera) for 50 years, with the first edition appearing in 1969. Atlas data comes from eButterfly records, iNaturalist records, BAMONA records, and records submitted directly to the TEA. The atlas uses the same 10×10 km squares at the Breeding Bird Atlas.
i-Naturalist	i-Naturalist is a nature app that helps public identify plants and animals. Using algorithms as well as scientists and taxonomic experts' multiple observations can be identified at a research scale. This data generated by the iNat community can be used in science and conservation. The program actively distributes the data in venues where scientists and land managers can find it. I-Naturalist has a project group for (NHIC) Rare species of Ontario. GeoProcess only records observations within 1 km of the Study Area.
Fisheries and Oceans Aquatic Species at Risk Maps	The DFO has compiled critical habitat and distribution data for aquatic species listed under the Species at Risk Act (SARA). The interactive map is intended to provide an overview of the distribution of aquatic species at risk and the presence of their critical habitat within Canadian waters. The official source of information is the Species at Risk Public Registry. Using this map, a 1 km radius circle is outlined around aquatic features located within the Study Area.

APPENDIX C8

Significant Woodland Assessments of Identified Communities

Significant Woodland Assessment

	Urban Hamilton Official Plan: Significant Woodland Criteria						
	Size	Interior Forest	Proximity/ Connectivity	Proximity to Water	Age	Rare Species	Significance (Y/N)
ELC Community							
CUW1(5)	<p>1.02 ha</p> <p>The Study Area is considered to have an estimated 16% forest cover (City of Hamilton, 2020). Thus, the community must be 10 ha in size to meet UHOP criteria.</p> <p>Does not meet criteria.</p>	<p>The widest point of the CUW1(5) community is estimated at 68 m. Thus, no interior habitat exists 100 m from the community edge.</p> <p>Does not meet criteria.</p>	<p>Not within 50 metres of a significant natural area, as defined by the UHOP.</p> <p>Does not meet criteria.</p>	<p>Within 30 metres of a headwater drainage feature however, as per Figure 10, this feature has been classified as 'No management required' and is not recommended for protection.</p> <p>Does not meet criteria.</p>	<p>This community is a young woodland and therefore, does not contain ≥ 10 native trees/hectare that are at least 100 years old.</p> <p>Does not meet criteria.</p>	<p>No Species at Risk flora or fauna were recorded within the community.</p> <p>Does not meet criteria.</p>	<p>No</p>

	Urban Hamilton Official Plan: Significant Woodland Criteria						
	Size	Interior Forest	Proximity/ Connectivity	Proximity to Water	Age	Rare Species	Significance (Y/N)
FOD9(1)	<p>1.09 ha</p> <p>The Study Area is considered to have an estimated 16% forest cover (City of Hamilton, 2020). Thus, the community must be 10 ha in size to meet UHOP criteria.</p> <p>Does not meet criteria.</p>	<p>The widest point of the FOD9(1) community is estimated at 165 m. Thus, no interior habitat exists 100 m from the community edge.</p> <p>Does not meet criteria.</p>	<p>As per provincial mapping, the FOD9(1) unit is part of the Sinkhole Wetland Complex (Evaluated-Other) (Figure 1). However, during SLR's targeted surveys, this unit was classified as an upland forest unit, with no contiguous or adjacent significant natural areas, as per the UHOP definition.</p> <p>Does not meet criteria.</p>	<p>Within 30 metres of a headwater drainage feature of Sinkhole Creek that has been assigned a management recommendation of 'Protection'.</p> <p>Meets criteria.</p>	<p>Given the extensive agricultural land use within the area and the known historical logging practices of Southern Ontario, the community is not likely to contain >= 10 native trees/hectare that are at least 100 years old.</p> <p>Does not meet criteria.</p>	<p>Special Concern Eastern Wood Pewee (<i>Contopus virens</i>) is present.</p> <p>Meets criteria.</p>	<p>Yes</p>

	Urban Hamilton Official Plan: Significant Woodland Criteria						
	Size	Interior Forest	Proximity/ Connectivity	Proximity to Water	Age	Rare Species	Significance (Y/N)
FOD9(2)	<p>0.77 ha</p> <p>The Study Area is considered to have an estimated 16% forest cover (City of Hamilton, 2020). Thus, the community must be 10 ha in size to meet UHOP criteria.</p> <p>Does not meet criteria.</p>	<p>The widest point of the FOD9(2) community is estimated at 108 m. Thus, no interior habitat exists 100 m from the community edge.</p> <p>Does not meet criteria.</p>	<p>As per provincial mapping, the FOD9(2) unit is part of the Sinkhole Wetland Complex (Evaluated-Other) (Figure 1). However, during SLR's targeted surveys, this unit was classified as an upland forest unit, with no contiguous or adjacent significant natural areas, as per the UHOP definition.</p> <p>Does not meet criteria.</p>	<p>Within 30 metres of two headwater drainage features of Sinkhole Creek that have been assigned a management recommendation of 'Protection'.</p> <p>Meets criteria.</p>	<p>Given the extensive agricultural land use within the area and the known historical logging practices of Southern Ontario, the community is not likely to contain >= 10 native trees/hectare that are at least 100 years old.</p> <p>Does not meet criteria.</p>	<p>Special Concern Eastern Wood Pewee (<i>Contopus virens</i>) is present.</p> <p>Meets criteria.</p>	<p>Yes</p>

	Urban Hamilton Official Plan: Significant Woodland Criteria						
	Size	Interior Forest	Proximity/ Connectivity	Proximity to Water	Age	Rare Species	Significance (Y/N)
FOD9(4)	<p>2.54 ha</p> <p>The Study Area is considered to have an estimated 16% forest cover (City of Hamilton, 2020). Thus, the community must be 10 ha in size to meet UHOP criteria.</p> <p>Does not meet criteria.</p>	<p>The widest point of the FOD9(4) community is estimated at 135 m. Thus, no interior habitat exists 100 m from the community edge.</p> <p>Does not meet criteria.</p>	<p>Not within 50 metres of a significant natural area, as defined by the UHOP.</p> <p>Does not meet criteria.</p>	<p>Not within 30 metres of any hydrological feature, including all streams, headwater areas, wetlands, and lakes.</p> <p>Does not meet criteria.</p>	<p>Given the extensive agricultural land use within the area and the known historical logging practices of Southern Ontario, the community is not likely to contain ≥ 10 native trees/hectare that are at least 100 years old.</p> <p>Does not meet criteria.</p>	<p>No Species at Risk flora or fauna were recorded within the community.</p> <p>Does not meet criteria.</p>	<p>No</p>

	Urban Hamilton Official Plan: Significant Woodland Criteria						
	Size	Interior Forest	Proximity/ Connectivity	Proximity to Water	Age	Rare Species	Significance (Y/N)
FOD4-1(1)	<p>1.29 ha</p> <p>The Study Area is considered to have an estimated 16% forest cover (City of Hamilton, 2020). Thus, the community (and other contiguous woodlands) must be 10 ha in size to meet UHOP criteria.</p> <p>Does not meet criteria.</p>	<p>Interior forest habitat criteria may be met within the greater, contiguous woodland unit however, is not met within the individual FOD4-1(1) unit.</p> <p>Meets criteria.</p>	<p>Contiguous with two PSW swamp communities associated with the Lower Twenty Mile Creek Wetland Complex.</p> <p>Meets criteria.</p>	<p>Contiguous with two PSW swamp communities and within 30 metres of a headwater drainage feature with a management recommendation of 'Protection'.</p> <p>Meets criteria.</p>	<p>Given the extensive agricultural land use within the area and the known historical logging practices of Southern Ontario, the community is not likely to contain >= 10 native trees/hectare that are at least 100 years old.</p> <p>Does not meet criteria.</p>	<p>Endangered Black Ash (<i>Fraxinus nigra</i>) was recorded within the SWD3-1(1) swamp community, a part of the greater PSW complex.</p> <p>Special Concern Eastern Wood Pewee is present.</p> <p>Meets criteria.</p>	<p>Yes</p>

	Urban Hamilton Official Plan: Significant Woodland Criteria						
	Size	Interior Forest	Proximity/ Connectivity	Proximity to Water	Age	Rare Species	Significance (Y/N)
FOD4-1(2)	<p>0.49 ha</p> <p>The Study Area is considered to have an estimated 16% forest cover (City of Hamilton, 2020). Thus, the community (and other contiguous woodlands) must be 10 ha in size to meet UHOP criteria.</p> <p>Does not meet criteria.</p>	<p>Interior forest habitat criteria may be met within the greater, contiguous woodland unit however, is not met within the individual FOD4-1(2) unit.</p> <p>Meets criteria.</p>	<p>Contiguous with a PSW swamp community (SWD3-1(1)) associated with the Lower Twenty Mile Creek Wetland Complex.</p> <p>Meets criteria.</p>	<p>Contiguous with a PSW swamp community (SWD3-1(1)) and within 30 metres of a headwater drainage feature with a management recommendation of 'Protection'.</p> <p>Meets criteria.</p>	<p>Given the extensive agricultural land use within the area and the known historical logging practices of Southern Ontario, the community is not likely to contain >= 10 native trees/hectare that are at least 100 years old.</p> <p>Does not meet criteria.</p>	<p>Endangered Black Ash (<i>Fraxinus nigra</i>) was recorded within the adjacent SWD3-1(1) swamp community and is afforded protection. However, none were recorded within FOD4-1(2).</p> <p>Special Concern Eastern Wood Pewee is present.</p> <p>Meets criteria.</p>	<p>Yes</p>

	Urban Hamilton Official Plan: Significant Woodland Criteria						
	Size	Interior Forest	Proximity/ Connectivity	Proximity to Water	Age	Rare Species	Significance (Y/N)
FOD4-1(3)	<p>1.34 ha</p> <p>The Study Area is considered to have an estimated 16% forest cover (City of Hamilton, 2020). Thus, the community (and other contiguous woodlands) must be 10 ha in size to meet UHOP criteria.</p> <p>Does not meet criteria.</p>	<p>Interior forest habitat criteria may be met within the greater, contiguous woodland unit however, is not met within the individual FOD4-1(3) unit.</p> <p>Meets criteria.</p>	<p>Contiguous with a PSW swamp community (SWD3-1(1)) associated with the Lower Twenty Mile Creek Wetland Complex.</p> <p>Meets criteria.</p>	<p>Contiguous with a PSW swamp community (SWD3-1(1)) and within 30 metres of a headwater drainage feature with a management recommendation of 'Protection'.</p> <p>Meets criteria.</p>	<p>Given the extensive agricultural land use within the area and the known historical logging practices of Southern Ontario, the community is not likely to contain >= 10 native trees/hectare that are at least 100 years old.</p> <p>Does not meet criteria.</p>	<p>Endangered Black Ash (<i>Fraxinus nigra</i>) was recorded within the adjacent SWD3-1(1) swamp community and is afforded protection. However, none were recorded within FOD4-1(3).</p> <p>Special Concern Eastern Wood Pewee is present.</p> <p>Meets criteria.</p>	<p>Yes</p>

Urban Hamilton Official Plan: Significant Woodland Criteria							
	Size	Interior Forest	Proximity/ Connectivity	Proximity to Water	Age	Rare Species	Significance (Y/N)
FOD9-4(1)	<p>1.75 ha</p> <p>The Study Area is considered to have an estimated 16% forest cover (City of Hamilton, 2020). Thus, the community (and other contiguous woodlands) must be 10 ha in size to meet UHOP criteria.</p> <p>Does not meet criteria.</p>	<p>Interior forest habitat criteria may be met within the greater, contiguous woodland unit however, is not met within the individual FOD9-4(1) unit.</p> <p>Meets criteria.</p>	<p>Contiguous with a PSW swamp community (SWD3-1(2)) associated with the Lower Twenty Mile Creek Wetland Complex.</p> <p>Meets criteria.</p>	<p>Contiguous with a PSW swamp community (SWD3-1(2)) and within 30 metres of a headwater drainage feature with a management recommendation of 'Protection'.</p> <p>Meets criteria.</p>	<p>Given the extensive agricultural land use within the area and the known historical logging practices of Southern Ontario, the community is not likely to contain >= 10 native trees/hectare that are at least 100 years old.</p> <p>Does not meet criteria.</p>	<p>Endangered Black Ash (<i>Fraxinus nigra</i>) was recorded within the SWD3-1(1) swamp community, a part of the greater PSW complex.</p> <p>Special Concern Eastern Wood Pewee is present.</p> <p>Meets criteria.</p>	<p>Yes</p>

	Urban Hamilton Official Plan: Significant Woodland Criteria						
	Size	Interior Forest	Proximity/ Connectivity	Proximity to Water	Age	Rare Species	Significance (Y/N)
FOD5-2	<p>2.55 ha</p> <p>The Study Area is considered to have an estimated 16% forest cover (City of Hamilton, 2020). Thus, the community (and other contiguous woodlands) must be 10 ha in size to meet UHOP criteria.</p> <p>Does not meet criteria.</p>	<p>The forest community does not meet the interior forest criteria of 100 m from the community edge.</p> <p>Does not meet criteria.</p>	<p>Not within 50 metres of a significant natural area, as defined by the UHOP.</p> <p>Does not meet criteria.</p>	<p>Within 30 m of a headwater drainage feature in the Twenty Mile Creek subwatershed that has been assigned a management recommendation of 'Maintain Terrestrial Linkage'.</p> <p>Meets criteria.</p>	<p>Given the extensive agricultural land use within the area and the known historical logging practices of Southern Ontario, the community is not likely to contain >= 10 native trees/hectare that are at least 100 years old.</p> <p>Does not meet criteria.</p>	<p>Significant Wildlife Habitat (SWH) relating to the Special Concern Eastern Wood Pewee (<i>Contopus virens</i>) is present.</p> <p>Shellbark Hickory (<i>Carya laciniosa</i>) was found in the SWD3-2 inclusion within this community which contains an S-Rank of S3 (rare to uncommon).</p> <p>Meets criteria.</p>	<p>Yes</p>

	Urban Hamilton Official Plan: Significant Woodland Criteria						
	Size	Interior Forest	Proximity/ Connectivity	Proximity to Water	Age	Rare Species	Significance (Y/N)
FOD5-1 SWD4-2 inclusion	<p>2.01 ha</p> <p>The Study Area is considered to have an estimated 16% forest cover (City of Hamilton, 2020). Thus, the community (and other contiguous woodlands) must be 10 ha in size to meet UHOP criteria.</p> <p>Does not meet criteria.</p>	<p>The forest community does not meet the interior forest criteria of 100 m from the community edge.</p> <p>Does not meet criteria.</p>	<p>Not within 50 metres of a significant natural area, as defined by the UHOP.</p> <p>Does not meet criteria.</p>	<p>Within 30 m of a headwater drainage feature in the Twenty Mile Creek subwatershed that has been assigned a management recommendation of 'Protection' and within 30 m of a watercourse.</p> <p>Meets criteria.</p>	<p>Given the extensive agricultural land use within the area and the known historical logging practices of Southern Ontario, the community is not likely to contain >= 10 native trees/hectare that are at least 100 years old.</p> <p>Does not meet criteria.</p>	<p>Significant Wildlife Habitat (SWH) relating to the Special Concern Eastern Wood Pewee (<i>Contopus virens</i>) is present.</p> <p>Pignut Hickory (<i>Carya glabra</i>) is found within this community which is considered rare in the City of Hamilton (NAI 2014) and has an S-Rank of S3 (rare to uncommon).</p> <p>Meets criteria.</p>	Yes

	Urban Hamilton Official Plan: Significant Woodland Criteria						
	Size	Interior Forest	Proximity/ Connectivity	Proximity to Water	Age	Rare Species	Significance (Y/N)
CUW1(3)	<p>0.59 ha</p> <p>The Study Area is considered to have an estimated 16% forest cover (City of Hamilton, 2020). Thus, the community (and other contiguous woodlands) must be 10 ha in size to meet UHOP criteria.</p> <p>Does not meet criteria.</p>	<p>The widest point of the CUW1(3) community is estimated at 100 m. Thus, no interior habitat exists 100 m from the community edge.</p> <p>Does not meet criteria.</p>	<p>Not within 50 metres of a significant natural area, as defined by the UHOP.</p> <p>Does not meet criteria.</p>	<p>Within 30 metres of a headwater drainage feature however, as per Figure 10, this feature has been classified as 'No management required' and is not recommended for protection.</p> <p>Does not meet criteria.</p>	<p>This community is a young woodland and therefore, does not contain ≥ 10 native trees/hectare that are at least 100 years old.</p> <p>Does not meet criteria.</p>	<p>No Species at Risk flora or fauna were recorded within the community.</p> <p>Does not meet criteria.</p>	<p>No</p>

Urban Hamilton Official Plan: Significant Woodland Criteria							
	Size	Interior Forest	Proximity/ Connectivity	Proximity to Water	Age	Rare Species	Significance (Y/N)
CUW1(1)	<p>0.35 ha</p> <p>The Study Area is considered to have an estimated 16% forest cover (City of Hamilton, 2020). Thus, the community (and other contiguous woodlands) must be 10 ha in size to meet UHOP criteria.</p> <p>Does not meet criteria.</p>	<p>The widest point of the CUW1(1) community is estimated at 100 m. Thus, no interior habitat exists 100 m from the community edge.</p> <p>Does not meet criteria.</p>	<p>Not within 50 metres of a significant natural area, as defined by the UHOP.</p> <p>Does not meet criteria.</p>	<p>Not within 30 metres of any hydrological feature, including all streams, headwater areas, wetlands, and lakes.</p> <p>Does not meet criteria.</p>	<p>This community is a young woodland and therefore, does not contain ≥ 10 native trees/hectare that are at least 100 years old.</p> <p>Does not meet criteria.</p>	<p>No Species at Risk flora or fauna were recorded within the community.</p> <p>Does not meet criteria.</p>	<p>No</p>

Urban Hamilton Official Plan: Significant Woodland Criteria							
	Size	Interior Forest	Proximity/ Connectivity	Proximity to Water	Age	Rare Species	Significance (Y/N)
CUW1(2)	<p>0.49 ha</p> <p>The Study Area is considered to have an estimated 16% forest cover (City of Hamilton, 2020). Thus, the community (and other contiguous woodlands) must be 10 ha in size to meet UHOP criteria.</p> <p>Does not meet criteria.</p>	<p>The widest point of the CUW1(2) community is estimated at 75 m. Thus, no interior habitat exists 100 m from the community edge.</p> <p>Does not meet criteria.</p>	<p>Not within 50 metres of a significant natural area, as defined by the UHOP.</p> <p>Does not meet criteria.</p>	<p>Not within 30 metres of any hydrological feature, including all streams, headwater areas, wetlands, and lakes.</p> <p>Does not meet criteria.</p>	<p>This community is a young woodland and therefore, does not contain ≥ 10 native trees/hectare that are at least 100 years old.</p> <p>Does not meet criteria.</p>	<p>No Species at Risk flora or fauna were recorded within the community.</p> <p>Does not meet criteria.</p>	<p>No</p>

Urban Hamilton Official Plan: Significant Woodland Criteria							
	Size	Interior Forest	Proximity/ Connectivity	Proximity to Water	Age	Rare Species	Significance (Y/N)
FOD5-3(1) with SWT2-9(2) inclusion	<p>2.93 ha</p> <p>The Study Area is considered to have an estimated 16% forest cover (City of Hamilton, 2020). Thus, the community (and other contiguous woodlands) must be 10 ha in size to meet UHOP criteria.</p> <p>Does not meet criteria.</p>	<p>The widest point of the FOD5-3(1) community is estimated at 186 m. Thus, no interior habitat exists 100 m from the community edge.</p> <p>Does not meet criteria.</p>	<p>Not within 50 metres of a significant natural area, as defined by the UHOP.</p> <p>Does not meet criteria.</p>	<p>Within 30 m of a headwater drainage feature in the Twenty Mile Creek subwatershed that has been assigned a management recommendation of 'Mitigation' and within 30 m of a watercourse.</p> <p>Meets criteria.</p>	<p>Given the extensive agricultural land use within the area and the known historical logging practices of Southern Ontario, the community is not likely to contain >= 10 native trees/hectare that are at least 100 years old.</p> <p>Does not meet criteria.</p>	<p>Significant Wildlife Habitat (SWH) relating to the Special Concern Eastern Wood Pewee (<i>Contopus virens</i>) is present.</p> <p>Sharp-fruited Rush (<i>Juncus acuminatus</i>) is found within the SWT2-9 inclusion in this community which is considered rare in the City of Hamilton (NAI 2014) and has an S-Rank of S3 (rare to uncommon).</p> <p>Greater Poverty Rush (<i>Juncus antheratus</i>) is found within the SWT2-9 inclusion in this community which has an S-Rank of S1 (extremely rare).</p> <p>Meets criteria.</p>	<p>Yes</p>

References

City of Hamilton. 2020. Draft Urban Forest Strategy. Retrieved on September 19, 2025 from [Urban-forest-strategy-draft-report-compressed-1.pdf](#)

City of Hamilton. 2025. Urban Hamilton Official Plan.

Hamilton Conservation Authority. 2014. Hamilton Natural Areas Inventory Project 3rd Edition: Species Checklist Document.