

# Land Information Ontario Data Description

## Plant Community Observation, Provincially Tracked

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# LIO Class Catalogue

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## Plant Community Observation, Provincially Tracked

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**Class Short Name:** PCOBSPT

**Version Number:** 1

**Class Description:**

A plant community is a recurring assemblage of plants, having a consistent composition and structure, which develops in association with particular combinations of substrate, site moisture, and landform. In Ontario, these are referred to as vegetation types. Examples of provincially tracked vegetation communities include Dry Tallgrass Prairie, White Cedar/Goldthread ? Sphagnum Swamp and Cottonwood Treed Dune. A plant community observation is a discrete observation at a known location and date of a plant community obtained from a field survey, orthophoto interpretation, or historical account.

**Abstract Class Name:** SPMNTUREGION

**Abstract Class**

**Description:**

Spatial Multi-Non-Tessellating-Unconstrained Region: An object is represented by ONE or MORE polygons. Polygons MAY overlap WITHOUT any restrictions. HOLES within and GAPS between polygons ARE allowed. Example: Forest "Insect Damage Area". Mapped "Spruce Budworm" defoliated areas may overlap "Forest Tent Caterpillar" damaged areas. Likewise, mapped "Gypsy Moth" tree mortality areas may overlap mapped other "Gypsy Moth" defoliated areas from current and previous years.

## Tables in LIO Class:

### Plant Community Observation, Provincially Tracked

#### PC\_OBSERVATION\_FT

A discrete observation of a Plant Community obtained from a field survey, orthophoto interpretation, or historical account.

| Column Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Column Type       | Mandatory | Short Name | Valid Values                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------|------------|------------------------------------------------------------------------------------------|
| <b>OGF_ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NUMBER<br>(13,0)  | Yes       | OGF_ID     |                                                                                          |
| A unique numeric provincial identifier assigned to each object.                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   |           |            |                                                                                          |
| <b>ELC_FEC_CODE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | VARCHAR2<br>(10)  | Yes       | FEC_CODE   | ALO1-10, ALO1-6, ALO1-7, ALO1-8, ALO1-9, ALS1-1, ...<br>(See PLANT_COMMUNITY_LIST table) |
| The plant community classification code used by a classification system. This represents a classified plant community at the finest or most detailed level for that classification system.                                                                                                                                                                                                                                                                                                             |                   |           |            |                                                                                          |
| <b>OBSERVER_ORGANIZATION_TYPE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | VARCHAR2<br>(20)  | Yes       | OBS_ORG_T  | Academic, Government, NGO, Public, Private Sector, Other                                 |
| The high-level classification that the Observer Organization belongs to, described as follows: --- Academic: University or College --- NGO: Non-Governmental Organization --- Public: General public. --- Private Sector: Privately-owned company e.g. Forest Industry --- Government: Federal, Provincial, Municipal agencies. --- Other: used to identify an Organization Type that is not listed in the available values. Users should describe the Type in the "Observer Organization Name" field. |                   |           |            |                                                                                          |
| <b>OBSERVER_ORGANIZATION_NAME</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | VARCHAR2<br>(100) | Yes       | OBS_ORG    |                                                                                          |
| The name of the organization or agency that the observer is affiliated with. For example, "Toronto Field Naturalists". If the Observer Organization Type is Public then a value of "Public" should be entered in this field. ----- Rule: Where available, the observer name can be identified in the Observer Name Secure table.                                                                                                                                                                       |                   |           |            |                                                                                          |
| <b>OBSERVATION_DATE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | VARCHAR2<br>(20)  | Yes       | OBS_DATE   |                                                                                          |
| The date that the Plant Community was observed. ----- Refer to User Guide to date formats.                                                                                                                                                                                                                                                                                                                                                                                                             |                   |           |            |                                                                                          |
| <b>OBSERVATION_DATE_FLG</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | VARCHAR2<br>(15)  | Yes       | DATE_FLG   | Actual, Approximate, Not Available                                                       |
| Indicates if the observation date is Actual or Approximate.                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |           |            |                                                                                          |
| <b>OBSERVATION_MAPPABLE_IND</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | VARCHAR2<br>(3)   | No        | MAPPABLE   | Yes, No                                                                                  |
| Indicates if the observation should be displayed on map products. Intended to exclude the display of historical observations that are too general in their spatial co-ordinates or multiples of observations displaying at the same co-ordinates.                                                                                                                                                                                                                                                      |                   |           |            |                                                                                          |
| <b>LOCATION_NAME</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | VARCHAR2<br>(254) | No        | LOCATION   |                                                                                          |
| A generally accepted name for the location where the feature occurs.                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   |           |            |                                                                                          |
| <b>DIRECTIONS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | VARCHAR2<br>(500) | No        | DIRECTIONS |                                                                                          |
| Instructions on how to get to the site including the method (canoe, helicopter etc.), time of year and site accessibility.                                                                                                                                                                                                                                                                                                                                                                             |                   |           |            |                                                                                          |
| <b>RA_VALUE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | VARCHAR2          | No        | RA_VALUE   | Very High, High, Medium,                                                                 |

Representation Accuracy (RA) varies on the basis of area observed to be occupied by the species relative to the area contained within the footprint of the mapped observation. Differences in these two values result from incorporation of additional area within the observation boundary to incorporate associated locational uncertainty. Please refer to user-guide for details. ----- Note: a (null) value in this field indicates that the RA was not assessed.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       |                   |                                                                                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>RA_COMMENT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | VARCHAR2 No<br>(500)  | <b>RA_COMMENT</b> |                                                                                                                                                              |
| Comments related to the value entered in the Representation Accuracy Value.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       |                   |                                                                                                                                                              |
| <b>IDENTIFICATION_PROBLEM_IND</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | VARCHAR2 No<br>(3)    | <b>ID_PROBLEM</b> | Yes, No                                                                                                                                                      |
| Indicates if there was a problem identifying this Plant Community observation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |                   |                                                                                                                                                              |
| <b>IDENTIFICATION_PROBLEM_DESCR</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | VARCHAR2 No<br>(500)  | <b>ID_PROB_D</b>  |                                                                                                                                                              |
| Text providing details as to why there was a problem identifying this specific observation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       |                   |                                                                                                                                                              |
| <b>GENERAL_COMMUNITY_STRUCTURE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | VARCHAR2 No<br>(2000) | <b>GEN_STRUCT</b> |                                                                                                                                                              |
| Text describing the structure (physiognomy) of the Plant Community e.g. Oak savannah with scattered, widely spaced, open-grown trees.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                       |                   |                                                                                                                                                              |
| <b>LAND_TYPE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | VARCHAR2 No<br>(100)  | <b>LAND_TYPE</b>  | Island, Peninsula,<br>Mainland, Wetland<br>Complex, Waterbody                                                                                                |
| A general land description that is used as a search key for wildlife management purposes e.g.: Island, Peninsula, Mainland, Wetland Complex, and Waterbody.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       |                   |                                                                                                                                                              |
| <b>HABITAT_DESCR</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | VARCHAR2 No<br>(1000) | <b>HAB_DESCR</b>  |                                                                                                                                                              |
| Text describing the habitat occupied by the Plant Community.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                   |                                                                                                                                                              |
| <b>ENVIRONMENTAL_COMMENTS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | VARCHAR2 No<br>(500)  | <b>ENVIR_COMM</b> |                                                                                                                                                              |
| Text to describe the aspects of the environment which affect this particular Plant Community. This may include information on climate, seasonality of moisture, or any other relevant environmental factors.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                       |                   |                                                                                                                                                              |
| <b>TOPOGRAPHIC_POSITION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | VARCHAR2 No<br>(13)   | <b>TOPO_POS</b>   | Interfluve, High Slope,<br>High Level, Midslope,<br>Backslope, Step in Slope,<br>Lowslope, Toeslope, Low<br>Level, Channel Wall,<br>Channel Bed, Basin Floor |
| Primary topographic position the Plant Community observation occupies on the landscape. ----- Valid Values:<br>--- Interfluve: (crest, summit, ridge) linear top of ridge, hill or mountain; the elevated area between two<br>fluves, ie. drainageways, that shed water to the drainageways. --- High Slope: (shoulder slope, upper slope,<br>convex creep slope) geomorphic component that forms the uppermost inclined surface at the top of a slope. It<br>comprises the transition zone from backslope to summit. The surface is dominantly convex in profile and<br>erosional in origin. --- High Level: (mesa) level top of plateau. --- Midslope: (transportational midslope,<br>middle slope) Intermediate slope position between high and low. --- Backslope: (dipslope): subset of<br>midslope which are steep, linear and may include cliff segments (fall face). --- Step In Slope: (ledge, terrace)<br>nearly level shelf interrupting a steep slope, rockwall, or cliff face. --- Lowslope: (lower slope, foot slope,<br>colluvial footslope) inner gently inclined surface at the base of a slope. Surface profile is generally concave and<br>a transition between midslope or backslope, and toe slope. --- Toeslope: (alluvial toeslope) outermost gently<br>inclined surface at base of a slope. Toeslopes in profile are commonly gentle and linear characterized by<br>alluvial deposition. --- Low Level: (terrace) valley floor or shoreline representing the former position of an<br>alluvial plain, lake or shore. --- Channel Wall: (bank) sloping side of a channel. --- Channel Bed: (narrow<br>valley bottom, gully arroyos) bed of single or braided watercourse commonly barren of vegetation and formed<br>of modern alluvium. --- Basin Floor: (depression) nearly level to gently sloping. bottom surface of an<br>intermontane basin. |                       |                   |                                                                                                                                                              |
| <b>TOPOGRAPHIC_COMMENTS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | VARCHAR2 No           | <b>TOPO_COMM</b>  |                                                                                                                                                              |

(254)

Text describing any noteworthy details about the topographic position of the Plant Community observation.

| SLOPE_COMMENTS | VARCHAR2 No<br>(254) | SLOPE_COMM |
|----------------|----------------------|------------|
|----------------|----------------------|------------|

Text for any noteworthy comments about the slope of the Plant Community observation.

| SLOPE | VARCHAR2 No<br>(75) | SLOPE | Flat (0 degrees, 0 percent), Gentle (0-5 degrees, 1-9 percent), Moderate (6-14 degrees, 10-25 percent), Somewhat Steep (15-26 degrees, 26-49 percent), Steep (27-45 degrees, 50-100 percent), Very Steep (45-69 degrees, 101-275 percent), Abrupt (70-100 degrees, 276 - 300 percent), Overhanging/Sheltered (101 degrees or greater, 301 percent or greater) |
|-------|---------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|-------|---------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Primary slope position of the landform occupied by the Plant Community observation.

| ASPECT | VARCHAR2 No<br>(15) | ASPECT | Flat, Variable, North, Northeast, East, Southeast, South, Southwest, West, Northwest |
|--------|---------------------|--------|--------------------------------------------------------------------------------------|
|--------|---------------------|--------|--------------------------------------------------------------------------------------|

Directional aspect of the topography occupied by the Plant Community observation. ----- Valid values: --- Flat --- Variable --- North: (338-22 degrees) --- Northeast: (23-67 degrees) --- East: (68-112 degrees) --- Southeast: (113-157 degrees) --- South: (158-202 degrees) --- Southwest: (203-247 degrees) --- West: (248-292 degrees) --- Northwest: (293-337 degrees)

| ASPECT_COMMENTS | VARCHAR2 No<br>(254) | ASPECT_COM |
|-----------------|----------------------|------------|
|-----------------|----------------------|------------|

Text for any noteworthy comments about the aspect of the Plant Community observation.

| GEOLOGY_COMMENTS | VARCHAR2 No<br>(254) | GEOL_COMM |
|------------------|----------------------|-----------|
|------------------|----------------------|-----------|

Description of the geological substrate influencing the Plant Community observation.

| SUBSTRATE_TYPE | VARCHAR2 No<br>(25) | SUB_TYPE | Silt, Silt Loam, Silty Clay Loam, Silty Clay, Silty Sand, Loam, Clay Loam, Clay, Heavy Clay, Sandy Loam, Sandy Clay Loam, Sandy Clay, Loamy Sand, Sand, Organic, Rock |
|----------------|---------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|----------------|---------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Identify the type of substrate upon which the Plant Community observation occurs. E.g. sand, clay, granitic bedrock etc.

| SUBSTRATE_MOISTURE_REGIME | VARCHAR2 No<br>(30) | SUB_MOIST | Theta: (dry), 0 (moderately dry), 1 (moderately fresh), 2 (fresh), 3 (very fresh), 4 (moderately moist), 5 (moist), 6 (very moist), 7 (moderately wet - organic), 8 (wet - organic), 9 (very wet - organic) |
|---------------------------|---------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|---------------------------|---------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Moisture regime classification codes from Very Dry (Theta) to Very Wet (9).

| SUBSTRATE_COMMENTS | VARCHAR2 No | SUB_COMM |
|--------------------|-------------|----------|
|--------------------|-------------|----------|

(254)

Noteworthy comments about the substrate. e.g. ?observation occurs on sand, but there is an underlying lens of clay?

|                            |                     |            |                                                                                                                                                |
|----------------------------|---------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>UNVEGETATED_SURFACE</b> | VARCHAR2 No<br>(50) | UNVEG_SURF | Bedrock, Large Rocks (cobbles and boulders), Small Rocks (gravel), Sand, Bare Soil (minerauorganic), Litter and Duff, Wood, Water, Unspecified |
|----------------------------|---------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------|

Description of the unvegetated surface present in the observation. ----- Valid Values --- Bedrock: Sheets of rock exposed at the surface. --- Large Rocks (Cobbles and Boulders): Particles greater than 10 cm in diameter. --- Small Rocks (Gravel): Particles between 0.2 and 10 cm in diameter. --- Sand: Particles between 0.1 and 2 mm in diameter. --- Bare Soil (Minerauorganic): Particles < 0.1 mm in diameter. --- Litter and Duff: Litter includes freshly-fallen leaves, needles, twigs, bark, and fruits. Duff is fermentation layer and humus layer (organic horizon). --- Wood: Downed fragments greater than 1 cm. --- Water --- Unspecified

|                                     |                     |           |                                                                                                                                              |
|-------------------------------------|---------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>UNVEGETATED_SURFACE_COVERAGE</b> | VARCHAR2 No<br>(50) | UNVEG_COV | 4 (60-100 percent), 3 (25-50 percent), 2 (10-25 percent), 1 (0-10 percent), Present: (coverage unknown, strata present), NC: (not collected) |
|-------------------------------------|---------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------|

Percent cover area of unvegetated surface recorded using a cover class value.

|                          |                      |            |
|--------------------------|----------------------|------------|
| <b>LAND_USE_COMMENTS</b> | VARCHAR2 No<br>(500) | L_USE_COMM |
|--------------------------|----------------------|------------|

Text describing current land use practices on and adjacent to the site.

|                                    |                      |            |
|------------------------------------|----------------------|------------|
| <b>ANTHROPOGENIC_DIST_COMMENTS</b> | VARCHAR2 No<br>(500) | ANTHR_DIST |
|------------------------------------|----------------------|------------|

Text to describe any important anthropogenic disturbances to the observed Plant Community observation. This can include information on human activities effecting vegetation or ground cover disturbance, as well as disturbance history if known, logging, fire, etc.

|                                     |                      |         |
|-------------------------------------|----------------------|---------|
| <b>NATURAL_DISTURBANCE_COMMENTS</b> | VARCHAR2 No<br>(500) | DISTURB |
|-------------------------------------|----------------------|---------|

Text to describe any important natural disturbances to the observed Vegetation observation. This can include information on vegetation disturbance such as by treefall, animal use evidence, storms etc.

|                |                      |         |
|----------------|----------------------|---------|
| <b>THREATS</b> | VARCHAR2 No<br>(500) | THREATS |
|----------------|----------------------|---------|

Text describing possible sources of danger to the observed Plant Community and surrounding area.

|                            |                       |           |
|----------------------------|-----------------------|-----------|
| <b>MANAGEMENT_COMMENTS</b> | VARCHAR2 No<br>(1000) | MGMT_COMM |
|----------------------------|-----------------------|-----------|

Comments about the management actions which would be of benefit to the observed Plant Community at this location.

|                            |                       |           |
|----------------------------|-----------------------|-----------|
| <b>PROTECTION_COMMENTS</b> | VARCHAR2 No<br>(1000) | PROT_COMM |
|----------------------------|-----------------------|-----------|

Comments about the level of protection provided or required for the site.

|                             |                       |          |
|-----------------------------|-----------------------|----------|
| <b>OBSERVATION_COMMENTS</b> | VARCHAR2 No<br>(1000) | OBS_COMM |
|-----------------------------|-----------------------|----------|

Any additional general comments about this observation.

|                      |                      |            |
|----------------------|----------------------|------------|
| <b>SEARCH_EFFORT</b> | VARCHAR2 No<br>(254) | SEARCH_EFF |
|----------------------|----------------------|------------|

The search effort expended for the observation. May include qualitative comments (e.g part of the morning) or a quantitative assessment (e.g. number of person-hours).

|                        |             |           |
|------------------------|-------------|-----------|
| <b>SEARCH_ADEQUACY</b> | VARCHAR2 No | SEARCH_AD |
|------------------------|-------------|-----------|

(500)

Comments on variables that might have affected the outcome of the search, including thoroughness, habitat, methods, environment, observer experience, ease of detection, and timing.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                   |     |            |                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----|------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>SEARCH_RESULT_IND</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | VARCHAR2<br>(3)   | No  | SEARCH_RES | Yes, No                                                                                                                         |
| Indicates if the vegetation being searched for was found during this visit. Where the value is: Yes - The species or evidence of the species was found, resulting in a positive species observation. ----- No - No sign of the species was found, resulting in a negative observation. An example of a valid negative observation would be returning to a site where the Plant Community had been seen regularly in the past, but no sign of it was found during the current visit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |     |            |                                                                                                                                 |
| <b>SPECIES_PROJECT_ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | NUMBER<br>(13,0)  | No  | PROJECT_ID |                                                                                                                                 |
| Foreign key link from SPECIES_PROJECT.FMF_OBJECT_ID ----- Allows a user to make a reference to a project that the observation is associated to.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                   |     |            |                                                                                                                                 |
| <b>NHIC_OBSERVATION_IDENT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | VARCHAR2<br>(20)  | No  | OBS_IDENT  |                                                                                                                                 |
| This field is intended for NHIC Use Only ----- An identifier populated by NHIC for each observation e.g. AY123.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                   |     |            |                                                                                                                                 |
| <b>NHIC_REVIEW_STATUS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | VARCHAR2<br>(40)  | No  | REV_STATUS | Pending, EO Candidate,<br>Processed - Linked to EO,<br>Processed - Not Linked to<br>EO, Processed -<br>Observation Not Accepted |
| This field is intended for NHIC Use Only ----- The status of NHIC review and import of the observation into an Element Occurrence (EO) into the NHIC database. These are described as: --- Pending: All observations, submitted by field staff (the default value for the field when a record is entered) --- EO Candidate: A record has had a preliminary NHIC review and will be evaluated as part of an Element Occurrence (EO) at a later date. --- Processed - Linked to EO: Will also have EO_ID populated as reference. --- Processed - Not Linked to EO: Valid observation of Provincially Tracked Species, but does not meet EO specs --- Processed - Observation Not Accepted: May be for a number of reasons, insufficient data, questionable record etc. Rationale to be provided in another field. In some circumstances these may be promoted into the other "processed" categories with the addition of more information. ----- DEFAULT: Pending ----- Refer to User Guide for additional details.                                                                                                                                                                                                                                                        |                   |     |            |                                                                                                                                 |
| <b>NHIC_IMPORT_DATE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | DATE              | No  | IMPORT_DT  |                                                                                                                                 |
| This field is intended for NHIC Use Only ----- The calendar date that the field reported species observation was evaluated by NHIC. ----- Note: This field will only be populated if the Import Status is other than "Pending".                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                   |     |            |                                                                                                                                 |
| <b>NHIC_IMPORT_COMMENTS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | VARCHAR2<br>(254) | No  | IMPORT_COM |                                                                                                                                 |
| This field is intended for NHIC Use Only ----- Additional comments and rationale by NHIC staff describing the import status of the reported species observation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |     |            |                                                                                                                                 |
| <b>SENSITIVITY_CLASS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | VARCHAR2<br>(15)  | Yes | SENS_CLASS | High, Medium, Low, Non-Sensitive                                                                                                |
| The ranking of the sensitivity of the information embodied in the feature. Often wide-spread knowledge of the location of some rare aspect of our natural heritage will endanger it. On the other hand, this knowledge by some parties is also extremely important for its protection. High - information that is extremely sensitive and intended for use by named individuals only. Refers to information that could have negative impacts on human life or health if released. Currently no data classes meet this Medium - information that is sensitive and intended for use only by specified groups of employees and approved agents of the Crown. For OLIW/NRVIS refers to information where the entire data type has been flagged as sensitive (i.e. Stick Nests for Vulnerable Threatened and Endangered (VTE) species) Low - information generally available to employees and approved agents of the Crown. Refers to sensitive features within a data type not normally sensitive (i.e. specific instances of Pileated Wood pecker) Non-Sensitive - data and information that does not fall into any of the three sensitivity levels. If disclosed will not result in any injury to individuals, government or private sector institutions (i.e. base data). |                   |     |            |                                                                                                                                 |
| <b>SENSITIVITY_RATIONALE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | VARCHAR2<br>(50)  | Yes | SENS_RAT   | VTE Species, Data<br>Provider Agreement, No<br>Restriction Needed,                                                              |

Protect Feature Type,  
Protect Single Feature,  
Legislative or Legal Reqt,  
Other

The primary reason for the information sensitivity classification. Examples: "VTE Species", "Data Provider Agreement", "No Restriction Needed" (for Non-Sensitive data ), "Protect Feature Type", "Protect Single Feature", "Legislative or Legal Reqt", "Cultural Heritage Site", "Other". Note: For Species at Risk (SAR) features, please use "Legislative or Legal Reqt" as a rationale.

|                                 |      |    |            |
|---------------------------------|------|----|------------|
| <b>GEOMETRY_UPDATE_DATETIME</b> | DATE | No | GEO_UPD_DT |
|---------------------------------|------|----|------------|

Date/time the geometry was created or last modified in the source database.

|                           |      |     |          |
|---------------------------|------|-----|----------|
| <b>EFFECTIVE_DATETIME</b> | DATE | Yes | EFF_DATE |
|---------------------------|------|-----|----------|

Date/time the record was created or last modified in the source database.

## PC\_OBS\_AND\_SPECIES\_DOC\_REF

Intersect table between PLANT COMMUNITY OBSERVATION and SPECIES DOCUMENT REFERENCE which allows multiple referencing of Plant Community Observations to documents such as standards, protocols, maps, photos taken during observations etc.

| Column Name | Column Type | Mandatory | Short Name | Valid Values |
|-------------|-------------|-----------|------------|--------------|
|-------------|-------------|-----------|------------|--------------|

|                          |               |     |           |  |
|--------------------------|---------------|-----|-----------|--|
| <b>PC_OBSERVATION_ID</b> | NUMBER (13,0) | Yes | PC_OBS_ID |  |
|--------------------------|---------------|-----|-----------|--|

Foreign Key to the parent Species Observation Detail table record. ----- System-generated object identifier, unique at the application level.

|                                      |               |     |            |  |
|--------------------------------------|---------------|-----|------------|--|
| <b>SPECIES_DOCUMENT_REFERENCE_ID</b> | NUMBER (13,0) | Yes | DOC_REF_ID |  |
|--------------------------------------|---------------|-----|------------|--|

Foreign Key from SPECIES DOCUMENT REFERENCE parent table record. ----- System generated identifier, unique at the application level.

|                           |      |     |          |
|---------------------------|------|-----|----------|
| <b>EFFECTIVE_DATETIME</b> | DATE | Yes | EFF_DATE |
|---------------------------|------|-----|----------|

Date/time the record was created or last modified in the source database.

## PC\_OBS\_NAME\_SECURE

This secure table identifies the name of the individual or party who reported or has knowledge of the observation. This table is Secure in order to ensure that access to this information is limited to authorized parties only and is compliant to the Freedom of Information and Protection of Privacy Act (FIPPA) guidelines.

| Column Name | Column Type | Mandatory | Short Name | Valid Values |
|-------------|-------------|-----------|------------|--------------|
|-------------|-------------|-----------|------------|--------------|

|                          |               |     |           |  |
|--------------------------|---------------|-----|-----------|--|
| <b>PC_OBSERVATION_ID</b> | NUMBER (13,0) | Yes | PC_OBS_ID |  |
|--------------------------|---------------|-----|-----------|--|

Foreign key value from PC Observation Detail:Fmf Object Id.

|                      |                |     |          |  |
|----------------------|----------------|-----|----------|--|
| <b>OBSERVER_NAME</b> | VARCHAR2 (100) | Yes | OBSERVER |  |
|----------------------|----------------|-----|----------|--|

Where it is known, the full name of the person(s) who reported or have knowledge of the observation.

|                           |      |     |          |
|---------------------------|------|-----|----------|
| <b>EFFECTIVE_DATETIME</b> | DATE | Yes | EFF_DATE |
|---------------------------|------|-----|----------|

Date/time the record was created or last modified in the source database.

## PC\_OBS\_NOTABLE\_SPECIES

A notable or tracked species for a specific Plant Community observation. A notable species can be an invasive species, species of interest, or tracked species. For a tracked species, it is possible to link the Plant Community observation to a specific tracked species observation.

| Column Name                                                                                                                                                                                              | Column Type     | Mandatory | Short Name | Valid Values                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------|------------|-----------------------------------------------------------------------------|
| <b>PC_OBSERVATION_ID</b>                                                                                                                                                                                 | NUMBER (13,0)   | Yes       | PC_OBS_ID  |                                                                             |
| Foreign key link from PC Observation Detail.                                                                                                                                                             |                 |           |            |                                                                             |
| <b>SPECIES_ELEMENT_ID</b>                                                                                                                                                                                | NUMBER (13,0)   | Yes       | ELEMENT_ID | 0, 1000, 10000, 100000, 100002, 100004, ... (See SPECIES_MASTER_LIST table) |
| A business value that uniquely identifies a specific species according to a recognized standard within Natural Heritage Information Centre (NHIC) databases. ----- NHIC database: ELEMENT_SUBNATIONAL_ID |                 |           |            |                                                                             |
| <b>SPECIES_OBSERVATION_DETAIL_ID</b>                                                                                                                                                                     | NUMBER (13,0)   | Yes       | OBS_DET_ID |                                                                             |
| System generated identifier, unique at the application level.                                                                                                                                            |                 |           |            |                                                                             |
| <b>NUMBER_OBSERVED</b>                                                                                                                                                                                   | NUMBER (5,0)    | No        | NUMBER_OBS |                                                                             |
| Number of specimens for each species observed.                                                                                                                                                           |                 |           |            |                                                                             |
| <b>COUNT_ACCURACY_FLG</b>                                                                                                                                                                                | VARCHAR2 (15)   | No        | COUNT_ACC  | Estimate, Actual                                                            |
| Indicates whether the number observed is an estimate or actual count                                                                                                                                     |                 |           |            |                                                                             |
| <b>OBSERVED</b>                                                                                                                                                                                          | VARCHAR2 (15)   | No        | OBSERVED   |                                                                             |
| The element observed. I.e. Males, Females, Breeding Pairs, etc                                                                                                                                           |                 |           |            |                                                                             |
| <b>NOTABLE_SPECIES_COMMENTS</b>                                                                                                                                                                          | VARCHAR2 (2000) | No        | COMMENTS   |                                                                             |
| Text for a notable or tracked species related to a Plant Community observation.                                                                                                                          |                 |           |            |                                                                             |
| <b>EFFECTIVE_DATETIME</b>                                                                                                                                                                                | DATE            | Yes       | EFF_DATE   |                                                                             |
| Date/time the record was created or last modified in the source database.                                                                                                                                |                 |           |            |                                                                             |

#### **PC\_OBS\_ORIGINAL\_COORD**

Stores any positional-type coordinates that were documented at the time the observation was made. Coordinates are often included with historical observation records.

| Column Name                                                                                                                                                                                                                                       | Column Type   | Mandatory | Short Name | Valid Values                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------|------------|--------------------------------------------|
| <b>PC_OBSERVATION_ID</b>                                                                                                                                                                                                                          | NUMBER (13,0) | Yes       | PC_OBS_ID  |                                            |
| System generated identifier, unique at the application level.                                                                                                                                                                                     |               |           |            |                                            |
| <b>ORIG_COORDS_SOURCE</b>                                                                                                                                                                                                                         | VARCHAR2 (25) | Yes       | ORIG_COORD | GPS, NTS, OBM, On-screen Digitizing, Other |
| Identifies the original source used to capture the coordinates required to map this feature. ----- Note: If "Other" is selected, it should be described in the "Original Coordinates Comment" field.                                              |               |           |            |                                            |
| <b>HORIZONTAL_DATUM</b>                                                                                                                                                                                                                           | VARCHAR2 (10) | No        | H_DATUM    | NAD27, NAD27adj74, NAD83, WGS84            |
| Identifies the reference system used for defining the coordinates of points. There are three common horizontal datum systems used in Ontario: WGS84, NAD83, NAD27, NAD27 and NAD27 with 1974 adjustment. The datum models the shape of the earth. |               |           |            |                                            |
| <b>UTM_ZONE</b>                                                                                                                                                                                                                                   | NUMBER (2,0)  | No        | UTM_ZONE   | 15, 16, 17, 18                             |

A geographic reference zone within the province. Ontario is divided into 4 Universal Transverse Mercator (UTM) zones (15 to 18) from west to east.

|                                                                                                                                                                                                           |                   |     |            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----|------------|
| <b>UTM_EAST</b>                                                                                                                                                                                           | NUMBER<br>(9,3)   | No  | UTM_EAST   |
| The distance, in metres, from the central meridian of the zone. The central meridian receives a false easting of 500,000 metres.                                                                          |                   |     |            |
| <b>UTM_NORTH</b>                                                                                                                                                                                          | NUMBER<br>(10,3)  | No  | UTM_NORTH  |
| The distance, in metres, from the equator.                                                                                                                                                                |                   |     |            |
| <b>LATITUDE</b>                                                                                                                                                                                           | NUMBER<br>(10,5)  | No  | LATITUDE   |
| The latitude of the feature in decimal degrees. For example: 79.12345                                                                                                                                     |                   |     |            |
| <b>LONGITUDE</b>                                                                                                                                                                                          | NUMBER<br>(10,5)  | No  | LONGITUDE  |
| The longitude of the centroid of the polygon in decimal degrees. For example: -80.12345 -----<br>Note: In Ontario, the longitude shall always be stored as a negative value as seen in the example above. |                   |     |            |
| <b>ORIG_COORDS_COMMENT</b>                                                                                                                                                                                | VARCHAR2<br>(200) | No  | ORIG_COORD |
| Comments about the coordinates and/or source including: - Further details when the "Original Coordinates Source" field value is "Other" and/or - Device details e.g. GPS Model, unit accuracy.            |                   |     |            |
| <b>EFFECTIVE_DATETIME</b>                                                                                                                                                                                 | DATE              | Yes | EFF_DATE   |
| Date/time the record was created or last modified in the source database.                                                                                                                                 |                   |     |            |

## **PC\_OBS\_SPECIES\_COMPOSITION**

The dominant or major species that characterizes a Plant Community observation.

| Column Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Column Type      | Mandatory | Short Name | Valid Values                                                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PC_OBSERVATION_ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NUMBER<br>(13,0) | Yes       | PC_OBS_ID  |                                                                                                                                                                                        |
| Foreign key link from Plant Community Observation                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                  |           |            |                                                                                                                                                                                        |
| <b>SPECIES_ELEMENT_ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | NUMBER<br>(13,0) | Yes       | ELEMENT_ID | 0, 1000, 10000, 100000, 100002, 100004, ...<br>(See SPECIES_MASTER_LIST table)                                                                                                         |
| A business value that uniquely identifies a specific species, or an assemblage of species such as plant communities and wildlife concentration areas according to a recognized standard within Natural Heritage Information Centre (NHIC) databases. ----- NHIC database: ELEMENT_SUBNATIONAL_ID                                                                                                                                                                                                  |                  |           |            |                                                                                                                                                                                        |
| <b>STRATUM</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | VARCHAR2<br>(30) | Yes       | STRATUM    | Emergent Tree (Super Canopy), Tree Canopy, Tree Sub-Canopy, Tall Shrub (2-5m), Short Shrub (0.5-2m), Dwarf Shrub (0.1-0.5m), Graminoid, Forb, Fern, Non-Vascular, Epiphyte, Vine/Liana |
| A stratum is defined as a combination of life-form and height, e.g. a tall shrub stratum is defined by the shrub life-form that is between 2 and 5 m tall. Seedlings and saplings should be placed in the layer having the same height class. To be considered a strata, a vegetation layer must have a minimum of 10% cover. ----- Valid Values: Emergent Tree (Super Canopy) --- Tree Canopy --- Tree Sub-Canopy --- Tall Shrub (2-5m) --- Short Shrub (0.5-2m) --- Dwarf Shrub ( 0.1-0.5m) --- |                  |           |            |                                                                                                                                                                                        |

Graminoid --- Forb --- Fern --- Non-Vascular --- Epiphyte --- Vine/Liana

|                       |          |     |                 |               |
|-----------------------|----------|-----|-----------------|---------------|
| <b>DOMINANCE_RANK</b> | VARCHAR2 | Yes | <b>DOM_RANK</b> | 1, 2, 3, 4, 5 |
|                       | (1)      |     |                 |               |

Ordinal value for the dominance of a species at any particular stratum. If there are more than five "co-dominants" in a given layer, list (at minimum) the five with the greatest cover. You may enter as many species in addition to the five most abundant as is practical. It is acceptable to have a species listed in more than one strat a. Values: 1 - 5 with the number one being the highest dominance.

|                         |        |    |                |
|-------------------------|--------|----|----------------|
| <b>PERCENT_COVERAGE</b> | NUMBER | No | <b>PCT_COV</b> |
|                         | (3,0)  |    |                |

The percent coverage of a species at the stratum or layer.

|                            |          |    |                  |
|----------------------------|----------|----|------------------|
| <b>COMPOSITION_COMMENT</b> | VARCHAR2 | No | <b>COMP_COMM</b> |
|                            | (254)    |    |                  |

Text describing any special feature for a species at the recorded stratum.

|                           |      |     |                 |
|---------------------------|------|-----|-----------------|
| <b>EFFECTIVE_DATETIME</b> | DATE | Yes | <b>EFF_DATE</b> |
|---------------------------|------|-----|-----------------|

Date/time the record was created or last modified in the source database.

## PC\_OCC\_AND\_OBS

Intersect table between Plant Community Occurrence and Plant Community Observation table. A species occurrence is defined from one or more species observations. ---- Rule: The association between a Plant Community Occurrence feature and a Plant Community Observation can only be accomplished for NHIC evaluated Observation Records where an NHIC Observation Identifier has been assigned.

| Column Name | Column Type | Mandatory | Short Name | Valid Values |
|-------------|-------------|-----------|------------|--------------|
|-------------|-------------|-----------|------------|--------------|

|                         |        |     |                  |
|-------------------------|--------|-----|------------------|
| <b>PC_OCCURRENCE_ID</b> | NUMBER | Yes | <b>PC_OCC_ID</b> |
|                         | (13,0) |     |                  |

A unique identifier assigned to each provincially tracked Plant Community occurrence.

|                          |        |     |                  |
|--------------------------|--------|-----|------------------|
| <b>PC_OBSERVATION_ID</b> | NUMBER | Yes | <b>PC_OBS_ID</b> |
|                          | (13,0) |     |                  |

System generated identifier, unique at the application level.

|                           |      |     |                 |
|---------------------------|------|-----|-----------------|
| <b>EFFECTIVE_DATETIME</b> | DATE | Yes | <b>EFF_DATE</b> |
|---------------------------|------|-----|-----------------|

Date/time the record was created or last modified in the source database.

## PLANT\_COMMUNITY\_LIST

A lookup list of the plant communities based on the existing vegetation classifications that have been developed by OMNR for northern (Forest Ecosystem Classifications) and southern Ontario (Ecological Land Classification). ----- The hierarchy of detail for a classification system from lowest to highest level of detail is: ----- System, Community Class, Community Series, Ecosite, Vegetation Type (aka ELC or FEC type). The Plant Community layer uses the Vegetation Type as the mapping unit. ----- e.g. #1 The Ecological Land Classification system for Southern Ontario (ELC) outlines this hierarchy as: ----- Community Class: Forest (FO), Community Series: Deciduous Forest (FOD), Ecosite: Fresh - Moist Sugar Maple Deciduous Forest Ecosite (FOD6) Vegetation Type: Fresh - Moist Sugar Maple - Yellow Birch Deciduous Forest Ecosite (FOD6-3) e.g. #2: The Forest Ecosystems of Central Ontario (FEC) hierarchy follows: Community Class: Not Identified Community Series: Not Identified Ecosite: Sugar Sugar Maple - Yellow Birch Fresh to Moist (ES29.2) Vegetation Type: Sugar Maple - Yellow Birch (V10) ----- Community Class/Series are identified in the FEC field guides; however, V10 can be nested within the Deciduous Forest Series and Forest Class.

| Column Name | Column Type | Mandatory | Short Name | Valid Values |
|-------------|-------------|-----------|------------|--------------|
|-------------|-------------|-----------|------------|--------------|

|                     |          |     |                 |
|---------------------|----------|-----|-----------------|
| <b>ELC_FEC_CODE</b> | VARCHAR2 | Yes | <b>FEC_CODE</b> |
|---------------------|----------|-----|-----------------|

(10)

The plant community classification code used by a classification system. This represents a classified plant community at the finest or most detailed level for that classification system.

|                                                                                                                                                                                                                                                                                                             |                    |     |                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----|---------------------------------------------------------------------------------------------|
| <b>PLANT_COMMUNITY_ELEMENT_ID</b>                                                                                                                                                                                                                                                                           | NUMBER<br>(13,0)   | Yes | PLANT_COMM                                                                                  |
| A business value that uniquely identifies a specific species, or an assemblage of species such as vegetation communities and wildlife concentration areas according to a recognized standard within Natural Heritage Information Centre (NHIC) databases. ----- NHIC database field: ELEMENT_SUBNATIONAL_ID |                    |     |                                                                                             |
| <b>SCI_NAME</b>                                                                                                                                                                                                                                                                                             | VARCHAR2<br>(254)  | Yes | SCI_NAME                                                                                    |
| Plant Communities are named on the basis of the dominant overstory and understory plant species present. This is the name of the plant community using the scientific names of these plants. ----- NHIC database field: SCI_NAME                                                                            |                    |     |                                                                                             |
| <b>COM_NAME</b>                                                                                                                                                                                                                                                                                             | VARCHAR2<br>(254)  | Yes | COM_NAME                                                                                    |
| Plant Communities are named on the basis of the dominant overstory and understory plant species present. This is the name of the plant community using the English names of these plants. ----- NHIC database field: COM_NAME                                                                               |                    |     |                                                                                             |
| <b>SYSTEM_TYPE</b>                                                                                                                                                                                                                                                                                          | VARCHAR2<br>(18)   | Yes | SYSTEM_TYP<br>Terrestrial,<br>Wetland,<br>Freshwater<br>Aquatic,<br>Subterranean,<br>Marine |
| The upper-most organizational level in a vegetation classification system, primarily based on the amount and type of water affecting the structure and composition of the vegetation.                                                                                                                       |                    |     |                                                                                             |
| <b>GLOBAL_RANK</b>                                                                                                                                                                                                                                                                                          | VARCHAR2<br>(15)   | Yes | GRANK                                                                                       |
| Global conservation rank maintained by NatureServe.                                                                                                                                                                                                                                                         |                    |     |                                                                                             |
| <b>NATIONAL_RANK</b>                                                                                                                                                                                                                                                                                        | VARCHAR2<br>(15)   | No  | NRANK                                                                                       |
| National conservation rank maintained by NatureServe Canada.                                                                                                                                                                                                                                                |                    |     |                                                                                             |
| <b>SUBNATIONAL_RANK_CODE</b>                                                                                                                                                                                                                                                                                | VARCHAR2<br>(15)   | Yes | SRANK                                                                                       |
| Ontario subnational conservation rank maintained by NHIC.                                                                                                                                                                                                                                                   |                    |     |                                                                                             |
| <b>CLASSIFICATION_SOURCE</b>                                                                                                                                                                                                                                                                                | VARCHAR2<br>(60)   | Yes | CLASS_SRC                                                                                   |
| Abbreviated classification system's source name or code.                                                                                                                                                                                                                                                    |                    |     |                                                                                             |
| <b>COMMUNITY_CLASS_CODE</b>                                                                                                                                                                                                                                                                                 | VARCHAR2<br>(10)   | Yes | CLASS_C                                                                                     |
| Code used by the ecological classification system to identify a Community Class.                                                                                                                                                                                                                            |                    |     |                                                                                             |
| <b>COMMUNITY_SERIES_CODE</b>                                                                                                                                                                                                                                                                                | VARCHAR2<br>(10)   | Yes | SERIES_C                                                                                    |
| Code used by the ecological classification system to identify a Community Series.                                                                                                                                                                                                                           |                    |     |                                                                                             |
| <b>ECOSITE_CODE</b>                                                                                                                                                                                                                                                                                         | VARCHAR2<br>(10)   | No  | ECOSITE_C                                                                                   |
| Code used by the ecological classification system to identify an Ecosite.                                                                                                                                                                                                                                   |                    |     |                                                                                             |
| <b>PLANT_COMMUNITY_CHARACTERISTIC</b>                                                                                                                                                                                                                                                                       | VARCHAR2<br>(2000) | No  | PLANT_COMM                                                                                  |
| Text describing the characteristics known for a classified Plant Community.                                                                                                                                                                                                                                 |                    |     |                                                                                             |

|                           |      |     |          |
|---------------------------|------|-----|----------|
| <b>EFFECTIVE_DATETIME</b> | DATE | Yes | EFF_DATE |
|---------------------------|------|-----|----------|

Date/time the record was created or last modified in the source database.

|                        |      |    |          |
|------------------------|------|----|----------|
| <b>EXPIRY_DATETIME</b> | DATE | No | EXP_DATE |
|------------------------|------|----|----------|

Date/time that the record was expired from use.

## **SPECIES\_DOCUMENT\_REFERENCE**

Non-spatial Editable Table: Stores details about a document referenced by a feature e.g. Title, Author, Publication Year, Location etc. This can include standards, procedures, protocols, maps etc.

| Column Name                                                   | Column Type      | Mandatory | Short Name | Valid Values                                                                                                                                                                            |
|---------------------------------------------------------------|------------------|-----------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>OGF_ID</b>                                                 | NUMBER<br>(13,0) | Yes       | OGF_ID     |                                                                                                                                                                                         |
| System generated identifier, unique at the application level. |                  |           |            |                                                                                                                                                                                         |
| <b>DOCUMENT_TYPE</b>                                          | VARCHAR2<br>(25) | Yes       | DOC_TYPE   | Miscellaneous, Project Management, Report, Standards and Methods, Protocol, Map-OBM, Map-NTS, Map-Other, Photograph, Project Portfolio, Audio, Data Collection Form, Field Notes, Video |

Identifies the document type that is being referenced such as a report, standards and methods, protocols and miscellaneous documentation such as maps. ----- Note: Choose "Project Portfolio" where several document types are bundled together for a project.

|              |                   |     |       |
|--------------|-------------------|-----|-------|
| <b>TITLE</b> | VARCHAR2<br>(254) | Yes | TITLE |
|--------------|-------------------|-----|-------|

The title of the document or publication. It can be abbreviated if the original title is very long. Example for MRD001: Black River Matheson (BRIM) Data, 1989. ----- For maps, the tile or map reference identifier can be documented in this field e.g. "NTS KIRKLAND LAKE 42 A/1"

|               |                  |    |        |
|---------------|------------------|----|--------|
| <b>AUTHOR</b> | VARCHAR2<br>(80) | No | AUTHOR |
|---------------|------------------|----|--------|

The name of the organization or individual who authored the document or publication.

|                         |                 |    |          |
|-------------------------|-----------------|----|----------|
| <b>PUBLICATION_YEAR</b> | NUMBER<br>(4,0) | No | PUB_YEAR |
|-------------------------|-----------------|----|----------|

The year when the reference was published or otherwise released. Example: 1992

|                               |                   |    |          |
|-------------------------------|-------------------|----|----------|
| <b>PUBLISHING_INFORMATION</b> | VARCHAR2<br>(150) | No | PUB_INFO |
|-------------------------------|-------------------|----|----------|

The name of the journal, publisher, technical report series and page numbers if applicable.

|                  |                  |    |           |
|------------------|------------------|----|-----------|
| <b>MAP_SCALE</b> | VARCHAR2<br>(15) | No | MAP_SCALE |
|------------------|------------------|----|-----------|

Where applicable, the scale of the reference map e.g. 1:50,000.

|                          |                   |    |         |
|--------------------------|-------------------|----|---------|
| <b>DOCUMENT_LOCATION</b> | VARCHAR2<br>(254) | No | DOC_LOC |
|--------------------------|-------------------|----|---------|

Identifies the physical location of the referenced document. If the document is digital and is available online, the url to the document or its location can be stored in this field.

|                             |                 |    |           |         |
|-----------------------------|-----------------|----|-----------|---------|
| <b>PACKAGED_PRODUCT_IND</b> | VARCHAR2<br>(3) | No | PACK_PROD | Yes, No |
|-----------------------------|-----------------|----|-----------|---------|

A Yes/No indicator whether the document is stored and available in the Land Information Ontario Warehouse as a packaged product.

|                         |                       |         |
|-------------------------|-----------------------|---------|
| <b>GENERAL_COMMENTS</b> | VARCHAR2 No<br>(2000) | GNL_CMT |
|-------------------------|-----------------------|---------|

General comments about the reference document.

|                           |      |     |          |
|---------------------------|------|-----|----------|
| <b>EFFECTIVE_DATETIME</b> | DATE | Yes | EFF_DATE |
|---------------------------|------|-----|----------|

Date/time the record was created or last modified in the source database.

## SPECIES\_MASTER\_LIST

A master listing of all Ontario fauna and flora that are of interest to the Ontario Ministry of Natural Resources. A unique Element Id is assigned to each element that identifies either: - a specific species / subspecies / variety. - a grouping or category of species e.g. at the Family or Genus level. Where applicable, various element significance rankings (e.g. Sensitivity, Provincially Tracked, COSEWIC Status, SARA Status etc.) are included in this master list. --- Note: The Species Master List is used exclusively by NRVIS / LIO and is derived and updated from the Natural Heritage Information Centre master species listings.

| Column Name               | Column Type      | Mandatory | Short Name | Valid Values |
|---------------------------|------------------|-----------|------------|--------------|
| <b>SPECIES_ELEMENT_ID</b> | NUMBER<br>(13,0) | Yes       | ELEMENT_ID |              |

A business value that uniquely identifies a specific species, or an assemblage of species such as vegetation communities and wildlife concentration areas according to a recognized standard within Natural Heritage Information Centre (NHIC) databases. ----- NHIC database: ELEMENT\_SUBNATIONAL\_ID

|               |                      |        |
|---------------|----------------------|--------|
| <b>ELCODE</b> | VARCHAR2 No<br>(254) | ELCODE |
|---------------|----------------------|--------|

Assigned by NatureServe, the value in this field can be used to filter out species groupings such as bird species, fish species etc. These codes change as the species classification changes, and should not be used as a long-term species code. For a unique species ID, Element ID should be used. ----- NHIC database field: ELCODE

|                 |                       |          |
|-----------------|-----------------------|----------|
| <b>SCI_NAME</b> | VARCHAR2 Yes<br>(254) | SCI_NAME |
|-----------------|-----------------------|----------|

The scientific name of the organism which identifies the genus and species. ----- NHIC database field: SCI\_NAME

|                 |                     |          |
|-----------------|---------------------|----------|
| <b>COM_NAME</b> | VARCHAR2 No<br>(75) | COM_NAME |
|-----------------|---------------------|----------|

The common name assigned to a species, a group of species, or a community. The common name may describe category levels such as species, subspecies, hybrids, varieties, families, genus, and communities. Note: As the common name may be generically described, users should also refer to the Scientific Name to ensure that the proper master species list record is selected and / or associated to. ----- NHIC database field: COM\_NAME

|                    |                     |           |
|--------------------|---------------------|-----------|
| <b>TAXON_GROUP</b> | VARCHAR2 No<br>(40) | TAXON_GRP |
|--------------------|---------------------|-----------|

The taxon group reference assigned to an element by the Natural Heritage Information Centre (NHIC). For example "Fish", "Amphibians", "Birds", "Trees", "Shrubs" etc.

|                              |                      |          |                               |
|------------------------------|----------------------|----------|-------------------------------|
| <b>REC_SENSITIVITY_CLASS</b> | VARCHAR2 Yes<br>(15) | REC_SENS | Low, Medium,<br>Non-Sensitive |
|------------------------------|----------------------|----------|-------------------------------|

Identifies the recommended Data Sensitivity Class for a species that should be applied by the user for any associated feature e.g. observations. The Sensitivity Classes are Low, Medium and Non-Sensitive. ----- Note-1: Data protection for an identified species is normally applicable for mapped features pinpointing a narrow geographical area vs. a generalized area. For example, access to the spatial and attribute data for a SAR nesting site location would be controlled, whereas a mapped Habitat Range for the same species would not require the same level of data protection as it covers a large geographical area. --- Note-2: the recommended sensitivity for a species will be displayed to the user when they choose a species from the Species Master List. It will up to the discretion of the editor to manually flag the feature with the appropriate sensitivity class.

|                         |                    |                   |
|-------------------------|--------------------|-------------------|
| <b>NHIC_TRACKED_IND</b> | VARCHAR2 No<br>(1) | NHIC_TRACK Y, N,P |
|-------------------------|--------------------|-------------------|

A "Yes" or "No" indicator assigned by NHIC if the identified species is provincially tracked or not. --  
 --- The value is stored as a single character where: Y = Yes N = No ----- Note: Species identified  
 as being Provincially Tracked are assigned an MNR Sensitivity Ranking of "Medium" to control data  
 access and security associated with the precise-scale mapped locations of features e.g. Bald Eagle  
 Nesting Site. ----- NHIC database field: TRACKED

|                           |                    |                |
|---------------------------|--------------------|----------------|
| <b>NHIC_SENSITIVE_IND</b> | VARCHAR2 No<br>(1) | NHIC_SENS Y, N |
|---------------------------|--------------------|----------------|

A "Yes" or "No" indicator assigned by NHIC if the identified species is assigned a higher sensitivity  
 within the listing of rare and / or at risk species e.g. Ginseng, Wood Turtle. ----- The value is  
 stored as a single character where: Y = Yes N = No ----- Please refer to the NHIC website for  
 current standards relating to the use of species and individual element occurrences marked as  
 sensitive. ----- NHIC database field: SENS\_IND

|                         |                    |                |
|-------------------------|--------------------|----------------|
| <b>MNR_INVASIVE_IND</b> | VARCHAR2 No<br>(1) | MNR_INVAS Y, N |
|-------------------------|--------------------|----------------|

A "Yes" or "No" indicator if a species is considered "invasive" by the Ontario Ministry of Natural  
 Resources (OMNR), including invasive species, meaning it is having a destructive effect on other  
 native species within its habitat. This indicator is maintained by Natural Heritage Information  
 Centre (NHIC) staff. ----- The value is stored as a single character where: Y = Yes N = No -----  
 NHIC database field: PEST

|                       |                     |         |
|-----------------------|---------------------|---------|
| <b>COSEWIC_STATUS</b> | VARCHAR2 No<br>(15) | COSEWIC |
|-----------------------|---------------------|---------|

A COSEWIC (Committee on the Status of Endangered Wildlife in Canada) status is the result of a  
 detailed assessment of the status of a species. A COSEWIC status identifies whether or not a  
 species is at risk of becoming extinct nationally. Species at risk are those designated as  
 Endangered or Threatened. ----- Visit <http://www.cosewic.gc.ca/> for additional information about  
 COSEWIC. ----- The COSEWIC Status is represented as a code in this field, explained as follows:  
 Extinct (X) - A wildlife species that no longer exists. --- Extirpated (XT) - A wildlife species that no  
 longer exists in the wild in Canada, but exists elsewhere. --- Endangered (E) - A wildlife species  
 facing imminent extirpation or extinction. --- Threatened (T) - A wildlife species that is likely to  
 become endangered if nothing is done to reverse the factors leading to its extirpation or  
 extinction. --- Special Concern (SC) - A wildlife species that may become threatened or  
 endangered because of a combination of biological characteristics and identified threats. --- Data  
 Deficient (DD) - A category that applies when the available information is insufficient (a) to  
 resolve a wildlife species' eligibility for assessment or (b) to permit an assessment of the wildlife  
 species' risk of extinction. --- Not At Risk (NAR) - A wildlife species that has been evaluated and  
 found to be not at risk of extinction given the current circumstances. --- Note: Some values may  
 be combined within the same field. ----- NHIC database field: COSEWIC

|                            |         |            |
|----------------------------|---------|------------|
| <b>COSEWIC_STATUS_DATE</b> | DATE No | COSEWIC_DT |
|----------------------------|---------|------------|

The date that the COSEWIC Status is effective. ----- NHIC database field: COSEWIC\_DATE

|                         |                      |            |
|-------------------------|----------------------|------------|
| <b>COSEWIC_COMMENTS</b> | VARCHAR2 No<br>(254) | COSEWIC_CO |
|-------------------------|----------------------|------------|

Comments about the currently assigned COSEWIC Status. ----- NHIC database field:  
 COSEWIC\_COM

|                             |                     |            |
|-----------------------------|---------------------|------------|
| <b>SARA_SCHEDULE_STATUS</b> | VARCHAR2 No<br>(15) | SARA_SCHED |
|-----------------------------|---------------------|------------|

The status assigned to a species by the Federal Government Species at Risk Act (SARA). The  
 SARA Status is stored as a code in this field whose values include: E = Endangered SC = Special  
 Concern T = Threatened XT = Extirpated ----- NHIC database field: SARA\_SCHD\_1\_STATUS

|                         |         |           |
|-------------------------|---------|-----------|
| <b>SARA_STATUS_DATE</b> | DATE No | SARA_DATE |
|-------------------------|---------|-----------|

The date that the Federal Species at Risk Act (SARA) Status is effective. ----- NHIC database field:  
 SARA\_STATUS\_DATE

|                              |                     |            |
|------------------------------|---------------------|------------|
| <b>SUBNATIONAL_RANK_CODE</b> | VARCHAR2 No<br>(15) | SRANK_CODE |
|------------------------------|---------------------|------------|

Ontario Sub-National rank maintained by the Natural Heritage Information Centre (NHIC).  
 Provincial (or Sub-National) ranks are used by the Natural Heritage Information Centre to set

protection priorities for rare species and natural communities. These ranks are not legal designations. Provincial ranks are assigned in a manner similar to that described for global ranks, but consider only those factors within the political boundaries of Ontario. By comparing the global and provincial ranks, the status, rarity, and the urgency of conservation, needs can be ascertained. ----- The NHIC evaluates provincial ranks on a continual basis and produces updated lists at least annually. ----- The Sub-National Rank codes and definitions are as follows: --- SX = Presumed Extirpated - Species or community is believed to be extirpated from the nation or state/province. Not located despite intensive searches of historical sites and other appropriate habitat, and virtually no likelihood that it will be rediscovered. --- SH = Possibly Extirpated (Historical) - Species or community occurred historically in the nation or state/province, and there is some possibility that it may be rediscovered. Its presence may not have been verified in the past 20-40 years. A species or community could become NH or SH without such a 20-40 year delay if the only known occurrences in a nation or state/province were destroyed or if it had been extensively and unsuccessfully looked for. The NH or SH rank is reserved for species or communities for which some effort has been made to relocate occurrences, rather than simply using this status for all elements not known from verified extant occurrences. --- S1= Critically Imperilled - Critically imperilled in the nation or state/province because of extreme rarity (often 5 or fewer occurrences) or because of some factor(s) such as very steep declines making it especially vulnerable to extirpation from the state/province. --- S2 = Imperilled - Imperilled in the nation or state/province because of rarity due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors making it very vulnerable to extirpation from the nation or state/province. --- S3 = Vulnerable - Vulnerable in the nation or state/province due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors making it vulnerable to extirpation. --- S4 = Apparently Secure - Uncommon but not rare; some cause for long-term concern due to declines or other factors. --- S5 = Secure - Common, widespread, and abundant in the nation or state/province. --- SNR = Unranked - Nation or state/province conservation status not yet assessed. --- SU = Unrankable - Currently unrankable due to lack of information or due to substantially conflicting information about status or trends. --- SNA = Not Applicable - A conservation status rank is not applicable because the species is not a suitable target for conservation activities. --- S#S# = Range Rank - A numeric range rank (e.g., S2S3) is used to indicate any range of uncertainty about the status of the species or community. Ranges cannot skip more than one rank (e.g., SU is used rather than S1S4). ----- Description Source: NHIC Glossary ----- NHIC database field: S\_RANK

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |    |            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----|------------|
| <b>SUBNATIONAL_RANK_CHANGE_DATE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | DATE           | No | SRANK_DATE |
| The effective date that the Subnational Rank was changed by NHIC for a species. ----- NHIC database field: S_RANK_CHANGE_DATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |    |            |
| <b>SUBNATIONAL_RANK_REVIEW_DATE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | DATE           | No | SRANK_REV  |
| The date that the Subnational Rank was reviewed by NHIC. ----- NHIC database field: S_RANK_REVIEW_DATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |    |            |
| <b>SUBNATIONAL_RANK_REASON</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | VARCHAR2 (254) | No | SRANK_REAS |
| The reason documented by NHIC for the assigned Subnational Rank. ----- NHIC database field: S_RANK_REASONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |    |            |
| <b>SARO_STATUS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | VARCHAR2 (15)  | No | SARO_STAT  |
| If a species is classified "at risk" by the Committee on the Status of Species at Risk in Ontario, they are added to the Species at Risk in Ontario(SARO) list in one of the following four categories, depending on the degree of risk: EXP = EXTIRPATED - a native species that no longer exists in the wild in Ontario, but still exists elsewhere (e.g. Greater Prairie Chicken) --- END = ENDANGERED - a native species facing extinction or extirpation (e.g. Cucumber Tree) --- THR = THREATENED - a native species at risk of becoming endangered in Ontario (e.g. Fowler?s Toad) --- SC = SPECIAL CONCERN - a native species that is sensitive to human activities or natural events which may cause it to become endangered or threatened (e.g. Monarch Butterfly). |                |    |            |
| <b>SARO_STATUS_DATE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | DATE           | No | SARO_DATE  |
| The calendar date that is applicable to the current Species At Risk in Ontario (SARO) status.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |    |            |
| <b>SARO_STATUS_COMMENTS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | VARCHAR2 (254) | No | SARO_COM   |
| Comments relating to the current Species At Risk in Ontario (SARO) status.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |    |            |
| <b>KINGDOM</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | VARCHAR2 (10)  | No | KINGDOM    |

The classified Kingdom of the species: In biology, kingdom is a taxonomic rank above Phylum. Kingdom classifications are as follows: Moneira - Unicellular and colonial organisms, including the true bacteria and cyanobacteria. --- Protista ? Organisms with just one eukaryotic cell. --- Fungi ? Including mushrooms and other fungus. --- Plantae ? Including trees, grass and flowers. --- Animalia ? From snails, birds, reptiles, amphibians to mammals ----- NHIC database field: KINGDOM

|                                                                                                                                                                          |                   |    |             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----|-------------|
| <b>PHYLUM</b>                                                                                                                                                            | VARCHAR2<br>(100) | No | PHYLUM      |
| The classified Phylum of the species. In biology, phylum is a taxonomic rank below Kingdom and above Class. ----- NHIC database field: PHYLUM                            |                   |    |             |
| <b>SUBPHYLUM</b>                                                                                                                                                         | VARCHAR2<br>(100) | No | SUBPHYLUM   |
| In biology, subphylum is a taxonomic rank intermediate between phylum and superclass. Not all organisms are assigned to a subphylum.                                     |                   |    |             |
| <b>CLASS_TAXON</b>                                                                                                                                                       | VARCHAR2<br>(100) | No | CLASS_TX    |
| In biology, class is a taxonomic rank between superclass and subclass. ----- NHIC database field: CLASS                                                                  |                   |    |             |
| <b>SUBCLASS</b>                                                                                                                                                          | VARCHAR2<br>(100) | No | SUBCLASS    |
| In biology, subclass is a taxonomic rank intermediate between class and infraclass.                                                                                      |                   |    |             |
| <b>INFRACCLASS</b>                                                                                                                                                       | VARCHAR2<br>(100) | No | INFRACCLASS |
| In biology, infraclass is a taxonomic rank intermediate between subclass and order.                                                                                      |                   |    |             |
| <b>ORDER_TAXON</b>                                                                                                                                                       | VARCHAR2<br>(100) | No | ORDER_TX    |
| In biology, order is a taxonomic rank between infraclass and suborder. ----- NHIC database field: ORDER                                                                  |                   |    |             |
| <b>SUBORDER</b>                                                                                                                                                          | VARCHAR2<br>(100) | No | SUBORDER    |
| In biology, suborder is a taxonomic rank intermediate between order and infraorder.                                                                                      |                   |    |             |
| <b>INFRAORDER</b>                                                                                                                                                        | VARCHAR2<br>(100) | No | INFRAORDER  |
| In biology, infraorder a taxonomic rank intermediate between suborder and superfamily.                                                                                   |                   |    |             |
| <b>SUPERFAMILY</b>                                                                                                                                                       | VARCHAR2<br>(100) | No | SUPERFAMIL  |
| In biology, superfamily is a taxonomic rank intermediate between infraorder and family.                                                                                  |                   |    |             |
| <b>FAMILY_ID</b>                                                                                                                                                         | NUMBER<br>(13,0)  | No | FAMILY_ID   |
| The NatureServe Identifier assigned a each species nomenclature Family. ----- NHIC database field: FAM_ID                                                                |                   |    |             |
| <b>FAMILY</b>                                                                                                                                                            | VARCHAR2<br>(100) | No | FAMILY      |
| In biology, family is a taxonomic rank between superfamily and subfamily. ----- NHIC database field: FAMILY                                                              |                   |    |             |
| <b>FAMILY_NAME</b>                                                                                                                                                       | VARCHAR2<br>(20)  | No | FAMILY_NAM  |
| A generic name to describe the family of a species. For example, the family: Aceraceae is described in this field as "maple family". ----- NHIC database field: FAM_NAME |                   |    |             |
| <b>SUBFAMILY</b>                                                                                                                                                         | VARCHAR2<br>(100) | No | SUBFAMILY   |

In biology, subfamily is a taxonomic rank intermediate between family and tribe.

|              |                   |    |       |
|--------------|-------------------|----|-------|
| <b>TRIBE</b> | VARCHAR2<br>(100) | No | TRIBE |
|--------------|-------------------|----|-------|

In biology, tribe is a taxonomic rank intermediate between subfamily and genus.

|                 |                  |    |          |
|-----------------|------------------|----|----------|
| <b>GENUS_ID</b> | NUMBER<br>(13,0) | No | GENUS_ID |
|-----------------|------------------|----|----------|

The NatureServe Identifier assigned to each species nomenclature Genus. ----- NHIC database field: GENUS\_ID

|              |                   |    |       |
|--------------|-------------------|----|-------|
| <b>GENUS</b> | VARCHAR2<br>(100) | No | GENUS |
|--------------|-------------------|----|-------|

In biology, genus is a taxonomic rank between tribe and subgenus. ----- NHIC database field: GENUS

|                   |                   |    |            |
|-------------------|-------------------|----|------------|
| <b>GENUS_NAME</b> | VARCHAR2<br>(100) | No | GENUS_NAME |
|-------------------|-------------------|----|------------|

A generic name to describe the Genus of a species. For example, the Genus: Rhus is described in this field as "sumac". ----- NHIC database field: GENUS\_NAME

|                 |                   |    |          |
|-----------------|-------------------|----|----------|
| <b>SUBGENUS</b> | VARCHAR2<br>(100) | No | SUBGENUS |
|-----------------|-------------------|----|----------|

In biology, subgenus is a taxonomic rank intermediate between genus and species.

|                |                   |    |         |
|----------------|-------------------|----|---------|
| <b>SPECIES</b> | VARCHAR2<br>(100) | No | SPECIES |
|----------------|-------------------|----|---------|

In biology, a species is a taxonomic rank between subgenus and subspecies.

|                   |                   |    |            |
|-------------------|-------------------|----|------------|
| <b>SUBSPECIES</b> | VARCHAR2<br>(100) | No | SUBSPECIES |
|-------------------|-------------------|----|------------|

In biology, subspecies is a taxonomic rank below species.

|                           |      |     |          |
|---------------------------|------|-----|----------|
| <b>EFFECTIVE_DATETIME</b> | DATE | Yes | EFF_DATE |
|---------------------------|------|-----|----------|

Date/time the record was created or last modified in the source database.

|                        |      |    |          |
|------------------------|------|----|----------|
| <b>EXPIRY_DATETIME</b> | DATE | No | EXP_DATE |
|------------------------|------|----|----------|

Date/time that the record was expired from use.

## **SPECIES\_OBS\_DETAIL**

Observation details which can include an actual sighting or evidence of the species or a group of individuals of the same species.

| <b>Column Name</b> | <b>Column Type</b> | <b>Mandatory</b> | <b>Short Name</b> | <b>Valid Values</b> |
|--------------------|--------------------|------------------|-------------------|---------------------|
|--------------------|--------------------|------------------|-------------------|---------------------|

|               |                  |     |        |  |
|---------------|------------------|-----|--------|--|
| <b>OGF_ID</b> | NUMBER<br>(13,0) | Yes | OGF_ID |  |
|---------------|------------------|-----|--------|--|

System-generated object identifier, unique at the application level.

|                         |                  |     |            |  |
|-------------------------|------------------|-----|------------|--|
| <b>CLASS_SHORT_NAME</b> | VARCHAR2<br>(11) | Yes | CLASS_NAME |  |
|-------------------------|------------------|-----|------------|--|

The unique LIO database short name assigned to every Data Class. For example: SPEOBSPT = Species Observation, Provincially Tracked SPEOBSLT = Species Observation, Locally Tracked

|                              |                   |     |            |                                                                                                                                                                                        |
|------------------------------|-------------------|-----|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SPC_REC_CREATOR_GROUP</b> | VARCHAR2<br>(100) | Yes | CREATOR_GR | Caribou Program, Invasive Species Program, MNR - OTHER, MNR District - Algonquin Park, MNR District - Aurora, MNR District - Aylmer, ...<br>(See SPECIES_REC_CREATOR_GROUP_LIST table) |
|------------------------------|-------------------|-----|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Identifies the group responsible for creating the species record using the Corporate Editor. ----- Field Purpose: Permits the

filtering of species data by their record creator origin. For example, finding records created by Parks Ontario, NHIC, Caribou Program, Guelph District etc.

|                                   |               |    |                  |                                                          |
|-----------------------------------|---------------|----|------------------|----------------------------------------------------------|
| <b>OBSERVER_ORGANIZATION_TYPE</b> | VARCHAR2 (20) | No | <b>OBS_ORG_T</b> | Academic, Government, NGO, Public, Private Sector, Other |
|-----------------------------------|---------------|----|------------------|----------------------------------------------------------|

The high-level classification that the Observer Organization belongs to, described as follows: Academic: University or College --- NGO: Non-Governmental Organization --- Public: General public. --- Private Sector: Privately-owned company e.g. Forest Industry --- Government: Federal, Provincial, Municipal agencies. --- Other: used to identify an Organization Type that is not listed in the available values. Users should describe the Type in the Observer Organization Name field.

|                                   |                |    |                |
|-----------------------------------|----------------|----|----------------|
| <b>OBSERVER_ORGANIZATION_NAME</b> | VARCHAR2 (100) | No | <b>OBS_ORG</b> |
|-----------------------------------|----------------|----|----------------|

The name of the organization or agency that the observer is affiliated with. For example, "Toronto Field Naturalists". If the Observer Organization Type is "Public" then a value of "Private Citizen" should be entered in this field. ----- Rule: Where required, the name of the person who made the observation can be identified in the Observer Name Secure table. Refer to User Guide for more details.

|                             |               |     |                 |                                    |
|-----------------------------|---------------|-----|-----------------|------------------------------------|
| <b>OBSERVATION_DATE_FLG</b> | VARCHAR2 (15) | Yes | <b>DATE_FLG</b> | Actual, Approximate, Not Available |
|-----------------------------|---------------|-----|-----------------|------------------------------------|

Flag indicating if the observation date is Actual, Approximate or Not Available. ----- Default: Actual

|                         |               |     |                 |
|-------------------------|---------------|-----|-----------------|
| <b>OBSERVATION_DATE</b> | VARCHAR2 (20) | Yes | <b>OBS_DATE</b> |
|-------------------------|---------------|-----|-----------------|

The date that the species was observed ----- Refer to user guide for recommended best practices regarding the date format for values stored in this field.

|                               |              |    |                   |
|-------------------------------|--------------|----|-------------------|
| <b>OBSERVATION_START_TIME</b> | VARCHAR2 (8) | No | <b>START_TIME</b> |
|-------------------------------|--------------|----|-------------------|

The time of day the observation began. The value is stored using the Long Time format: hh:mm:ss (24-hour clock). For example: 17:20:23.

|                             |              |    |                 |
|-----------------------------|--------------|----|-----------------|
| <b>OBSERVATION_END_TIME</b> | VARCHAR2 (8) | No | <b>END_TIME</b> |
|-----------------------------|--------------|----|-----------------|

The time of day the observation ended. The value is stored using the Long Time format: hh:mm:ss (24-hour clock). For example: 17:20:23.

|                      |                |    |                 |
|----------------------|----------------|----|-----------------|
| <b>LOCATION_NAME</b> | VARCHAR2 (254) | No | <b>LOCATION</b> |
|----------------------|----------------|----|-----------------|

A generally accepted name for the location where the feature occurs.

|                   |                 |    |                   |
|-------------------|-----------------|----|-------------------|
| <b>DIRECTIONS</b> | VARCHAR2 (2000) | No | <b>DIRECTIONS</b> |
|-------------------|-----------------|----|-------------------|

Instructions on how to get to the site including the method (canoe, helicopter etc.), time of year and site accessibility.

|                               |               |    |                |
|-------------------------------|---------------|----|----------------|
| <b>SPECIES_SEARCH_AREA_ID</b> | NUMBER (13,0) | No | <b>AREA_ID</b> |
|-------------------------------|---------------|----|----------------|

Foreign key reference to the parent Search Area table record. --- System-generated object identifier, unique at the application level.

|                                      |               |    |                 |
|--------------------------------------|---------------|----|-----------------|
| <b>SPECIES_DATA_CAPTURE_EVENT_ID</b> | NUMBER (13,0) | No | <b>EVENT_ID</b> |
|--------------------------------------|---------------|----|-----------------|

Foreign key reference to the parent Species Data Capture Event table record. This field is populated in the event that a Species Data Capture Event warrants the creation of a new Species Observation. --- System-generated object identifier, unique at the application level.

|                 |               |    |                 |                                                 |
|-----------------|---------------|----|-----------------|-------------------------------------------------|
| <b>RA_VALUE</b> | VARCHAR2 (20) | No | <b>RA_VALUE</b> | Very High, High, Medium, Low, Very Low, Unknown |
|-----------------|---------------|----|-----------------|-------------------------------------------------|

Representation Accuracy (RA) varies on the basis of area observed to be occupied by the species relative to the area contained within the footprint of the mapped observation. Differences in these two values result from incorporation of additional area within the observation boundary to incorporate associated locational uncertainty. Please refer to user-guide for details. ----- Note: a (null) value in this field indicates that the RA was not assessed.

|                   |                 |    |                   |
|-------------------|-----------------|----|-------------------|
| <b>RA_COMMENT</b> | VARCHAR2 (1000) | No | <b>RA_COMMENT</b> |
|-------------------|-----------------|----|-------------------|

Comments related to the value entered in the Representation Accuracy Value.

|                                                                                                                                                                                                                                                                                                                                                                  |                       |            |                                                                                                                                                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>BIOLOGICAL_DETAILS_NOTES</b>                                                                                                                                                                                                                                                                                                                                  | VARCHAR2 No<br>(2000) | BIOL_DET   |                                                                                                                                                                                                                           |
| Data collected on the biology of this Observation, including the number of individuals, vigor, habitat, soils, associated species, peculiar characteristics, etc. ----- NHIC database field name: EO_DATA                                                                                                                                                        |                       |            |                                                                                                                                                                                                                           |
| <b>HABITAT_USE_CLASS</b>                                                                                                                                                                                                                                                                                                                                         | VARCHAR2 No<br>(75)   | HAB_CLASS  | Caribou Winter Activity Area, Dispersal - Dispersal Site, Dispersal - Travel Corridor, Diurnal Movement - Roosting Site, Feeding - Burrowing Site, Feeding - Caching Site, ... (See SPECIES_HABITAT_USE_CLASS_LIST table) |
| The life process and subcategory associated with a particular site. ----- Note: The permissible values for this field were defined by the Natural Heritage Information Centre (NHIC) and Species at Risk (SAR). ----- Rule: When a value of "Other" is chosen, it should be described in the "Habitat Description" field.                                        |                       |            |                                                                                                                                                                                                                           |
| <b>HABITAT_DESCR</b>                                                                                                                                                                                                                                                                                                                                             | VARCHAR2 No<br>(2000) | HAB_DESCR  |                                                                                                                                                                                                                           |
| Freeform text describing the surrounding habitat.                                                                                                                                                                                                                                                                                                                |                       |            |                                                                                                                                                                                                                           |
| <b>LAND_TYPE</b>                                                                                                                                                                                                                                                                                                                                                 | VARCHAR2 No<br>(30)   | LAND_TYPE  | Island, Peninsula, Mainland, Wetland Complex, Waterbody                                                                                                                                                                   |
| A general land description that is used as a search key for wildlife management purposes.                                                                                                                                                                                                                                                                        |                       |            |                                                                                                                                                                                                                           |
| <b>FOREST_AGE</b>                                                                                                                                                                                                                                                                                                                                                | VARCHAR2 No<br>(30)   | FOREST_AGE | Less than 10 Years, 11-40 Years, 41-100 Years, 101+ Years                                                                                                                                                                 |
| A search key used in wildlife management work which describes the age of the forest in the area where data is being collected. Standard list: Less than 10 Years: e.g. cutover or burn. --- 11-40 Years: often referred to as a ?young? forest. - -- 41-100 Years: often referred to as a ?mature? forest. --- 101+ Years: often referred to as an ?old? forest. |                       |            |                                                                                                                                                                                                                           |
| <b>FOREST_TYPE</b>                                                                                                                                                                                                                                                                                                                                               | VARCHAR2 No<br>(30)   | FOREST_TYP | Dense, Open, Sparse                                                                                                                                                                                                       |
| The type of forest in the area where a species observation occurs. Permissible values and context are as follows: Dense : (>= 60% cover) Open : (25-59% cover) Sparse : (10-24% cover).                                                                                                                                                                          |                       |            |                                                                                                                                                                                                                           |
| <b>FOREST_COVER</b>                                                                                                                                                                                                                                                                                                                                              | VARCHAR2 No<br>(10)   | FOREST_COV | Conifer, Mixed, Hardwood                                                                                                                                                                                                  |
| A general description of the dominating forest cover type where the species observation took place - Conifer, Hardwood or Mixed (both Hardwood and Softwood).                                                                                                                                                                                                    |                       |            |                                                                                                                                                                                                                           |
| <b>FOREST_DOM_SPC_CODE</b>                                                                                                                                                                                                                                                                                                                                       | VARCHAR2 No<br>(2)    | FOREST_DOM | Bf, Bw, CE, Pj, Po, Sb, Sw                                                                                                                                                                                                |
| The two-character code for a dominant forest species in the area where an observation was recorded. A standard list of permissible values include: - Bf (Balsam Fir) - Bw (White Birch). - CE (Eastern White Cedar) - Pj (Jack Pine) - Po (Poplar) - Sb (Black Spruce) - Sw (White Spruce)                                                                       |                       |            |                                                                                                                                                                                                                           |
| <b>OBSERVATION_SOURCE</b>                                                                                                                                                                                                                                                                                                                                        | VARCHAR2 No<br>(100)  | OBS_SOURCE |                                                                                                                                                                                                                           |
| Describes the source of the observation. For example: "Found during site visit by MNR Vineland Office staff".                                                                                                                                                                                                                                                    |                       |            |                                                                                                                                                                                                                           |
| <b>SEARCH_TYPE_FLG</b>                                                                                                                                                                                                                                                                                                                                           | VARCHAR2 No<br>(11)   | SRCH_TYPE  | Intentional, Incidental                                                                                                                                                                                                   |
| A flag to indicate whether the species observation was intentional or incidental in origin within the following context: Intentional: The observation record is the result of a deliberate effort to find the subject species. --- Incidental: The observation record is the result of an unplanned or incidental encounter with the subject species.            |                       |            |                                                                                                                                                                                                                           |
| <b>SEARCH_EFFORT</b>                                                                                                                                                                                                                                                                                                                                             | VARCHAR2 No<br>(250)  | SRCH_EFF   |                                                                                                                                                                                                                           |
| The search effort expended for a given species observation. May include qualitative comments or a quantitative assessment (e.g. number of person-hours).                                                                                                                                                                                                         |                       |            |                                                                                                                                                                                                                           |
| <b>SEARCH_ADEQUACY</b>                                                                                                                                                                                                                                                                                                                                           | VARCHAR2 No           | SRCH_ADEQ  |                                                                                                                                                                                                                           |

(1000)

Comments on variables that might have affected the outcome of the search, including thoroughness, habitat, methods, environment, observer experience, ease of detection, and timing.

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|                          |          |    |          |         |
|--------------------------|----------|----|----------|---------|
| <b>SEARCH_RESULT_IND</b> | VARCHAR2 | No | SRCH_RES | Yes, No |
|                          | (3)      |    |          |         |

A "Yes" or "No" indicator if the species being searched for was found during this visit. Where the value is: Yes - The species or evidence of the species was found, resulting in a positive species observation. ----- No - No sign of the species was found, resulting in a negative observation. An example of a valid negative observation would be returning to a site where the species had been seen regularly in the past, but no sign of it was found during the current visit.

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|                                   |          |    |            |         |
|-----------------------------------|----------|----|------------|---------|
| <b>IDENTIFICATION_PROBLEM_IND</b> | VARCHAR2 | No | ID_PROBLEM | Yes, No |
|                                   | (3)      |    |            |         |

A "Yes" or "No" indicator if there was a problem identifying the species.

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|                                     |          |    |           |  |
|-------------------------------------|----------|----|-----------|--|
| <b>IDENTIFICATION_PROBLEM_DESCR</b> | VARCHAR2 | No | ID_PROB_D |  |
|                                     | (2000)   |    |           |  |

Free form text providing details about an identification problem in the field.

---

|                                 |          |    |           |         |
|---------------------------------|----------|----|-----------|---------|
| <b>MONITORED_SUBJ_SETUP_IND</b> | VARCHAR2 | No | MON_SETUP | Yes, No |
|                                 | (3)      |    |           |         |

A "Yes" or "No" indicator whether an animal in this observation has been captured and will be monitored by a device. ----- Rule: If "Yes", then animal and monitoring device details should be documented in the SPECIES MONITORED SUBJECT table.

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|                                |          |    |           |         |
|--------------------------------|----------|----|-----------|---------|
| <b>ADDITIONAL_MATERIAL_IND</b> | VARCHAR2 | No | ADDIT_MAT | Yes, No |
|                                | (3)      |    |           |         |

A "Yes" or "No" indicator if additional material about the observation was supplied to NHIC. ----- Rule: When 'Yes' one or more document reference records should be created in the Document Reference table.

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|                  |          |    |           |         |
|------------------|----------|----|-----------|---------|
| <b>PHOTO_IND</b> | VARCHAR2 | No | PHOTO_IND | Yes, No |
|                  | (3)      |    |           |         |

A "Yes" or "No" indicator if a photograph was taken of the specimen observed. ----- Rule: When 'Yes' one or more document reference records should be created in the Document Reference table. The Document Type should = Photograph.

---

|                |          |    |         |         |
|----------------|----------|----|---------|---------|
| <b>MAP_IND</b> | VARCHAR2 | No | MAP_IND | Yes, No |
|                | (3)      |    |         |         |

A "Yes" or "No" indicator if the observation site was sketched onto a hardcopy map e.g. Ontario Base Map (OBM), 1:50,000 National Topographic Series (NTS). ----- Rule: When 'Yes' one or more document reference records should be created in the Document Reference table. The Document Type should = Map-NTS, Map-OBM, or Map-Other.

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|                |          |    |         |  |
|----------------|----------|----|---------|--|
| <b>THREATS</b> | VARCHAR2 | No | THREATS |  |
|                | (2000)   |    |         |  |

Free form text about possible sources of danger to the existence of the species at the site.

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|                          |          |    |            |  |
|--------------------------|----------|----|------------|--|
| <b>LAND_USE_COMMENTS</b> | VARCHAR2 | No | L_USE_COMM |  |
|                          | (2000)   |    |            |  |

Free form text about current land use practices around and on the site.

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|                            |          |    |           |  |
|----------------------------|----------|----|-----------|--|
| <b>MANAGEMENT_COMMENTS</b> | VARCHAR2 | No | MGMT_COMM |  |
|                            | (2000)   |    |           |  |

Comments about the management of the feature at this location.

---

|                            |          |    |           |  |
|----------------------------|----------|----|-----------|--|
| <b>PROTECTION_COMMENTS</b> | VARCHAR2 | No | PROT_COMM |  |
|                            | (2000)   |    |           |  |

Comments about the level of protection provided or required for the site.

---

|                                 |          |    |          |         |
|---------------------------------|----------|----|----------|---------|
| <b>OBSERVATION_MAPPABLE_IND</b> | VARCHAR2 | No | MAPPABLE | Yes, No |
|                                 | (3)      |    |          |         |

A "Yes" or "No" indicator if the observation should be displayed on map products. Intended to exclude the display of historical observations that are too general in their spatial co-ordinates or multiples of observations displaying at the same co-ordinates.

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                    |     |                   |                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----|-------------------|------------------------------------------------------|
| <b>SPECIMEN_TAKEN_IND</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | VARCHAR2<br>(3)    | No  | <b>SPECIMEN</b>   | Yes, No                                              |
| A "Yes" or "No" indicator whether one or more specimens were collected during the observation. ----- Rule: If "Yes", users should create a record in the "Species Specimen" table. ----- Default = "No"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                    |     |                   |                                                      |
| <b>SPECIMEN_DETERMINED_BY</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | VARCHAR2<br>(200)  | No  | <b>DETERMINED</b> |                                                      |
| The person who provided the scientific identification of the specimen (if different than the observer). The name and position of the individual should be documented in this field. For example, "Steve Asquith, Biologist ? Shepperton Labs". --<br>--- Note: As this task is being performed in a professional capacity, identifying the person is compliant to the Freedom of Information and Protection of Privacy Act (FIPPA), and is not considered to be personal information.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    |     |                   |                                                      |
| <b>DATA_RESTRICT_IND</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | VARCHAR2<br>(3)    | Yes | <b>RESTR_IND</b>  | Yes, No                                              |
| A Yes/No indicator where additional data protection is required for the feature e.g. omit spatial and attribute data from public viewing. Users should elaborate the reason why the data should be protected in the Data Restriction Rationale field. ----- Default = No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                    |     |                   |                                                      |
| <b>DATA_RESTRICT_RATIONALE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | VARCHAR2<br>(254)  | No  | <b>RESTR_RAT</b>  |                                                      |
| The rationale explaining why there is a restriction on the observation data e.g. a snake hibernaculum near a public path. Data Restrictions are judged on a case-by-case basis and MNR District recommendations. ----- This field should be used to indicate any other information which may be relevant to the sensitivity of the species, e.g. Global conservation status rank, Provincial conservation responsibility, rarity and distribution in the province. ----- This field provides an explanation where spatial observation data should have additional protection when displayed. ----- CAVEAT: Users MUST still flag features with the appropriate Sensitivity Class to ensure proper data protection in the Ontario data warehouse (Low, Medium or Non-Sensitive)                                                                                                                                                                                                                                                                                                                     |                    |     |                   |                                                      |
| <b>OBSERVATION_COMMENTS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | VARCHAR2<br>(2000) | No  | <b>OBS_COMM</b>   |                                                      |
| Any additional general comments about the observation. ----- Note: Where applicable, users should use this field to store details rather than the GEOG_UNIT General Comments field.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                    |     |                   |                                                      |
| <b>DEGREE_OF_POP_EST</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | VARCHAR2<br>(15)   | No  | <b>POP_EST</b>    | Established, Introduced, Observed, Unknown           |
| Reserved for Invasive Species only. ----- A measure of the persistence of an invasive species at the site, described as follows: --- Established ? species is able to survive, is reproducing in its introduced location and has spread widely. --- Introduced ? In an early stage of invasion, has recently been introduced, may be reproducing and is restricted in its geographic range. --- Observed ? Believed to be a single individual or an aberrant observation; unlikely to survive and/or reproduce. --- Unknown ? the stage of invasion and the length of time the species has been present is not known; data deficient.                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    |     |                   |                                                      |
| <b>SPECIES_SIGHTING_FLG</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | VARCHAR2<br>(25)   | No  | <b>SIGHTING</b>   | Yes - Count Available, Yes - Count Not Available, No |
| Flag indicator if a species was sighted during the observation. The purpose of this field is to prompt the user to provide a count of the individual(s) seen during the observation. ----- Rules are as follows: If "Yes - Count Available": MANDATORY attributes for Animals - Total Count Individuals (must be > 0) - Total Count Accuracy Flag --- OPTIONAL for Plants (as counts may be qualitative e.g. dense clumps, carpets) - Total Count Individuals (must be > 0) - Total Count Accuracy Flag --- OPTIONAL attributes for Animals - Count of Adults Unknown Sex - Count of Adult Males - Count of Adult Females - Count of Young - Count of Unknown Age or Sex - Life Stage Sex and Count Comments --- OPTIONAL attribute for Plants - Life Stage Sex and Count Comments ----- If "Yes - Count Not Available": Often found with historical information where an animal was sighted, but an actual count was not documented or is vague. In this instance, the count fields do not need to be populated. ----- If "No": The count fields do not need to be populated. ----- Default: "No" |                    |     |                   |                                                      |
| <b>TOTAL_COUNT_ACC_FLG</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | VARCHAR2<br>(8)    | No  | <b>COUNT_ACC</b>  | Estimate, Actual                                     |
| For Plants and Animals: --- Flag indicating whether the total number of individuals documented for a species is actual or estimated true observation count.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |     |                   |                                                      |
| <b>TOTAL_COUNT_INDIVIDUALS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NUMBER<br>(7,0)    | No  | <b>TOT_COUNT</b>  |                                                      |
| For Plants and Animals: --- Where applicable, the estimated or observed total number of individuals documented for the observation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                    |     |                   |                                                      |
| <b>COUNT_OF_ADULTS_UNKNOWN_SEX</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | NUMBER<br>(4,0)    | No  | <b>UNK_SEX</b>    |                                                      |

This field is only to be populated when the observed species is an animal. --- Number of adults of unknown sex in the animal sighting.

|                             |                 |    |          |
|-----------------------------|-----------------|----|----------|
| <b>COUNT_OF_ADULT_MALES</b> | NUMBER<br>(4,0) | No | AD_MALES |
|-----------------------------|-----------------|----|----------|

This field is only to be populated when the observed species is an animal. --- Number of adult males in the animal sighting.

|                               |                 |    |            |
|-------------------------------|-----------------|----|------------|
| <b>COUNT_OF_ADULT_FEMALES</b> | NUMBER<br>(4,0) | No | AD_FEMALES |
|-------------------------------|-----------------|----|------------|

This field is only to be populated when the observed species is an animal. --- Number of adult females in the animal sighting.

|                       |                 |    |       |
|-----------------------|-----------------|----|-------|
| <b>COUNT_OF_YOUNG</b> | NUMBER<br>(4,0) | No | YOUNG |
|-----------------------|-----------------|----|-------|

This field is only to be populated when the observed species is an animal. --- Number of young in the animal sighting.

|                                 |                 |    |            |
|---------------------------------|-----------------|----|------------|
| <b>COUNT_UNKNOWN_AGE_OR_SEX</b> | NUMBER<br>(4,0) | No | UNK_AGE_SX |
|---------------------------------|-----------------|----|------------|

This field is only to be populated when the observed species is an animal. --- Number of animals of unknown age or sex in an animal sighting.

|                                     |                   |    |            |
|-------------------------------------|-------------------|----|------------|
| <b>LIFE_STAGE_SEX_AND_COUNT_CMT</b> | VARCHAR2<br>(254) | No | LIFE_STAGE |
|-------------------------------------|-------------------|----|------------|

For Plants and Animals: --- Comments about the sex (where applicable), life stage(s) and counts observed during the species sighting. --- Example 1 (Plants): "Of the 50 Trilliums observed, 45 were in a flowering stage." --- Example 2 (Animals): "Mature female Snapping Turtle laid approximately 10 eggs". ----- Note: This field can also be used to describe plants where individual counts are subjective or difficult to determine e.g. - Small Dense Clumps - Small Patches or Cushions - Small Colonies or Carpets - Large, almost pure stands

|                               |                  |    |           |
|-------------------------------|------------------|----|-----------|
| <b>NHIC_OBSERVATION_IDENT</b> | VARCHAR2<br>(20) | No | OBS_IDENT |
|-------------------------------|------------------|----|-----------|

This field is intended for NHIC Use Only ----- An identifier populated by NHIC for each observation e.g. AY123.

|                           |                  |    |            |                                                                                                                     |
|---------------------------|------------------|----|------------|---------------------------------------------------------------------------------------------------------------------|
| <b>NHIC_REVIEW_STATUS</b> | VARCHAR2<br>(40) | No | REV_STATUS | Pending, EO Candidate, Processed - Linked to EO, Processed - Not Linked to EO, Processed - Observation Not Accepted |
|---------------------------|------------------|----|------------|---------------------------------------------------------------------------------------------------------------------|

This field is intended for NHIC Use Only. Refer to user-guide for additional details. ----- The status of NHIC review and import of the observation into an Element Occurrence (EO) into the NHIC database. These are described as: --- Pending: All observations, submitted by field staff (the default value for the field when a record is entered) --- EO Candidate: A record has had a preliminary NHIC review and will be evaluated as part of an Element Occurrence (EO) at a later date. --- Processed - Linked to EO: Will also have EO\_ID populated as reference. --- Processed - Not Linked to EO: Valid observation of Provincially Tracked Species, but does not meet EO specs --- Processed - Observation Not Accepted: May be for a number of reasons, insufficient data, questionable record etc. Rationale to be provided in another field. In some circumstances these may be promoted into the other "processed" categories with the addition of more information. ----- DEFAULT: Pending

|                         |      |    |           |
|-------------------------|------|----|-----------|
| <b>NHIC_IMPORT_DATE</b> | DATE | No | IMPORT_DT |
|-------------------------|------|----|-----------|

This field is intended for NHIC Use Only ----- The calendar date that the field reported species observation was evaluated by NHIC. ----- Note: This field will only be populated if the Import Status is other than "Pending".

|                             |                    |    |            |
|-----------------------------|--------------------|----|------------|
| <b>NHIC_IMPORT_COMMENTS</b> | VARCHAR2<br>(1000) | No | IMPORT_COM |
|-----------------------------|--------------------|----|------------|

This field is intended for NHIC Use Only ----- Additional comments and rationale by NHIC staff describing the import status of the reported species observation.

|                           |      |     |          |
|---------------------------|------|-----|----------|
| <b>EFFECTIVE_DATETIME</b> | DATE | Yes | EFF_DATE |
|---------------------------|------|-----|----------|

Date/time the record was created or last modified in the source database.

## **SPECIES\_PROJECT**

A project designed to collect observations of a particular species. Metadata identifying the parties involved and the start and end dates of a project is captured.

| Column Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Column Type        | Mandatory | Short Name | Valid Values                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------|------------|------------------------------------------|
| <b>OGF_ID</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | NUMBER<br>(13,0)   | Yes       | OGF_ID     |                                          |
| System generated identifier, unique at the application level.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |           |            |                                          |
| <b>PROJECT_NAME</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | VARCHAR2<br>(100)  | Yes       | PROJ_NAME  |                                          |
| Identifies the project associated with species data collection.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                    |           |            |                                          |
| <b>PROJECT_START_DATE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | DATE               | Yes       | START_DATE |                                          |
| The date when the project began (YYYY-MM-DD).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |           |            |                                          |
| <b>PROJECT_END_DATE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | DATE               | No        | END_DATE   |                                          |
| The date when the project ended (YYYY-MM-DD).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |           |            |                                          |
| <b>STATUS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | VARCHAR2<br>(11)   | Yes       | STATUS     | Completed, In progress, On hold, Planned |
| The current status of the project, whether it is planned, in progress, completed or on hold.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                    |           |            |                                          |
| <b>LEAD_ORGANIZATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | VARCHAR2<br>(100)  | Yes       | LEAD_ORG   |                                          |
| The organization or organizational unit in which the data authority resides/reports and which has assumed accountability for the collection of the data (Typically this is an OMNR Program Area).                                                                                                                                                                                                                                                                                                                                                                           |                    |           |            |                                          |
| <b>PROJECT_SPONSOR</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | VARCHAR2<br>(100)  | Yes       | SPONSOR    |                                          |
| The Sponsor providing funding and direction for the project. Examples: Northern Boreal Initiative, Forest Management Values Data Collection, Species at Risk, Ontario Parks, Moose Survey, Research, Other (University/NGO).                                                                                                                                                                                                                                                                                                                                                |                    |           |            |                                          |
| <b>PROJECT_DATA_AUTHORITY</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | VARCHAR2<br>(100)  | Yes       | DATA_AUTH  |                                          |
| The full name of the person who knows how the data was collected for the project. ----- Entries should be made using standard form (Last Name, comma, First Name) e.g. Doe, John. Additional alternate names should be separated by a semi-colon e.g. Doe, John; Doe, Jane. ----- To comply with the Freedom of Information and Protection of Privacy Protection Act (FIPPA) guidelines, the names included in this field should only be used to identify persons working in a professional capacity for, or on behalf of the Ontario Ministry of Natural Resources (OMNR). |                    |           |            |                                          |
| <b>GENERAL_COMMENTS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | VARCHAR2<br>(2000) | No        | GNL_CMT    |                                          |
| General comments.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                    |           |            |                                          |
| <b>EFFECTIVE_DATETIME</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | DATE               | Yes       | EFF_DATE   |                                          |
| Date/time the record was created or last modified in the source database.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                    |           |            |                                          |

#### **SPECIES\_PROJECT\_DOCUMENT\_REF**

Intersect table between Project and Document Reference tables. It permits the association of several different document references to a feature.

| Column Name                                                                                                             | Column Type      | Mandatory | Short Name | Valid Values |
|-------------------------------------------------------------------------------------------------------------------------|------------------|-----------|------------|--------------|
| <b>SPECIES_PROJECT_ID</b>                                                                                               | NUMBER<br>(13,0) | Yes       | PROJECT_ID |              |
| Foreign Key to parent Species Project table record. ----- System generated identifier, unique at the application level. |                  |           |            |              |
| <b>SPECIES_DOCUMENT_REFERENCE_ID</b>                                                                                    | NUMBER<br>(13,0) | Yes       | DOC_REF_ID |              |
| Foreign Key to the parent Species Document Reference table record. ----- System generated                               |                  |           |            |              |

identifier, unique at the application level.

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|                    |      |     |          |
|--------------------|------|-----|----------|
| EFFECTIVE_DATETIME | DATE | Yes | EFF_DATE |
|--------------------|------|-----|----------|

Date/time the record was created or last modified in the source database.

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LIO Lookup Table Values:

PLANT\_COMMUNITY\_LIST

| ELC<br>FEC<br>CODE | PLANT<br>COMMUNITY<br>ELEMENT ID | SCI NAME                                                                             | COM NAME                                                                             | SYSTEM<br>TYPE | GLOBAL<br>RANK | NATIONAL<br>RANK | SUBNATIONAL<br>RANK CODE | CLASSIFICATION<br>SOURCE                    | COMMUNITY<br>CLASS CODE | COMMUNITY<br>SERIES<br>CODE | ECOSITE<br>CODE | PLANT<br>COMMUNITY<br>CHARACTERISTIC | EXPIRY<br>DATE |
|--------------------|----------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------|----------------|------------------|--------------------------|---------------------------------------------|-------------------------|-----------------------------|-----------------|--------------------------------------|----------------|
| ALO1-10            | 183860                           | Canada Bluegrass - Nodding Onion Alvar Grassland Type                                | Canada Bluegrass - Nodding Onion Alvar Grassland Type                                | Terrestrial    | G1?            |                  | S1                       | Ontario Natural Heritage Information Centre | AL                      | ALO                         | ALO1            |                                      |                |
| ALO1-6             | 183856                           | Shrubby Cinquefoil - Creeping Juniper - Scirpus-like Sedge Alvar Pavement Type       | Shrubby Cinquefoil - Creeping Juniper - Scirpus-like Sedge Alvar Pavement Type       | Terrestrial    | G2?            |                  | S2                       | Ontario Natural Heritage Information Centre | AL                      | ALO                         | ALO1            |                                      |                |
| ALO1-7             | 183857                           | Philadelphia Panic Grass - False Pennyroyal Alvar Pavement Type                      | Philadelphia Panic Grass - False Pennyroyal Alvar Pavement Type                      | Terrestrial    | G1Q            |                  | S1                       | Ontario Natural Heritage Information Centre | AL                      | ALO                         | ALO1            |                                      |                |
| ALO1-8             | 183858                           | Northern Dropseed - Little Bluestem - Scirpus-like Sedge Alvar Grassland Type        | Northern Dropseed - Little Bluestem - Scirpus-like Sedge Alvar Grassland Type        | Terrestrial    | G2G3?          |                  | S2S3                     | Ontario Natural Heritage Information Centre | AL                      | ALO                         | ALO1            |                                      |                |
| ALO1-9             | 183859                           | Tufted Hairgrass - Canada Bluegrass - Philadelphia Panic Grass Alvar Grassland Type  | Tufted Hairgrass - Canada Bluegrass - Philadelphia Panic Grass Alvar Grassland Type  | Terrestrial    | G2G3?          |                  | S2S3                     | Ontario Natural Heritage Information Centre | AL                      | ALO                         | ALO1            |                                      |                |
| ALS1-1             | 183861                           | Common Juniper - Creeping Juniper - Shrubby Cinquefoil Alvar Shrubland Type          | Common Juniper - Creeping Juniper - Shrubby Cinquefoil Alvar Shrubland Type          | Terrestrial    | G2?            |                  | S2                       | Ontario Natural Heritage Information Centre | AL                      | ALS                         | ALS1            |                                      |                |
| ALS1-2             | 183862                           | Common Juniper - Fragrant Sumac - Hairy Beardtongue Alvar Shrubland Type             | Common Juniper - Fragrant Sumac - Hairy Beardtongue Alvar Shrubland Type             | Terrestrial    | G2?            |                  | S2                       | Ontario Natural Heritage Information Centre | AL                      | ALS                         | ALS1            |                                      |                |
| ALT1-1             | 183867                           | Chinquapin Oak - Nodding Onion Treed Alvar Grassland Type                            | Chinquapin Oak - Nodding Onion Treed Alvar Grassland Type                            | Terrestrial    | G1?            |                  | S1                       | Ontario Natural Heritage Information Centre | AL                      | ALT                         | ALT1            |                                      |                |
| ALT1-2             | 183868                           | Shagbark Hickory - Prickly Ash - Philadelphia Panic Grass Treed Alvar Grassland Type | Shagbark Hickory - Prickly Ash - Philadelphia Panic Grass Treed Alvar Grassland Type | Terrestrial    | G1Q            |                  | S1                       | Ontario Natural Heritage Information Centre | AL                      | ALT                         | ALT1            |                                      |                |
| ALT1-3             | 183863                           | White Cedar - Jack Pine - Shrubby Cinquefoil Treed Alvar Pavement                    | White Cedar - Jack Pine - Shrubby Cinquefoil Treed Alvar Pavement                    | Terrestrial    | G1G2           |                  | S1                       | Ontario Natural Heritage Information Centre | AL                      | ALT                         | ALT1            |                                      |                |
| ALT1-5             | 183866                           | Red Cedar - Early Buttercup Treed Alvar Grassland Type                               | Red Cedar - Early Buttercup Treed Alvar Grassland Type                               | Terrestrial    | G2?            |                  | S2                       | Ontario Natural Heritage Information Centre | AL                      | ALT                         | ALT1            |                                      |                |
| ALT1-6             | 183864                           | Jack Pine - White Cedar - Low Calamint Treed Alvar Grassland Type                    | Jack Pine - White Cedar - Low Calamint Treed Alvar Grassland Type                    | Terrestrial    | G1?            |                  | S1                       | Ontario Natural Heritage Information Centre | AL                      | ALT                         | ALT1            |                                      |                |

|        |        |                                                                                  |                                                                                  |             |      |  |      |    |                                             |    |     |      |  |  |
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| ALT1-7 | 183865 | White Cedar - White Spruce - Philadelphia Panic Grass Treed Alvar Grassland Type | White Cedar - White Spruce - Philadelphia Panic Grass Treed Alvar Grassland Type | Terrestrial | G3?  |  |      | S3 | Ontario Natural Heritage Information Centre | AL | ALT | ALT1 |  |  |
| ALT1-8 | 183869 | Jack Pine - White Cedar - Common Juniper Treed Alvar Shrubland Type              | Jack Pine - White Cedar - Common Juniper Treed Alvar Shrubland Type              | Terrestrial | G2?  |  | S2   |    | Ontario Natural Heritage Information Centre | AL | ALT | ALT1 |  |  |
| ALT1-9 | 194112 | Bur Oak Treed Alvar Type                                                         | Bur Oak Treed Alvar Type                                                         | Terrestrial | G1?  |  | S1S2 |    | Ontario Natural Heritage Information Centre | AL | ALT | ALT1 |  |  |
| BBO1-1 | 183639 | Sea Rocket Sand Beach Type                                                       | Sea Rocket Sand Beach Type                                                       | Terrestrial | G2G4 |  | S2S3 |    | Ontario Natural Heritage Information Centre | BB | BBO | BBO1 |  |  |
| BBO1-2 | 183766 | Wormwood Gravel Beach Type                                                       | Wormwood Gravel Beach Type                                                       | Terrestrial | G3G4 |  | S2S3 |    | Ontario Natural Heritage Information Centre | BB | BBO | BBO1 |  |  |
| BBO2-1 | 183605 | Shrubby Cinquefoil Limestone Beach Type                                          | Shrubby Cinquefoil Limestone Beach Type                                          | Terrestrial | G3G4 |  | S2   |    | Ontario Natural Heritage Information Centre | BB | BBO | BBO2 |  |  |
| BBO3-1 | 183588 | Sandstone Bedrock Beach / Bar Ecosite                                            | Sandstone Bedrock Beach / Bar Ecosite                                            | Terrestrial | G4?  |  | S1   |    | Ontario Natural Heritage Information Centre | BB | BBO | BBO3 |  |  |
| BBO4-1 | 183845 | Granite Bedrock Beach / Bar Ecosite                                              | Granite Bedrock Beach / Bar Ecosite                                              | Terrestrial | G4?  |  | S5   |    | Ontario Natural Heritage Information Centre | BB | BBO | BBO4 |  |  |
| BBO5-1 | 194113 | Great Lakes Arctic-Alpine Basic Open Bedrock Shoreline Type                      | Great Lakes Arctic-Alpine Basic Open Bedrock Shoreline Type                      | Terrestrial | G?   |  | S3   |    | Ontario Natural Heritage Information Centre | BB | BBO | BBO5 |  |  |
| BBO6-1 | 194132 | Acidic Open Bedrock Shoreline Type                                               | Acidic Open Bedrock Shoreline Type                                               | Terrestrial | G?   |  | S5   |    | Ontario Natural Heritage Information Centre | BB | BBO | BBO6 |  |  |
| BBS1-1 | 183767 | Red Cedar-Common Juniper Shingle Beach Type                                      | Red Cedar-Common Juniper Shingle Beach Type                                      | Terrestrial | G3G4 |  | S1   |    | Ontario Natural Heritage Information Centre | BB | BBS | BBS1 |  |  |
| BBS1-2 | 183768 | Willow Gravel Bar Type                                                           | Willow Gravel Bar Type                                                           | Terrestrial | G?   |  | S4   |    | Ontario Natural Heritage Information Centre | BB | BBS | BBS1 |  |  |
| BLO1-1 | 183607 | Open Clay Bluff Type                                                             | Open Clay Bluff Type                                                             | Terrestrial | G?   |  | S4   |    | Ontario Natural Heritage Information Centre | BL | BLO | BLO1 |  |  |
| BLO2-1 | 183590 | Open Sand / Clay Bluff Type                                                      | Open Sand / Clay Bluff Type                                                      | Terrestrial | G?   |  | S4   |    | Ontario Natural Heritage Information Centre | BL | BLO | BLO2 |  |  |
| BOO1-  | 183761 | Few-seeded Sedge                                                                 | Few-seeded Sedge                                                                 | Wetland     | G3G4 |  | S5   |    | Ontario Natural                             | BO | BOO | BOO1 |  |  |

|        |        |                                                                              |                                                                              |             |      |  |      |                                             |    |     |      |  |  |
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| 1      |        | Graminoid Bog Type                                                           | Graminoid Bog Type                                                           |             |      |  |      | Heritage Information Centre                 |    |     |      |  |  |
| BOO1-2 | 183762 | Cotton-grass Graminoid Bog Type                                              | Cotton-grass Graminoid Bog Type                                              | Wetland     | G3G4 |  | S5   | Ontario Natural Heritage Information Centre | BO | BOO | BOO1 |  |  |
| BOO1-3 | 194110 | Virginia Chain Fern Open Bog Type                                            | Virginia Chain Fern Open Bog Type                                            | Wetland     | G3G4 |  | S3   | Ontario Natural Heritage Information Centre | BO | BOO | BOO1 |  |  |
| BOS1-1 | 183763 | Leatherleaf Shrub Bog Type                                                   | Leatherleaf Shrub Bog Type                                                   | Wetland     | G5   |  | S5   | Ontario Natural Heritage Information Centre | BO | BOS | BOS1 |  |  |
| BOS2-1 | 183764 | Leatherleaf Shrub Kettle Peatland Type                                       | Leatherleaf Shrub Kettle Peatland Type                                       | Wetland     | G3G4 |  | S3   | Ontario Natural Heritage Information Centre | BO | BOS | BOS2 |  |  |
| BOS2-2 | 183765 | Highbush Blueberry Shrub Kettle Peatland Type                                | Highbush Blueberry Shrub Kettle Peatland Type                                | Wetland     | G2Q  |  | S1S2 | Ontario Natural Heritage Information Centre | BO | BOS | BOS2 |  |  |
| BOT1-1 | 183600 | Black Spruce Treed Bog Type                                                  | Black Spruce Treed Bog Type                                                  | Wetland     | G5   |  | S5   | Ontario Natural Heritage Information Centre | BO | BOT | BOT1 |  |  |
| BOT2-1 | 183791 | Tamarack-Leatherleaf Treed Kettle Peatland Type                              | Tamarack-Leatherleaf Treed Kettle Peatland Type                              | Wetland     | G3G4 |  | S3   | Ontario Natural Heritage Information Centre | BO | BOT | BOT2 |  |  |
| CCR1-1 | 183784 | Liverwort - Moss - Fern Limestone Crevice Type                               | Liverwort - Moss - Fern Limestone Crevice Type                               | Terrestrial | G5   |  | S4   | Ontario Natural Heritage Information Centre | CC | CCR | CCR1 |  |  |
| CCR1-2 | 183853 | Limestone / Dolostone Crevice Cave Ecosite                                   | Limestone / Dolostone Crevice Cave Ecosite                                   | Terrestrial | G?   |  | S1   | Ontario Natural Heritage Information Centre | CC | CCR | CCR1 |  |  |
| CLO1-1 | 183776 | Cliffbrake - Lichen Open Unshaded Limestone / Dolostone Cliff Face Type      | Cliffbrake - Lichen Open Unshaded Limestone / Dolostone Cliff Face Type      | Terrestrial | G5   |  | S3   | Ontario Natural Heritage Information Centre | CL | CLO | CLO1 |  |  |
| CLO1-2 | 183777 | Bulblet Fern - Herb Robert Open Shaded Limestone / Dolostone Cliff Face Type | Bulblet Fern - Herb Robert Open Shaded Limestone / Dolostone Cliff Face Type | Terrestrial | G5   |  | S3   | Ontario Natural Heritage Information Centre | CL | CLO | CLO1 |  |  |
| CLO1-3 | 183778 | Canada Bluegrass Open Unshaded Limestone / Dolostone Cliff Face Type         | Canada Bluegrass Open Unshaded Limestone / Dolostone Cliff Face Type         | Terrestrial | G5   |  | S3   | Ontario Natural Heritage Information Centre | CL | CLO | CLO1 |  |  |
| CLO1-4 | 183582 | Open Limestone / Dolostone Seepage Cliff Type                                | Open Limestone / Dolostone Seepage Cliff Type                                | Terrestrial | GNRQ |  | S3   | Ontario Natural Heritage Information Centre | CL | CLO | CLO1 |  |  |
| CLO1-5 | 183779 | Open Limestone / Dolostone Cliff Rim                                         | Open Limestone / Dolostone Cliff Rim                                         | Terrestrial | G5   |  | S2   | Ontario Natural Heritage                    | CL | CLO | CLO1 |  |  |

|        |        | Type                                                                     | Type                                                                     |             |      |  |      | Information Centre                          |    |     |      |  |
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| CLO1-6 | 194124 | Boreal Carbonate Open Cliff Type                                         | Boreal Carbonate Open Cliff Type                                         | Terrestrial | G4G5 |  | S1S2 | Ontario Natural Heritage Information Centre | CL | CLO | CL01 |  |
| CLO2-1 | 183581 | Open Sandstone Cliff Ecosite                                             | Open Sandstone Cliff Ecosite                                             | Terrestrial | GNRQ |  | S1   | Ontario Natural Heritage Information Centre | CL | CLO | CLO2 |  |
| CLO2-2 | 194116 | Boreal Acidic Sandstone Open Cliff Type                                  | Boreal Acidic Sandstone Open Cliff Type                                  | Terrestrial | G4G5 |  | S2   | Ontario Natural Heritage Information Centre | CL | CLO | CLO2 |  |
| CLO3-1 | 183587 | Moist Moss - Liverwort Granite Cliff Face Type                           | Moist Moss - Liverwort Granite Cliff Face Type                           | Terrestrial | G4Q  |  | S4   | Ontario Natural Heritage Information Centre | CL | CLO | CL03 |  |
| CLO3-2 | 194119 | Acidic Granite Open Cliff Type                                           | Acidic Granite Open Cliff Type                                           | Terrestrial | G?   |  | S3S4 | Ontario Natural Heritage Information Centre | CL | CLO | CLO3 |  |
| CLO4-1 | 194122 | Basic Open Cliff Type                                                    | Basic Open Cliff Type                                                    | Terrestrial | G?   |  | S3S4 | Ontario Natural Heritage Information Centre | CL | CLO | CLO4 |  |
| CLS1-1 | 183623 | Common Juniper Open Limestone / Dolostone Cliff Rim Shrubland Type       | Common Juniper Open Limestone / Dolostone Cliff Rim Shrubland Type       | Terrestrial | G?   |  | S2S3 | Ontario Natural Heritage Information Centre | CL | CLS | CLS1 |  |
| CLS1-2 | 183625 | Round-leaved Dogwood Open Limestone / Dolostone Cliff Rim Shrubland Type | Round-leaved Dogwood Open Limestone / Dolostone Cliff Rim Shrubland Type | Terrestrial | G?   |  | S3   | Ontario Natural Heritage Information Centre | CL | CLS | CLS1 |  |
| CLS2-1 | 183846 | Sandstone Cliff Shrubland Ecosite                                        | Sandstone Cliff Shrubland Ecosite                                        | Terrestrial | GNRQ |  | S1   | Ontario Natural Heritage Information Centre | CL | CLS | CLS2 |  |
| CLS3-1 | 183644 | Granite Cliff Shrubland Ecosite                                          | Granite Cliff Shrubland Ecosite                                          | Terrestrial | G?   |  | S4   | Ontario Natural Heritage Information Centre | CL | CLS | CLS3 |  |
| CLT1-1 | 183595 | White Cedar Treed Limestone Cliff Type                                   | White Cedar Treed Limestone Cliff Type                                   | Terrestrial | G2Q  |  | S3   | Ontario Natural Heritage Information Centre | CL | CLT | CLT1 |  |
| CLT1-2 | 183780 | Sugar Maple - Ironwood - White Ash Treed Limestone Cliff Type            | Sugar Maple - Ironwood - White Ash Treed Limestone Cliff Type            | Terrestrial | G?   |  | S3   | Ontario Natural Heritage Information Centre | CL | CLT | CLT1 |  |
| CLT1-3 | 183620 | White Birch - Aspen Treed Limestone Cliff Type                           | White Birch - Aspen Treed Limestone Cliff Type                           | Terrestrial | G?   |  | S3S4 | Ontario Natural Heritage Information Centre | CL | CLT | CLT1 |  |
| CLT2-1 | 183847 | Treed Sandstone Cliff Ecosite                                            | Treed Sandstone Cliff Ecosite                                            | Terrestrial | GNRQ |  | S1   | Ontario Natural Heritage                    | CL | CLT | CLT2 |  |

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|        |        |                                                                           |                                                                           |             |     |  |      | Information<br>Centre                            |    |     |      |  |  |
| CLT3-1 | 183848 | Treed Granite Cliff Ecosite                                               | Treed Granite Cliff Ecosite                                               | Terrestrial | G?  |  | S4S5 | Ontario Natural Heritage Information Centre      | CL | CLT | CLT3 |  |  |
| CV1    | 201007 | Sugar Maple-Basswood/Leatherwood Forest                                   | Sugar Maple-Basswood/Leatherwood Forest                                   | Terrestrial | GNR |  | SNR  | Central Ontario Forest Ecosystems Classification | FO | FOD | FOD5 |  |  |
| CV10   | 201016 | Sugar Maple-Yellow Birch/Spinulose Wood Fern Forest                       | Sugar Maple-Yellow Birch/Spinulose Wood Fern Forest                       | Terrestrial | GNR |  | SNR  | Central Ontario Forest Ecosystems Classification | FO | FOD | FOD6 |  |  |
| CV11   | 201017 | Yellow Birch-Sugar Maple-White Spruce-White Cedar/Mountain Maple Forest   | Yellow Birch-Sugar Maple-White Spruce-White Cedar/Mountain Maple Forest   | Terrestrial | GNR |  | SNR  | Central Ontario Forest Ecosystems Classification | FO | FOM | FOM3 |  |  |
| CV12   | 201018 | Sugar Maple-White Birch-Trembling Aspen-Red Maple-Balsam Fir Shrub Forest | Sugar Maple-White Birch-Trembling Aspen-Red Maple-Balsam Fir Shrub Forest | Terrestrial | GNR |  | SNR  | Central Ontario Forest Ecosystems Classification | FO | FOD | FOD6 |  |  |
| CV13   | 201019 | Sugar Maple-White Birch-Red Maple-Fly Honey Suckle-Beaked Hazel Forest    | Sugar Maple-White Birch-Red Maple-Fly Honey Suckle-Beaked Hazel Forest    | Terrestrial | GNR |  | SNR  | Central Ontario Forest Ecosystems Classification | FO | FOD | FOD6 |  |  |
| CV14   | 201020 | White Birch-Red Maple-Trembling Aspen-Mountain Maple Forest               | White Birch-Red Maple-Trembling Aspen-Mountain Maple Forest               | Terrestrial | GNR |  | SNR  | Central Ontario Forest Ecosystems Classification | FO | FOD | FOD8 |  |  |
| CV15   | 201021 | Sugar Maple-Hemlock-Yellow Birch-Red Maple-Striped Maple Forest           | Sugar Maple-Hemlock-Yellow Birch-Red Maple-Striped Maple Forest           | Terrestrial | GNR |  | SNR  | Central Ontario Forest Ecosystems Classification | FO | FOM | FOM3 |  |  |
| CV16   | 201022 | Sugar Maple-Hemlock-Yellow Birch-Striped Maple Forest                     | Sugar Maple-Hemlock-Yellow Birch-Striped Maple Forest                     | Terrestrial | GNR |  | SNR  | Central Ontario Forest Ecosystems Classification | FO | FOM | FOM3 |  |  |
| CV17   | 201023 | Sugar Maple-Hemlock-Striped Maple Forest                                  | Sugar Maple-Hemlock-Striped Maple Forest                                  | Terrestrial | GNR |  | SNR  | Central Ontario Forest Ecosystems Classification | FO | FOM | FOM3 |  |  |
| CV18   | 201024 | Hemlock-Yellow Birch-Goldthread-Wood Sorrel Forest                        | Hemlock-Yellow Birch-Goldthread-Wood Sorrel Forest                        | Terrestrial | GNR |  | SNR  | Central Ontario Forest Ecosystems Classification | FO | FOM | FOM3 |  |  |
| CV19   | 201025 | Hemlock-Spinulose Wood Fern-Herb Poor Forest                              | Hemlock-Spinulose Wood Fern-Herb Poor Forest                              | Terrestrial | GNR |  | SNR  | Central Ontario Forest Ecosystems Classification | FO | FOC | FOC3 |  |  |
| CV2    | 201008 | Sugar Maple-Beech/Striped Maple Forest                                    | Sugar Maple-Beech/Striped Maple Forest                                    | Terrestrial | GNR |  | SNR  | Central Ontario Forest Ecosystems Classification | FO | FOD | FOD6 |  |  |
| CV20   | 201026 | Trembling Aspen-Balsam Poplar-Speckled Alder Forest                       | Trembling Aspen-Balsam Poplar-Speckled Alder Forest                       | Terrestrial | GNR |  | SNR  | Central Ontario Forest Ecosystems Classification | FO | FOD | FOD8 |  |  |
| CV21   | 201027 | White Cedar-Trembling Aspen-White Spruce-Twinflower Forest                | White Cedar-Trembling Aspen-White Spruce-Twinflower Forest                | Terrestrial | GNR |  | SNR  | Central Ontario Forest Ecosystems Classification | FO | FOM | FOM7 |  |  |
| CV22   | 201028 | Trembling Aspen-White Birch-White Spruce-Dwarf Raspberry Forest           | Trembling Aspen-White Birch-White Spruce-Dwarf Raspberry Forest           | Terrestrial | GNR |  | SNR  | Central Ontario Forest Ecosystems Classification | FO | FOM | FOM8 |  |  |

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| CV23 | 201029 | White Birch-White Pine-Trembling Aspen-Beaked Hazel-Mountain Maple Forest                        | White Birch-White Pine-Trembling Aspen-Beaked Hazel-Mountain Maple Forest                        | Terrestrial | GNR |  | SNR | Central Ontario Forest Ecosystems Classification | FO | FOM | FOM8 |  |  |
| CV24 | 201030 | Trembling Aspen-White Birch-Jack Pine-Black Spruce-Bush Honeysuckle-Blueberry-Feathermoss Forest | Trembling Aspen-White Birch-Jack Pine-Black Spruce-Bush Honeysuckle-Blueberry-Feathermoss Forest | Terrestrial | GNR |  | SNR | Central Ontario Forest Ecosystems Classification | FO | FOM | FOM8 |  |  |
| CV25 | 201031 | Trembling Aspen-White Birch-White Spruce-White Pine-Red Pine-Beaked Hazel-Mountain Maple Forest  | Trembling Aspen-White Birch-White Spruce-White Pine-Red Pine-Beaked Hazel-Mountain Maple Forest  | Terrestrial | GNR |  | SNR | Central Ontario Forest Ecosystems Classification | FO | FOM | FOM8 |  |  |
| CV26 | 201032 | Balsam Fir-White Spruce-Balsam Fir Shrub-Bush Honeysuckle Forest                                 | Balsam Fir-White Spruce-Balsam Fir Shrub-Bush Honeysuckle Forest                                 | Terrestrial | GNR |  | SNR | Central Ontario Forest Ecosystems Classification | FO | FOM | FOM9 |  |  |
| CV27 | 201033 | White Pine-White Birch-Red Oak-Largetooth Aspen-Braken Fern Forest                               | White Pine-White Birch-Red Oak-Largetooth Aspen-Braken Fern Forest                               | Terrestrial | GNR |  | SNR | Central Ontario Forest Ecosystems Classification | FO | FOM | FOM2 |  |  |
| CV28 | 201034 | Largetooth Aspen-White Pine-Red Oak-Red Maple-Blueberry-Wintergreen Forest                       | Largetooth Aspen-White Pine-Red Oak-Red Maple-Blueberry-Wintergreen Forest                       | Terrestrial | GNR |  | SNR | Central Ontario Forest Ecosystems Classification | FO | FOM | FOM2 |  |  |
| CV29 | 201035 | White Pine-Red Pine-Beaked Hazel-Braken Fern-Bush Honeysuckle Forest                             | White Pine-Red Pine-Beaked Hazel-Braken Fern-Bush Honeysuckle Forest                             | Terrestrial | GNR |  | SNR | Central Ontario Forest Ecosystems Classification | FO | FOC | FOC1 |  |  |
| CV3  | 201009 | Sugar Maple-Red oak-Beech/Striped Maple Forest                                                   | Sugar Maple-Red oak-Beech/Striped Maple Forest                                                   | Terrestrial | GNR |  | SNR | Central Ontario Forest Ecosystems Classification | FO | FOD | FOD5 |  |  |
| CV30 | 201036 | Red Pine-White Pine-Jack Pine-Blueberry-Feathermoss Forest                                       | Red Pine-White Pine-Jack Pine-Blueberry-Feathermoss Forest                                       | Terrestrial | GNR |  | SNR | Central Ontario Forest Ecosystems Classification | FO | FOC | FOC1 |  |  |
| CV31 | 201037 | Red Pine-White Pine-Jack Pine-Largetooth Aspen-White Pine Shrub-Wintergreen Forest               | Red Pine-White Pine-Jack Pine-Largetooth Aspen-White Pine Shrub-Wintergreen Forest               | Terrestrial | GNR |  | SNR | Central Ontario Forest Ecosystems Classification | FO | FOM | FOM2 |  |  |
| CV32 | 201038 | White Pine-Red Pine-Blueberry-Feathermoss-Lichen Forest                                          | White Pine-Red Pine-Blueberry-Feathermoss-Lichen Forest                                          | Terrestrial | GNR |  | SNR | Central Ontario Forest Ecosystems Classification | FO | FOC | FOC1 |  |  |
| CV33 | 201039 | Jack Pine-Blueberry-Feathermoss-Lichen Forest                                                    | Jack Pine-Blueberry-Feathermoss-Lichen Forest                                                    | Terrestrial | GNR |  | SNR | Central Ontario Forest Ecosystems Classification | FO | FOC | FOC1 |  |  |
| CV34 | 201040 | White Pine-Red Oak-Bracken Fern-Wintergreen Forest                                               | White Pine-Red Oak-Bracken Fern-Wintergreen Forest                                               | Terrestrial | GNR |  | SNR | Central Ontario Forest Ecosystems Classification | FO | FOM | FOM2 |  |  |
| CV35 | 201041 | Black Spruce-Tamarack-White Cedar-Goldthread-Sphagnum Forest                                     | Black Spruce-Tamarack-White Cedar-Goldthread-Sphagnum Forest                                     | Wetland     | GNR |  | SNR | Central Ontario Forest Ecosystems Classification | SW | SWC | SWC4 |  |  |
| CV36 | 201042 | Black Spruce-White                                                                               | Black Spruce-White                                                                               | Wetland     | GNR |  | SNR | Central Ontario                                  | SW | SWC | SWC4 |  |  |

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|        |        | Cedar-Balsam Fir-Northern Wild Raisin-Sphagnum Forest                           | Cedar-Balsam Fir-Northern Wild Raisin-Sphagnum Forest                           |             |      |  |     | Forest Ecosystems Classification                 |    |     |      |  |  |
| CV37   | 201043 | Black Spruce-White Cedar-Balsam Fir-Mountain Maple-Creeping Snowberry Forest    | Black Spruce-White Cedar-Balsam Fir-Mountain Maple-Creeping Snowberry Forest    | Wetland     | GNR  |  | SNR | Central Ontario Forest Ecosystems Classification | SW | SWC | SWC4 |  |  |
| CV38   | 201044 | White Cedar-Goldthread-Sphagnum Forest                                          | White Cedar-Goldthread-Sphagnum Forest                                          | Wetland     | GNR  |  | SNR | Central Ontario Forest Ecosystems Classification | SW | SWM |      |  |  |
| CV39   | 201045 | Black Spruce-Jack Pine-Trembling Aspen-White Birch-Blueberry-Feathermoss Forest | Black Spruce-Jack Pine-Trembling Aspen-White Birch-Blueberry-Feathermoss Forest | Terrestrial | GNR  |  | SNR | Central Ontario Forest Ecosystems Classification | FO | FOM | FOM9 |  |  |
| CV4    | 201010 | Sugar Maple-White Birch-Basswood/Striped Maple-Herb Rich Forest                 | Sugar Maple-White Birch-Basswood/Striped Maple-Herb Rich Forest                 | Terrestrial | GNR  |  | SNR | Central Ontario Forest Ecosystems Classification | FO | FOD | FOD5 |  |  |
| CV40   | 201046 | Black Spruce-Jack Pine-Red Pine-White Pine-Blueberry-Feathermoss Forest         | Black Spruce-Jack Pine-Red Pine-White Pine-Blueberry-Feathermoss Forest         | Terrestrial | GNR  |  | SNR | Central Ontario Forest Ecosystems Classification | FO | FOC | FOC5 |  |  |
| CV41   | 201047 | Black Spruce-Tamarack-Labrador Tea-Sphagnum Forest                              | Black Spruce-Tamarack-Labrador Tea-Sphagnum Forest                              | Wetland     | GNR  |  | SNR | Central Ontario Forest Ecosystems Classification | SW | SWC | SWC4 |  |  |
| CV5    | 201011 | Sugar Maple-Red Oak-Basswood-Ironwood/Leatherwood Forest                        | Sugar Maple-Red Oak-Basswood-Ironwood/Leatherwood Forest                        | Terrestrial | GNR  |  | SNR | Central Ontario Forest Ecosystems Classification | FO | FOD | FOD5 |  |  |
| CV6    | 201012 | Red Oak-Sugar Maple/Ironwood-Fly Honeysuckle Forest                             | Red Oak-Sugar Maple/Ironwood-Fly Honeysuckle Forest                             | Terrestrial | GNR  |  | SNR | Central Ontario Forest Ecosystems Classification | FO | FOD | FOD2 |  |  |
| CV7    | 201013 | Black Ash-Hardwoods/Herb Rich Forest                                            | Black Ash-Hardwoods/Herb Rich Forest                                            | Wetland     | GNR  |  | SNR | Central Ontario Forest Ecosystems Classification | SW | SWD |      |  |  |
| CV8    | 201014 | White Cedar-Hardwoods/Fragrant Bedstraw-Herb Rich Forest                        | White Cedar-Hardwoods/Fragrant Bedstraw-Herb Rich Forest                        | Wetland     | GNR  |  | SNR | Central Ontario Forest Ecosystems Classification | SW | SWM |      |  |  |
| CV9    | 201015 | White Cedar-Hardwoods/Dwarf Raspberry-Mountain Maple-Herb Rich                  | White Cedar-Hardwoods/Dwarf Raspberry-Mountain Maple-Herb Rich                  | Wetland     | GNR  |  | SNR | Central Ontario Forest Ecosystems Classification | SW | SWM |      |  |  |
| DWT1-1 | 194127 | Bur Oak - Saskatoon Berry Dry Deciduous Woodland Type                           | Bur Oak - Saskatoon Berry Dry Deciduous Woodland Type                           | Terrestrial | G3   |  | S2  | Ontario Natural Heritage Information Centre      | DW | DWT | DWT1 |  |  |
| FEO1-1 | 183749 | Twig-rush Graminoid Fen Type                                                    | Twig-rush Graminoid Fen Type                                                    | Wetland     | G3Q  |  | S3? | Ontario Natural Heritage Information Centre      | FE | FEO | FEO1 |  |  |
| FEO1-2 | 183604 | Slender Sedge Graminoid Fen Type                                                | Slender Sedge Graminoid Fen Type                                                | Wetland     | G4G5 |  | S5  | Ontario Natural Heritage Information Centre      | FE | FEO | FEO1 |  |  |

\* Not a complete list.