



Surrey Langley SkyTrain:
Environmental Screening Review



transportation
investment
corporation

November 2023

Volume 2 – Appendices



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Vancouver, BC V6E 3P3

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




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APPENDIX F

Fisheries and Aquatics Figures

Project Study Area

Legend

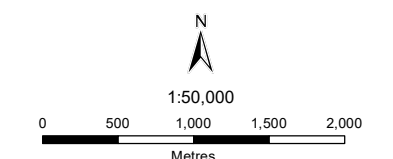
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-  Mapsheet and Page Number
-  Administrative Area
-  First Nation Reserve
-  Watercourse
-  Waterbody

Notes

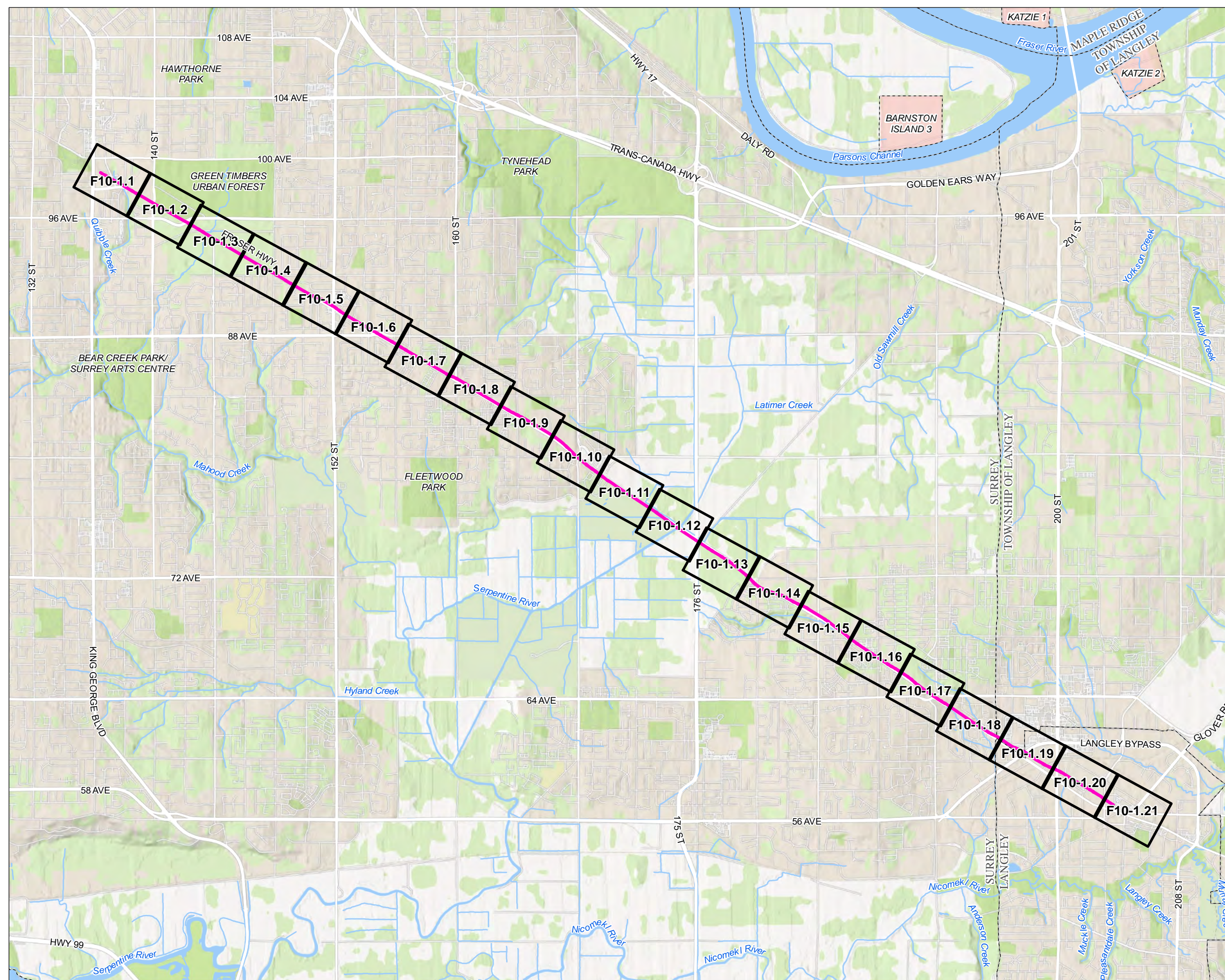
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Sources

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- Base Map: ESRI World Topographic Map



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Project Study Area

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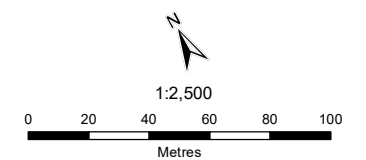
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- Fisheries and Aquatics Study Area
- Railway
- Municipal Right-of-Way (ROW)¹
- Surrey Langley SkyTrain Project**
- Temporary At-grade or Aerial Footprint
- Permanent At-grade Footprint
- Watercourse Classification**
- Class A (fish-bearing)
- Class B (non-fish-bearing, food and nutrients)
- Class C (non-fish-bearing)

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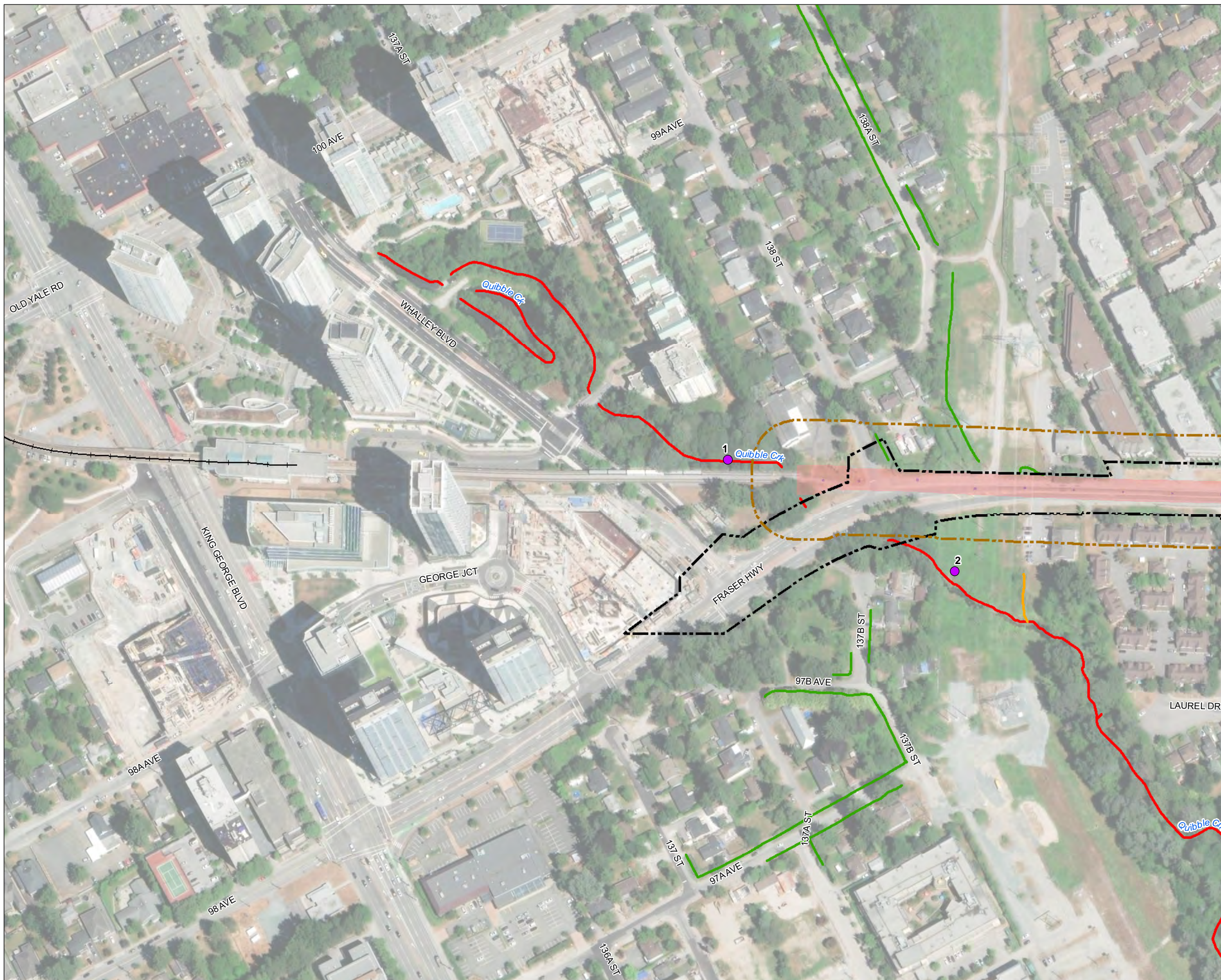
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Project Study Area

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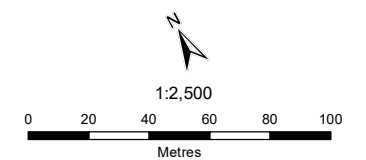
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- Green Timbers Urban Forest
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- Class C (non-fish-bearing)
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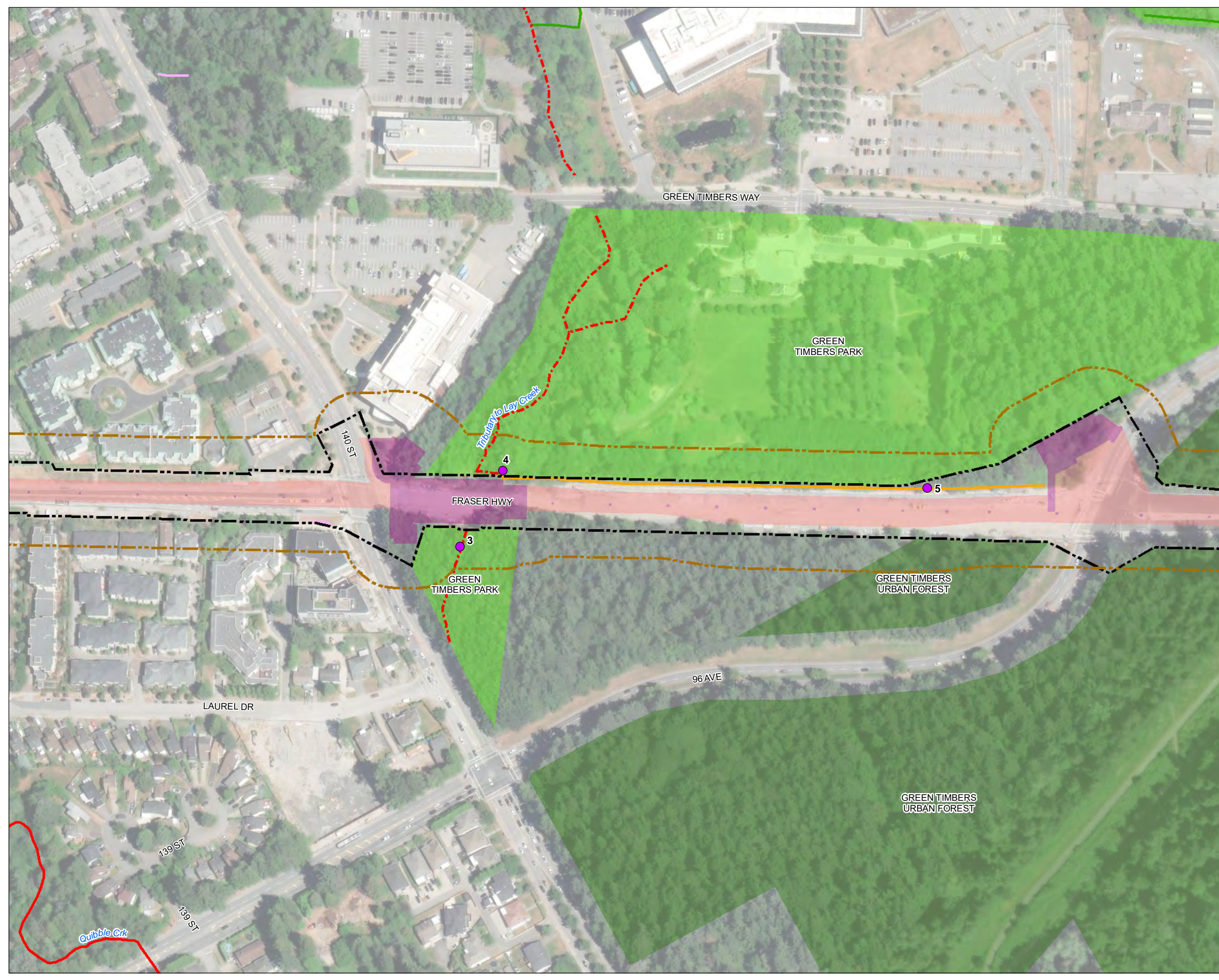
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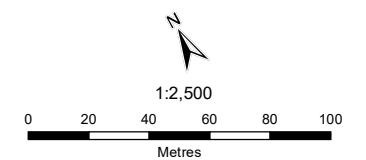
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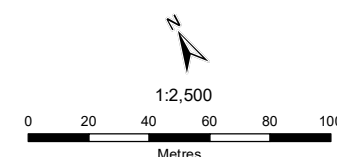
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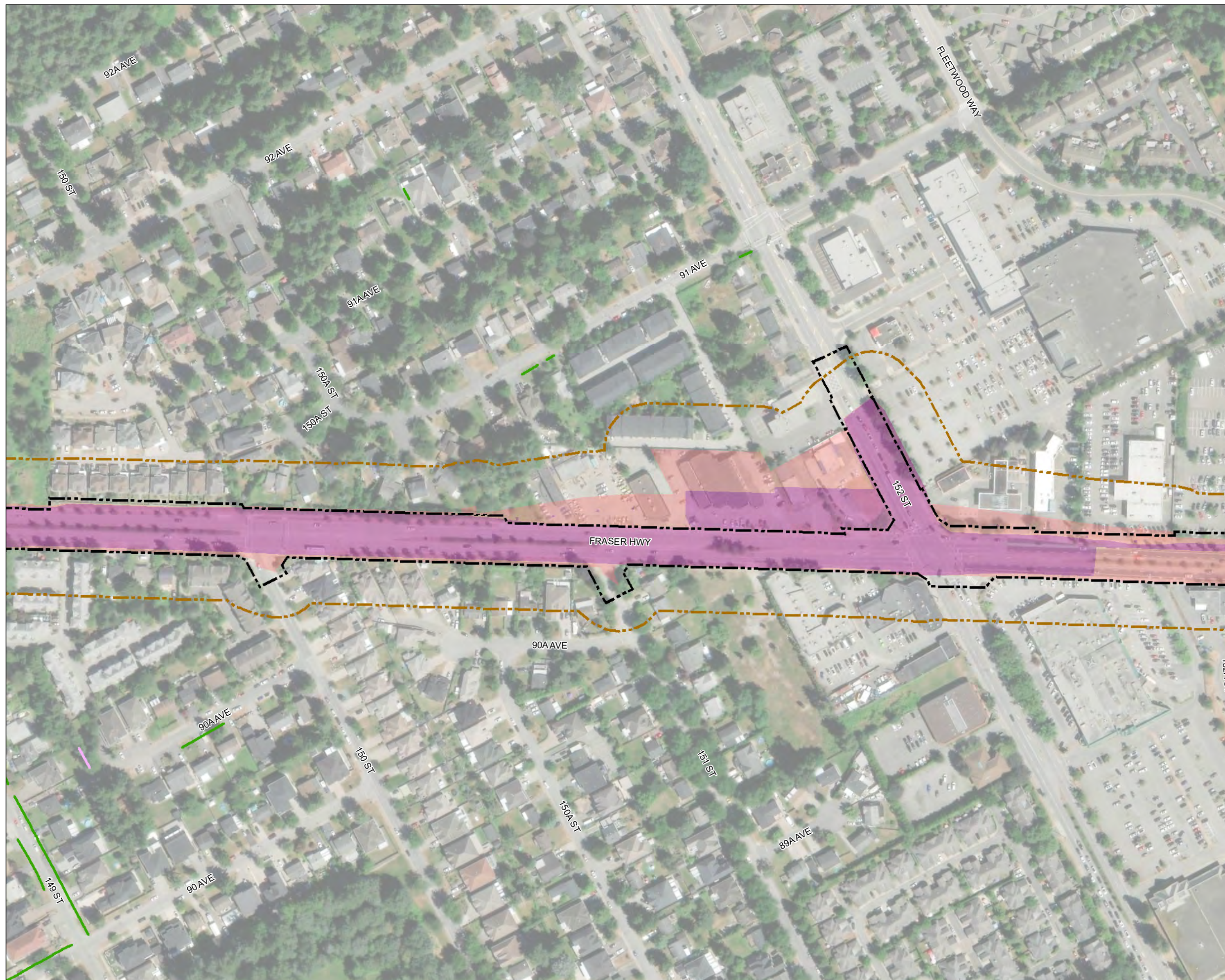
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Project Study Area

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- Surrey Langley SkyTrain Project**
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-  Permanent At-grade Footprint
- Watercourse Classification**
-  Class C (non-fish-bearing)
-  Unknown

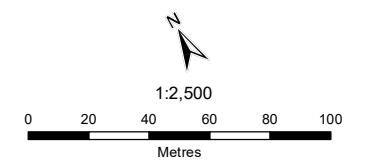


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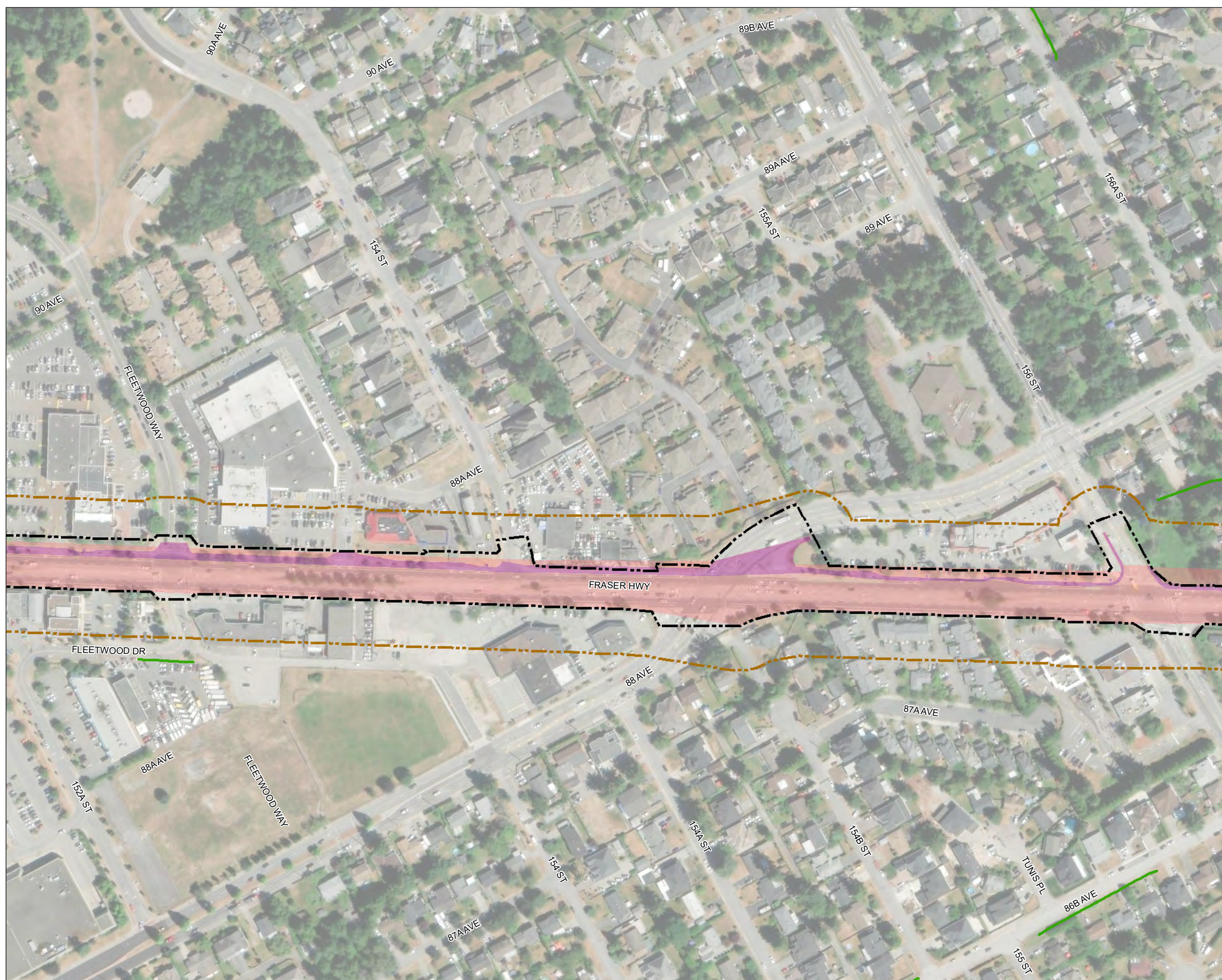


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Project Study Area

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-  Municipal Right-of-Way (ROW)¹
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-  Temporary At-grade or Aerial Footprint
-  Permanent At-grade Footprint
- Watercourse Classification**
-  Class C (non-fish-bearing)

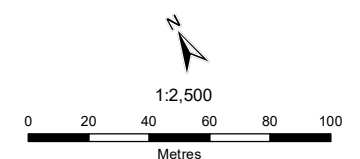


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Project Study Area

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-  Fisheries and Aquatics Study Area
-  Municipal Right-of-Way (ROW)¹
- Surrey Langley SkyTrain Project**
-  Temporary At-grade or Aerial Footprint
-  Permanent At-grade Footprint
- Watercourse Classification**
-  Class C (non-fish-bearing)

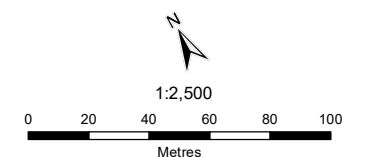


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Figure F10-1.7

Project Study Area

Legend

- Baseline Site ID
- Fisheries and Aquatics Study Area
- Municipal Right-of-Way (ROW)¹
- Surrey Langley SkyTrain Project**
- Temporary At-grade or Aerial Footprint
- Permanent At-grade Footprint
- Watercourse Classification**
- Class C (non-fish-bearing)

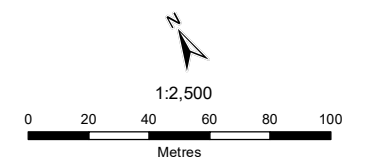


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Project Study Area

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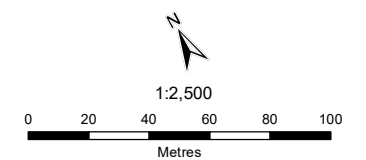
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-  Municipal Right-of-Way (ROW)¹
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-  Temporary At-grade or Aerial Footprint
-  Permanent At-grade Footprint
- Watercourse Classification**
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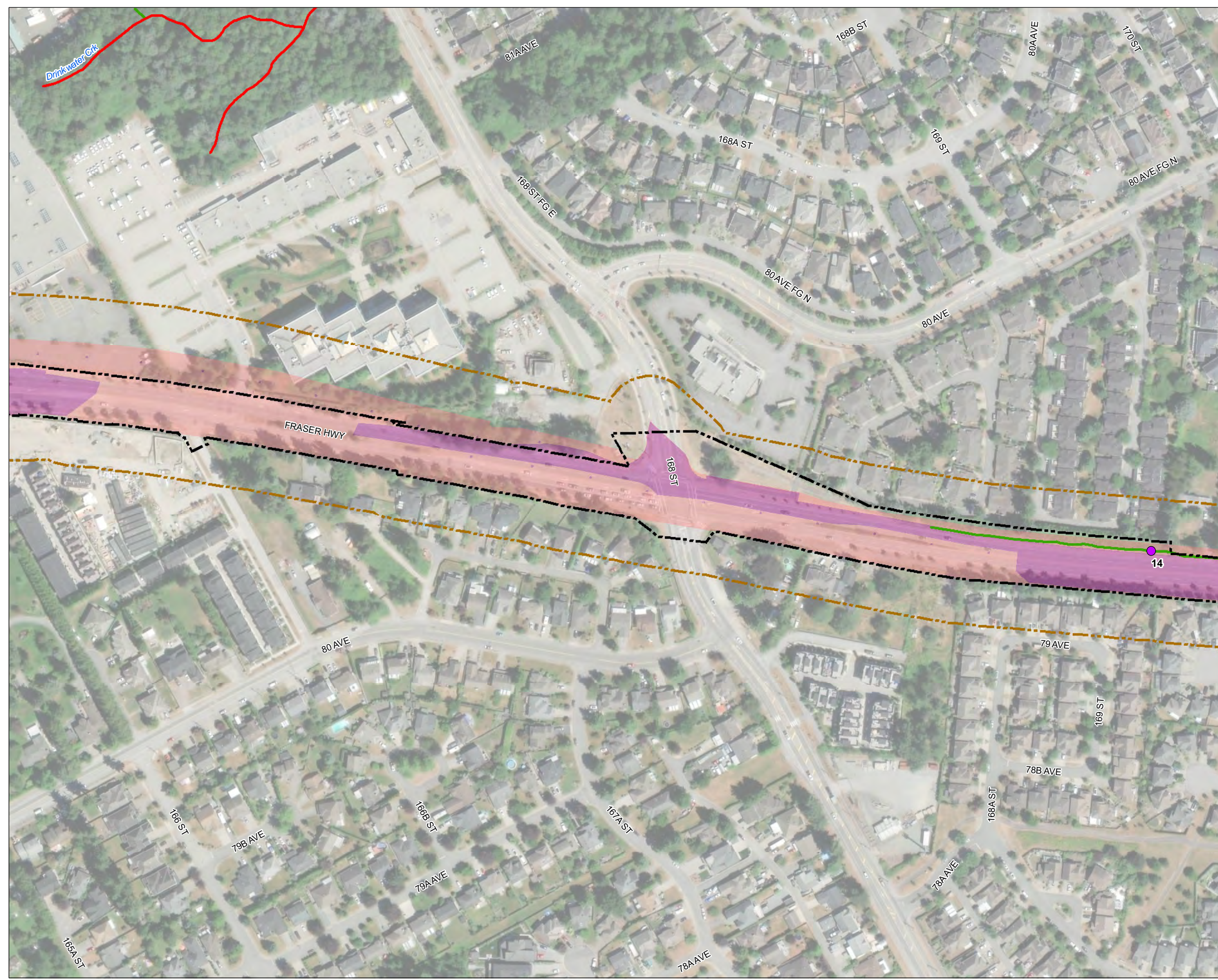
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Project Study Area

Legend

- Baseline Site ID
- Fisheries and Aquatics Study Area
- Municipal Right-of-Way (ROW)¹
- Surrey Langley SkyTrain Project**
- Temporary At-grade or Aerial Footprint
- Permanent At-grade Footprint
- Watercourse Classification**
- Class A (fish-bearing)
- Class C (non-fish-bearing)

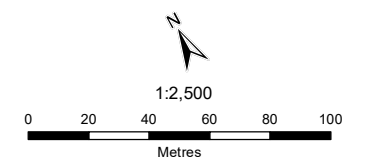


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Project Study Area

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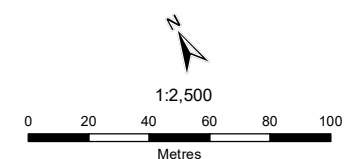


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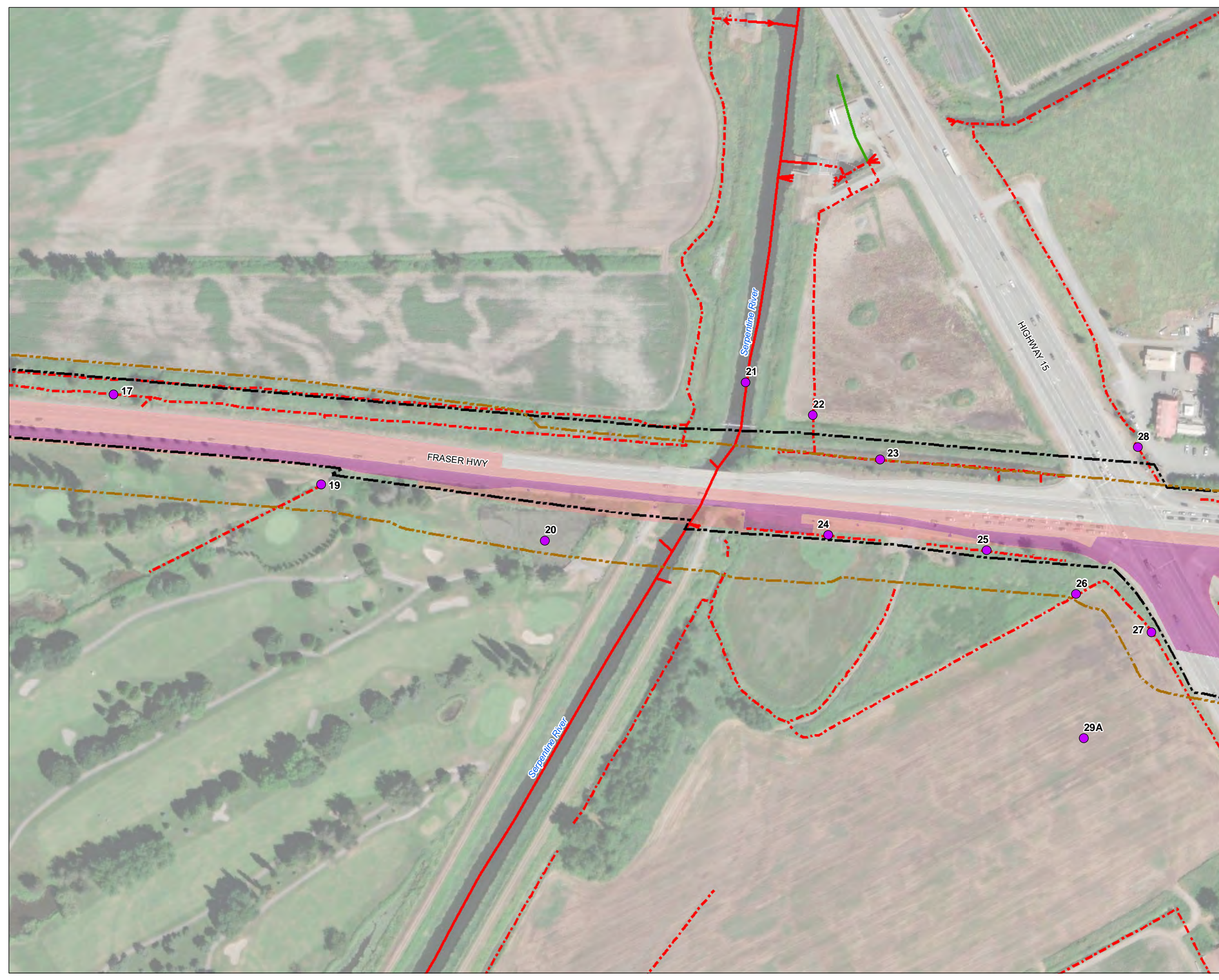


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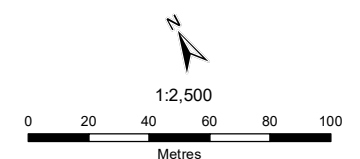


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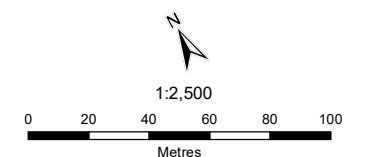
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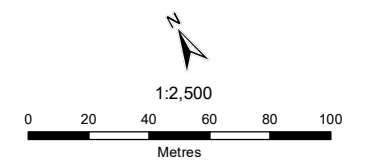
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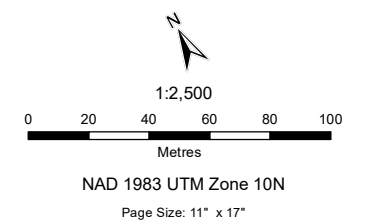


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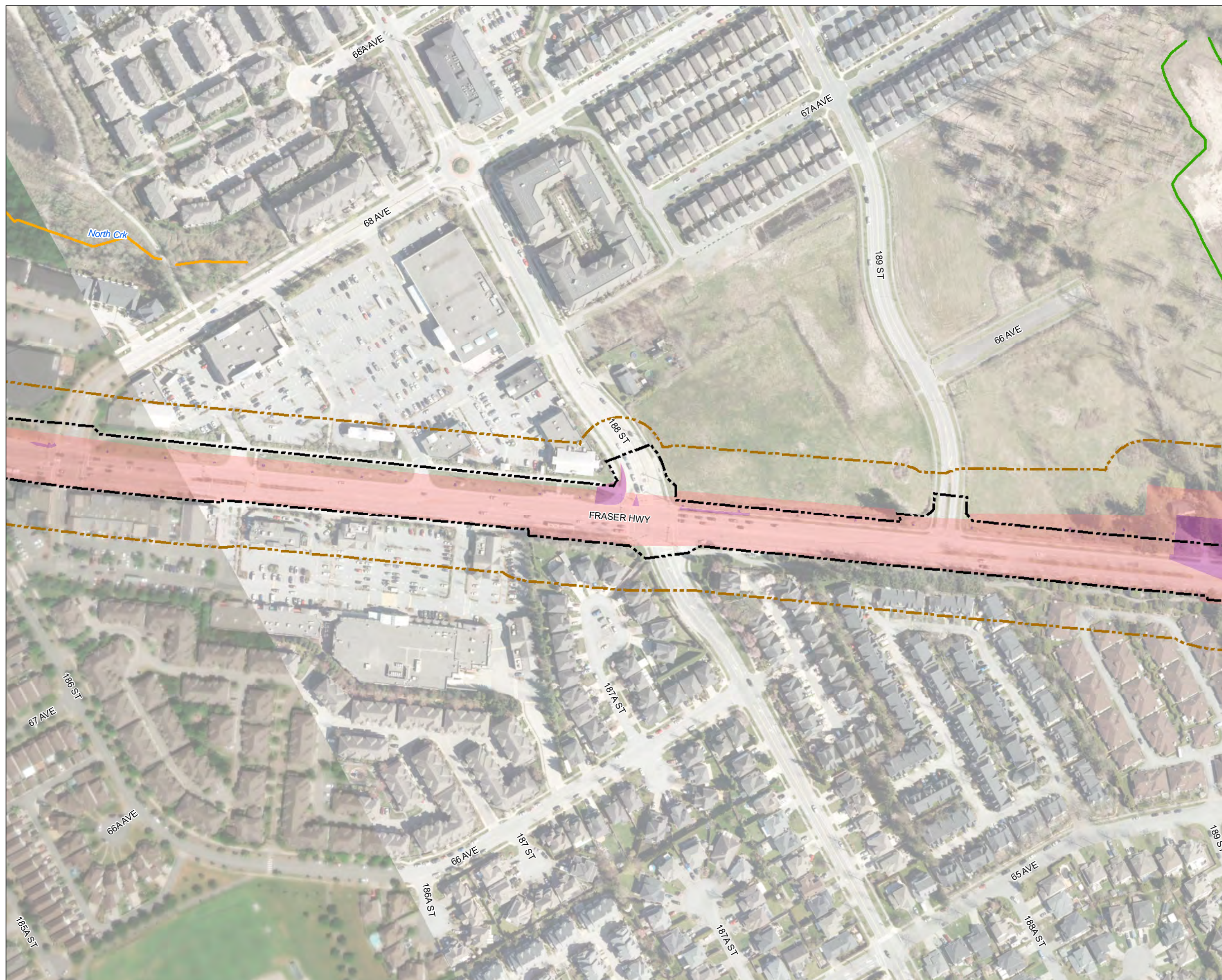


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-  Class B (non-fish-bearing, food and nutrients)
-  Class C (non-fish-bearing)

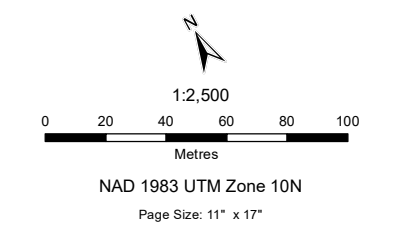


Notes

1. Right-of-way digitized from the City of Surrey lot lines dataset from property package dataset available from Surrey Open Data and British Columbia's cadastral dataset. The boundary may not match the actual right-of-way boundary.
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Sources

- Contains information licensed under the Open Government Licences - British Columbia, City of Surrey
- Water classifications: City of Surrey
- Surrey Langley SkyTrain Footprints: Hatch
- Aerial Image: ESRI World Imagery



Project Study Area

Legend

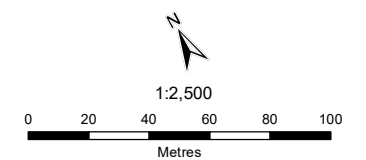
- Baseline Site ID
- Fisheries and Aquatics Study Area
- Municipal Right-of-Way (ROW)¹
- Surrey Langley SkyTrain Project**
- Temporary At-grade or Aerial Footprint
- Permanent At-grade Footprint
- Watercourse Classification**
- Class A (fish-bearing)
- Class B (non-fish-bearing, food and nutrients)
- Class C (non-fish-bearing)
- Unknown

Notes

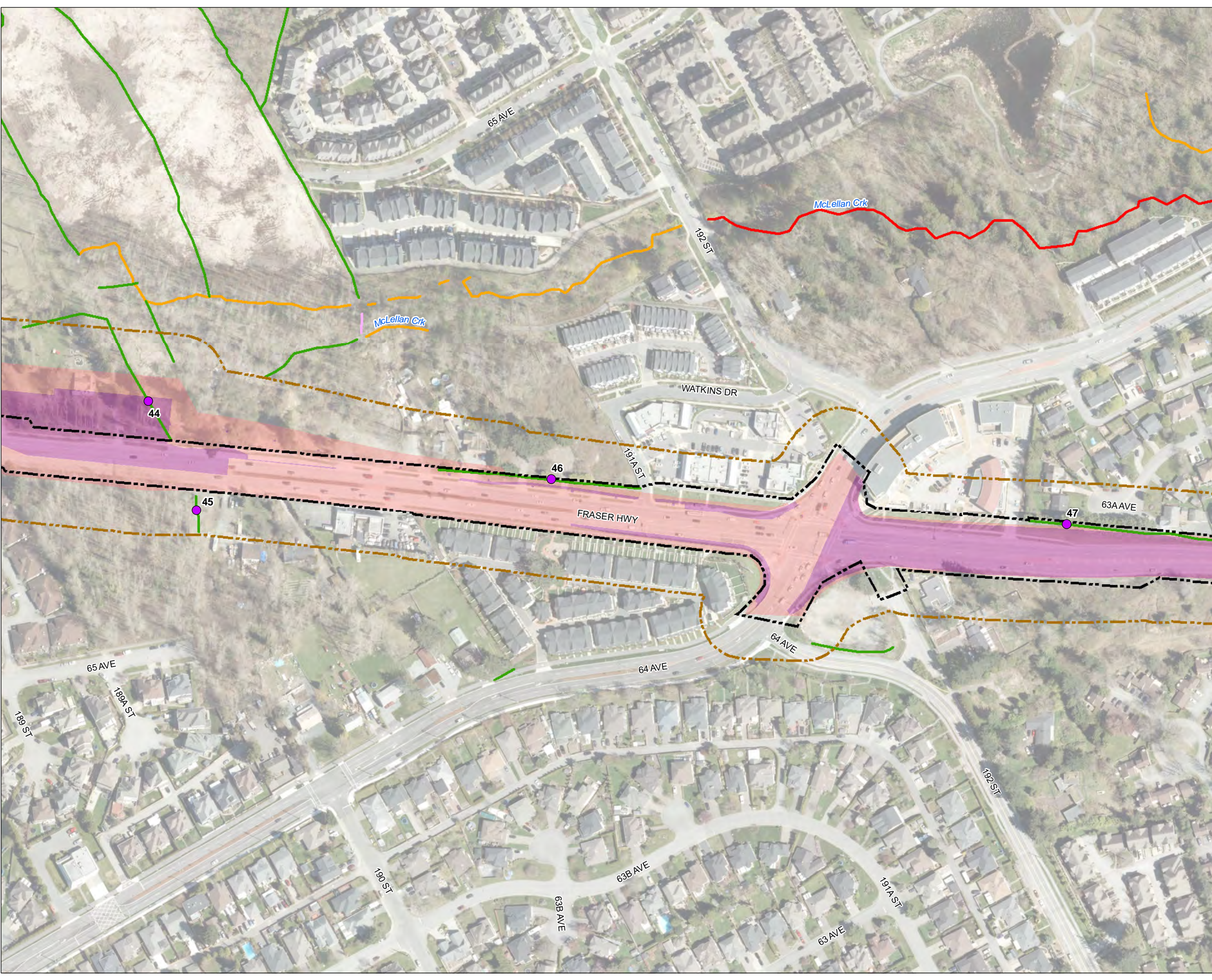
1. Right-of-way digitized from the City of Surrey lot lines dataset from property package dataset available from Surrey Open Data and British Columbia's cadastral dataset. The boundary may not match the actual right-of-way boundary.
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- Aerial Image: ESRI World Imagery










Path: S:\03emafcs\Project\103715\04\mofmap\plan_hatch\fig_10-1.17-1.17_103715_04_aquatics_project_watercourses.shx_230531.mxd



Project Study Area

Legend

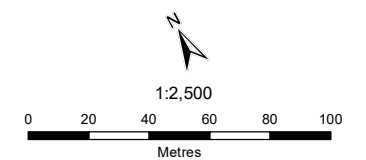
-  Fisheries and Aquatics Study Area
-  Municipal Right-of-Way (ROW)¹
- Surrey Langley SkyTrain Project**
-  Temporary At-grade or Aerial Footprint
-  Permanent At-grade Footprint
- Watercourse Classification**
-  Class A (fish-bearing)
-  Class B (non-fish-bearing, food and nutrients)
-  Class C (non-fish-bearing)

Notes

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- Surrey Langley SkyTrain Footprints: Hatch
- Aerial Image: ESRI World Imagery



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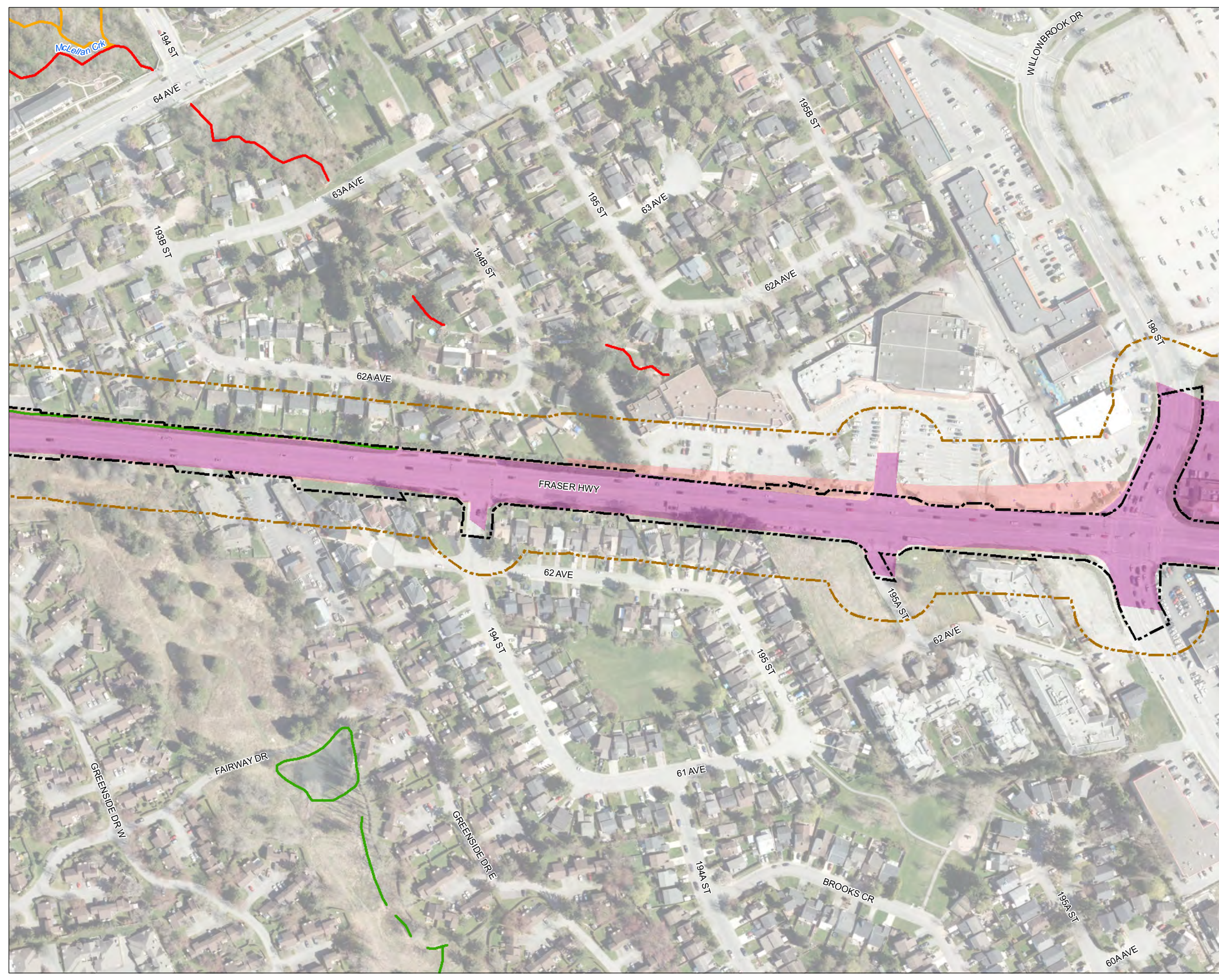
103715-04

Production Date: May 31, 2023

Figure F10-1.18









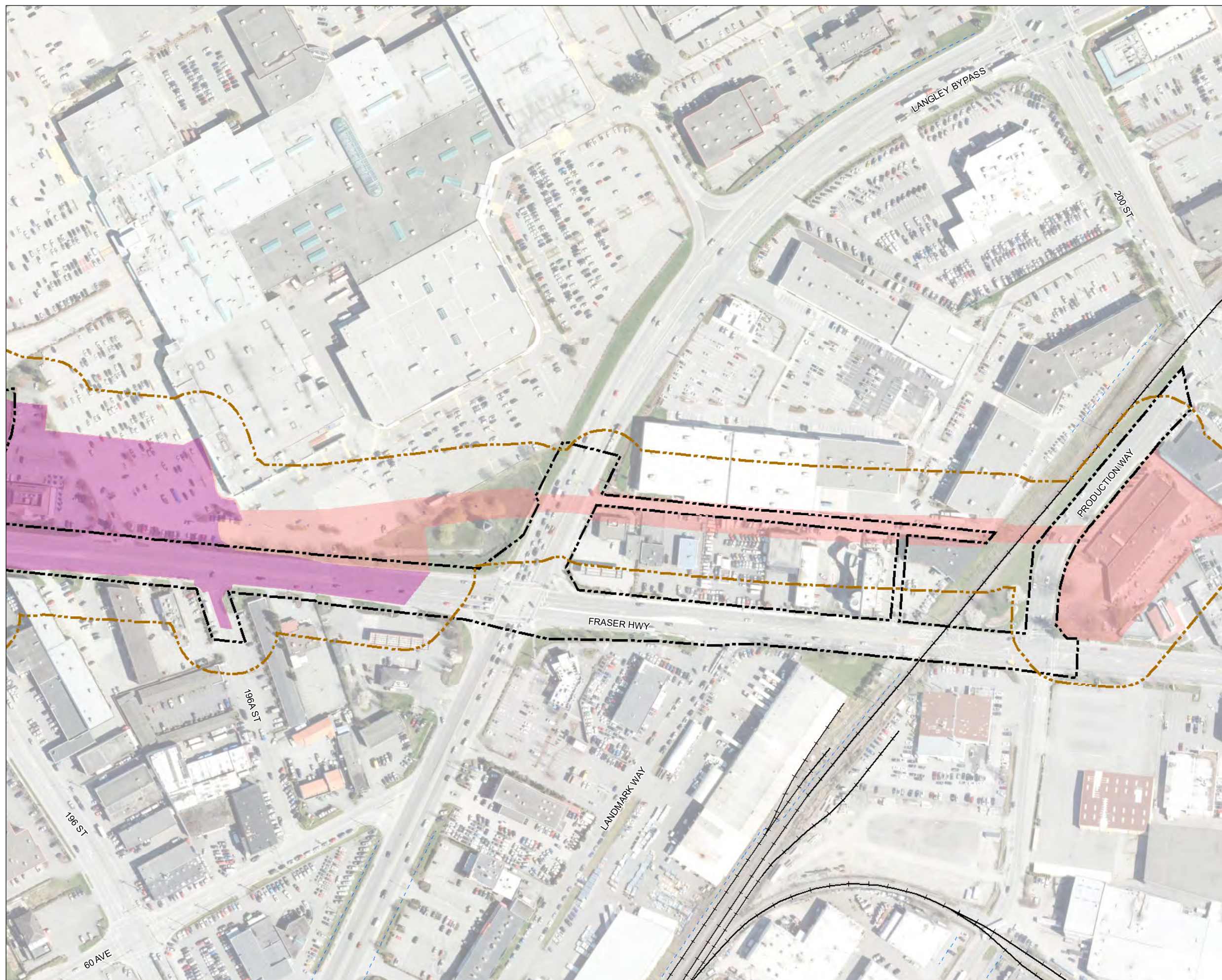
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Project Study Area

Legend

-  Fisheries and Aquatics Study Area
-  Railway
-  Ditch
-  Municipal Right-of-Way (ROW)¹
- Surrey Langley SkyTrain Project**
-  Temporary At-grade or Aerial Footprint
-  Permanent At-grade Footprint

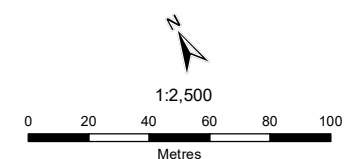


Notes

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Sources








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- Water classifications: City of Surrey
- Surrey Langley SkyTrain Footprints: Hatch
- Aerial Image: ESRI World Imagery

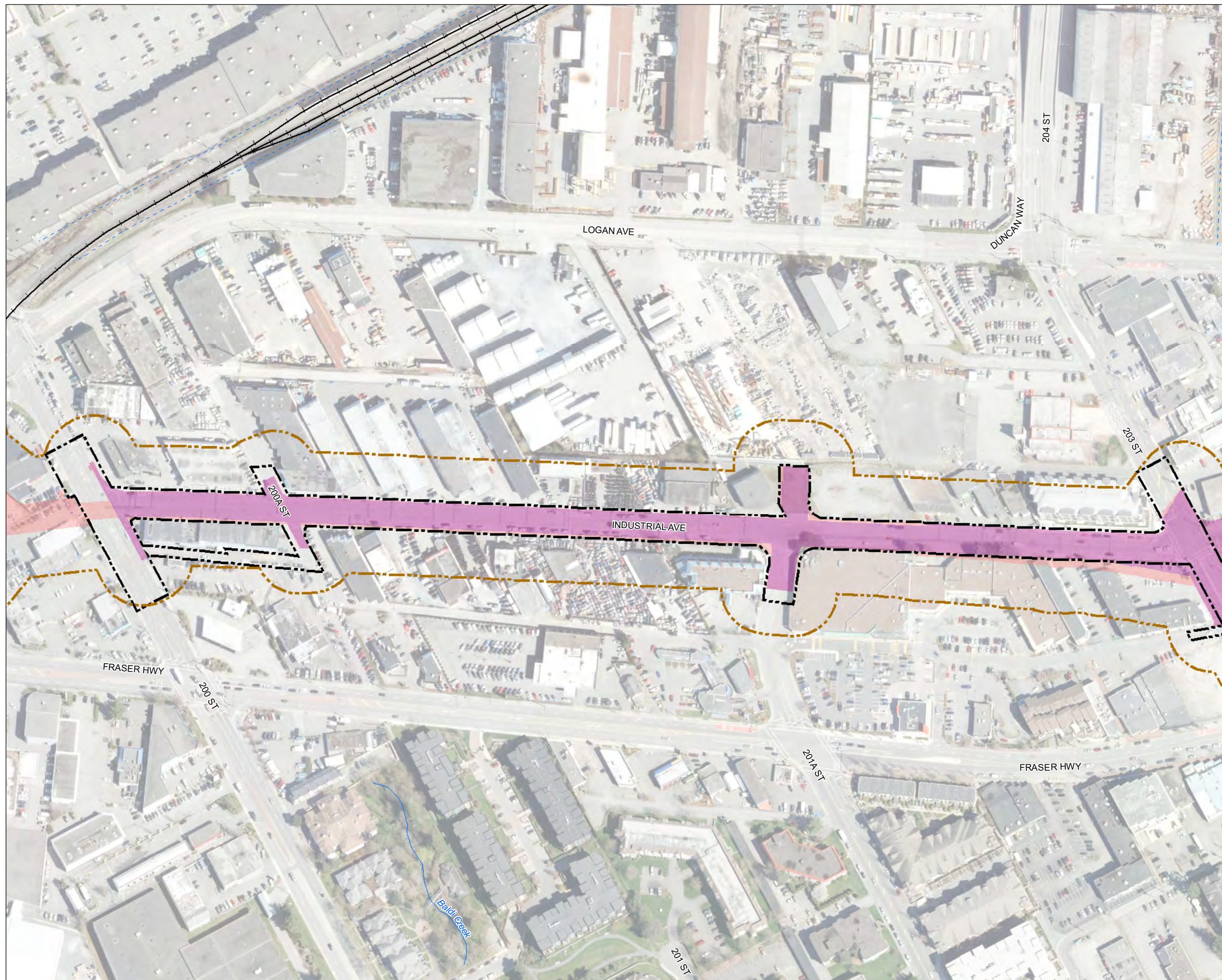


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Project Study Area

Legend

-  Fisheries and Aquatics Study Area
-  Railway
-  Ditch
-  Watercourse
-  Municipal Right-of-Way (ROW)¹
- Surrey Langley SkyTrain Project**
-  Temporary At-grade or Aerial Footprint
-  Permanent At-grade Footprint

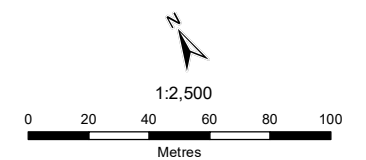


Notes

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- Aerial Image: ESRI World Imagery








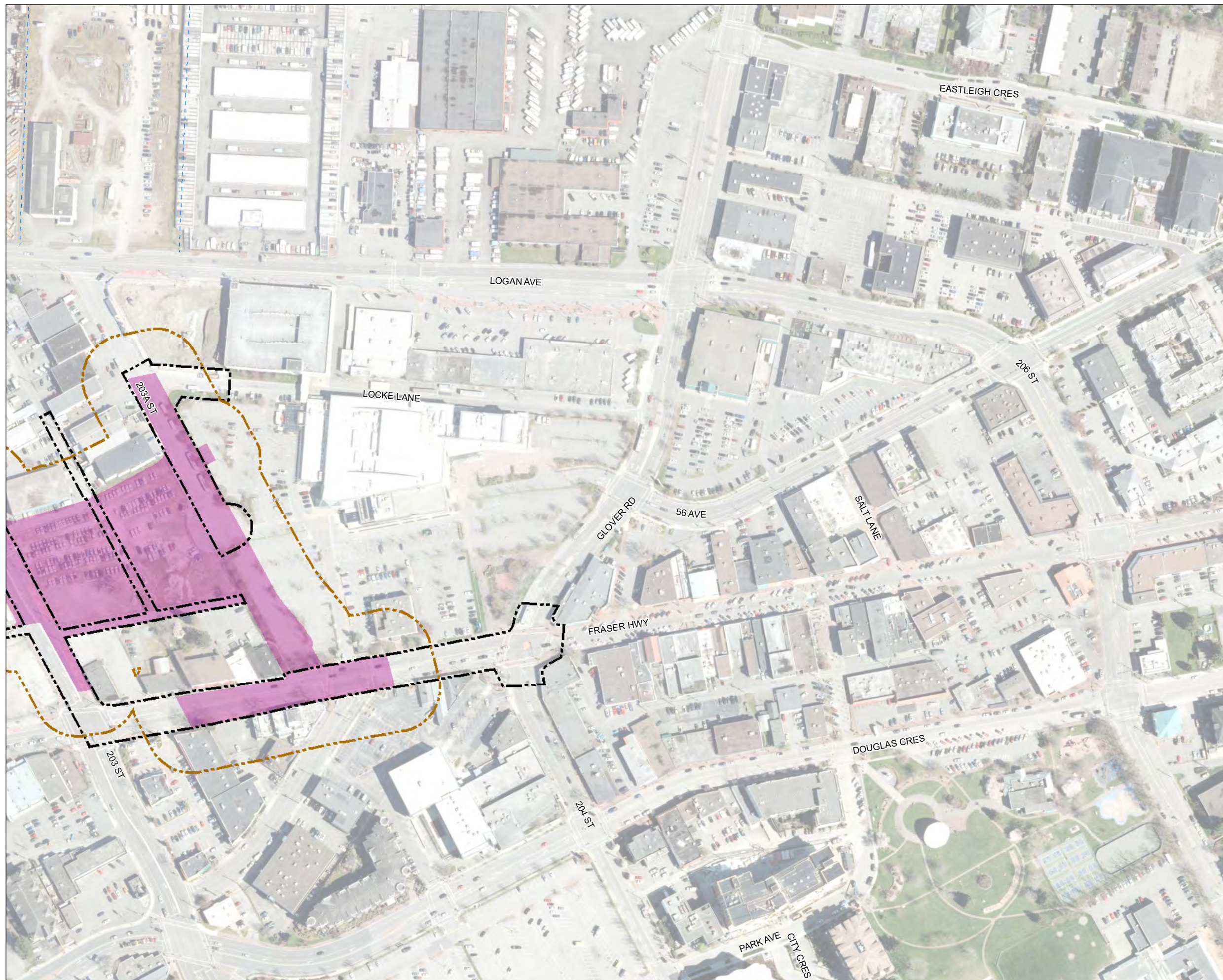
NAD 1983 UTM Zone 10N

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Project Study Area

Legend

-  Fisheries and Aquatics Study Area
-  Ditch
-  Municipal Right-of-Way (ROW)¹
- Surrey Langley SkyTrain Project**
-  Temporary At-grade or Aerial Footprint
-  Permanent At-grade Footprint

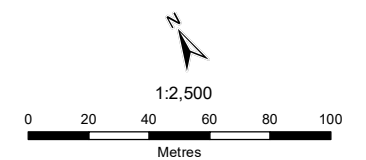


Notes

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- Surrey Langley SkyTrain Footprints: Hatch
- Aerial Image: ESRI World Imagery



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Watercourse Overview

Legend

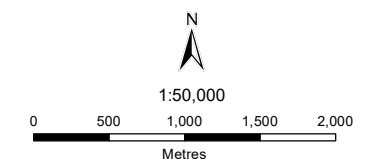
- Habitat Assessment Only
- Habitat Assessment and Electrofish Sampling
- Habitat Assessment and Minnow Trapping
- Site
- Fisheries and Aquatics Study Area
- Administrative Area
- First Nation Reserve
- Watercourse
- Waterbody

Notes

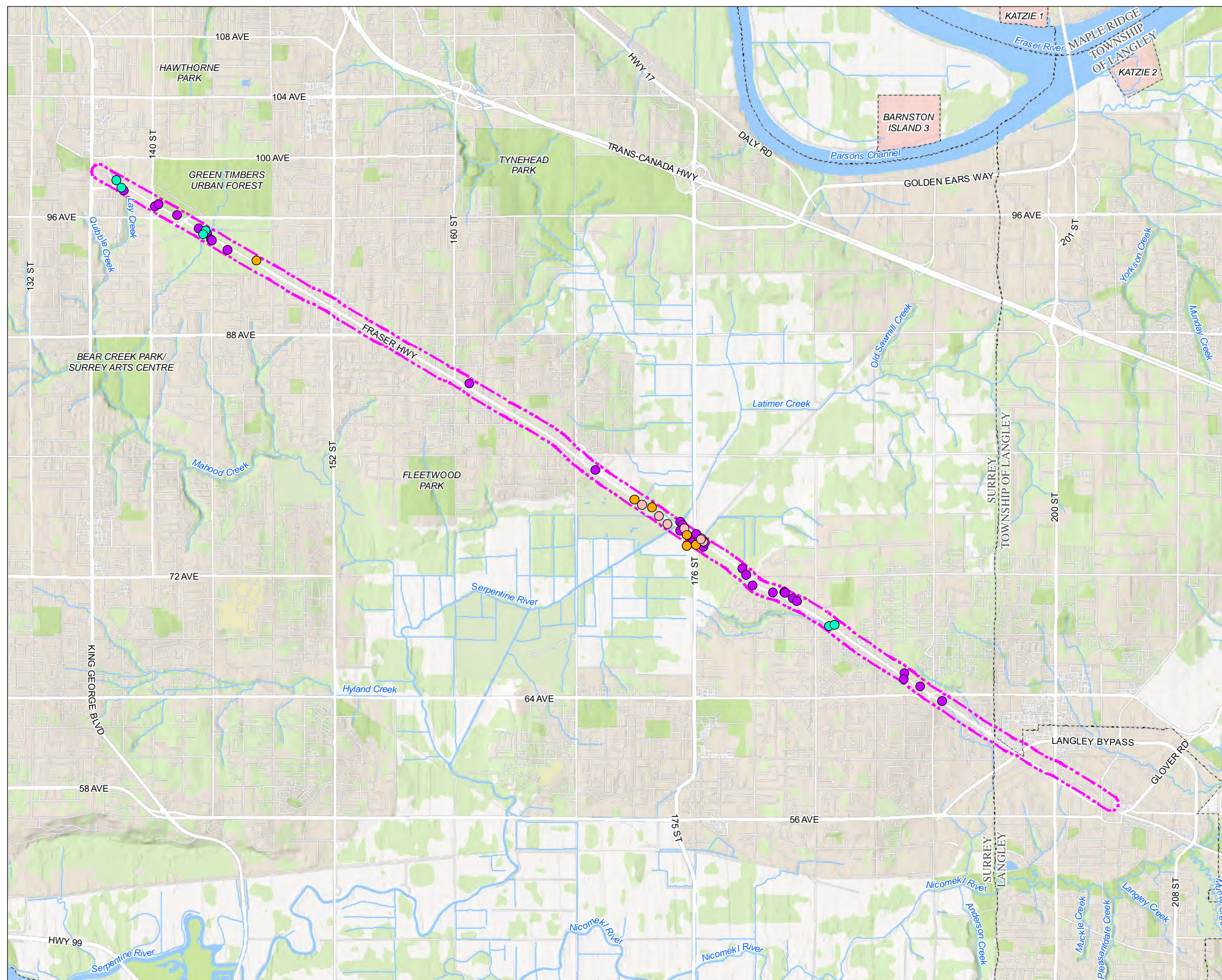
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- Base Map: ESRI World Topographic Map



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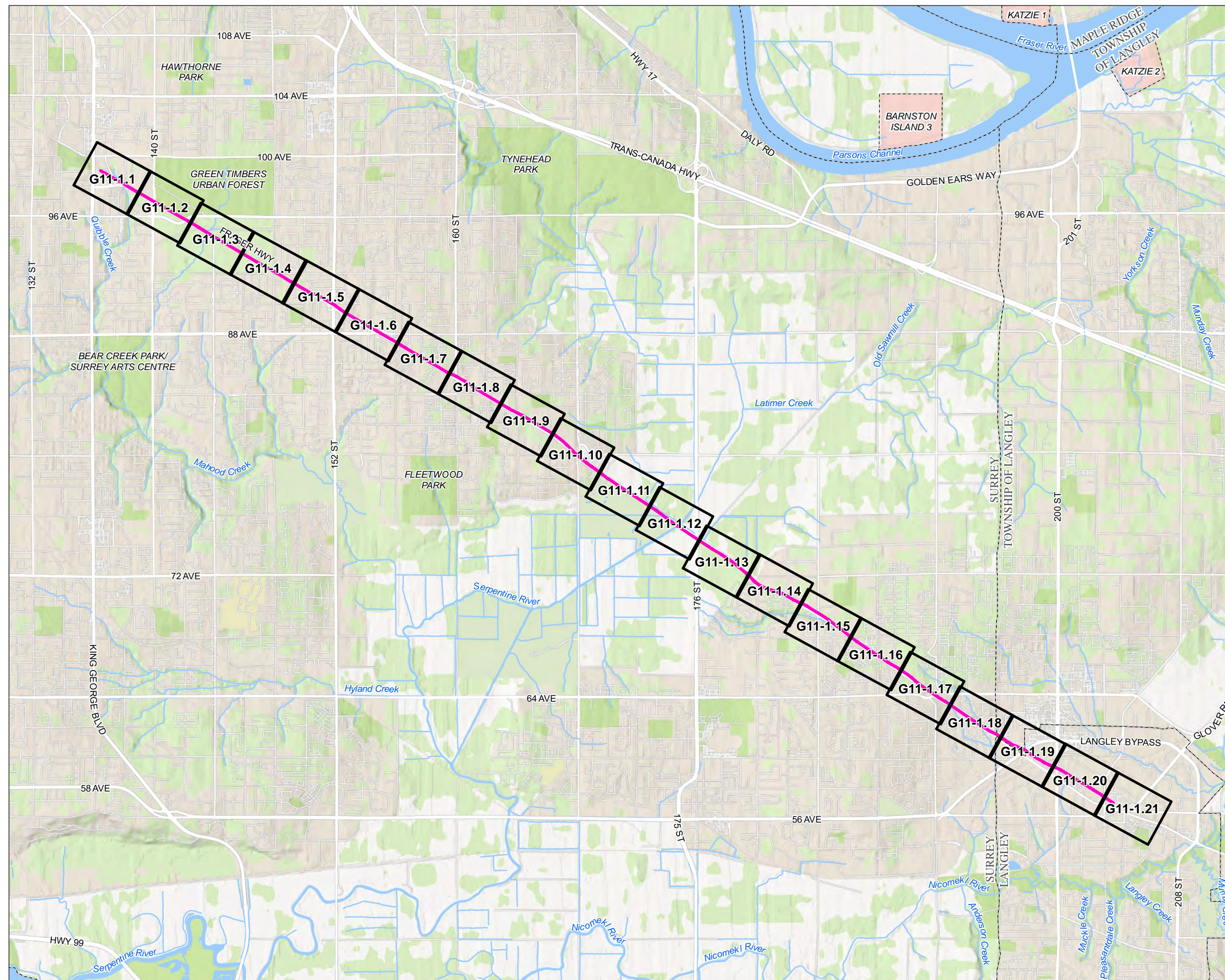


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APPENDIX G

Vegetation and Wildlife Resources Figures

Potential Project Interactions with
Vegetation and Wildlife (Excluding Trees)



Legend

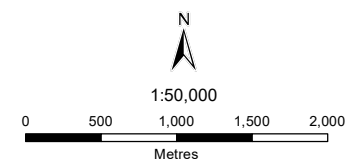
- Surrey Langley SkyTrain Project Centreline
- G11-1.1 Mapsheet and Page Number
- Administrative Area
- First Nation Reserve
- Watercourse
- Waterbody

Notes

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- Base Map: ESRI World Topographic Map

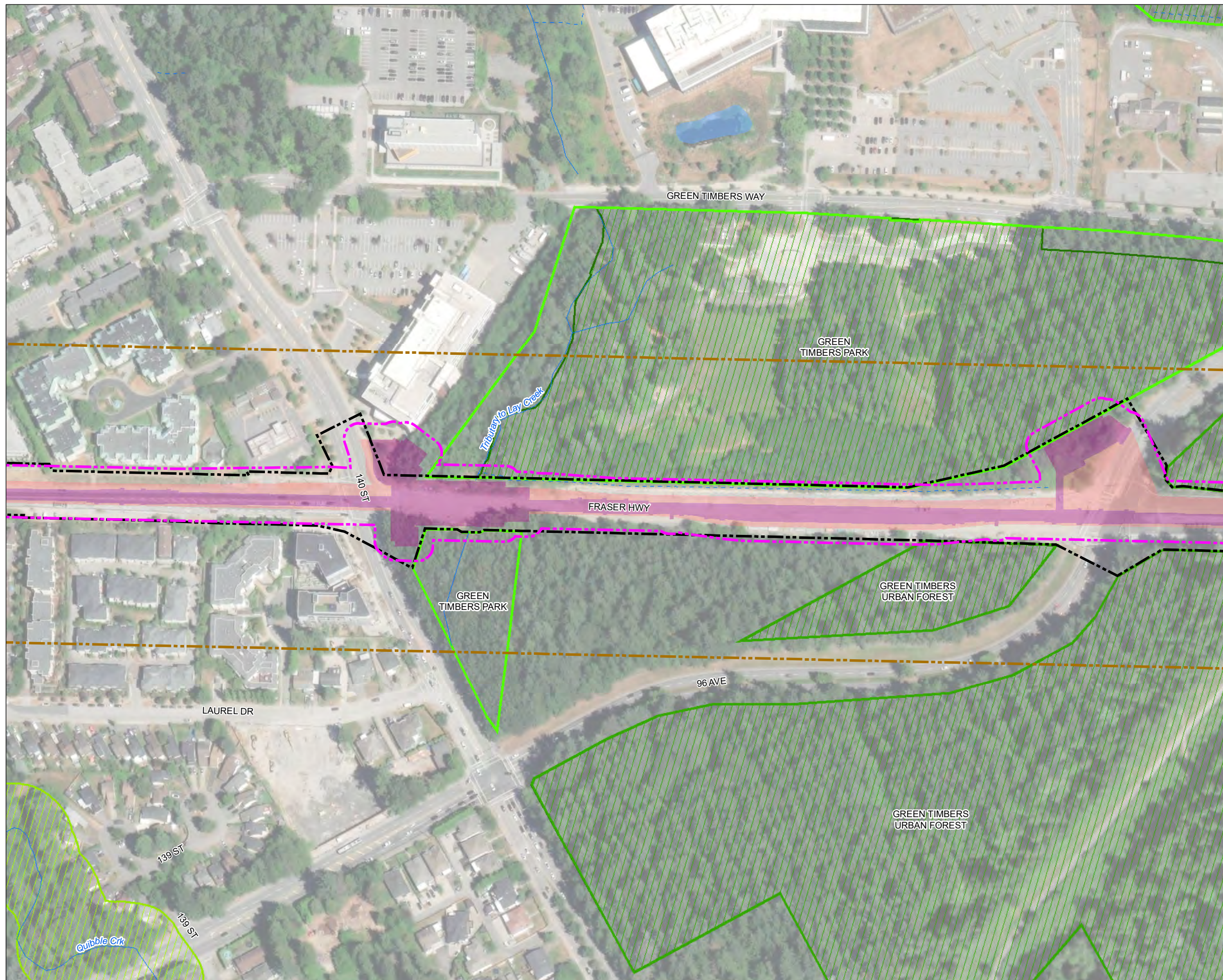


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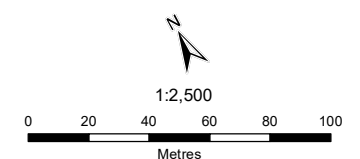
Potential Project Interactions with
Vegetation and Wildlife (Excluding Trees)



- Legend**
- Vegetation Study Area
 - Wildlife Study Area
 - Green Infrastructure Network Corridor
 - Green Infrastructure Network Hubs and Sites
 - Municipal Right-of-Way (ROW)¹
 - Green Timbers Park
 - Green Timbers Urban Forest
 - Ditch
 - Watercourse
 - Waterbody
- Surrey Langley SkyTrain Project**
- Temporary At-grade or Aerial Footprint
 - Permanent Footprint

- Notes**
1. The City of Surrey portion of the right-of-way was digitized from the City of Surrey lot lines dataset from property package dataset available from Surrey Open Data. The Township of Langley and the City of Langley portion of the right-of-way was digitized from British Columbia's cadastral dataset available on DataBC. The boundaries presented may not match the actual right-of-way boundaries.
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- Sources**
- Contains information licensed under the Open Government Licences - British Columbia, City of Surrey, City of Langley
 - Green Infrastructure Network Corridor; Bald Eagle Nest; & Green Timbers Park: City of Surrey
 - Surrey Langley SkyTrain Footprints: Hatch
 - Barn Owl Critical Habitat: Government of Canada
 - Aerial Image: ESRI World Imagery



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Potential Project Interactions with
Vegetation and Wildlife (Excluding Trees)



Legend

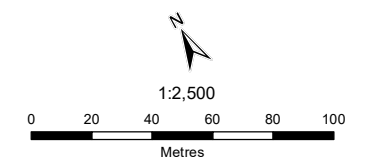
- Vegetation Study Area
- Wildlife Study Area
- Green Infrastructure Network Hubs and Sites
- Municipal Right-of-Way (ROW)¹
- Green Timbers Park
- Green Timbers Urban Forest
- Ditch
- Watercourse
- eDNA Locations and Results**
- Northern Red-legged Frog
- Surrey Langley SkyTrain Project**
- Temporary At-grade or Aerial Footprint
- Permanent Footprint

Notes

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Sources

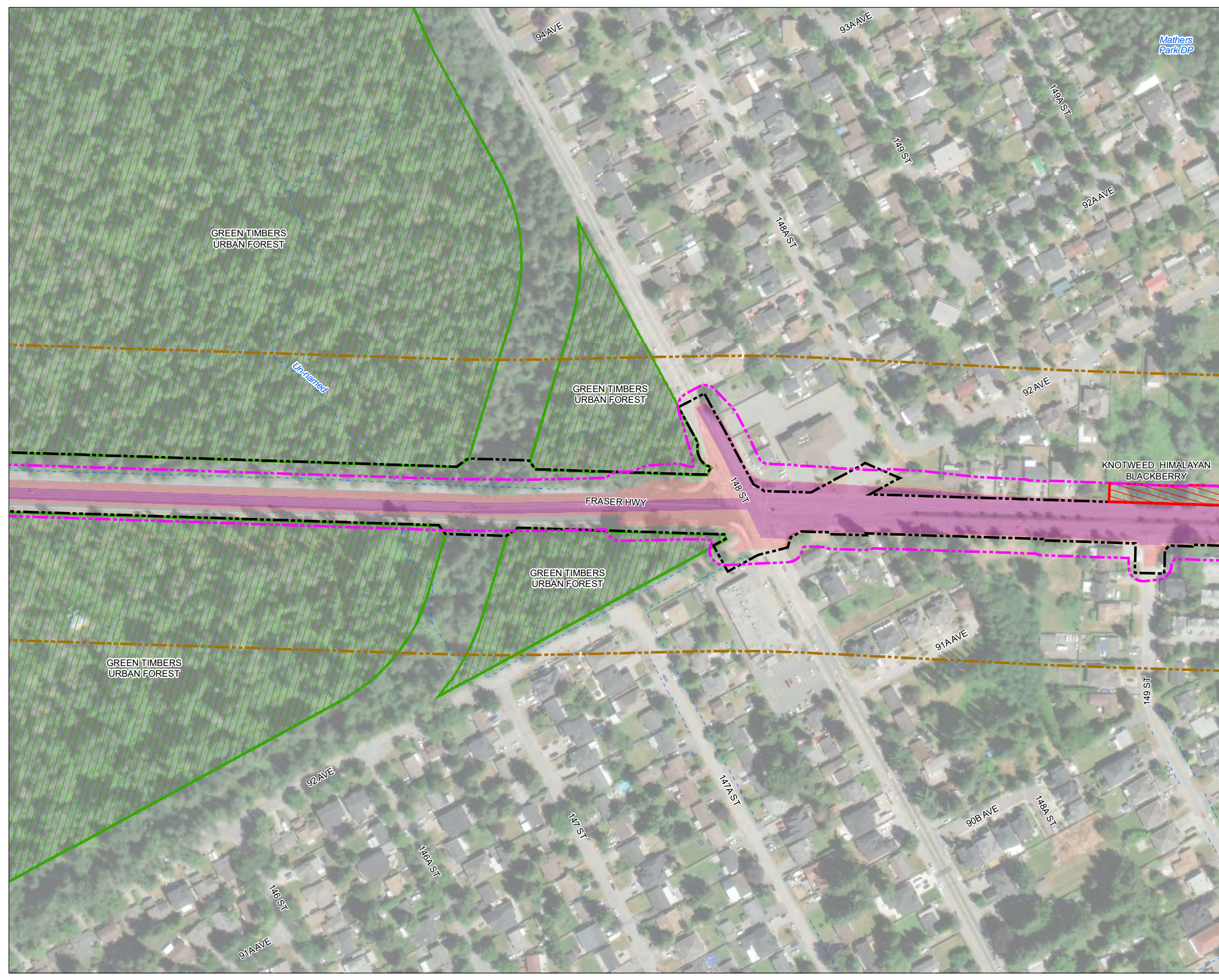
- Contains information licensed under the Open Government Licences - British Columbia, City of Surrey, City of Langley
- Green Infrastructure Network Corridor; Bald Eagle Nest; & Green Timbers Park; City of Surrey
- Surrey Langley SkyTrain Footprints: Hatch
- Barn Owl Critical Habitat: Government of Canada
- Aerial Image: ESRI World Imagery



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Page Size: 11" x 17"

Potential Project Interactions with
Vegetation and Wildlife (Excluding Trees)



Legend

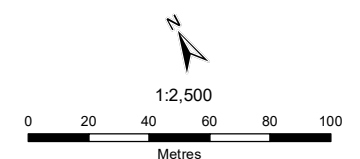
- Vegetation Study Area
- Wildlife Study Area
- Invasive Plant Occurrence (field surveys)
- Green Infrastructure Network Hubs and Sites
- Municipal Right-of-Way (ROW)¹
- Green Timbers Urban Forest
- Ditch
- Waterbody
- Surrey Langley SkyTrain Project**
- Temporary At-grade or Aerial Footprint
- Permanent Footprint

Notes

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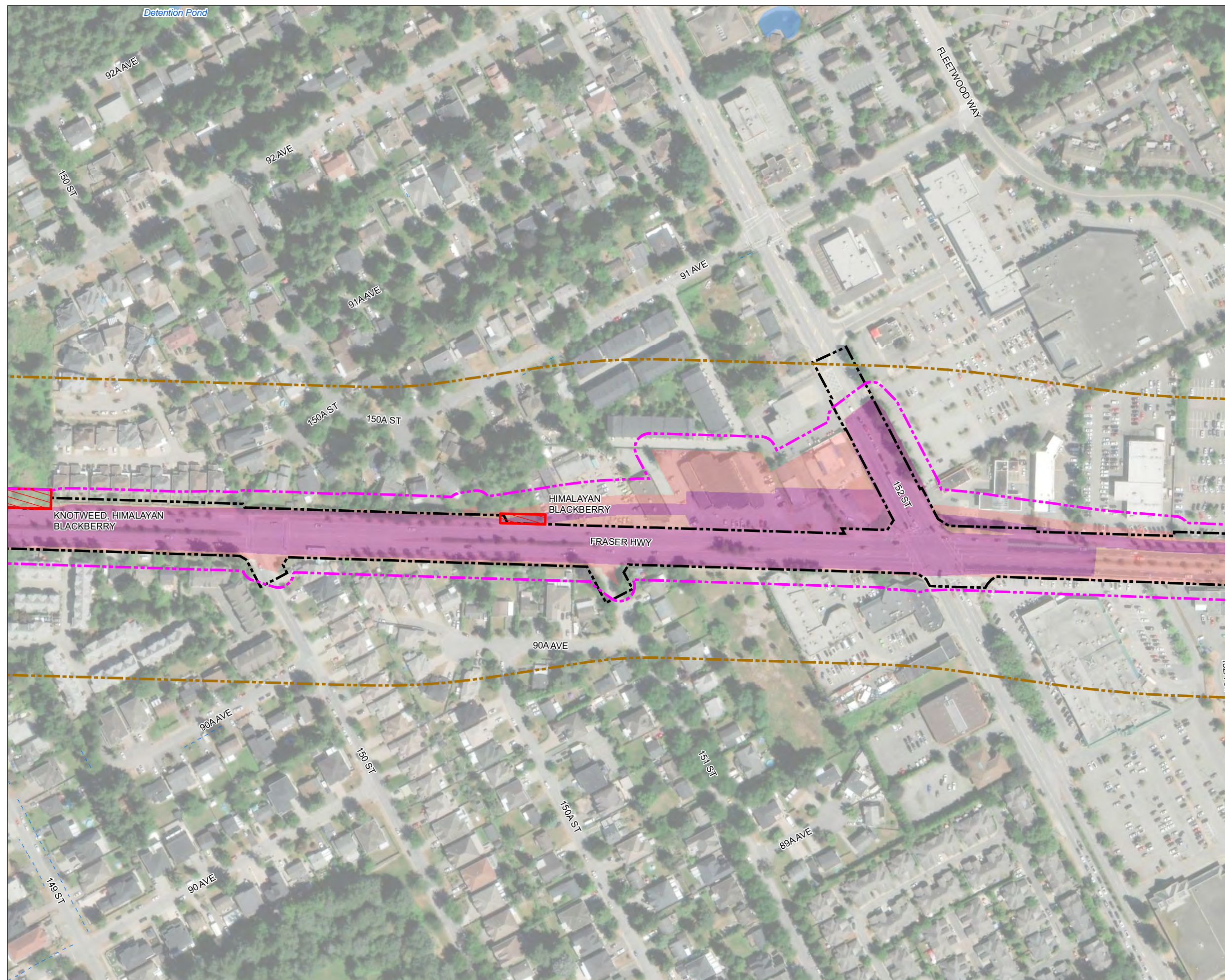
- Contains information licensed under the Open Government Licences - British Columbia, City of Surrey, City of Langley
- Green Infrastructure Network Corridor; Bald Eagle Nest; & Green Timbers Park; City of Surrey
- Surrey Langley SkyTrain Footprints: Hatch
- Barn Owl Critical Habitat: Government of Canada
- Aerial Image: ESRI World Imagery



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Page Size: 11" x 17"

Potential Project Interactions with
Vegetation and Wildlife (Excluding Trees)



Legend

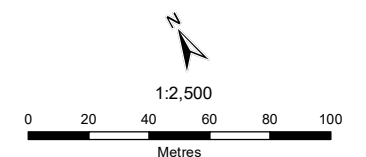
- Vegetation Study Area
- Wildlife Study Area
- Invasive Plant Occurrence (field surveys)
- Municipal Right-of-Way (ROW)¹
- Ditch
- Waterbody
- Surrey Langley SkyTrain Project**
- Temporary At-grade or Aerial Footprint
- Permanent Footprint

Notes

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- Barn Owl Critical Habitat: Government of Canada
- Aerial Image: ESRI World Imagery





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Page Size: 11" x 17"

**Potential Project Interactions with
Vegetation and Wildlife (Excluding Trees)**

Legend

-  Vegetation Study Area
-  Wildlife Study Area
-  Municipal Right-of-Way (ROW)¹
-  Ditch
- Surrey Langley SkyTrain Project**
-  Temporary At-grade or Aerial Footprint
-  Permanent Footprint

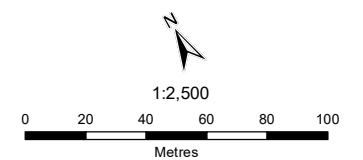


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- Surrey Langley SkyTrain Footprints: Hatch
- Barn Owl Critical Habitat: Government of Canada
- Aerial Image: ESRI World Imagery



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Page Size: 11" x 17"

**Potential Project Interactions with
Vegetation and Wildlife (Excluding Trees)**



Legend

- Vegetation Study Area
- Wildlife Study Area
- Municipal Right-of-Way (ROW)¹
- Ditch
- Watercourse
- Waterbody

Surrey Langley SkyTrain Project

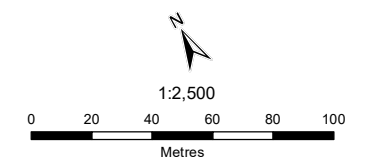
- Temporary At-grade or Aerial Footprint
- Permanent Footprint

Notes

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- Surrey Langley SkyTrain Footprints: Hatch
- Barn Owl Critical Habitat: Government of Canada
- Aerial Image: ESRI World Imagery



NAD 1983 UTM Zone 10N

Page Size: 11" x 17"

**Potential Project Interactions with
Vegetation and Wildlife (Excluding Trees)**



Legend

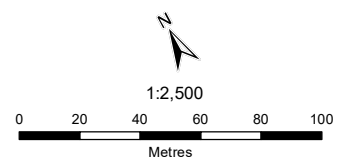
- Vegetation Study Area
- Wildlife Study Area
- Municipal Right-of-Way (ROW)¹
- Ditch
- Waterbody
- Surrey Langley SkyTrain Project**
- Temporary At-grade or Aerial Footprint
- Permanent Footprint

Notes

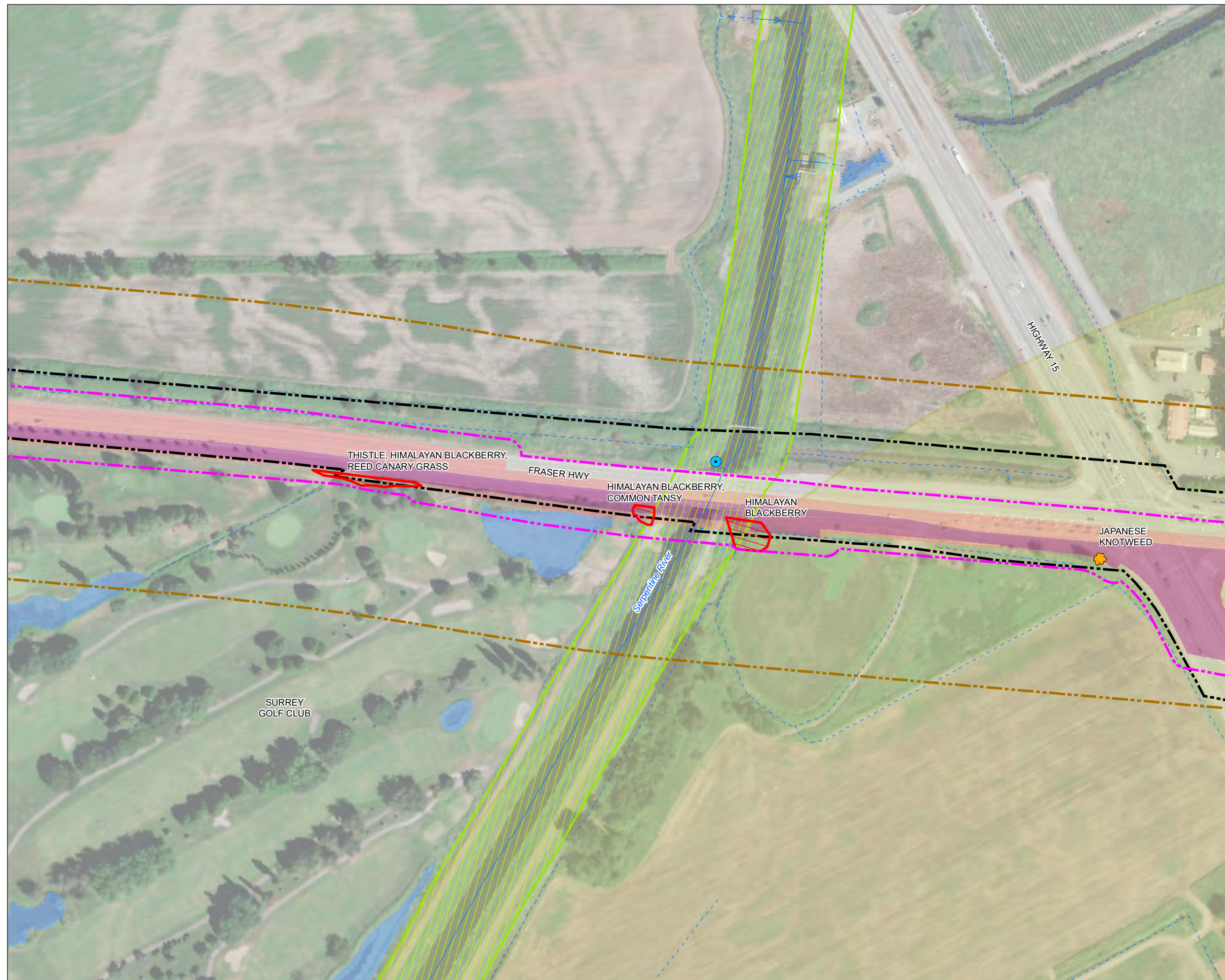
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- Surrey Langley SkyTrain Footprints: Hatch
- Barn Owl Critical Habitat: Government of Canada
- Aerial Image: ESRI World Imagery



Potential Project Interactions with
Vegetation and Wildlife (Excluding Trees)



Legend

- Invasive Plant Occurrence (IAPP)
- Vegetation Study Area
- Wildlife Study Area
- Proposed Barn Owl Critical Habitat
- Invasive Plant Occurrence (field surveys)
- Green Infrastructure Network Corridor
- Municipal Right-of-Way (ROW)¹
- Ditch
- Watercourse
- Waterbody

eDNA Locations and Results

- No Detection

Surrey Langley SkyTrain Project

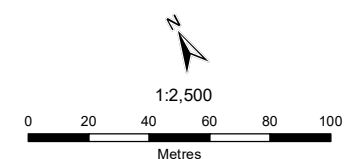
- Temporary At-grade or Aerial Footprint
- Permanent Footprint

Notes

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Sources

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- Green Infrastructure Network Corridor; Bald Eagle Nest; & Green Timbers Park; City of Surrey
- Surrey Langley SkyTrain Footprints: Hatch
- Barn Owl Critical Habitat: Government of Canada
- Aerial Image: ESRI World Imagery














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Page Size: 11" x 17"



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**Potential Project Interactions with
Vegetation and Wildlife (Excluding Trees)**

Legend

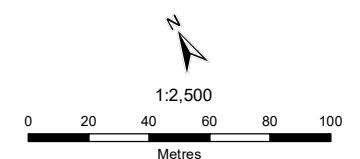
-  Vegetation Study Area
-  Wildlife Study Area
-  Proposed Barn Owl Critical Habitat
-  Invasive Plant Occurrence (field surveys)
-  Green Infrastructure Network Corridor
-  Municipal Right-of-Way (ROW)¹
-  Ditch
-  Watercourse
-  Waterbody
- Surrey Langley SkyTrain Project**
-  Temporary At-grade or Aerial Footprint
-  Permanent Footprint

Notes

1. The City of Surrey portion of the right-of-way was digitized from the City of Surrey lot lines dataset from property package dataset available from Surrey Open Data. The Township of Langley and the City of Langley portion of the right-of-way was digitized from British Columbia's cadastral dataset available on DataBC. The boundaries presented may not match the actual right-of-way boundaries.
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- Surrey Langley SkyTrain Footprints: Hatch
- Barn Owl Critical Habitat: Government of Canada
- Aerial Image: ESRI World Imagery










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Potential Project Interactions with
Vegetation and Wildlife (Excluding Trees)

Legend

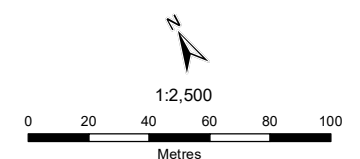
-  Bald Eagle Nest
-  Vegetation Study Area
-  Wildlife Study Area
-  Proposed Barn Owl Critical Habitat
-  Invasive Plant Occurrence (field surveys)
-  Green Infrastructure Network Corridor
-  Municipal Right-of-Way (ROW)¹
-  Ditch
-  Watercourse
- Surrey Langley SkyTrain Project**
-  Temporary At-grade or Aerial Footprint
-  Permanent Footprint

Notes

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- Surrey Langley SkyTrain Footprints: Hatch
- Barn Owl Critical Habitat: Government of Canada
- Aerial Image: ESRI World Imagery

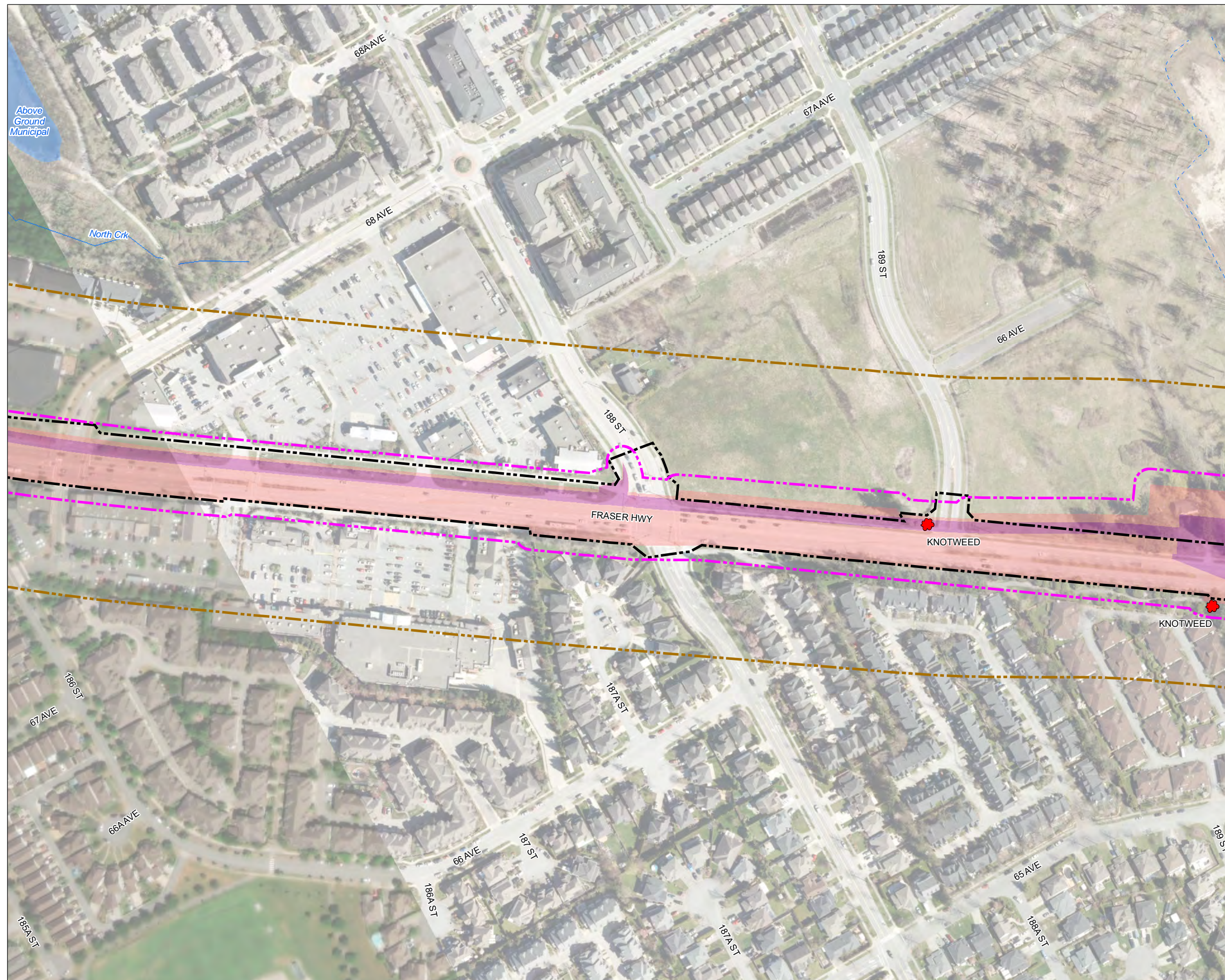


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Potential Project Interactions with
Vegetation and Wildlife (Excluding Trees)



Legend

- Invasive Plant Occurrence (field surveys)
- Vegetation Study Area
- Wildlife Study Area
- Municipal Right-of-Way (ROW)¹
- Ditch
- Watercourse
- Waterbody

Surrey Langley SkyTrain Project

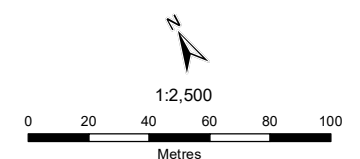
- Temporary At-grade or Aerial Footprint
- Permanent Footprint

Notes

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- Surrey Langley SkyTrain Footprints: Hatch
- Barn Owl Critical Habitat: Government of Canada
- Aerial Image: ESRI World Imagery



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**Potential Project Interactions with
Vegetation and Wildlife (Excluding Trees)**

Legend

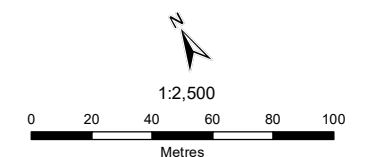
- Vegetation Study Area
- Wildlife Study Area
- Invasive Plant Occurrence (field surveys)
- Municipal Right-of-Way (ROW)¹
- Ditch
- Watercourse
- Waterbody
- Surrey Langley SkyTrain Project**
- Temporary At-grade or Aerial Footprint
- Permanent Footprint

Notes

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- Surrey Langley SkyTrain Footprints: Hatch
- Barn Owl Critical Habitat: Government of Canada
- Aerial Image: ESRI World Imagery



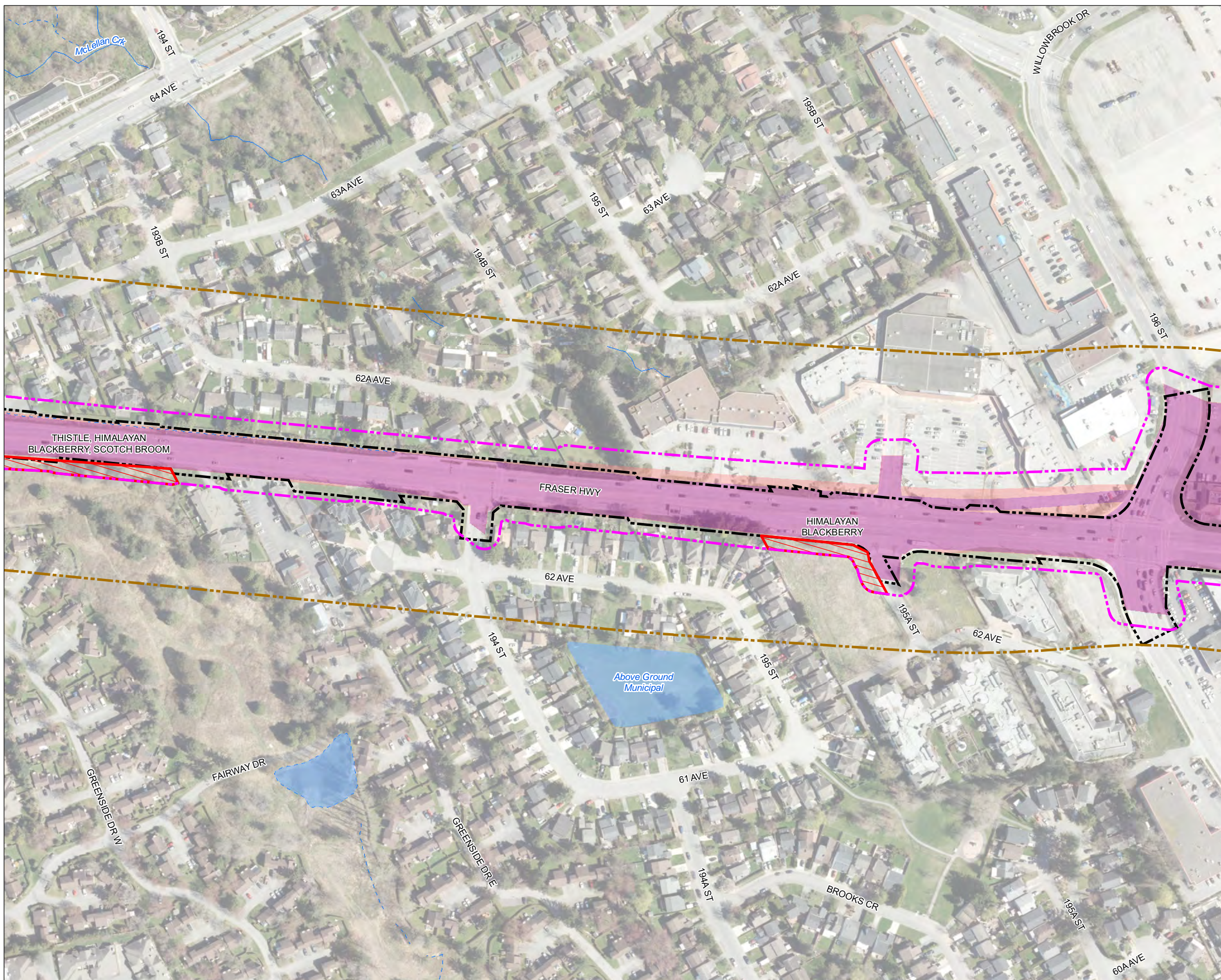
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103715-04

Production Date: Jun 1, 2023

Figure G11-1.18



**Potential Project Interactions with
Vegetation and Wildlife (Excluding Trees)**

Legend

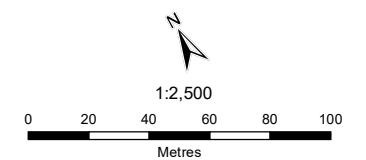
- Vegetation Study Area
 - Wildlife Study Area
 - Proposed Barn Owl Critical Habitat
 - Municipal Right-of-Way (ROW)¹
 - Railway
 - Ditch
- Surrey Langley SkyTrain Project**
- Temporary At-grade or Aerial Footprint
 - Permanent Footprint

Notes

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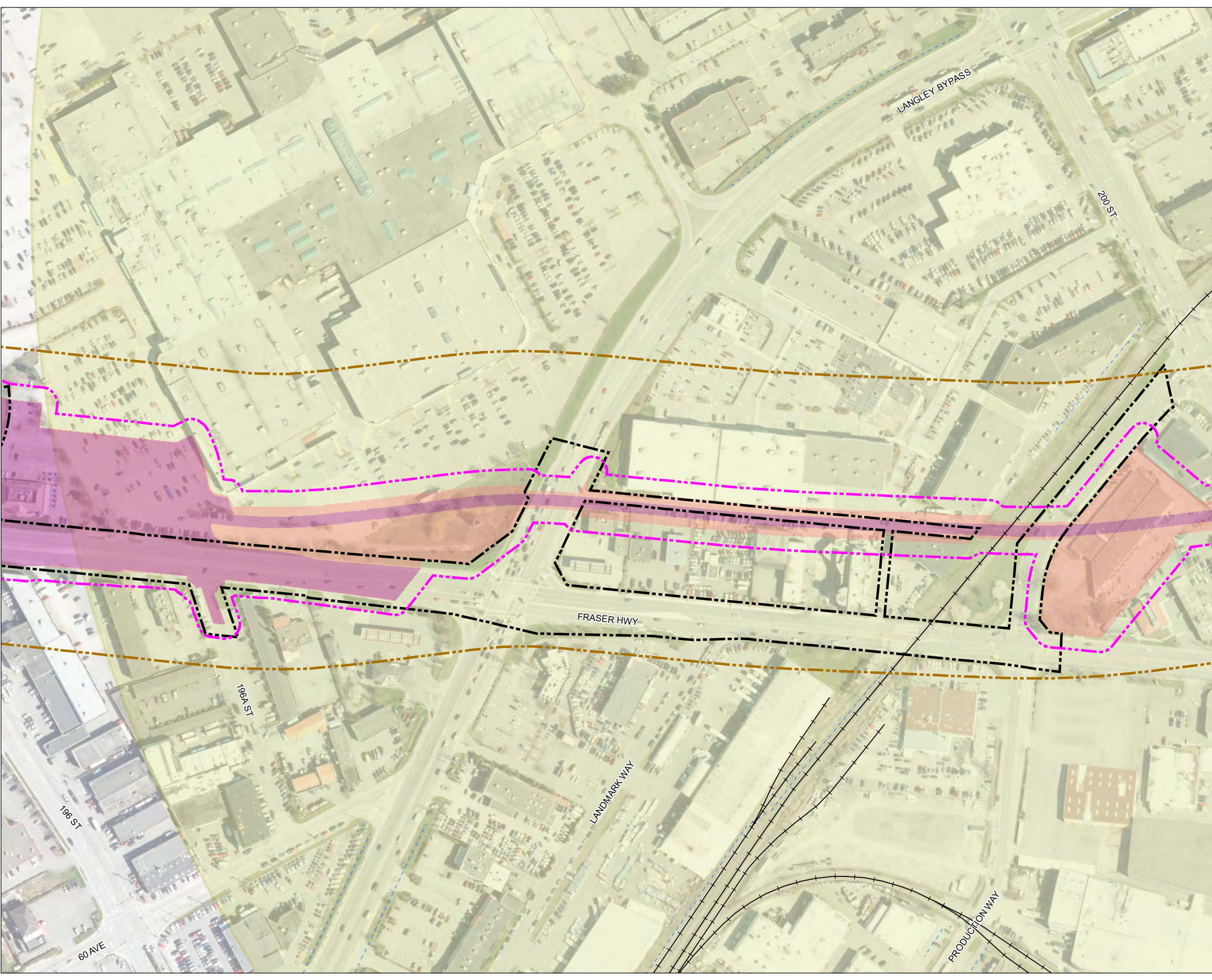
Sources

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- Green Infrastructure Network Corridor; Bald Eagle Nest; & Green Timbers Park; City of Surrey
- Surrey Langley SkyTrain Footprints: Hatch
- Barn Owl Critical Habitat: Government of Canada
- Aerial Image: ESRI World Imagery













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Potential Project Interactions with
Vegetation and Wildlife (Excluding Trees)

Legend

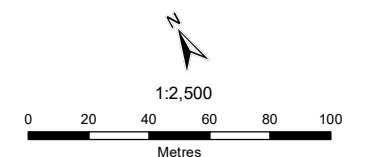
-  Invasive Plant Occurrence (field surveys)
 -  Vegetation Study Area
 -  Wildlife Study Area
 -  Proposed Barn Owl Critical Habitat
 -  Municipal Right-of-Way (ROW)¹
 -  Railway
 -  Ditch
 -  Watercourse
- Surrey Langley SkyTrain Project**
-  Temporary At-grade or Aerial Footprint
 -  Permanent Footprint

Notes

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- Barn Owl Critical Habitat: Government of Canada
- Aerial Image: ESRI World Imagery



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103715-04

Production Date: Jun 1, 2023

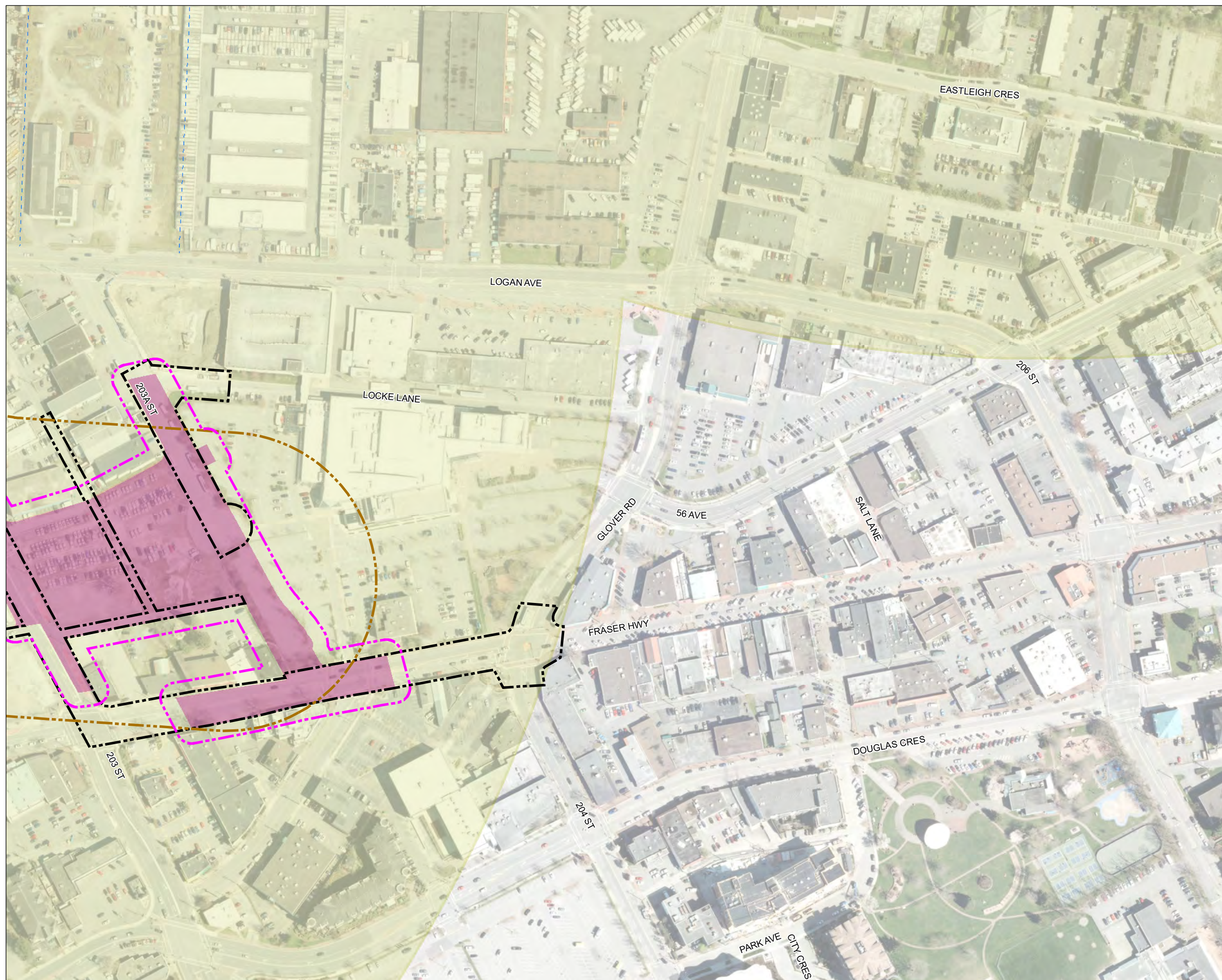
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**Potential Project Interactions with
Vegetation and Wildlife (Excluding Trees)**

Legend

- Vegetation Study Area
- Wildlife Study Area
- Proposed Barn Owl Critical Habitat
- Municipal Right-of-Way (ROW)¹
- Ditch
- Surrey Langley SkyTrain Project**
- Temporary At-grade or Aerial Footprint
- Permanent Footprint

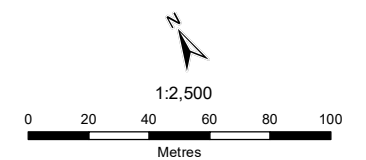


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- Barn Owl Critical Habitat: Government of Canada
- Aerial Image: ESRI World Imagery









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Potential Project Interactions with Trees

Legend

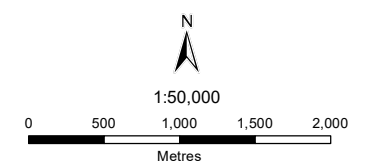
-  Surrey Langley SkyTrain Project Centreline
-  Mapsheet and Page Number
-  Administrative Area
-  First Nation Reserve
-  Watercourse
-  Waterbody

Notes

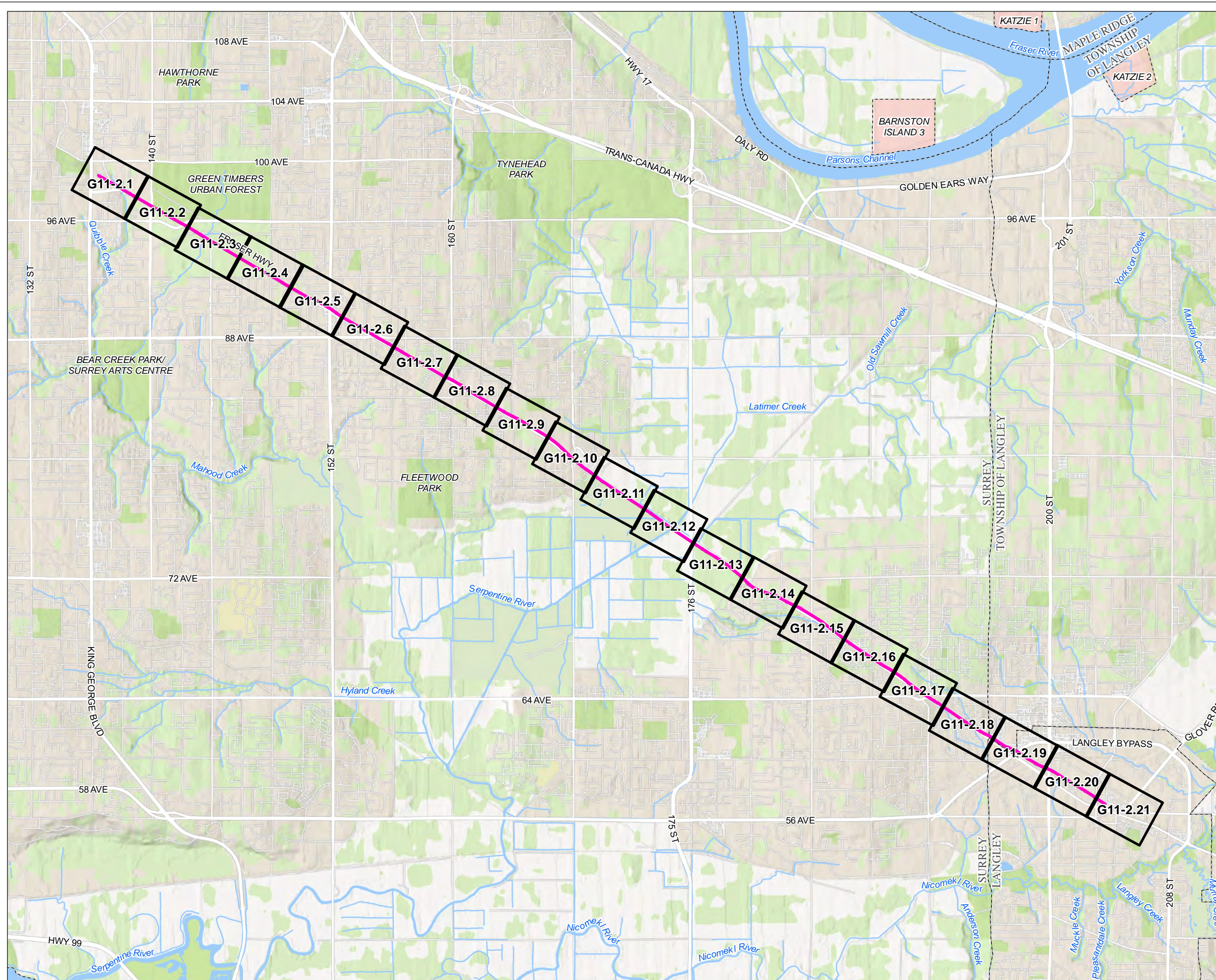
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Sources

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- Base Map: ESRI World Topographic Map

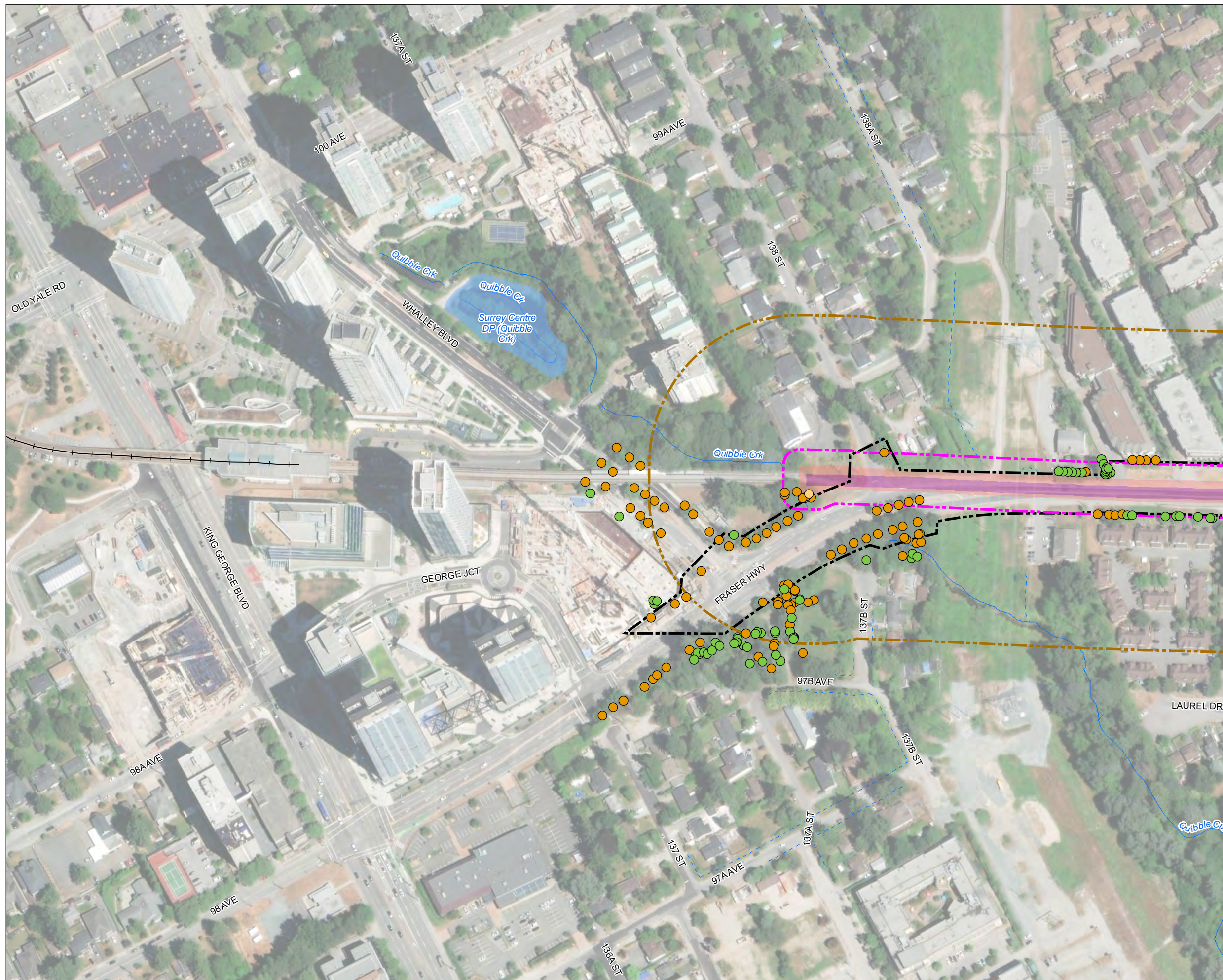


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Potential Project Interactions with Trees



Legend

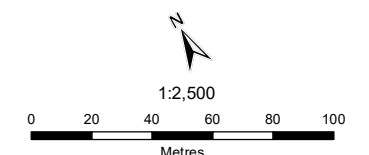
- Vegetation Study Area
- Wildlife Study Area
- Railway
- Ditch
- Watercourse
- Waterbody
- Municipal Right-of-Way (ROW)¹
- Tree Types²**
- Inside Project Footprint**
- Deciduous
- Outside Project Footprint**
- Coniferous
- Deciduous
- Surrey Langley SkyTrain Project**
- Temporary At-grade or Aerial Footprint
- Permanent Footprint

Notes

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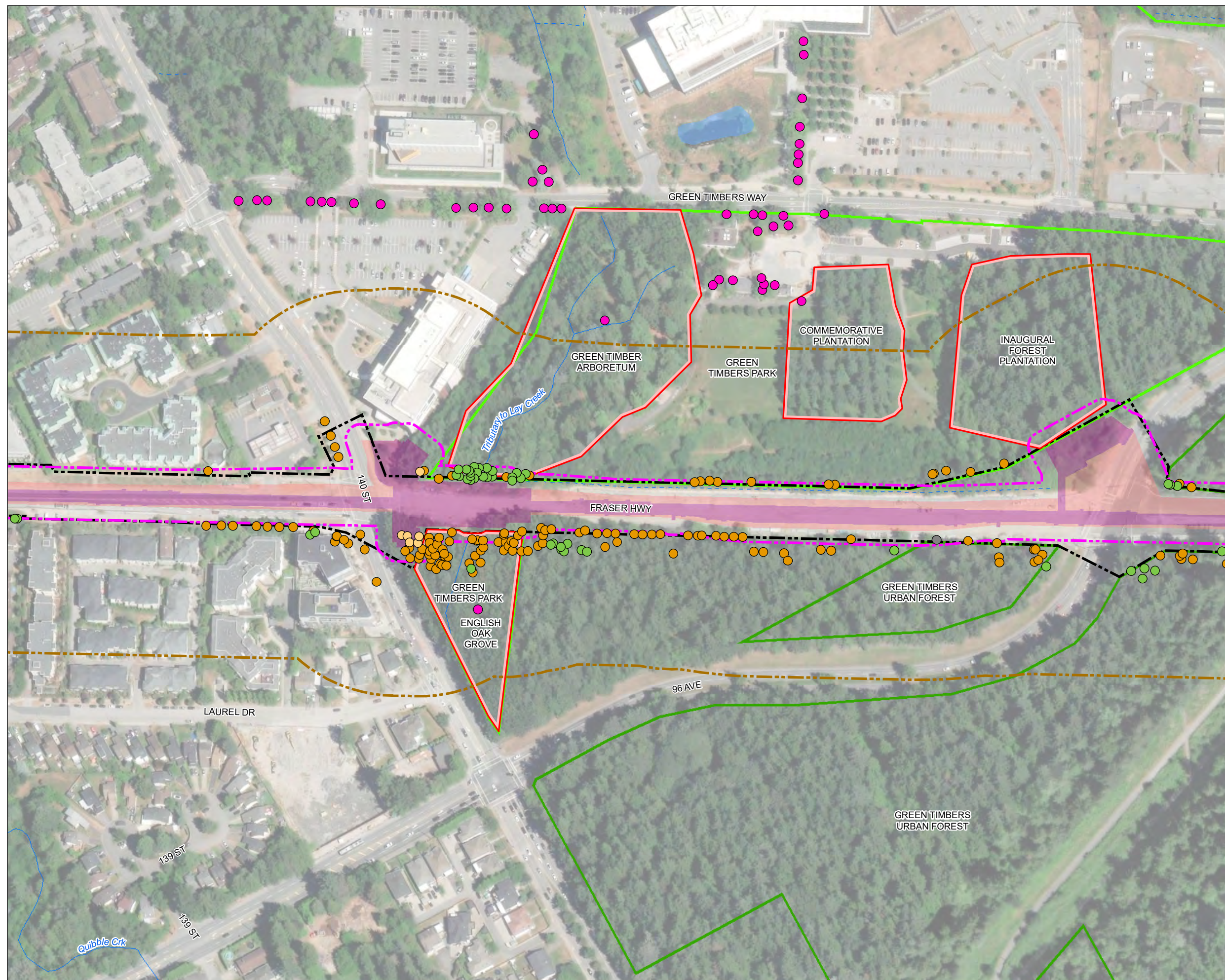
Sources

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- Surrey Important Trees; Areas of Important Trees; & Green Timbers Park: City of Surrey
- Tree data: City of Surrey; Diamond Head Consulting Ltd.
- Surrey Langley SkyTrain Footprints: Hatch
- Aerial Image: ESRI World Imagery



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Potential Project Interactions with Trees



Legend

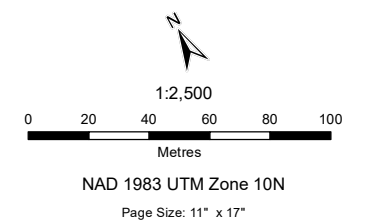
- Vegetation Study Area
 - Wildlife Study Area
 - Ditch
 - Watercourse
 - Waterbody
 - Green Timbers Park
 - Green Timbers Urban Forest
 - Municipal Right-of-Way (ROW)¹
- Tree Types²**
- Inside Project Footprint**
 - Deciduous
 - Outside Project Footprint**
 - Coniferous
 - Deciduous
 - Unknown
 - Important Tree (City of Surrey)
 - Area of Important Trees
- Surrey Langley SkyTrain Project**
- Temporary At-grade or Aerial Footprint
 - Permanent Footprint

Notes

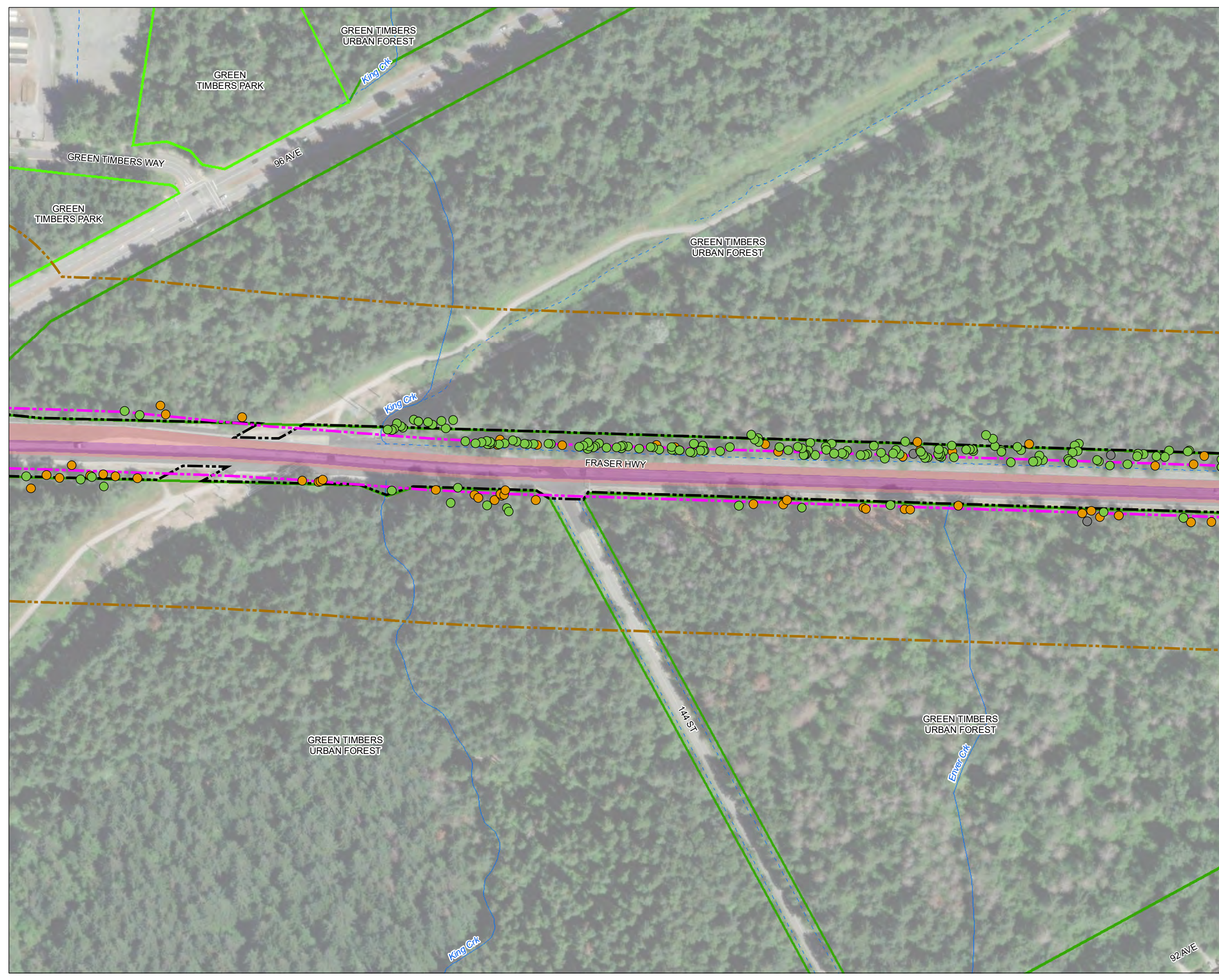
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- Tree data: City of Surrey; Diamond Head Consulting Ltd.
- Surrey Langley SkyTrain Footprints: Hatch
- Aerial Image: ESRI World Imagery



Potential Project Interactions with Trees



Legend

- Vegetation Study Area
- Wildlife Study Area
- Ditch
- Watercourse
- Green Timbers Park
- Green Timbers Urban Forest
- Municipal Right-of-Way (ROW)¹

Tree Types²

Outside Project Footprint

- Coniferous
- Deciduous
- Unknown

Surrey Langley SkyTrain Project

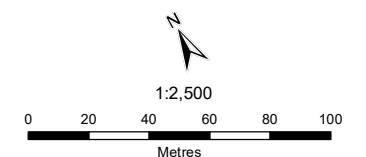
- Temporary At-grade or Aerial Footprint
- Permanent Footprint

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- Surrey Langley SkyTrain Footprints: Hatch
- Aerial Image: ESRI World Imagery



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Potential Project Interactions with Trees



Legend

- Vegetation Study Area
- Wildlife Study Area
- Ditch
- Waterbody
- Green Timbers Urban Forest
- Municipal Right-of-Way (ROW)¹

Tree Types²

Inside Project Footprint

- Coniferous
- Deciduous

Outside Project Footprint

- Coniferous
- Deciduous
- Unknown

Surrey Langley SkyTrain Project

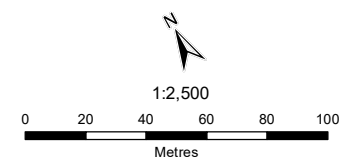
- Temporary At-grade or Aerial Footprint
- Permanent Footprint

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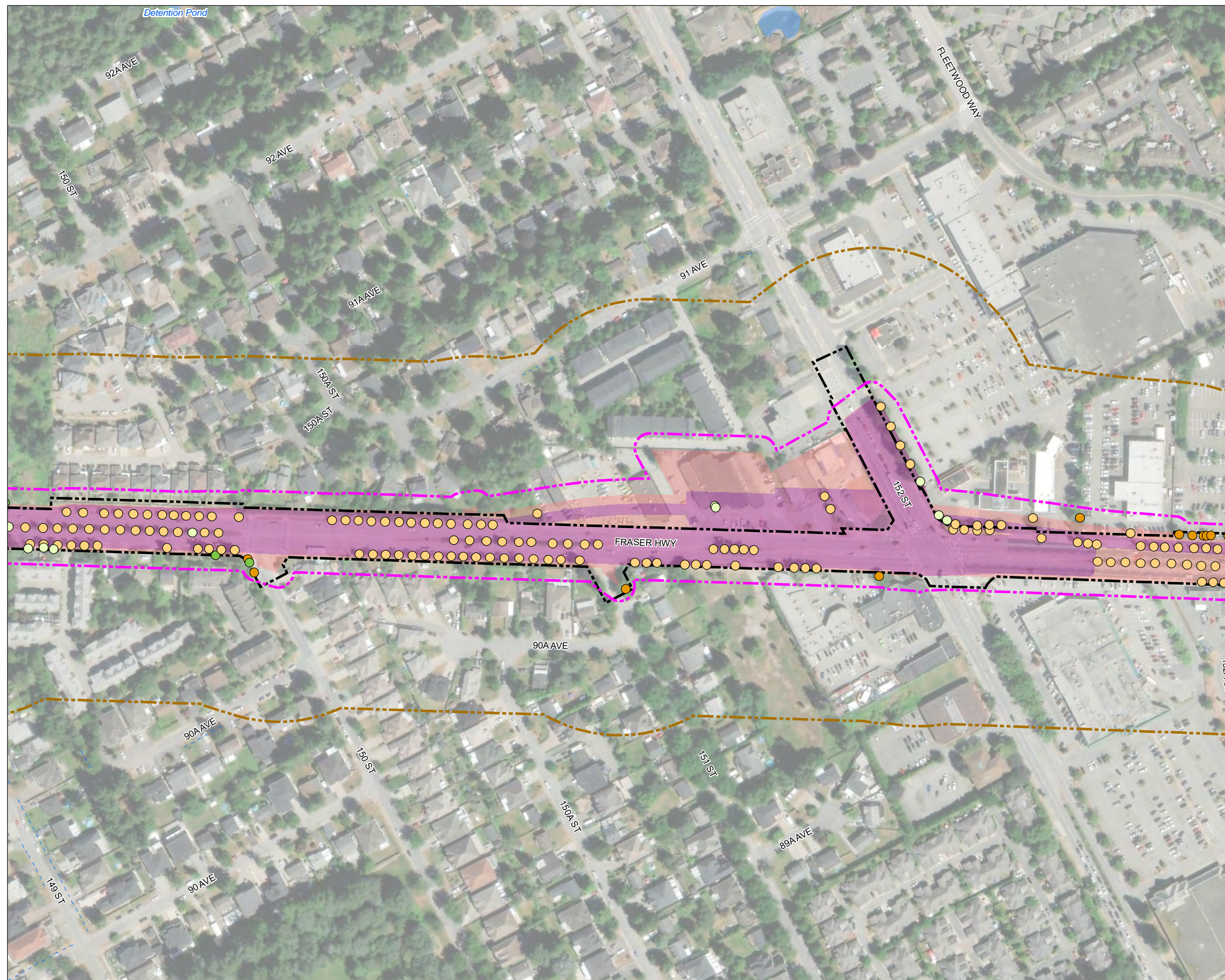
103715-04

Production Date: Jun 1, 2023

Figure G11-2.4



Potential Project Interactions with Trees



Legend

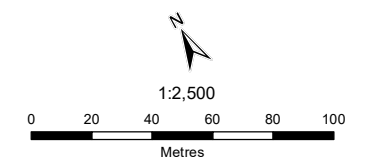
- Vegetation Study Area
- Wildlife Study Area
- Ditch
- Waterbody
- Municipal Right-of-Way (ROW)¹
- Tree Types²**
- Inside Project Footprint**
- Coniferous
- Deciduous
- Outside Project Footprint**
- Coniferous
- Deciduous
- Surrey Langley SkyTrain Project**
- Temporary At-grade or Aerial Footprint
- Permanent Footprint

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- Tree data: City of Surrey; Diamond Head Consulting Ltd.
- Surrey Langley SkyTrain Footprints: Hatch
- Aerial Image: ESRI World Imagery



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Potential Project Interactions with Trees

Legend

- Vegetation Study Area
- Wildlife Study Area
- Ditch
- Municipal Right-of-Way (ROW)¹

Tree Types²

Inside Project Footprint

- Coniferous
- Deciduous

Outside Project Footprint

- Coniferous
- Deciduous

Surrey Langley SkyTrain Project

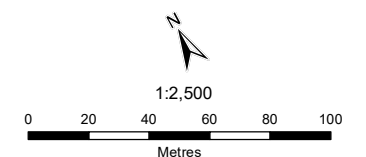
- Temporary At-grade or Aerial Footprint
- Permanent Footprint

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- Surrey Important Trees; Areas of Important Trees; & Green Timbers Park: City of Surrey
- Tree data: City of Surrey; Diamond Head Consulting Ltd.
- Surrey Langley SkyTrain Footprints: Hatch
- Aerial Image: ESRI World Imagery



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Page Size: 11" x 17"

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Potential Project Interactions with Trees

Legend

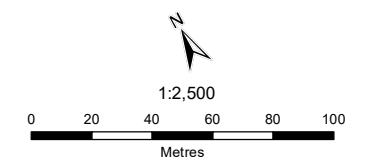
- Vegetation Study Area
- Wildlife Study Area
- Ditch
- Municipal Right-of-Way (ROW)¹
- Tree Types²**
- Inside Project Footprint**
- Coniferous
- Deciduous
- Outside Project Footprint**
- Coniferous
- Deciduous
- Surrey Langley SkyTrain Project**
- Temporary At-grade or Aerial Footprint
- Permanent Footprint

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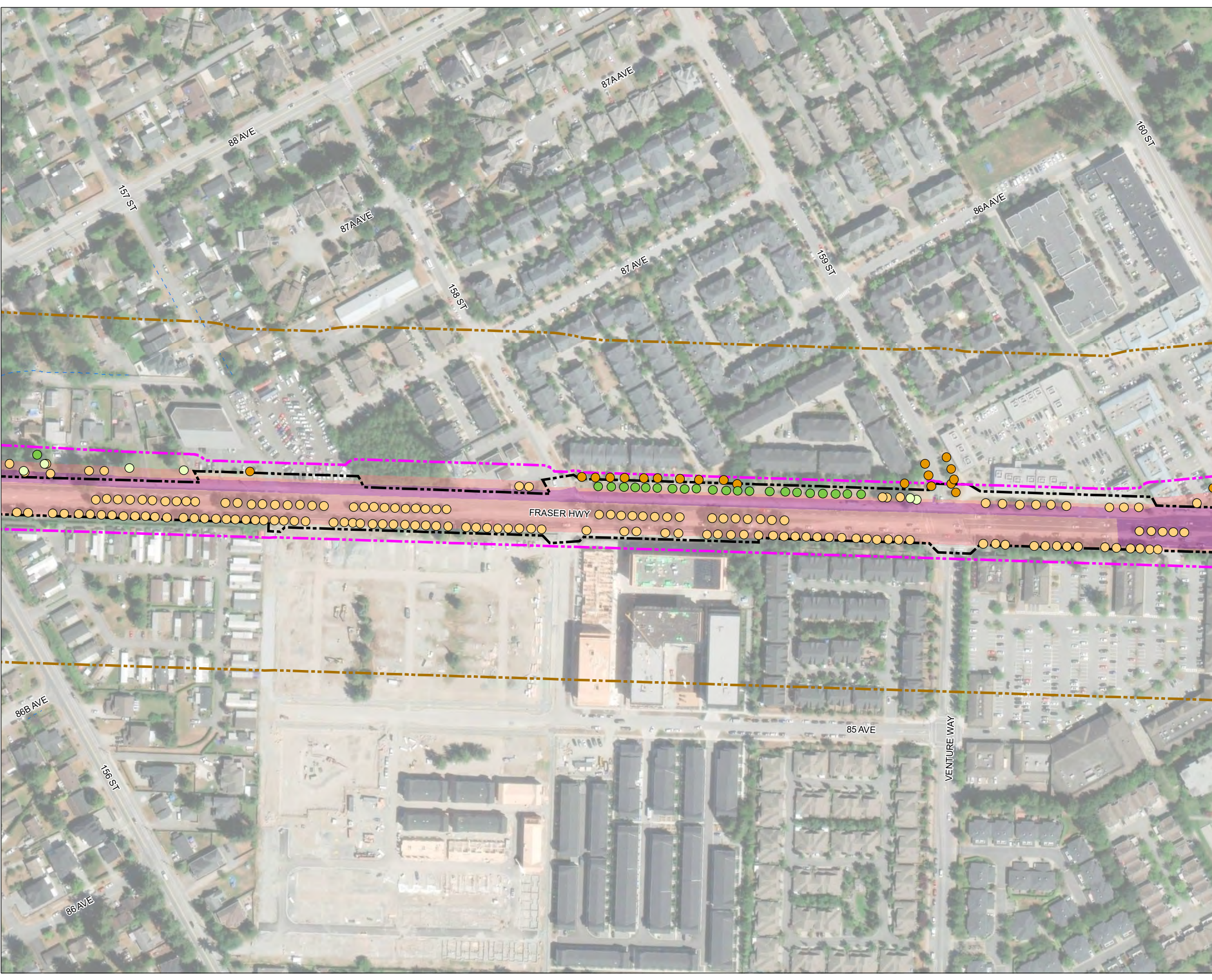
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- Aerial Image: ESRI World Imagery



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Potential Project Interactions with Trees

Legend

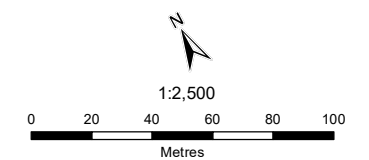
- Vegetation Study Area
- Wildlife Study Area
- Ditch
- Municipal Right-of-Way (ROW)¹
- Tree Types²**
- Inside Project Footprint**
- Coniferous
- Deciduous
- Unknown
- Outside Project Footprint**
- Coniferous
- Deciduous
- Surrey Langley SkyTrain Project**
- Temporary At-grade or Aerial Footprint
- Permanent Footprint

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- Surrey Langley SkyTrain Footprints: Hatch
- Aerial Image: ESRI World Imagery



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103715-04

Production Date: Jun 1, 2023

Figure G11-2.8



Potential Project Interactions with Trees



Legend

- Vegetation Study Area
- Wildlife Study Area
- Ditch
- Watercourse
- Waterbody
- Municipal Right-of-Way (ROW)¹

Tree Types²

Inside Project Footprint

- Coniferous
- Deciduous

Outside Project Footprint

- Coniferous
- Deciduous

Surrey Langley SkyTrain Project

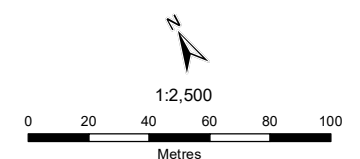
- Temporary At-grade or Aerial Footprint
- Permanent Footprint

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Sources

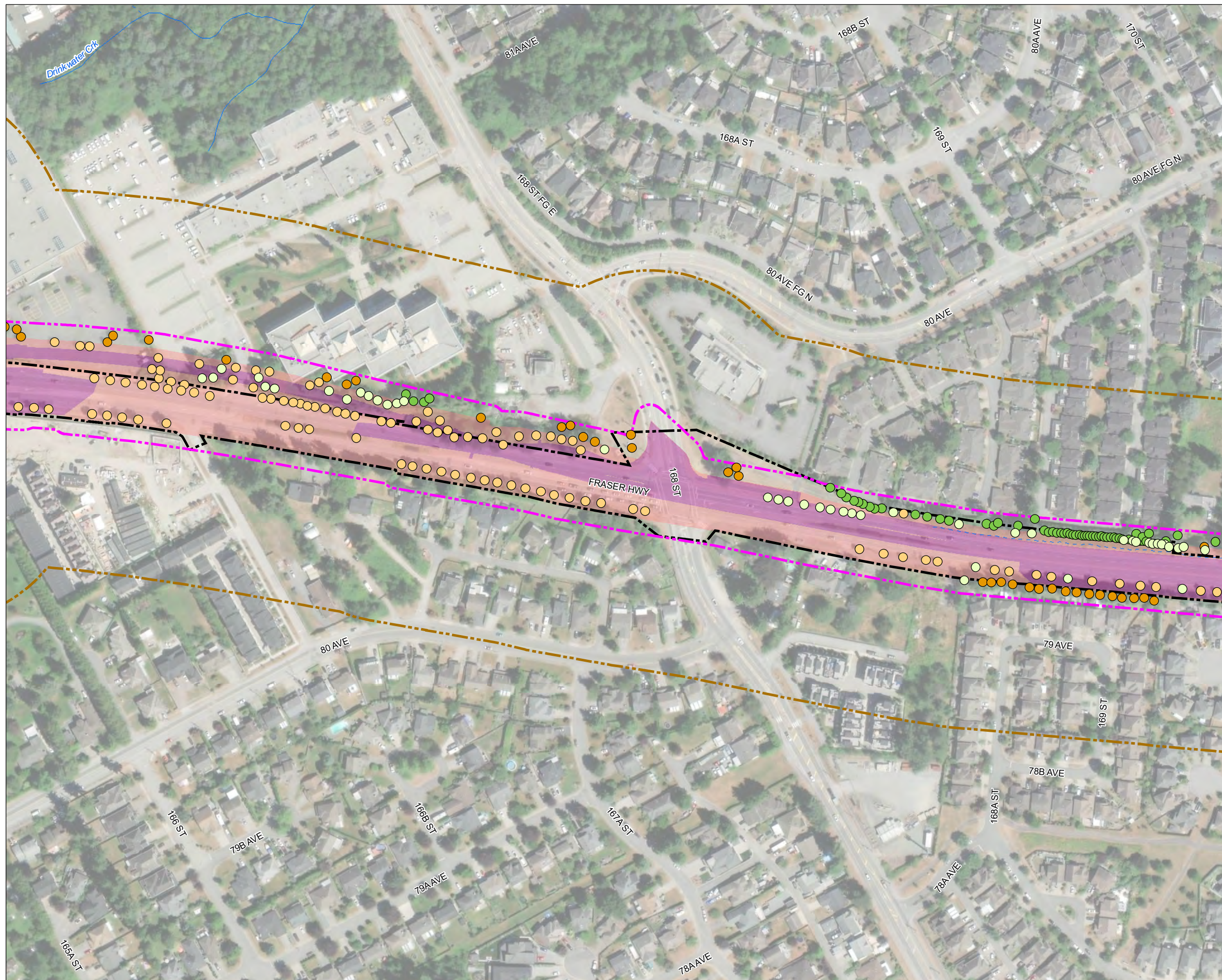
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- Tree data: City of Surrey; Diamond Head Consulting Ltd.
- Surrey Langley SkyTrain Footprints: Hatch
- Aerial Image: ESRI World Imagery



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Potential Project Interactions with Trees



Legend

- Vegetation Study Area
- Wildlife Study Area
- Ditch
- Watercourse
- Municipal Right-of-Way (ROW)¹

Tree Types²

Inside Project Footprint

- Coniferous
- Deciduous

Outside Project Footprint

- Coniferous
- Deciduous

Surrey Langley SkyTrain Project

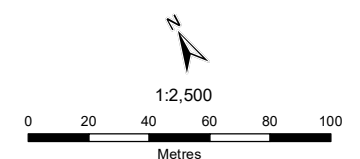
- Temporary At-grade or Aerial Footprint
- Permanent Footprint

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- Aerial Image: ESRI World Imagery



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Potential Project Interactions with Trees



Legend

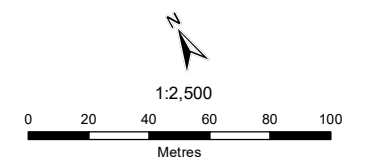
- Vegetation Study Area
- Wildlife Study Area
- Ditch
- Waterbody
- Municipal Right-of-Way (ROW)¹
- Tree Types²**
- Inside Project Footprint**
- Coniferous
- Deciduous
- Outside Project Footprint**
- Coniferous
- Deciduous
- Unknown
- Surrey Langley SkyTrain Project**
- Temporary At-grade or Aerial Footprint
- Permanent Footprint

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Potential Project Interactions with Trees

Legend

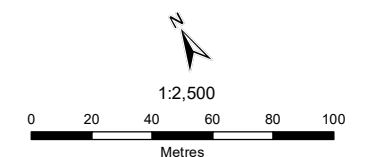
- Vegetation Study Area
- Wildlife Study Area
- Ditch
- Watercourse
- Waterbody
- Municipal Right-of-Way (ROW)¹
- Tree Types²**
- Inside Project Footprint**
- Coniferous
- Deciduous
- Outside Project Footprint**
- Coniferous
- Deciduous
- Unknown
- Surrey Langley SkyTrain Project**
- Temporary At-grade or Aerial Footprint
- Permanent Footprint

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Figure G11-2.12



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Potential Project Interactions with Trees



Legend

- Vegetation Study Area
- Wildlife Study Area
- Ditch
- Watercourse
- Waterbody
- Municipal Right-of-Way (ROW)¹

Tree Types²

Inside Project Footprint

- Coniferous
- Deciduous

Outside Project Footprint

- Coniferous
- Deciduous
- Unknown

Surrey Langley SkyTrain Project

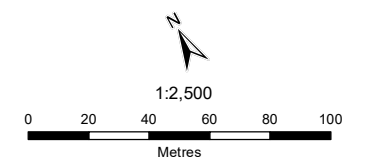
- Temporary At-grade or Aerial Footprint
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Figure G11-2.13

Potential Project Interactions with Trees



Legend

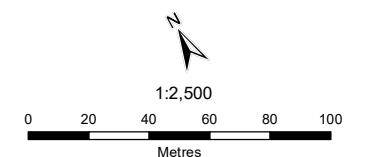
- Vegetation Study Area
- Wildlife Study Area
- Ditch
- Watercourse
- Municipal Right-of-Way (ROW)¹
- Tree Types²**
- Inside Project Footprint**
- Coniferous
- Deciduous
- Outside Project Footprint**
- Coniferous
- Deciduous
- Surrey Langley SkyTrain Project**
- Temporary At-grade or Aerial Footprint
- Permanent Footprint

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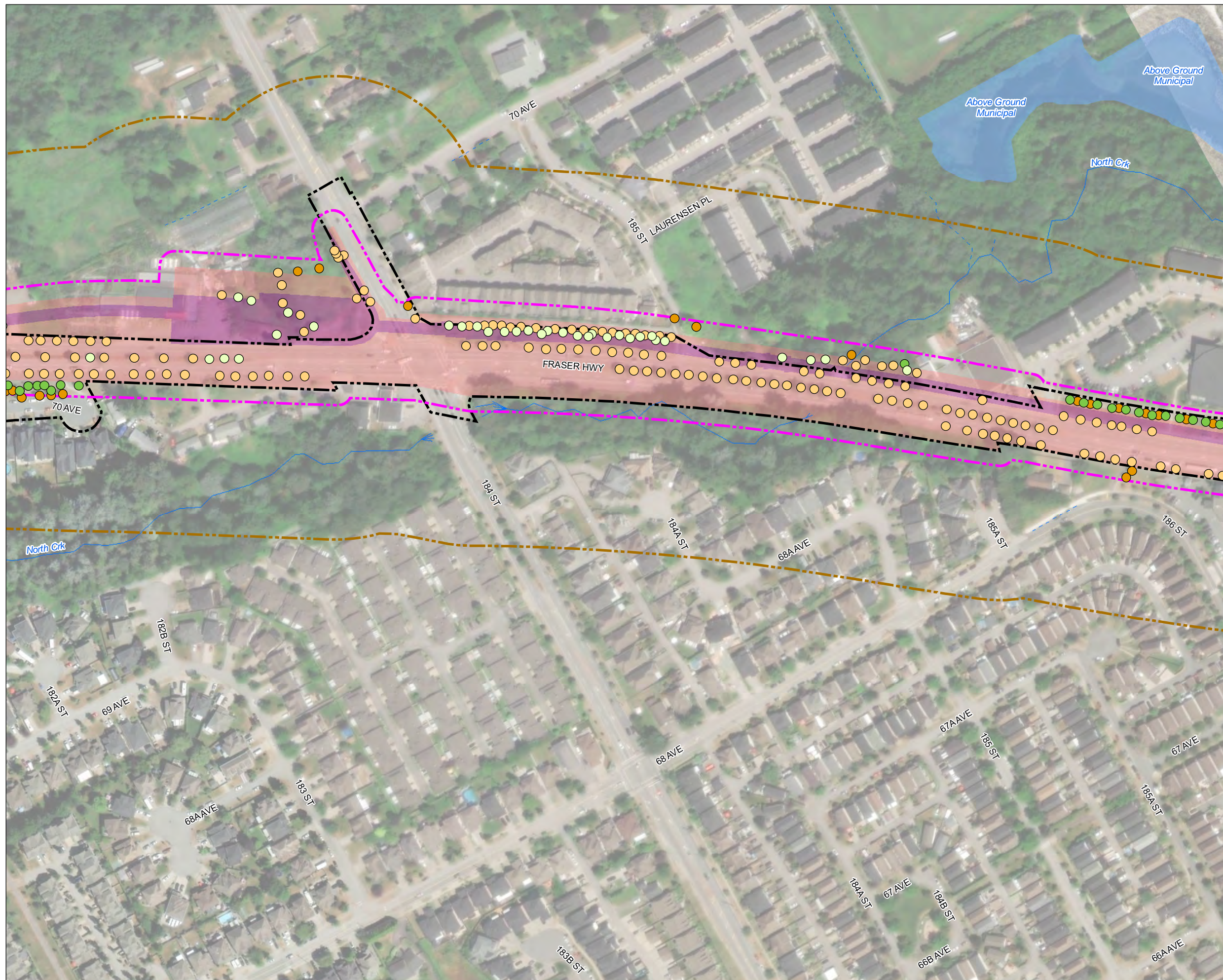
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Potential Project Interactions with Trees



Legend

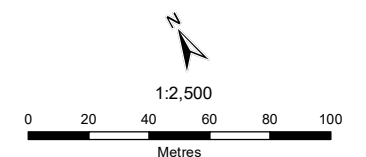
- Vegetation Study Area
- Wildlife Study Area
- Ditch
- Watercourse
- Waterbody
- Municipal Right-of-Way (ROW)¹
- Tree Types²**
- Inside Project Footprint**
- Coniferous
- Deciduous
- Outside Project Footprint**
- Coniferous
- Deciduous
- Surrey Langley SkyTrain Project**
- Temporary At-grade or Aerial Footprint
- Permanent Footprint

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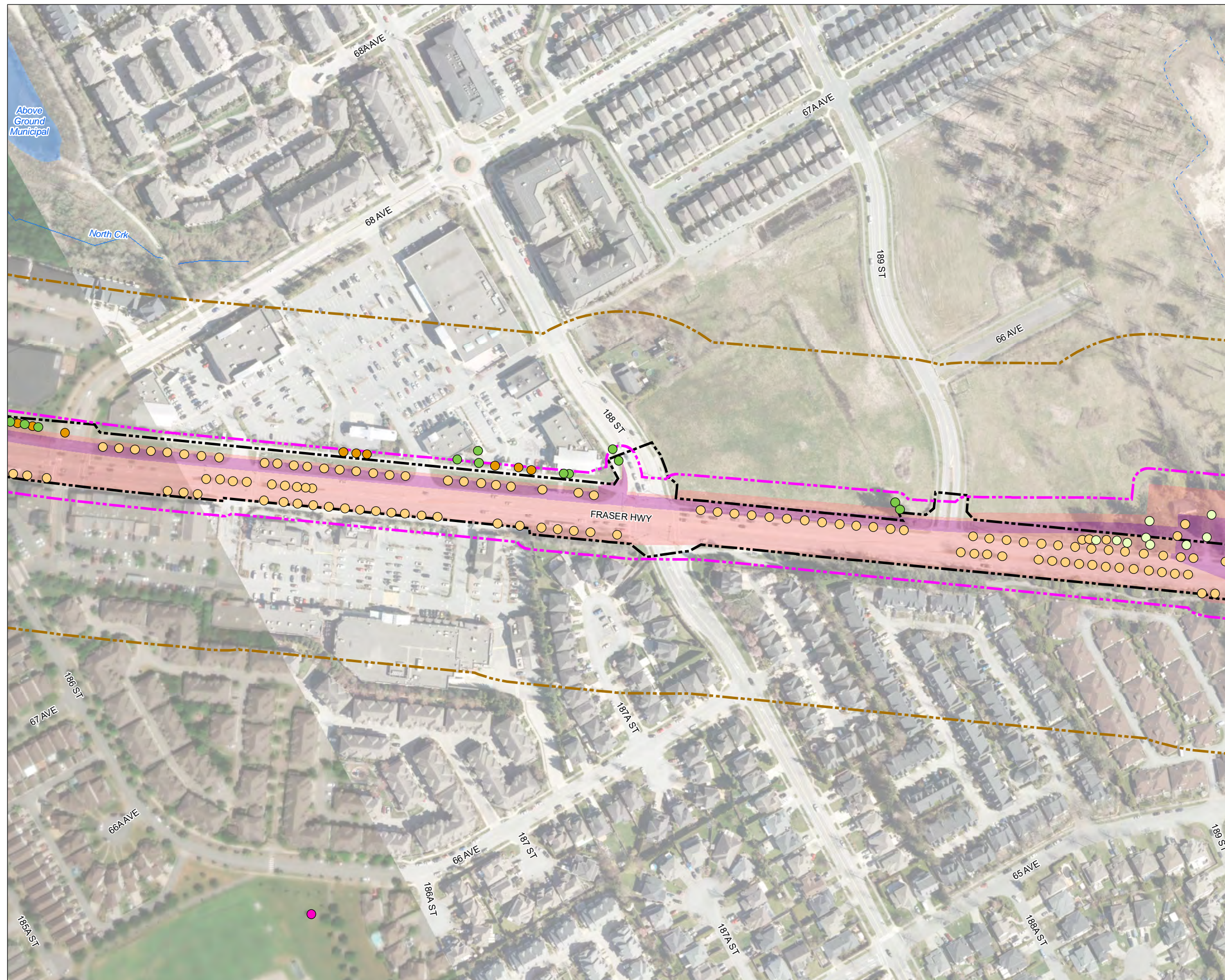
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- Tree data: City of Surrey; Diamond Head Consulting Ltd.
- Surrey Langley SkyTrain Footprints: Hatch
- Aerial Image: ESRI World Imagery



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Potential Project Interactions with Trees



Legend

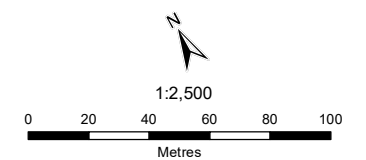
- Vegetation Study Area
- Wildlife Study Area
- Ditch
- Watercourse
- Waterbody
- Municipal Right-of-Way (ROW)¹
- Tree Types²**
- Inside Project Footprint**
- Coniferous
- Deciduous
- Outside Project Footprint**
- Coniferous
- Deciduous
- Important Tree (City of Surrey)
- Surrey Langley SkyTrain Project**
- Temporary At-grade or Aerial Footprint
- Permanent Footprint

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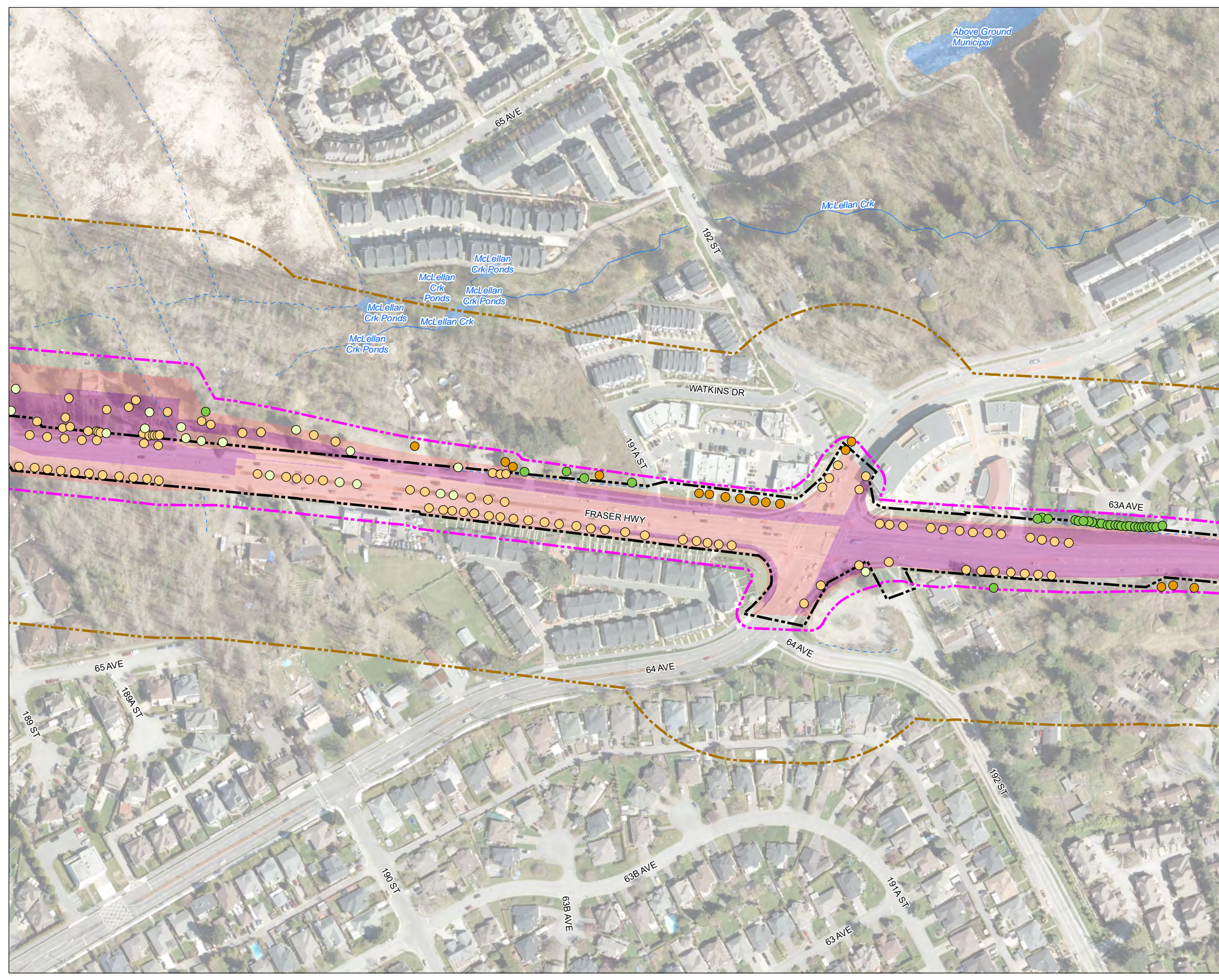
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Potential Project Interactions with Trees



Legend

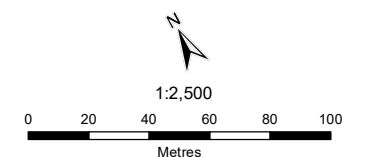
- Vegetation Study Area
- Wildlife Study Area
- Ditch
- Watercourse
- Waterbody
- Municipal Right-of-Way (ROW)¹
- Tree Types²**
- Inside Project Footprint**
- Coniferous
- Deciduous
- Outside Project Footprint**
- Coniferous
- Deciduous
- Surrey Langley SkyTrain Project**
- Temporary At-grade or Aerial Footprint
- Permanent Footprint

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Figure G11-2.17

Potential Project Interactions with Trees

Legend

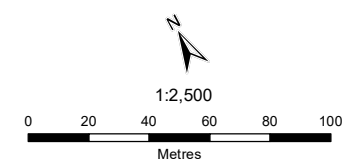
- Vegetation Study Area
- Wildlife Study Area
- Ditch
- Watercourse
- Waterbody
- Municipal Right-of-Way (ROW)¹
- Tree Types²**
- Inside Project Footprint**
- Coniferous
- Deciduous
- Outside Project Footprint**
- Coniferous
- Deciduous
- Surrey Langley SkyTrain Project**
- Temporary At-grade or Aerial Footprint
- Permanent Footprint

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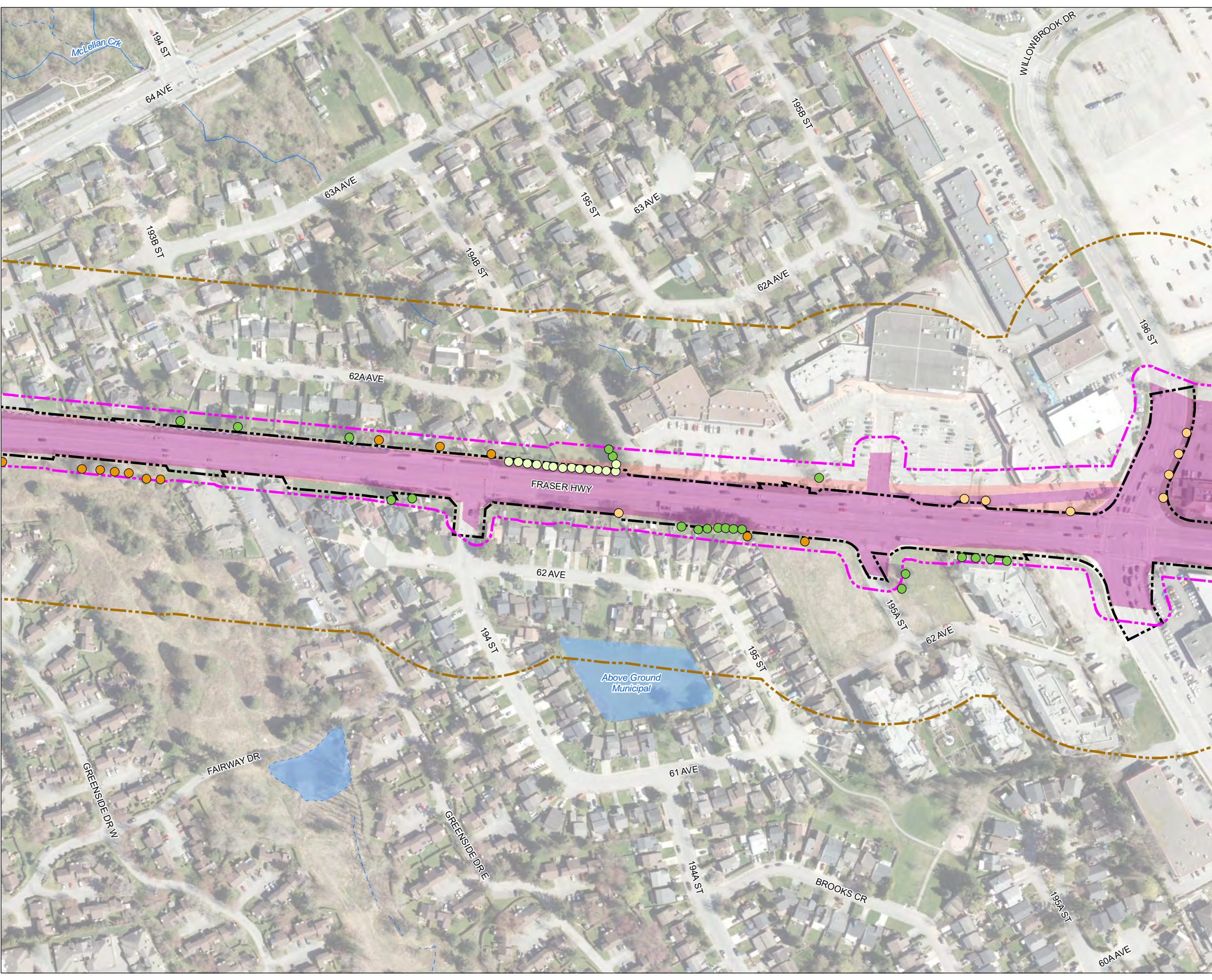
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Figure G11-2.18



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Potential Project Interactions with Trees

Legend

- Vegetation Study Area
- Wildlife Study Area
- Railway
- Ditch
- Municipal Right-of-Way (ROW)¹

Tree Types²

Inside Project Footprint

- Coniferous
- Deciduous

Outside Project Footprint

- Coniferous
- Deciduous

Surrey Langley SkyTrain Project

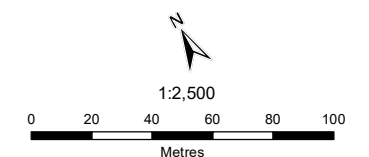
- Temporary At-grade or Aerial Footprint
- Permanent Footprint

Notes

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Sources

- Contains information licensed under the Open Government Licences - British Columbia, City of Surrey
- Surrey Important Trees; Areas of Important Trees; & Green Timbers Park: City of Surrey
- Tree data: City of Surrey; Diamond Head Consulting Ltd.
- Surrey Langley SkyTrain Footprints: Hatch
- Aerial Image: ESRI World Imagery

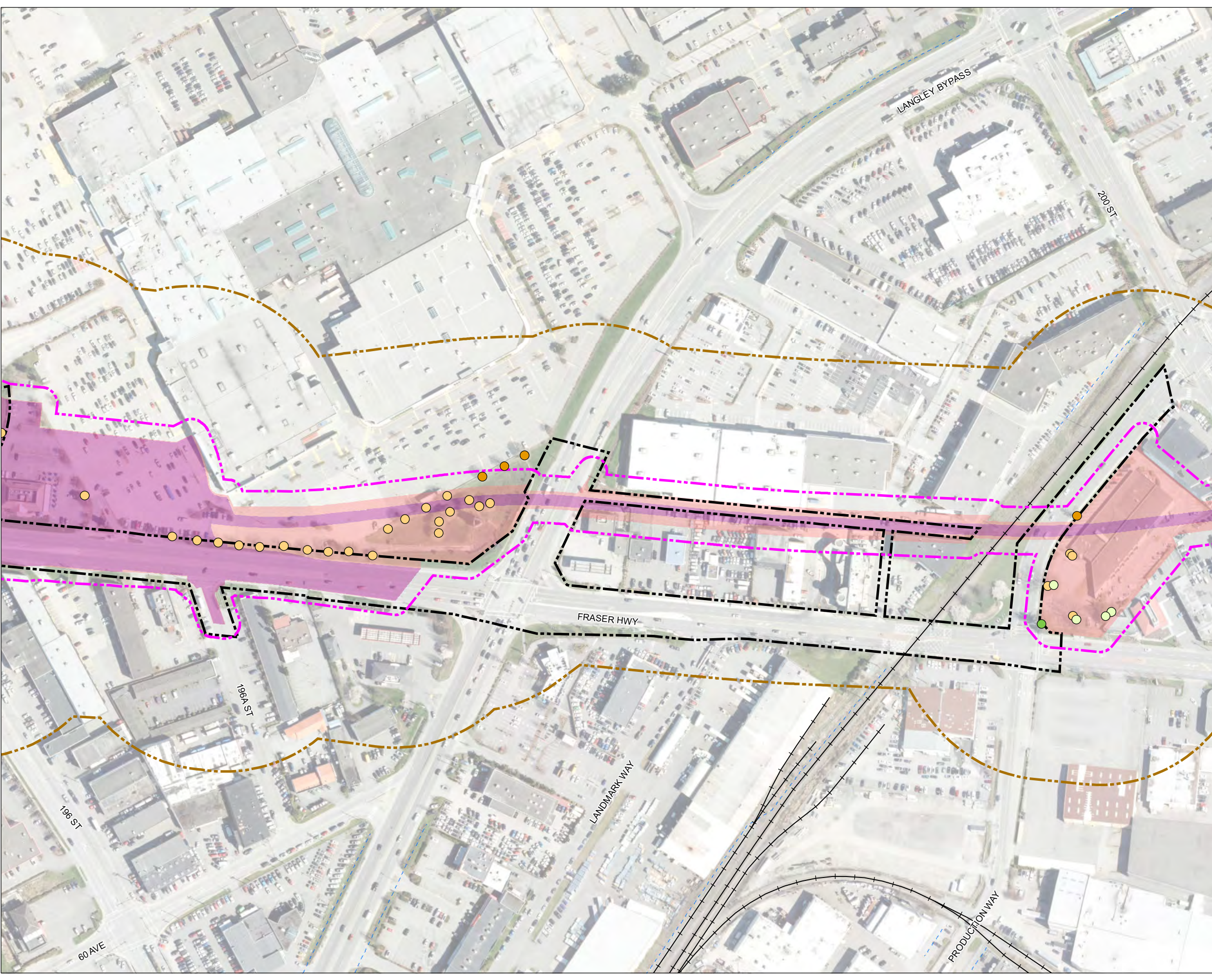


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Page Size: 11" x 17"

103715-04 Production Date: Jun 1, 2023 Figure G11-2.19



Path: S:\GIS\emissions\Project\103715\04\map\mapkey_wiki\G11-2.19_103715_04_Visualization_Portal_Trees.sh_230531.mxd



Potential Project Interactions with Trees

Legend

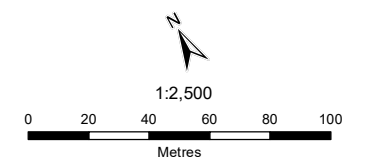
- Vegetation Study Area
- Wildlife Study Area
- Railway
- Ditch
- Watercourse
- Municipal Right-of-Way (ROW)¹
- Tree Types²**
- Inside Project Footprint**
- Deciduous
- Outside Project Footprint**
- Deciduous
- Surrey Langley SkyTrain Project**
- Temporary At-grade or Aerial Footprint
- Permanent Footprint

Notes

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- Surrey Langley SkyTrain Footprints: Hatch
- Aerial Image: ESRI World Imagery



NAD 1983 UTM Zone 10N

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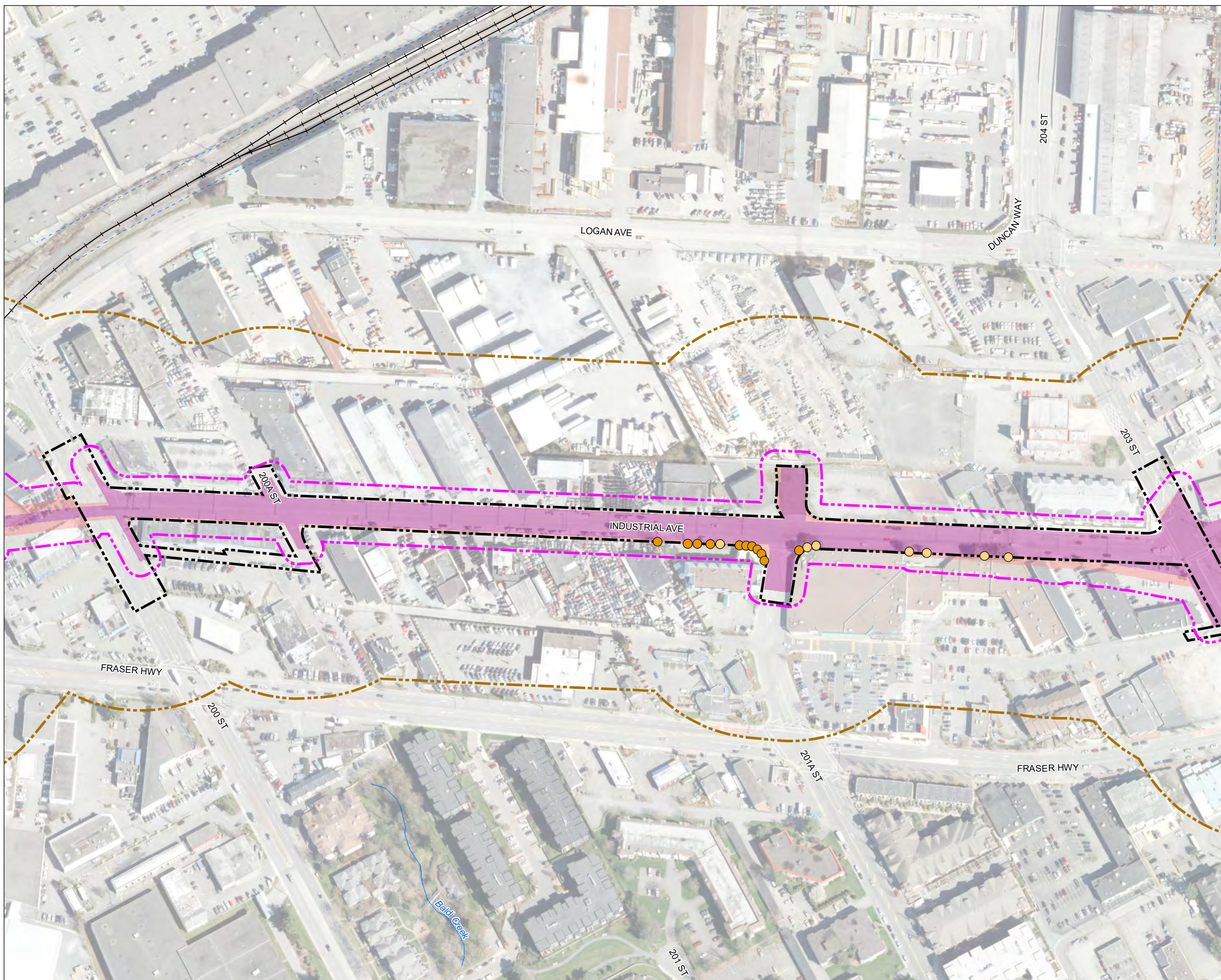
103715-04

Production Date: Jun 1, 2023

Figure G11-2.20



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Potential Project Interactions with Trees

Legend

- Vegetation Study Area
- Wildlife Study Area
- Ditch
- Municipal Right-of-Way (ROW)¹

Tree Types²

Inside Project Footprint

- Deciduous

Outside Project Footprint

- Coniferous

- Deciduous

Surrey Langley SkyTrain Project

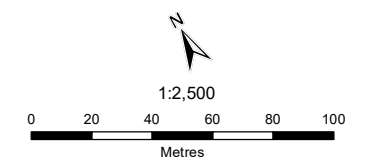
- Temporary At-grade or Aerial Footprint
- Permanent Footprint

Notes

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- Tree data: City of Surrey; Diamond Head Consulting Ltd.
- Surrey Langley SkyTrain Footprints: Hatch
- Aerial Image: ESRI World Imagery



NAD 1983 UTM Zone 10N

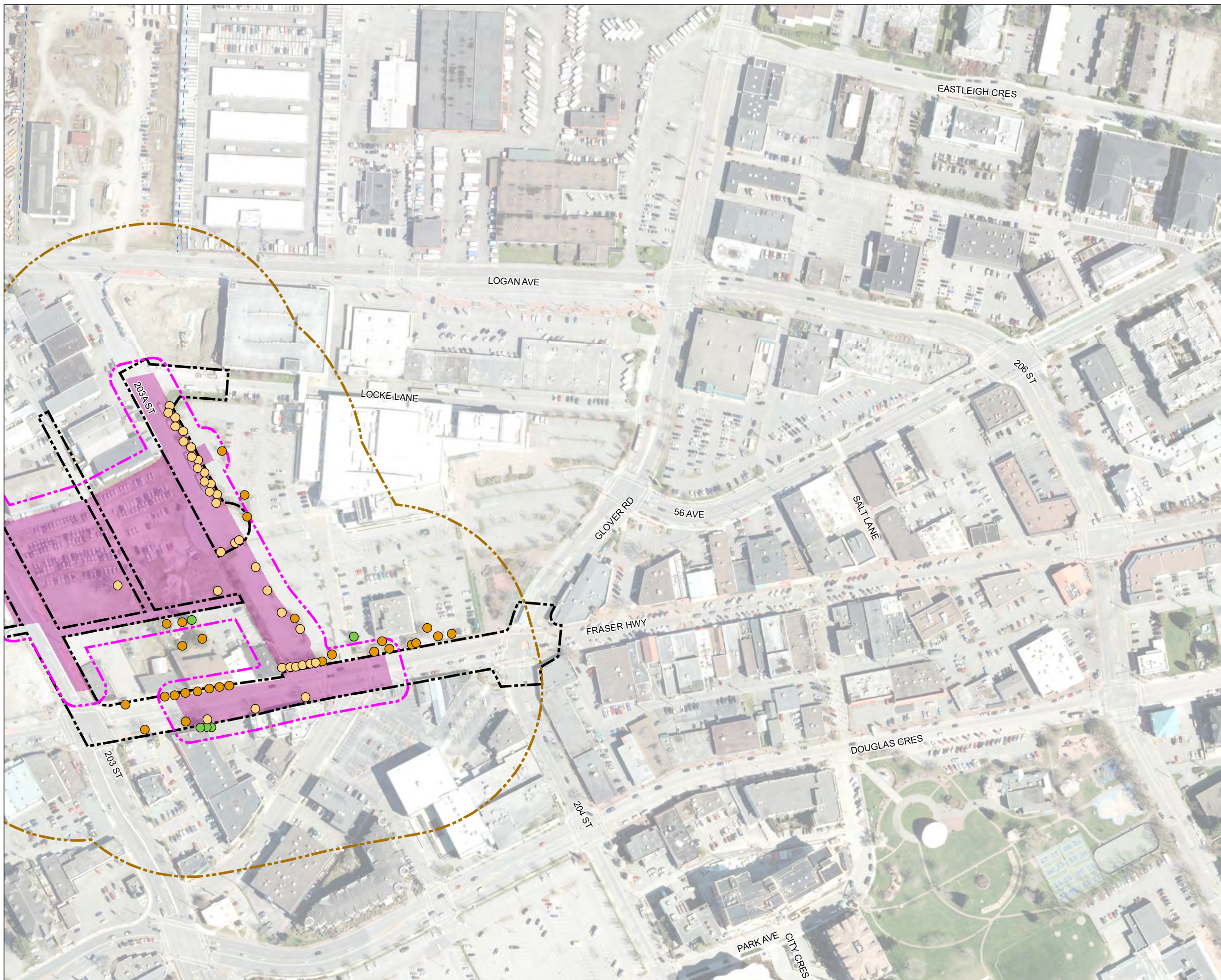
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103715-04

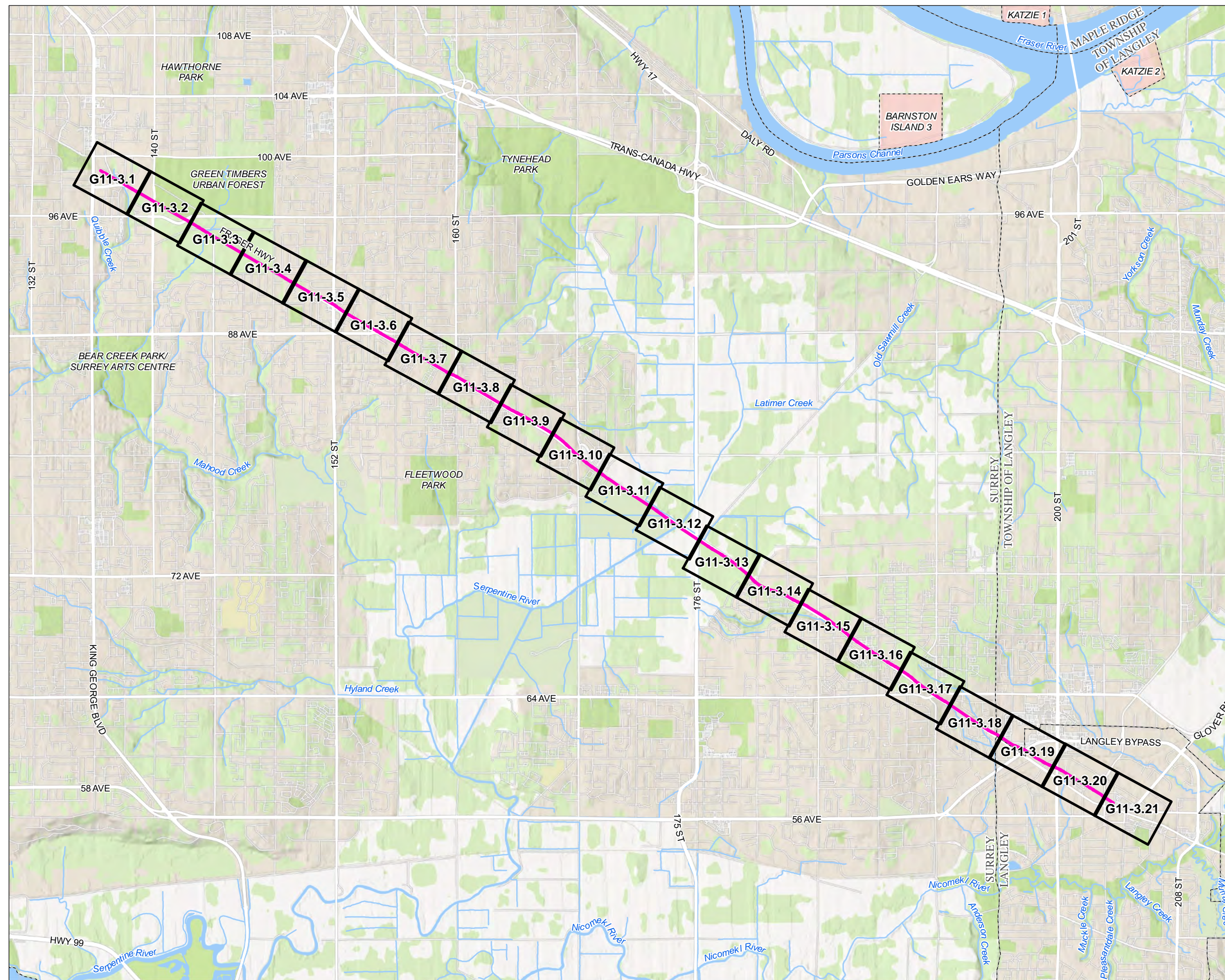
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Figure G11-2.21

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**Terrestrial Vegetation and Wildlife Habitat
Suitability along Proposed Alignment**



Legend

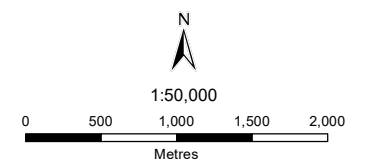
- Surrey Langley SkyTrain Project Centreline
- Mapsheet and Page Number
- Administrative Area
- First Nation Reserve
- Watercourse
- Waterbody

Notes

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Sources

- Contains information licensed under the Open Government Licences - British Columbia
- Base Map: ESRI World Topographic Map












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**Terrestrial Vegetation and Wildlife Habitat
Suitability along Proposed Alignment**

Legend

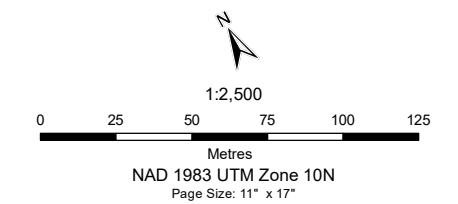
-  Wildlife Baseline Study Area
 -  Municipal Right-of-Way (ROW)
 -  Waterbody
 -  Ditch
 -  Watercourse
 -  Property Line
- Site Descriptions**
-  Tributary to Lay Creek was dry. Very little flow from culvert near top of slope.
 -  Green Timbers Urban Forest. High-value habitat for numerous species.
 -  Quibble Creek Greenway vegetated with invasive species (e.g., Himalayan blackberry, Japanese knotweed, and thistle). Low-value songbird habitat.

Notes

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Sources

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- Aerial Image: ESRI World Imagery



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**Terrestrial Vegetation and Wildlife Habitat
Suitability along Proposed Alignment**



Legend

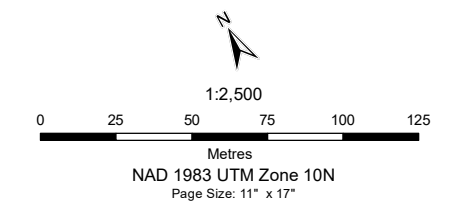
- Wildlife Baseline Study Area
 - Municipal Right-of-Way (ROW)
 - Ditch
 - Watercourse
 - Property Line
- Site Descriptions**
- Enver Creek. No water present.
 - Green Timbers Urban Forest. High-value habitat for numerous species.

Notes

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**Terrestrial Vegetation and Wildlife Habitat
Suitability along Proposed Alignment**



Legend

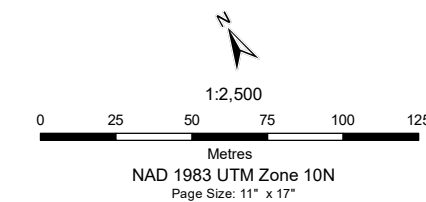
- Wildlife Baseline Study Area
 - Municipal Right-of-Way (ROW)
 - Waterbody
 - Ditch
 - Property Line
- Site Descriptions**
- Empty lots full of non-native e.g., Himalayan blackberry and field bindweed.
 - Enver Creek. No water present.
 - Green Timbers Urban Forest. High-value habitat for numerous species.

Notes

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**Terrestrial Vegetation and Wildlife Habitat
Suitability along Proposed Alignment**



Legend

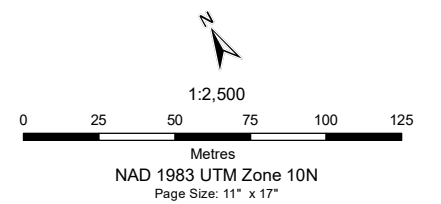
- Wildlife Baseline Study Area
 - Municipal Right-of-Way (ROW)
 - Waterbody
 - Ditch
 - Property Line
- Site Descriptions**
- Empty lots full of non-native e.g., Himalayan blackberry and field bindweed.

Notes

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**Terrestrial Vegetation and Wildlife Habitat
Suitability along Proposed Alignment**

Legend

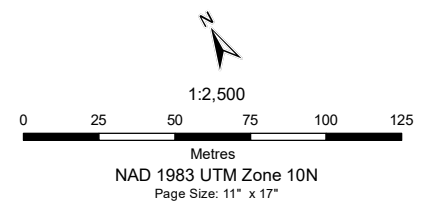
-  Wildlife Baseline Study Area
-  Municipal Right-of-Way (ROW)
-  Ditch
-  Property Line

Notes

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**Terrestrial Vegetation and Wildlife Habitat
Suitability along Proposed Alignment**



Legend

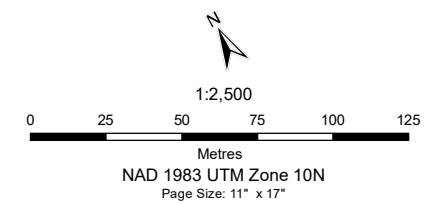
- Wildlife Baseline Study Area
 - Municipal Right-of-Way (ROW)
 - Ditch
 - Property Line
- Site Descriptions**
- Large trees may be potential songbird habitat but may be removed for development as per conversation with one resident.
 - Manicured shrubs.
 - Pole saplings forest, low-value wildlife habitat.

Notes

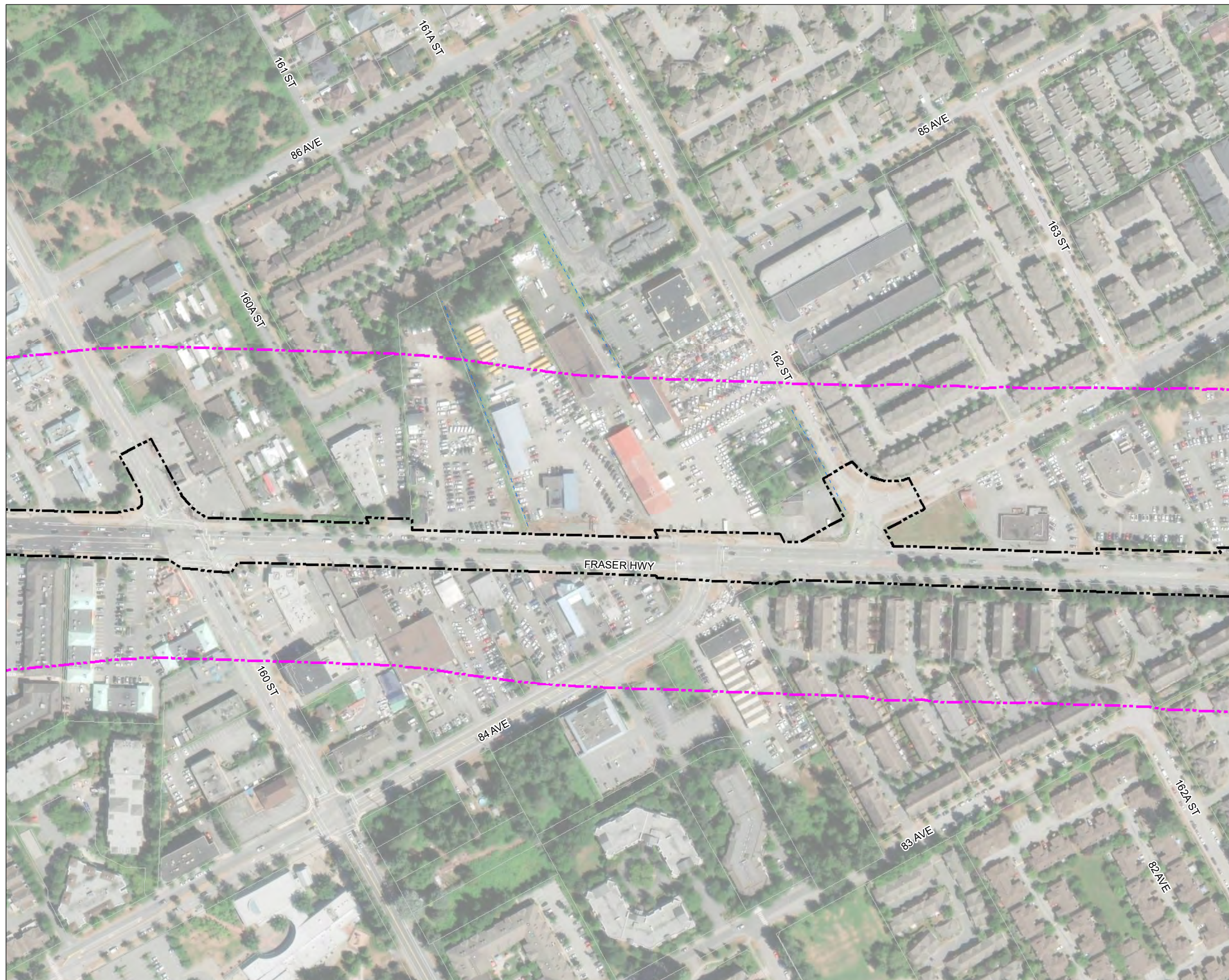
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**Terrestrial Vegetation and Wildlife Habitat
Suitability along Proposed Alignment**



Legend

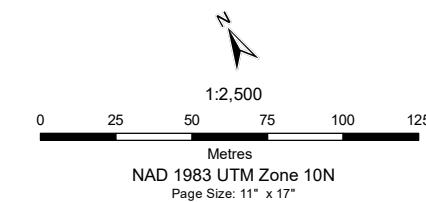
- Wildlife Baseline Study Area
- Municipal Right-of-Way (ROW)
- Ditch
- Property Line
- Site Descriptions**
- Vegetated habitat for birds (e.g., raptors).

Notes

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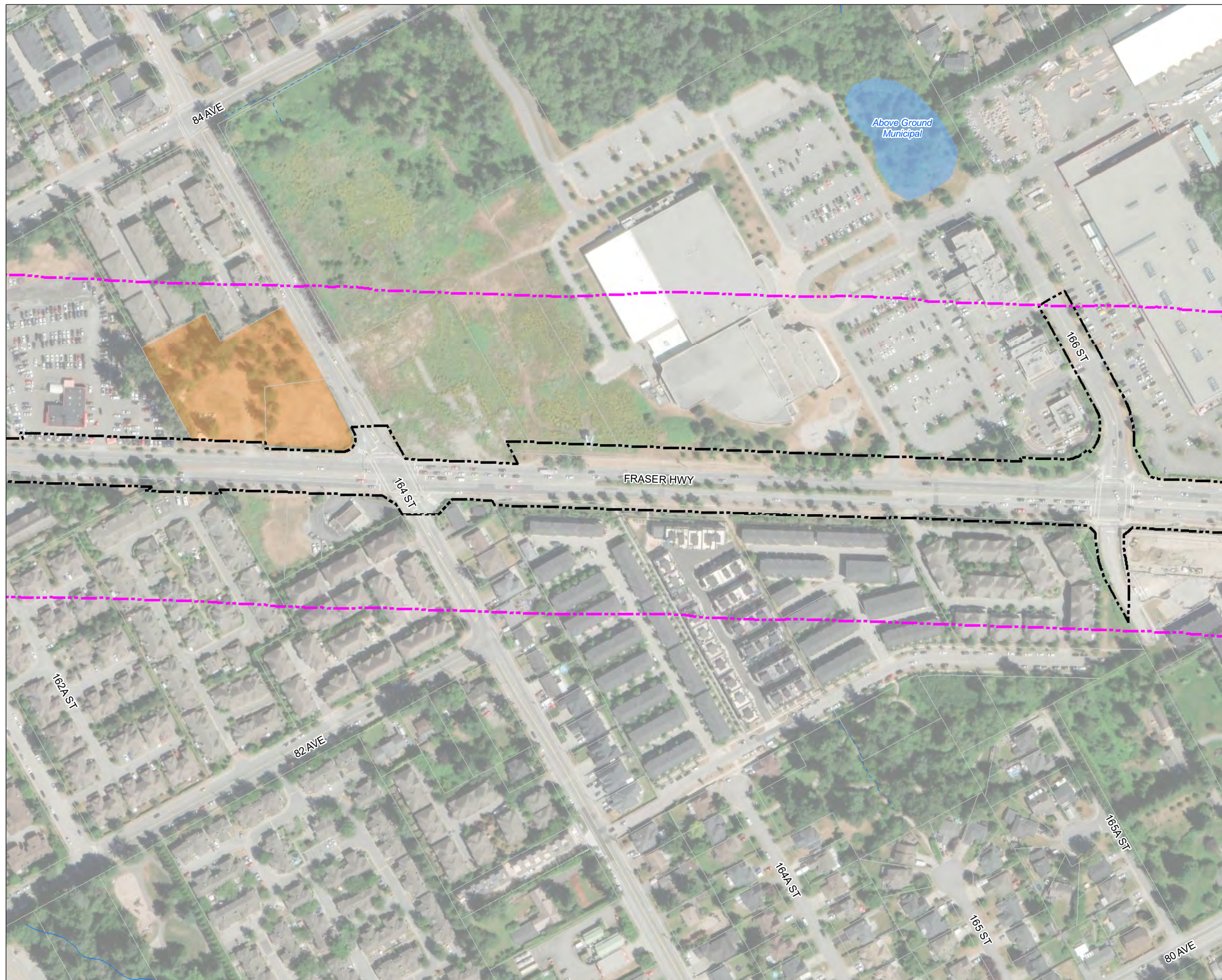
Sources

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- Aerial Image: ESRI World Imagery



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**Terrestrial Vegetation and Wildlife Habitat
Suitability along Proposed Alignment**



Legend

- Wildlife Baseline Study Area
- Municipal Right-of-Way (ROW)
- Waterbody
- Ditch
- Watercourse
- Property Line

Site Descriptions

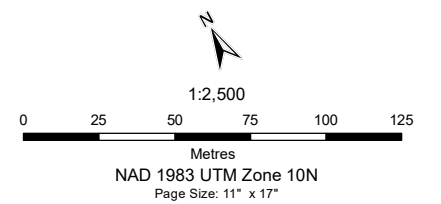
- Vegetated habitat for birds (e.g., raptors).

Notes

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


Sources

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



**Terrestrial Vegetation and Wildlife Habitat
Suitability along Proposed Alignment**

Legend

-  Wildlife Baseline Study Area
-  Municipal Right-of-Way (ROW)
-  Ditch
-  Watercourse
-  Property Line

Site Descriptions

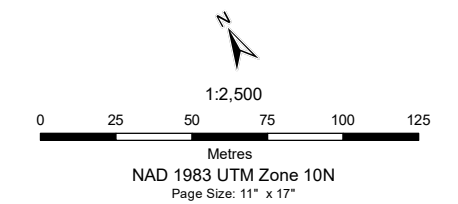
-  Himalayan blackberry. Low-value wildlife habitat.
-  Lots of Himalayan blackberry and field bindweed along fence.
-  Surrey Golf Club golf course.

Notes

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- Aerial Image: ESRI World Imagery



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**Terrestrial Vegetation and Wildlife Habitat
Suitability along Proposed Alignment**



Legend

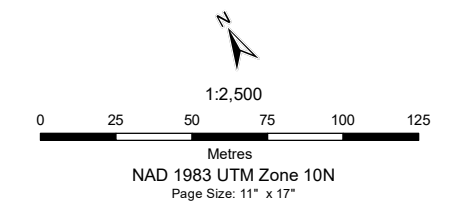
- Wildlife Baseline Study Area
 - Municipal Right-of-Way (ROW)
 - Waterbody
 - Ditch
 - Property Line
- Site Descriptions**
- Moderate-value field habitat.
 - Potential songbird habitat.
 - Himalayan blackberry. Low-value wildlife habitat.
 - Surrey Golf Club golf course.
 - Trees. High-value habitat.

Notes

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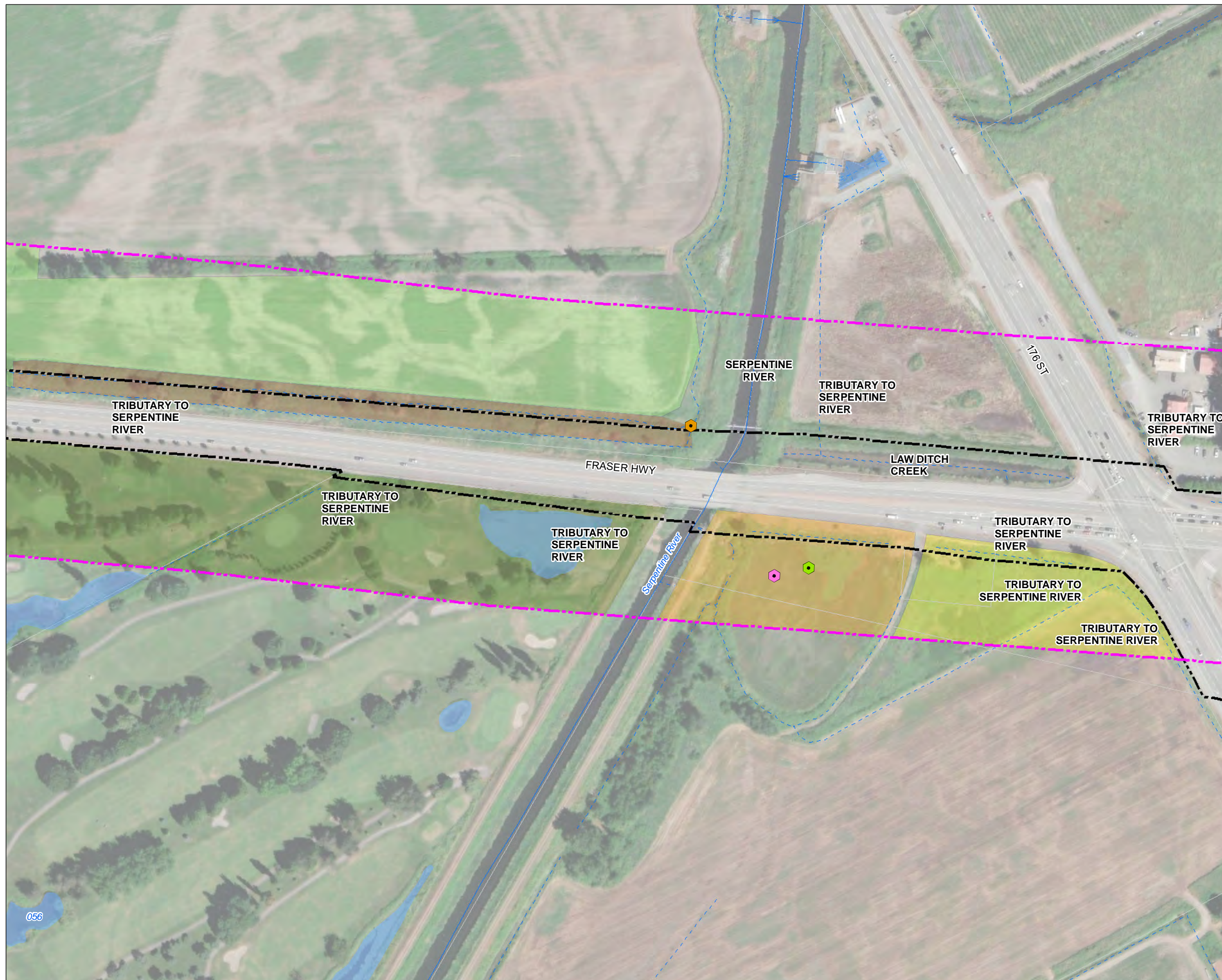
Sources

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- Aerial Image: ESRI World Imagery



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**Terrestrial Vegetation and Wildlife Habitat
Suitability along Proposed Alignment**



Legend

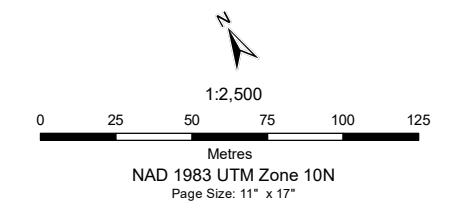
- Barn Swallow Observed
- Coyote Observed
- Great Blue Heron Observed
- Wildlife Baseline Study Area
- Municipal Right-of-Way (ROW)
- Waterbody
- Ditch
- Watercourse
- Property Line
- Site Descriptions**
- Moderate-value field habitat.
- Potential songbird habitat.
- Low-value wildlife habitat.
- Moderate-value wildlife habitat.
- Surrey Golf Club golf course.
- Trees. High-value habitat.

Notes

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**Terrestrial Vegetation and Wildlife Habitat
Suitability along Proposed Alignment**



Legend

- Wildlife Baseline Study Area
- Municipal Right-of-Way (ROW)
- Waterbody
- Ditch
- Watercourse
- Property Line

Site Descriptions

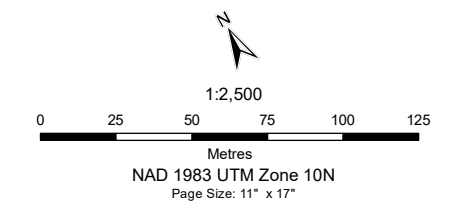
- Moderate-value field habitat.
- Low-value wildlife habitat.
- Moderate-value wildlife habitat.
- Low-value wildlife habitat with non-native vegetation (e.g., reed canary grass).
- Vegetated area within which numerous non-native species documented. Low-value wildlife habitat.
- Vegetated wall. Potential bird nesting habitat.

Notes

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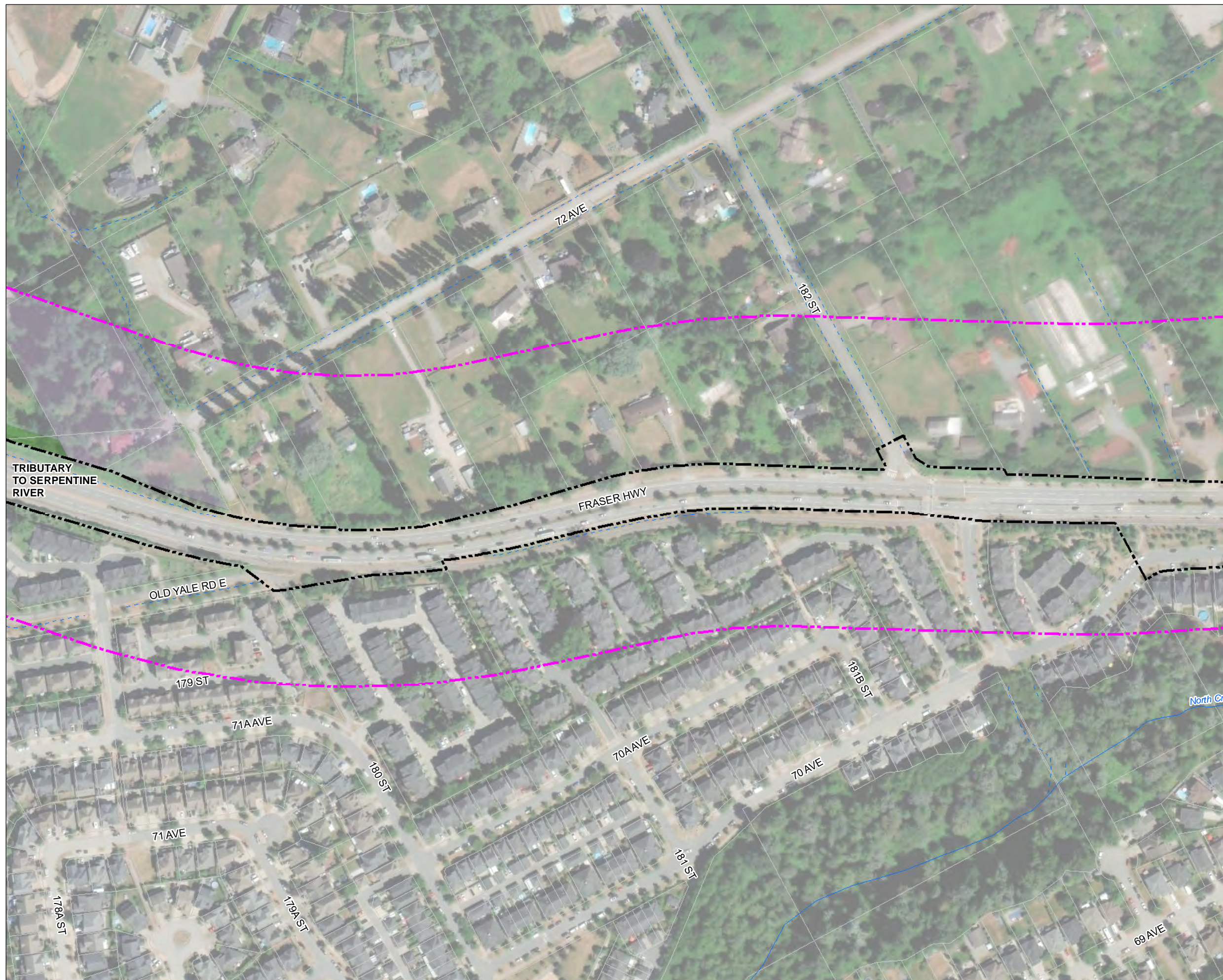
Sources

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- Aerial Image: ESRI World Imagery



Path: S:\GIS\emissions\Project\103715\04\mofmap\mof_wildlife\g11-3.13_103715_04_HabitatSuitability_06_2023.mxd

**Terrestrial Vegetation and Wildlife Habitat
Suitability along Proposed Alignment**



Legend

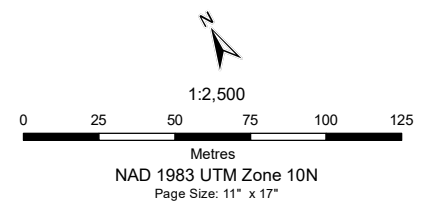
- Wildlife Baseline Study Area
 - Municipal Right-of-Way (ROW)
 - Ditch
 - Watercourse
 - Property Line
- Site Descriptions**
- Moderate-value field habitat.
 - Potential wildlife habitat.
 - Low-value wildlife habitat with non-native vegetation (e.g., reed canary grass).
 - Low-value wildlife habitat with non-native vegetation (e.g., reed canary grass).
 - Vegetated area within which numerous non-native species documented. Low-value wildlife habitat.
 - Vegetated wall. Potential bird nesting habitat.

Notes

1. The City of Surrey portion of the right-of-way was digitized from the City of Surrey lot lines dataset from property package dataset available from Surrey Open Data. The Township of Langley and the City of Langley portion of the right-of-way was digitized from British Columbia's cadastral dataset available on DataBC. The boundaries presented may not match the actual right-of-way boundaries.
2. All mapped features are approximate and should be used for discussion purposes only.
3. This map is not intended to be a "stand-alone" document, but a visual aid of the information contained within the referenced Report. It is intended to be used in conjunction with the scope of services and limitations described therein.

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- Aerial Image: ESRI World Imagery



**Terrestrial Vegetation and Wildlife Habitat
Suitability along Proposed Alignment**



Legend

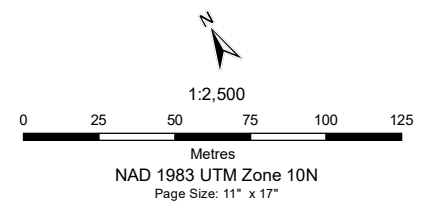
- Wildlife Baseline Study Area
 - Municipal Right-of-Way (ROW)
 - Waterbody
 - Ditch
 - Watercourse
 - Property Line
- Site Descriptions**
- Potential wildlife habitat.
 - Low-value wildlife habitat with non-native vegetation (e.g., reed canary grass).

Notes

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- Aerial Image: ESRI World Imagery



**Terrestrial Vegetation and Wildlife Habitat
Suitability along Proposed Alignment**



Legend

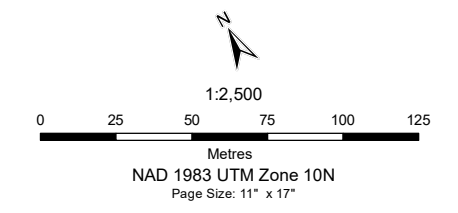
- Wildlife Baseline Study Area
- Municipal Right-of-Way (ROW)
- Waterbody
- Ditch
- Watercourse
- Property Line
- Site Descriptions**
- Moderate-value field habitat.
- Native vegetation, high suitability nesting bird habitat.
- Potential wildlife habitat.

Notes

1. The City of Surrey portion of the right-of-way was digitized from the City of Surrey lot lines dataset from property package dataset available from Surrey Open Data. The Township of Langley and the City of Langley portion of the right-of-way was digitized from British Columbia's cadastral dataset available on DataBC. The boundaries presented may not match the actual right-of-way boundaries.
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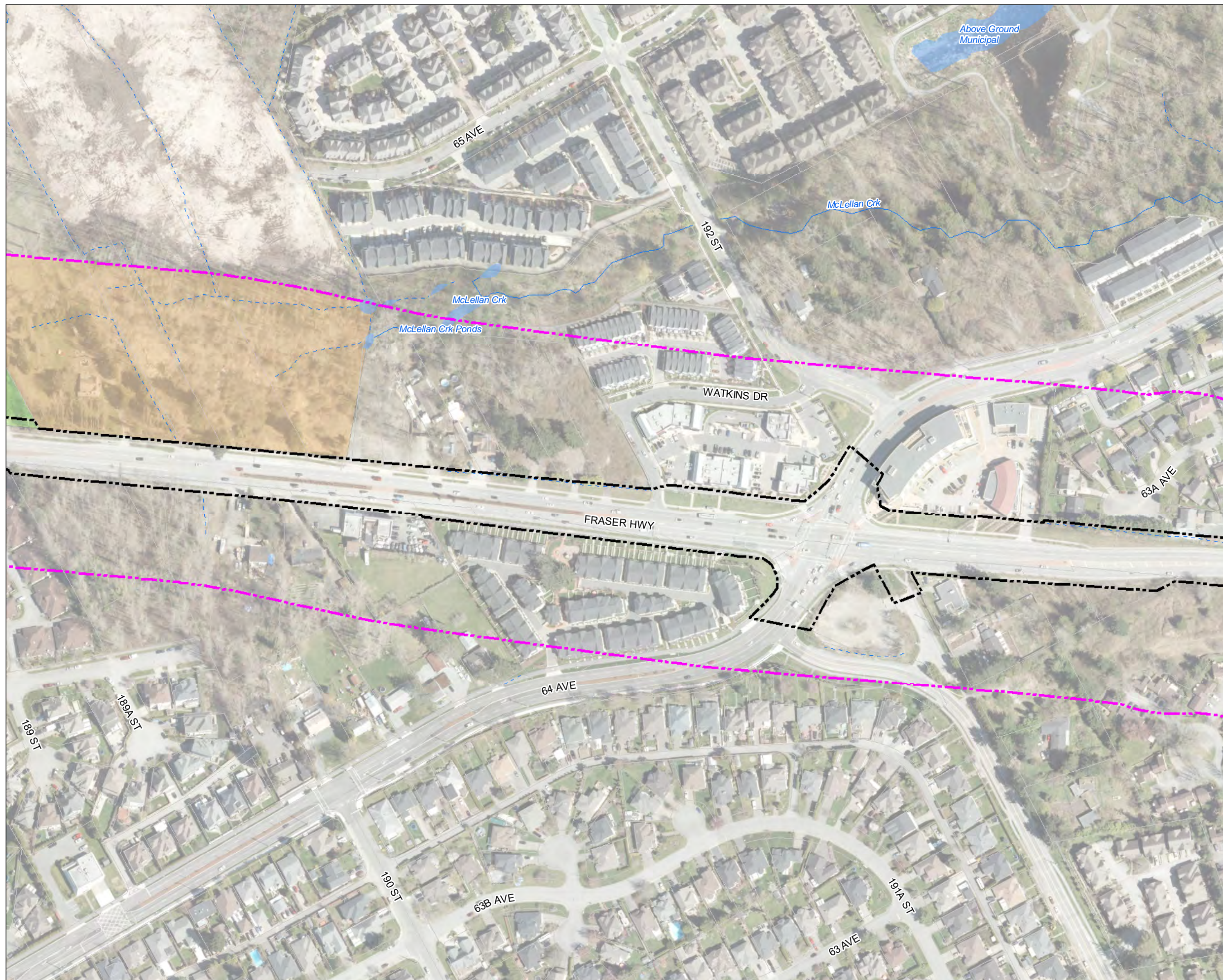
Sources

- Contains information licensed under the Open Government Licences - British Columbia, City of Surrey
- Aerial Image: ESRI World Imagery



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**Terrestrial Vegetation and Wildlife Habitat
Suitability along Proposed Alignment**



Legend

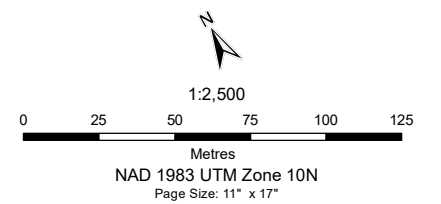
- Wildlife Baseline Study Area
- Municipal Right-of-Way (ROW)
- Waterbody
- Ditch
- Watercourse
- Property Line
- Site Descriptions**
- Moderate-value field habitat.
- Native vegetation, high suitability nesting bird habitat.

Notes

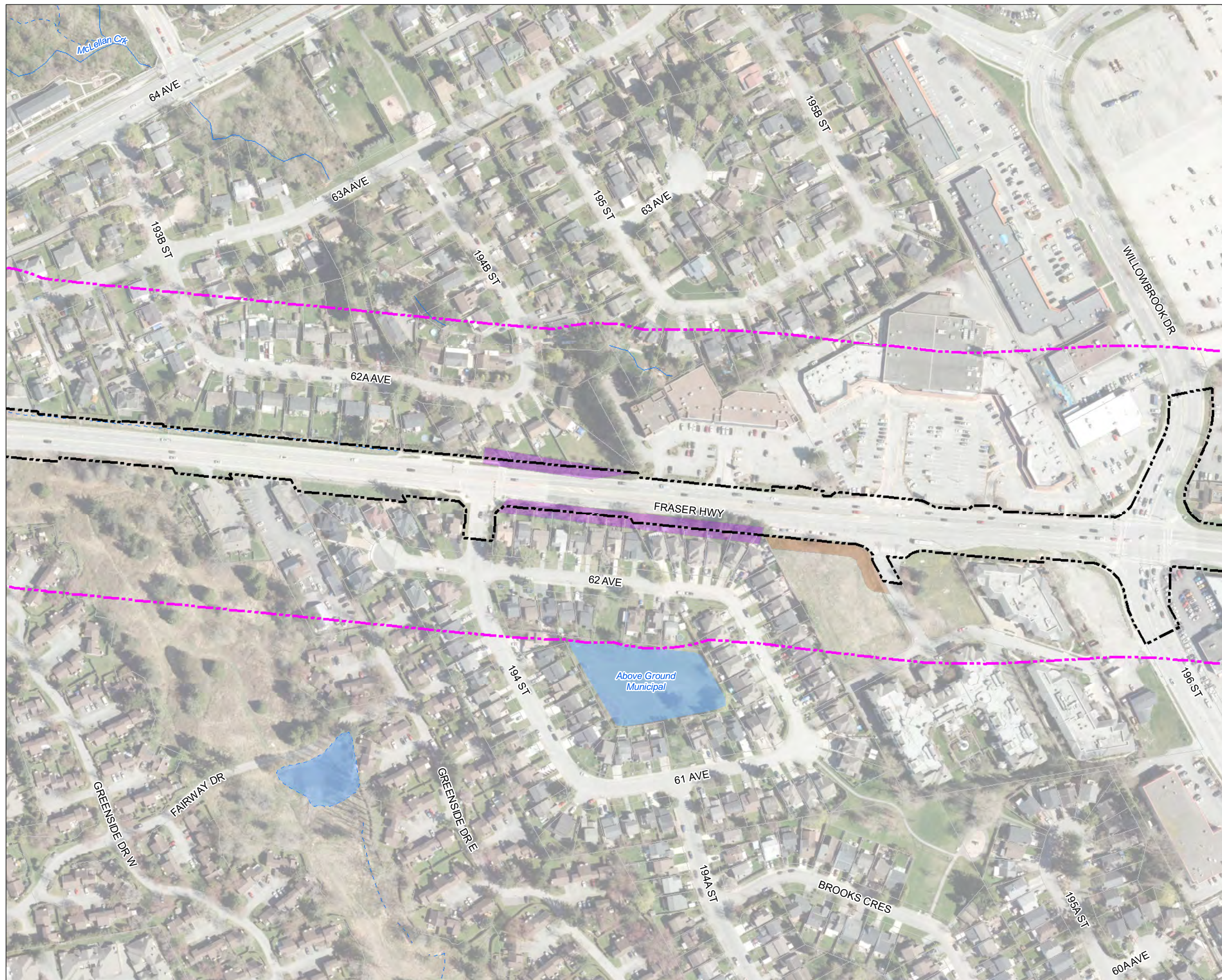
1. The City of Surrey portion of the right-of-way was digitized from the City of Surrey lot lines dataset from property package dataset available from Surrey Open Data. The Township of Langley and the City of Langley portion of the right-of-way was digitized from British Columbia's cadastral dataset available on DataBC. The boundaries presented may not match the actual right-of-way boundaries.
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- Aerial Image: ESRI World Imagery



**Terrestrial Vegetation and Wildlife Habitat
Suitability along Proposed Alignment**



Legend

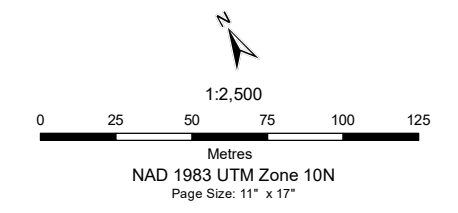
- Wildlife Baseline Study Area
- Municipal Right-of-Way (ROW)
- Waterbody
- Ditch
- Watercourse
- Property Line
- Site Descriptions**
- Overgrown lot with non-native species (e.g., Himalayan blackberry).
- Potential songbird habitat.

Notes

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Sources






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- Aerial Image: ESRI World Imagery



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**Terrestrial Vegetation and Wildlife Habitat
Suitability along Proposed Alignment**

Legend

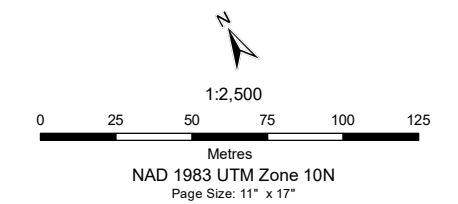
-  Wildlife Baseline Study Area
-  Railway
-  Municipal Right-of-Way (ROW)
-  Ditch
-  Property Line

Notes

1. The City of Surrey portion of the right-of-way was digitized from the City of Surrey lot lines dataset from property package dataset available from Surrey Open Data. The Township of Langley and the City of Langley portion of the right-of-way was digitized from British Columbia's cadastral dataset available on DataBC. The boundaries presented may not match the actual right-of-way boundaries.
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




Sources

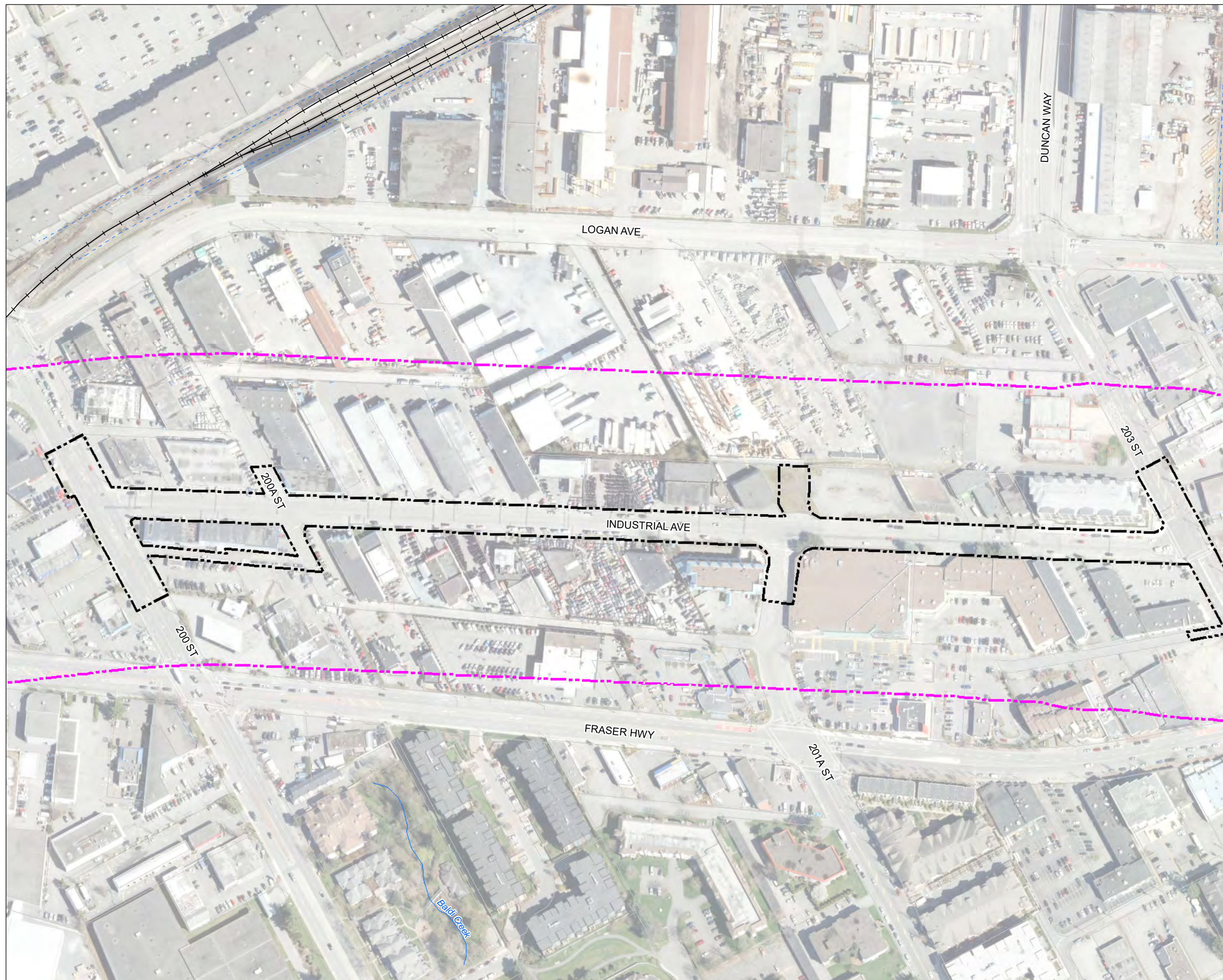
- Contains information licensed under the Open Government Licences - British Columbia, City of Surrey
- Aerial Image: ESRI World Imagery



**Terrestrial Vegetation and Wildlife Habitat
Suitability along Proposed Alignment**

Legend

-  Wildlife Baseline Study Area
-  Railway
-  Municipal Right-of-Way (ROW)
-  Ditch
-  Watercourse
-  Property Line

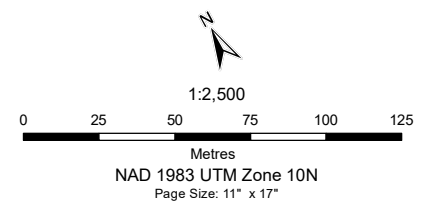


Notes

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- Aerial Image: ESRI World Imagery



**Terrestrial Vegetation and Wildlife Habitat
Suitability along Proposed Alignment**

Legend

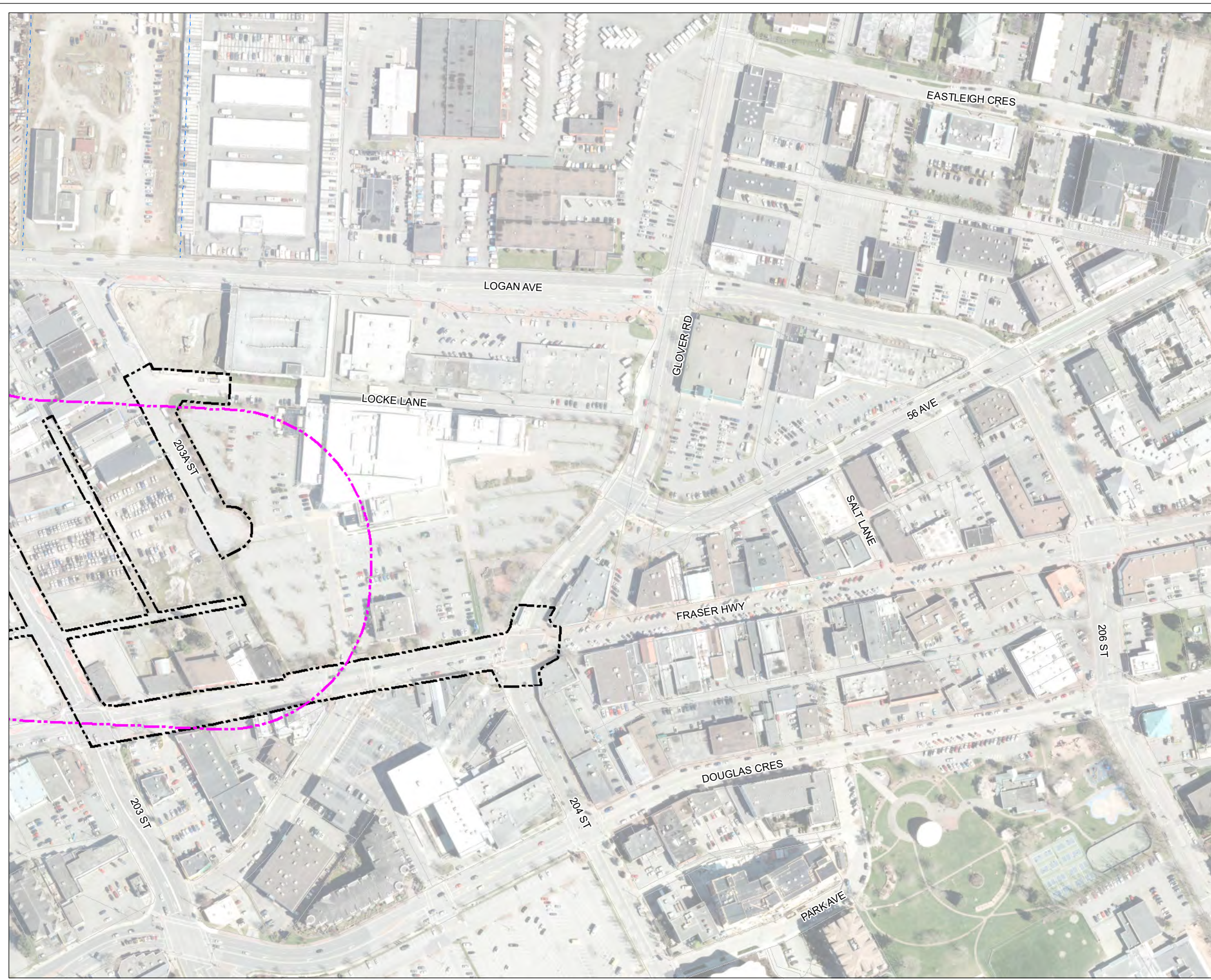
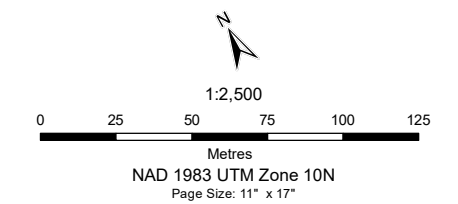
-  Wildlife Baseline Study Area
-  Municipal Right-of-Way (ROW)
-  Ditch
-  Property Line

Notes

1. The City of Surrey portion of the right-of-way was digitized from the City of Surrey lot lines dataset from property package dataset available from Surrey Open Data. The Township of Langley and the City of Langley portion of the right-of-way was digitized from British Columbia's cadastral dataset available on DataBC. The boundaries presented may not match the actual right-of-way boundaries.
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APPENDIX H

Archaeology and Heritage Figures

**Archaeological Management Areas
in the GTUF, Registered Historic Sites,
and AIA Survey Coverage**

Legend

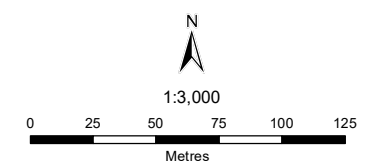
-  Archaeological Overview Assessment Study Area
-  Area of Interest – High Archaeological Potential
- AOI-1** Area of Interest Number
-  Archaeological Impact Assessment Survey Coverage
-  Archaeological Management Area
-  Registered Historic Site
-  BC Hydro Right of Way Boundary
-  Major Road
-  Local Road
- Surrey Langley SkyTrain Project**
-  Temporary At-grade or Aerial Footprint
-  Permanent Footprint

Notes

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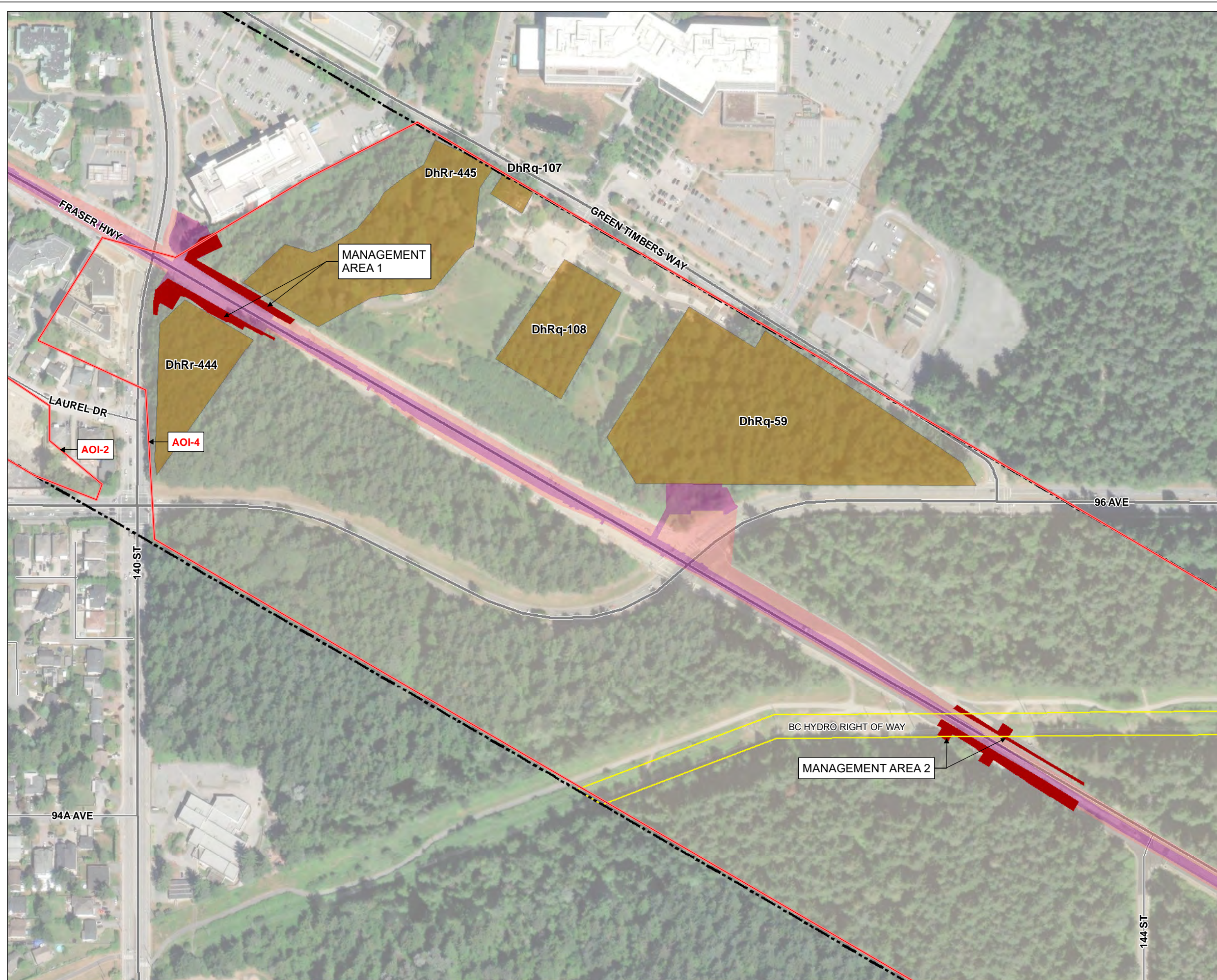
Sources

- Contains information licensed under the Open Government Licences - British Columbia
- Archaeological datasets: Kleanza Consulting Ltd., 2022
- Aerial Image: ESRI World Imagery









NAD 1983 UTM Zone 10N
Page Size: 11" x 17"

103715-04 Production Date: Jun 1, 2023 Figure H12-2



**Registered Historic Sites near 176 Street
and AIA Survey Coverage**

Legend

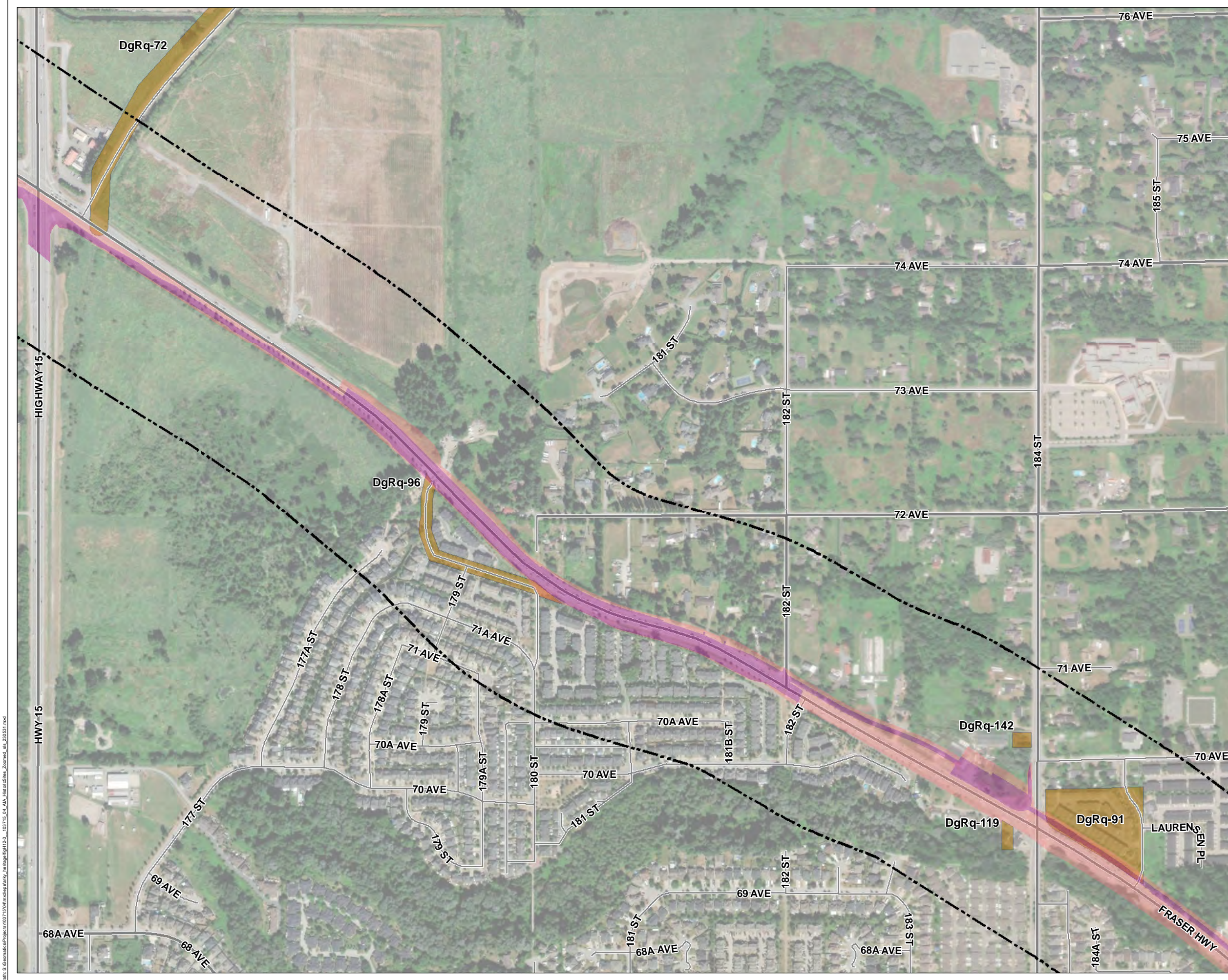
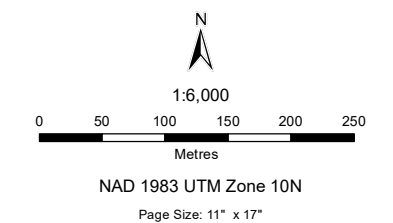
-  Archaeological Overview Assessment Study Area
-  Registered Historic Site
-  Major Road
-  Local Road
- Surrey Langley SkyTrain Project**
-  Temporary At-grade or Aerial Footprint
-  Permanent Footprint

Notes

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- Archaeological datasets: Kleanza Consulting Ltd., 2022
- Aerial Image: ESRI World Imagery



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