

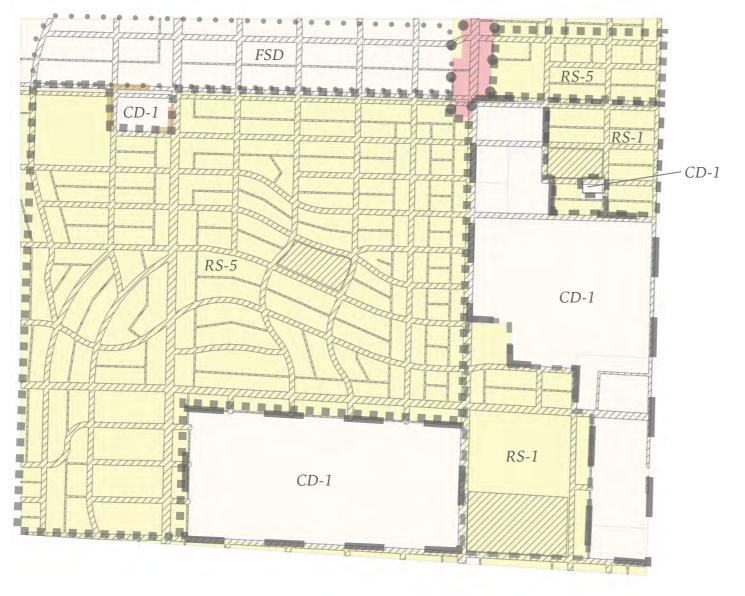
COV10

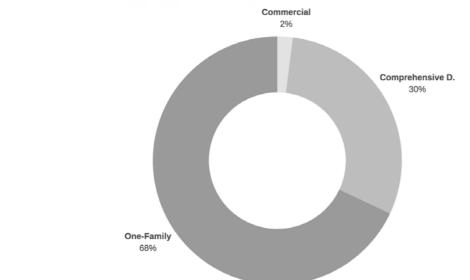
Thomas Idea: Kiefer Irvine: Sarah Bishop: Alina Kouneva [L]



meet the site

670 acres





CD-1 (Site Specific): Separate and tailor - made zone for specific use

RS-5: Preserve the existing character of the single-family residential zone by encouraging new development that is compatible with the form and design of existing development. Neighbourhood amenity is intended to be enhanced through the maintenance and addition of healthy trees and plants.

RS-1: Preserve the existing character of the single-family residential zone, but also to permit conditionally one-family dwellings with secondary suites. Neighbourhood amenity is enhanced through the maintenance of healthy trees and planting which reflects the established streetscape.

FSD: The intent of this District and accompanying official development plan is to protect and preserve Shaughnessy's unique pre-1940 single-family residential character. Provision is made to allow large pre-1940 houses to be redeveloped as multiple conversion dwellings, and to allow large sites with pre-1940 residential buildings to provide infill development.

Commercial Commercial	
Comprehensive Developmen	t
One-Family Dwelling	
Site_public_lands_dissolve	

land use: zoning



GREY*:

- \sim 1/3 dedicated to street
- $\sim 1/3$ dedicated to private driveways, pathways, patios, etc.
- ~ 1/4 dedicated to building foot print

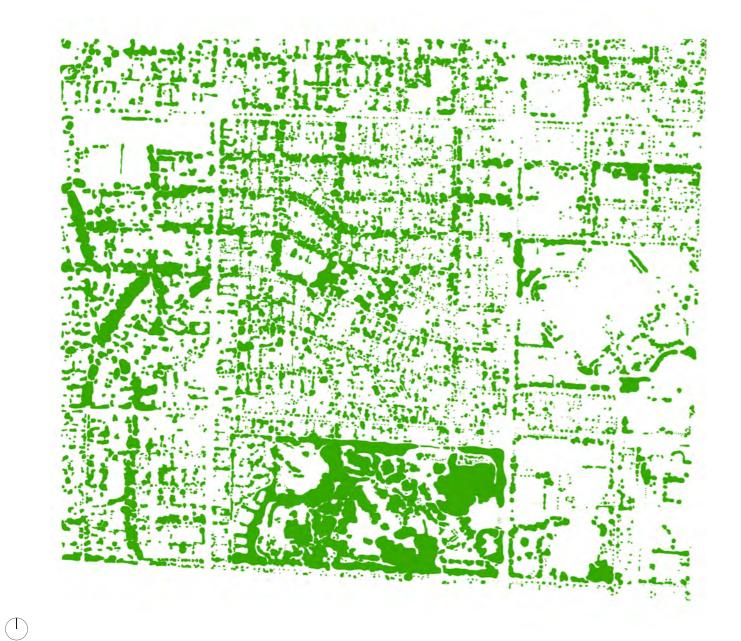
Tremendous amount of pavement, yet in correlation to City By-Laws allowing 60% of residential site to be impermeable. The additional 5% of total site is accounted for in public parking.

* Children's hospital, Safeway, and other cultural centre parking lots not shown in diagram; accounted for in overall percentage (12%)



65%





GREEN1 PUBLIC REALM:

- \sim 2/3 dedicated to urban canopy
- $\sim 1/3$ dedicated to dense forest providing plausible habitat

The urban forest is predominantly located at VanDusen park albeit the wide street characters of 2nd Shaughnessy to contain sections of broad canopy covered streets.

Forest 28%

100% OF SELF

Urban 72%

20% green1





GREEN2 PRIVATE REALM:

Coniferous trees were found predominantly on private property. Potentially due to:

-size - soil space requirements - provision of privacy



■ Deciduous_Forest ■ Coniferous_Forest ■ Mixed_Forest

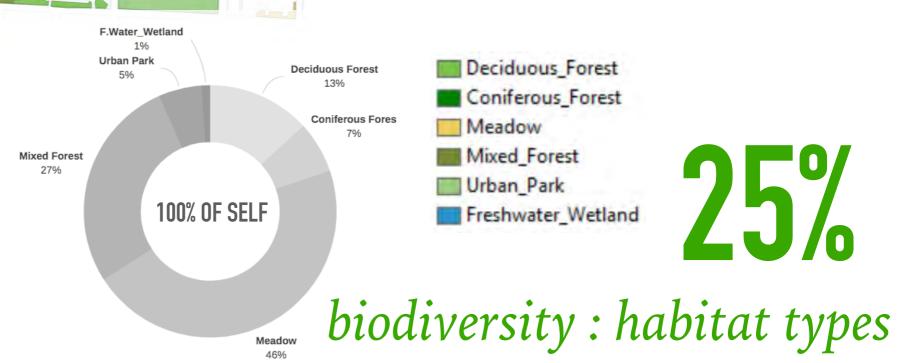


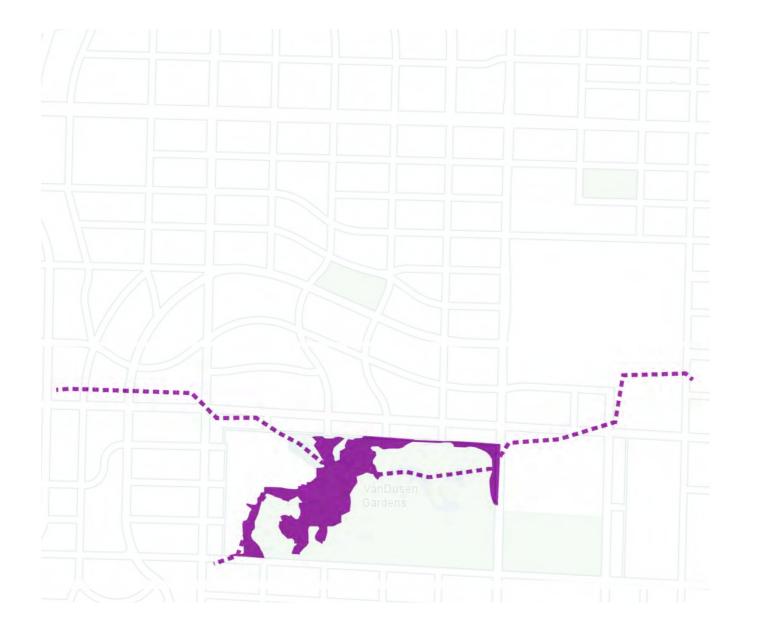
BIODIVERSITY HABITAT TYPES*:

VanDusen Gardens provides a significant mixture of a variety of habitat types while institutional, commercial and public park spaces provide low diversity of meadow and park grass land rendering an overall negative habitat impact due to the intrinsic maintenance requirements.

25%

* Analysis presented on public land





BIODIVERSITY HABITAT*:

Providing the analysis on habitat types previous, VanDusen Gardens is the hub previsionary of valuable habitat area. There a few habitat hot spots on private property not indicated here and will be included in phase II of this research.

* Analysis presented on public land

Habitat

4%

biodiversity: habitat



NATURALNESS*:

Irregardless of the value of VanDusen Gardens, it contains low native vegetation and is heavily maintained leaving little room for naturalness to occur. This too is more intensely represented here in the institutional and commercial spaces.

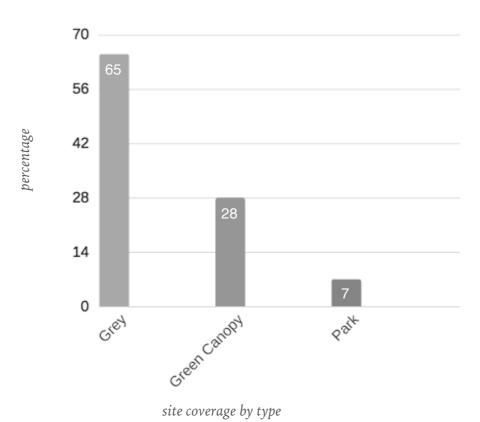
* Analysis presented on public land

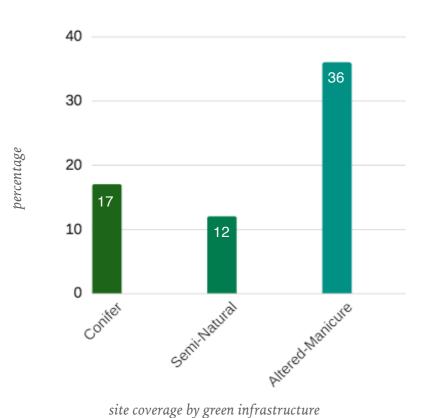


20%

urban forest : naturalness

Of Site Entirety





OVERALL SITE FINDINGS:

- 1. Zoning plays a large part in the type and quality of urban forest and coverage, city By Laws allow 60% impermeable site coverage
- 2. Although VanDusen Gardens is previsionary in the most abundant habitat valued area of the site, it too maintains a low level of naturalness and wild habitat
- 3. Institutional and commercial spaces contain little to no room for vegetative cover, even when they do, most species are struggling to stay healthy. These areas have the most potential for intervention
- 4. The highest concentration of coniferous urban forest is found on private property

Site 11

Queen Elizabeth Park



Queen Elizabeth Park

Biodiversity Hotspot Green asset



Main Arterials

Commercial services Densification in progress



Residential Fabric

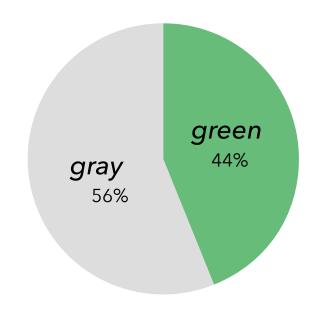
Largely single-family homes





Green vs. Gray Fabric

44% of the site is green



Green Fabric

Public Greenery



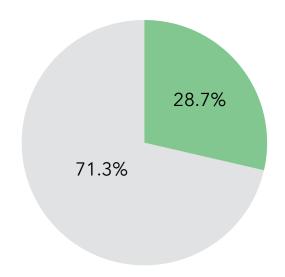
Private Greenery



Urban Forest Canopy

28.7%

tree canopy cover

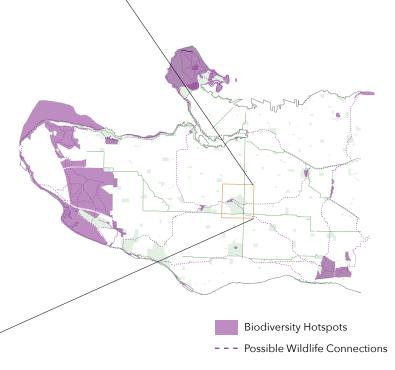




Tree Canopy Cover



Biological Diversity and Connectivity



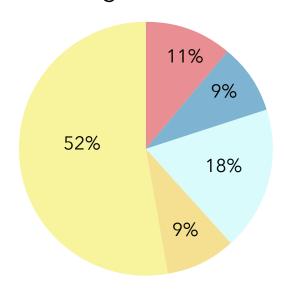


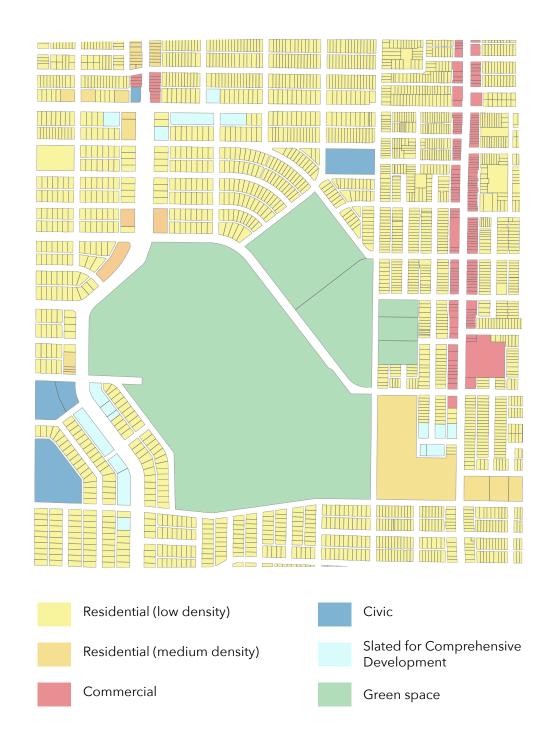
Urban Fabric

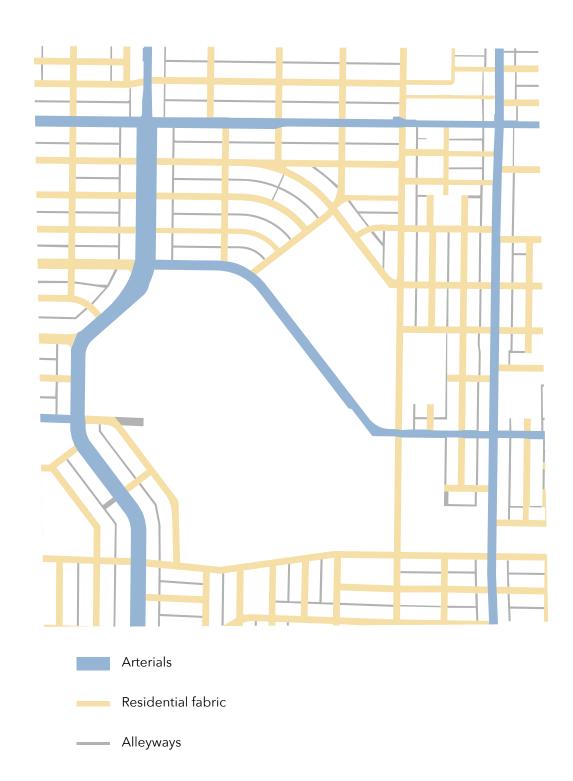
52%

of area zoned for *low* density residential

Zoning Distribution





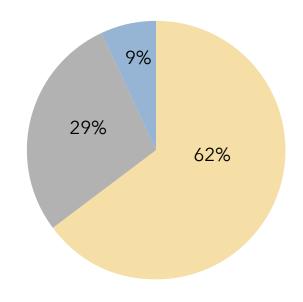


Street Network

62%

of the public street network is *residential fabric*

Street Area Distribution



Green Social Effectiveness



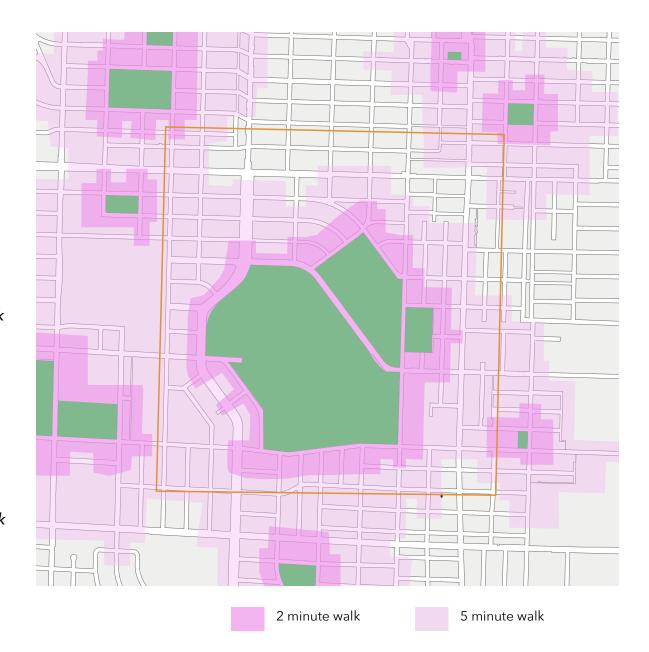
63.1%

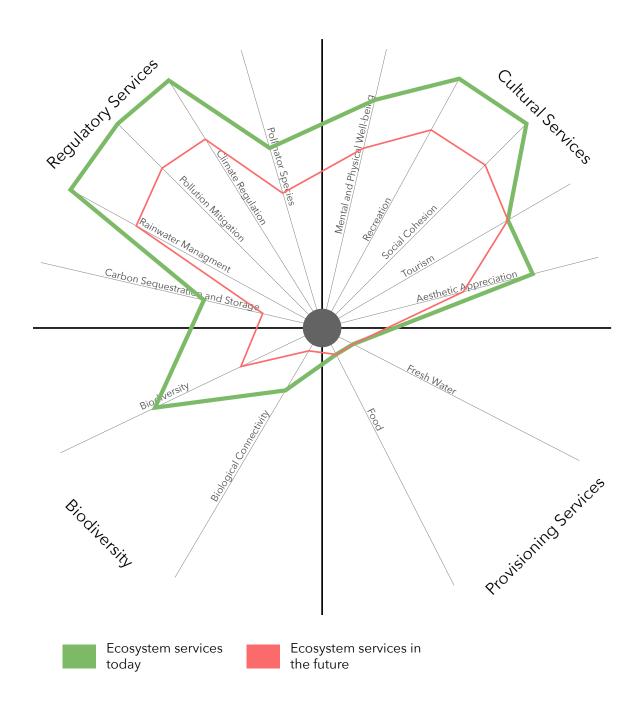
of households > 2 minute walk from dedicated greenspace



28.8%

of households > 5 minute walk from dedicated greenspace





Ecosystem Services

Future Trends

Increased Temperature
Increased Precipitation
Densification
Increased Social Needs

Key Issues and Perspectives



Biological Diversity

Improve diversity on private land create functioning biological connections



Environmental Services

Improve rainwater management Impliment green infrastructure



Recreational Services

Strengthen recreational facilities at Queen Elizabeth Park Improve access to green spaces Tiffany Chin Teresa Maddison Pantha Vohra Chelsea Wang

City of Vancouver 12
Cambie Corridor
Oakridge Mall to Langara Golf Course



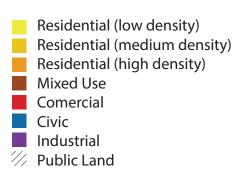
Land use

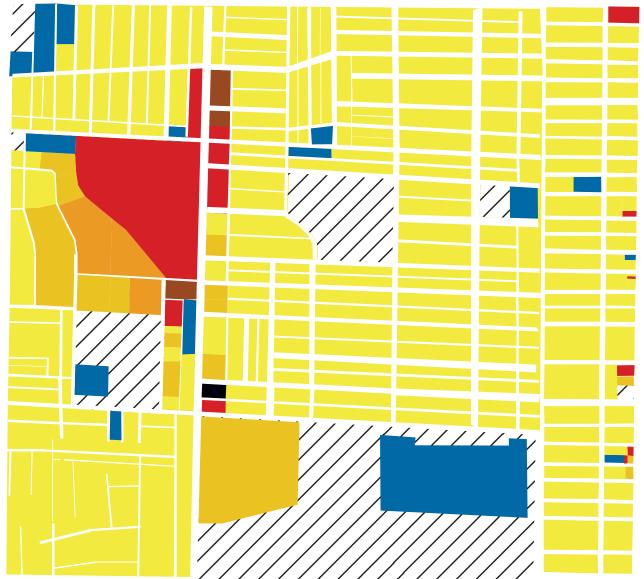
10.43 km

bike paths

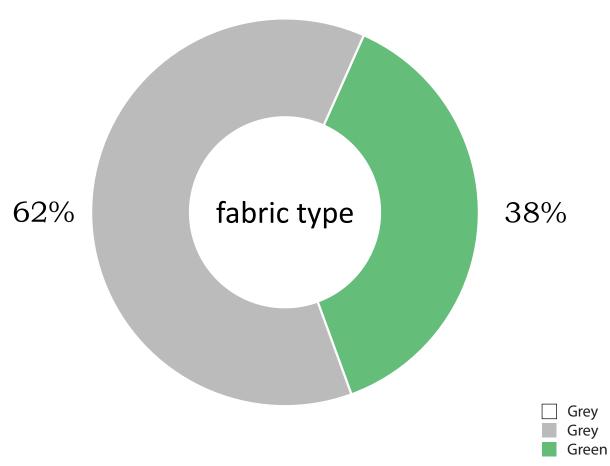
3.87 km

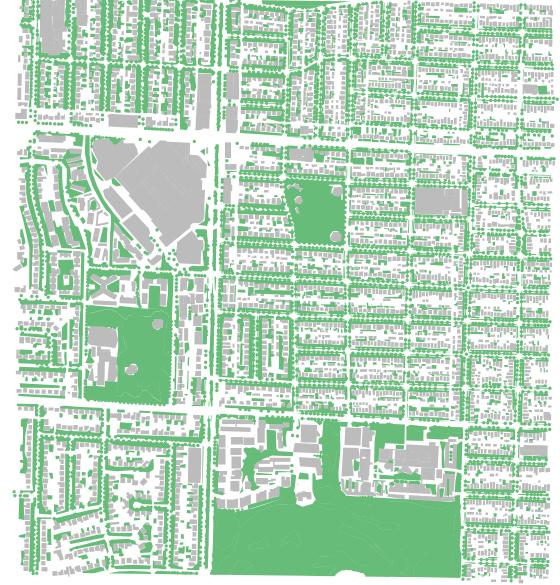
walking trails



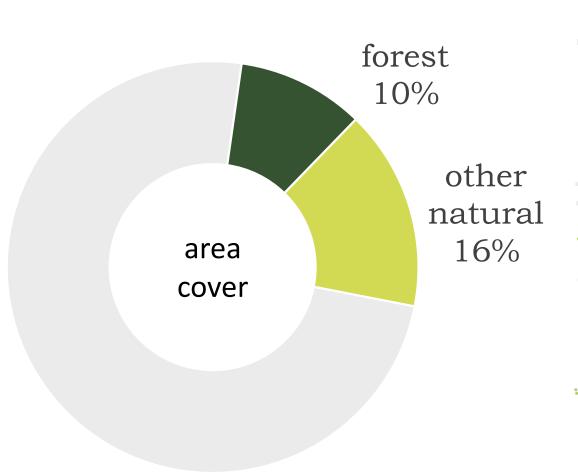


Land cover





Vegetation type





Vegetation naturalness



32%

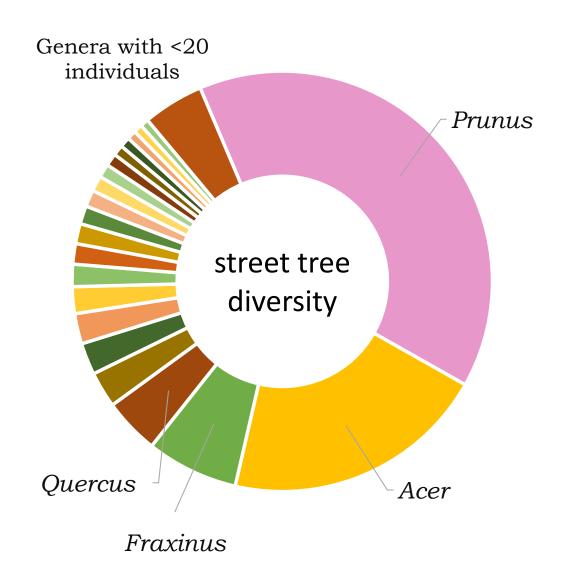
Cultural Vegetation Altered Vegetation Semi-Natural Vegetation

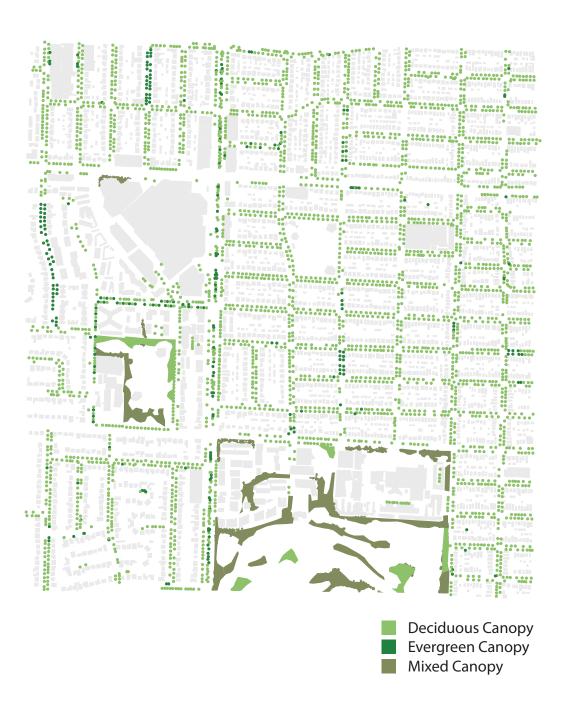
within 100m of nature

92%

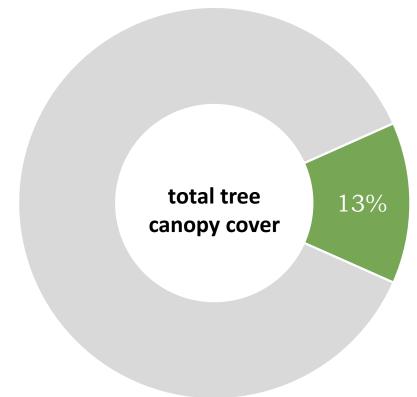
within 400m of nature

Trees





Tree canopy cover



37 ha

coniferous 7% tree canopy type

deciduous and mixed

tree canopy cover

Biodiversity & habitat types



0.4%

with high habitat value

20%

with moderate habitat value

Habitat Hotspot
Coniferous Forest
Decideous Forest
Mixed Forest
Hedgerow
Urban Park
Open Water

SITE 13 | CAMBIE CORRIDOR

INCLUDES

LARC 444/553 Project 2 | Part 1 Presentation Vanessa Aragona, Alex DeRoehn, Jessica Lee, Michelle Whiticar

1600m

0m

6400m

STANLEY PARK UBC **ENDOWMENT LANDS** CAMBIE STREET Langara Golf Course MARINE DRIVE CANADA LINE STATION SW MARINE DRIVE Marine Drive industrial area **MARINE** DRIVE

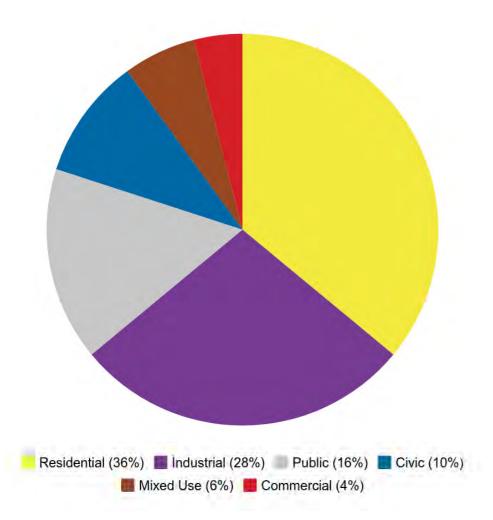
STATION

LAND USE

The land uses are highly fragmented and isolated from one another.

28% IS INDUSTRIAL LAND

LAND USE BREAK DOWN

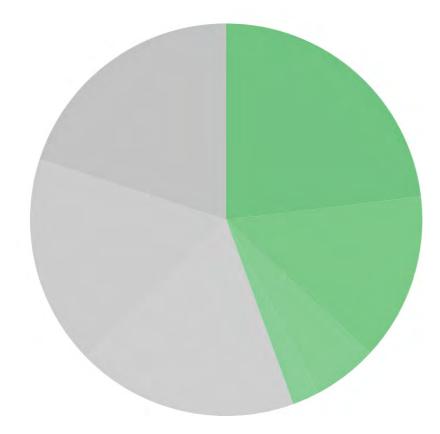


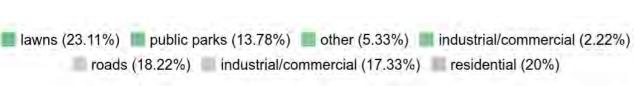


GREEN VS. GREY

More than half of our site is grey space, attributed to industrial land uses and streets.

60% GREY 40% GREEN







VEGETATION TYPE

Most vegetation in our site is focused north of SW Marine Drive.

Forest Cover +

NATURAL VEGETATION

concentrated around Langara Golf Course.

SITE COMPOSITION

78% Herbaceous

19% Forest

2% Shrub

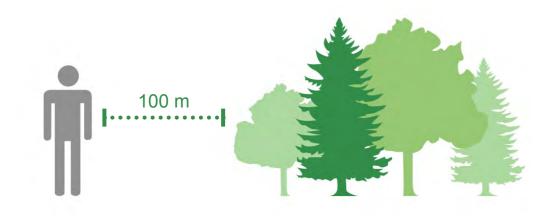
1% Water



PROXIMITY TO NATURE

Residents and workers within the area are at least a 5 MINUTE WALK (400 metres) from nature.

This 100-metre and 400-metre indicator highlights the walkability of this community



66%

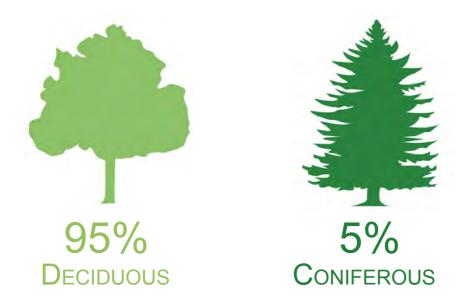
OF SITE WITHIN

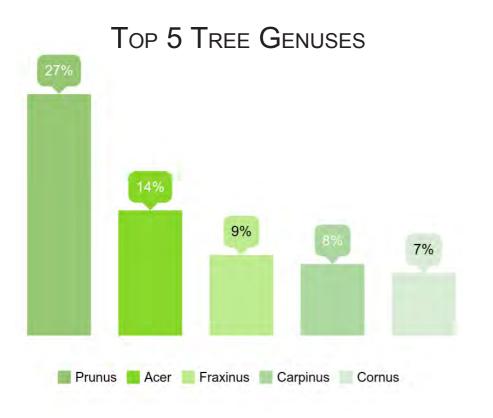
100 Metres of Nature



TREE CANOPY

The tree canopy dissipates where land use is primarily industrial.







STREET TREES

Trees Planted in Last 30 Years



TREE DIAMETER & ABUNDANCE





BIODIVERSITY

This neighbourhood is lacking in biodiversity hubs as well as natural forest land throughout the site.

A large range of

NATURAL HABITAT CANNOT EXIST

due to large

AMOUNT OF GREY SPACE

SITE COMPOSITION

1 OF HABITAT HOTSPOTS11 OF HABITAT SITES1.6 KMS OF HABITAT CORRIDORS

5% OF AREA HAS HABITAT VALUE





CHALLENGES

LAND USE: INDUSTRIAL LAND

60% of our site is grey
LIMITED VEGETATION IN INDUSTRIAL AREAS

Transportation Network

CAMBIE STREET & SW MARINE DRIVE ACT AS BARRIERS

BIODIVERSITY

LACK OF DIVERSE HABITAT AREAS
LITTLE DIVERSITY IN TREE SPECIES

OPPERTUNITIES

AREA OF RAPID DEVELOPMENT

MARINE GATEWAY
GREENEST CITY INITIATIVES

GREEN IMPROVEMENTS

GREEN INFRASTRUCTURE
TREE PLANTING