Seeing the Forest for the Trees

Rethinking cultural landscape conservation on Vancouver Island

JESSICA UDAL SPRING 2020

Landscape Architecture University of British Columbia

Jessica Udal

Conservation in Vancouver Island's Forests

In presenting this report in partial fulfillment of the requirements for the Master of Landscape Architecture, University of British Columbia, I agree that UBC may make this work freely available for reference or study. I give permission for copying the report for educational purposes in accordance with copyright laws.

Jessica Udal

Name

Cover Image: Seasonal Use Diagram (Udal, 2020)

# Release Form

School of Architecture and Landscape Architecture

# The Forest for the Trees: Rethinking Cultural Landscape

05/13/2020

Signature

Date

4

landscape.

By proposing 'gardening' as the programmatic basis for site intervention, this project suggests an alternative cultural landscape narrative for Vancouver Island's forests.

# Abstract

This project argues that traditional modes of landscape conservation fail to highlight the complex social, political, ecological and economic dynamics that work to create cultural landscapes. On Vancouver Island, the ongoing tension between logging and conservation continues to reinforce the polarizing resource-wilderness dichotomy that has been so intrinsic to western perceptions of

### List of Figures

PART ONE: RESEARCH

# Table of Contents

PART TWO:

# List of Figures

### PART ONE: RESEARCH

Fig. 1: Zoom-in of Wilderness and tourism infrastructure on Vancouver Island (Udal, 2020) Fig. 2: Adapted from Cheewhat Cedar, TJ Watt (https://www.ancientforestalliance.org, n.d)

Fig. 3: Conceptual Diagram (Udal, 2019)

Fig. 4: History of Forest Narratives (Udal, 2020)

Fig 5: View of Tutocanula Pass Yosemite California, Carleton Watkins (Wikimedia Commons, n.d.)

Fig 6: Adapted from John Muir in 1907 (Wikipedia, n.d.)

Fig 7: Adapted from President Franklin D. Roosevelt and Gifford Pinchot (USDA Forest Service, 1931)

Fig 8: Adapted from East Creek Logging on Vancouver Island, TJ Watt (https://sierraclub.bc.ca, 2016)

Fig 9: Adapted from East Creek Logging on Vancouver Island, TJ Watt (https://sierraclub.bc.ca, 2016)

Fig 11: Meter, Jasmeen Kaur Bains (Alison B. Hirsch & Aroussiak Gabrielian, 2016)

Fig 12: Tactical Deployments, Jasmeen Kaur Bains (Alison B. Hirsch & Aroussiak Gabrielian, 2016

Fig 13: Meter, Benjamin Matthews (Alison B. Hirsch & Aroussiak Gabrielian, 2016)

Fig 14: Structural components of the hybrid system, Benjamin Matthews (Alison B. Hirsch & Aroussiak Gabrielian, 2016)

Fig 15: The Ethics of Dust The Ethics of Dust displayed in Westminster Hall in London (Studio Otero-Pailos, 2016)

Fig 16: Jorge Otero-Pailos removing latex at the Doge's Palace in Venice, Italy (Studio Otero-Pailos, 2016)

Fig 17: The Ethics of Dust iteration at the Doge's Palace in Venice, Italy. (Studio Otero-Pailos, 2016)

Fig 18: Aerial Image from the Forest Fragments Project, Richard Bierregaard (https://news.mongabay.

com/2011/08/lessons-from-the-worlds-longest-study-of-rainforest-fragments, n.d/

Fig 19: Biological Dynamics of Forest Fragments Diagram (W.F. Lawrence et al., 2011)

Fig 20: Blockade: Protesters from Clayoquot 'peace camp' put up a daily blockade to slow logging trucks. More than 70 have been arrested, Rick Eglinton (Toronto Star Archives, 1993)

Fig. 21: Logging Infratructure on Vancouver Island (Udal, 2020)

Fig 22: Wilderness and tourism infrastructure on Vancouver Island (Udal, 2020)

Fig. 23: Adapted from Logging Truck (https://i.pinimg.com/, n.d.)

Fig. 24: Adapted from Marbeled Murrelet, Brian Sullivan (ebird.org, 2012)

Fig. 25: Photograph from Anian Clothing's website (http://anianmfg.com, n.d.)

Fig. 26: Photograph from Tofino Brewing Company's website (http://tofinobrewingco.com, n.d.)

Fig. 27: Photograph from Ecologyst (formerly Sitka)'s website (http://ecologyst.com, n.d.)

Fig. 28: Zoom in of Logging Infratructure on Vancouver Island (Udal, 2020)

Fig. 30: Cut Block 7190 Site Image (Udal, 2020) Fig. 31: Big Lonely Doug, TJ Watt (https://www.ancientforestalliance.org/, n.d.) Fig. 32: Big Lonely Doug, TJ Watt (https://www.ancientforestalliance.org/, n.d.) Fig. 33: Scorned as Timber, Beloved of the Sky, Emily Carr, 1939 (Wikimedia Commons, n.d.) Fig. 34: Context Map (Udal, 2020) Fig. 35: Current Site Program and Use (Udal, 2020) Fig. 36: A History and Future of Forest Values in British Columbia (Udal, 2020) Fig. 37: Forestry: A Future (Udal, 2020) Fig. 38: Succession: A Future (Udal, 2020) Fig. 39: Tourism: A Future (Udal, 2020) Fig. 40: Gardening Conceptual Diagram (Udal, 2020) Fig. 41: It's All Gardening Collage (Udal, 2020) Fig. 42: Gardeners Diagram (Udal, 2020) Fig. 43: Character Defining Elements (Udal, 2020) Fig. 44: Garden Site Plan (Udal, 2020) Fig. 45: Garden Axonometric (Udal, 2020) Fig. 46: Maintenence Diagrammatic Section (Udal, 2020) Fig. 47: Garden Site Section (Udal, 2020) Fig. 48: Mulch Path Section (Udal, 2020) Fig. 49: Transition Section (Udal, 2020) Fig. 50: Elevated Walkway Section (Udal, 2020) Fig. 51: Flows Site Section (Udal, 2020) Fig. 52: Seasonal Use Diagram: Winter (Udal, 2020) Fig. 53: Elevated Walkway in Winter Render (Udal, 2020) Fig. 54: Seasonal Use Diagram: Spring (Udal, 2020) Fig. 55: Forest Edge in Spring Render (Udal, 2020) Fig. 56: Seasonal Use Diagram: Summer (Udal, 2020) Fig. 57: Bear Eating Berries in Summer Render (Udal, 2020)

Fig. 58: Seasonal Use Diagram: Fall (Udal, 2020)

Fig. 59: Bear Fertilizing with Salmon in Fall Render (Udal, 2020)

Fig. 60: After the Fall Render (Udal, 2020)

Fig. 29: Current Site Plan (Udal, 2020)

### PART TWO: DESIGN



This project is dedicated to my parents, Bou Champion and Mickey Udal, who made a home for me in the forest.

I would like to thank Susan Herrington for her enthusiasm and encouragement as I found my way through a landscape of rabbit holes.

Thank you to Daniel Roehr for generously providing design guidance and support, even in the midst of a pandemic.

I would also like to express my gratitude to my classmates for always lending an ear, to Celia Winters for the render wizardry, to Sahar Khelifa for her thorough edits, and to Carolyn Wu for the drawing help. Finally, thank you to my beyond wonderful friends and family for keeping me grounded and reminding me of what is truly important.

Fig. 1: Zoom-in of Wilderness and tourism infrastructure on Vancouver Island (Udal, 2020)

# Acknowledgments

Part One: Research

# Introduction

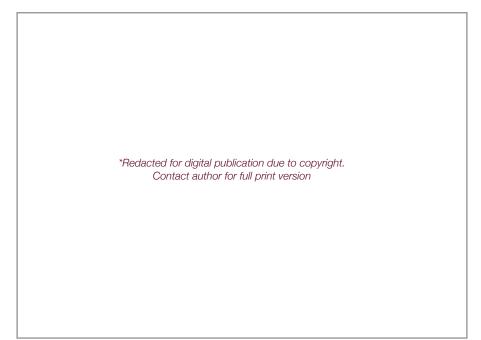


Fig. 2: Cheewhat Cedar, TJ Watt (https://www.ancientforestalliance.org, n.d)

Like most of Canada, Vancouver Island is a landscape caught between two ideas – resource extraction and wilderness. While ads for tourism evoke a vast, open and wild landscape, aerial satellite images reveal an almost island-wide patchwork of industrial logging cut-blocks. How do these two landscapes exist simultaneously? What do they reveal about our relationship to our environment and our understanding of our place within it? The dichotomy created by looking at the natural world as either wilderness or resource has a long and complex history – one where landscape architecture has played, and continues to play, an important role. Conservation has been a tool used to espouse the wilderness myth and reinforce an idea of nature as

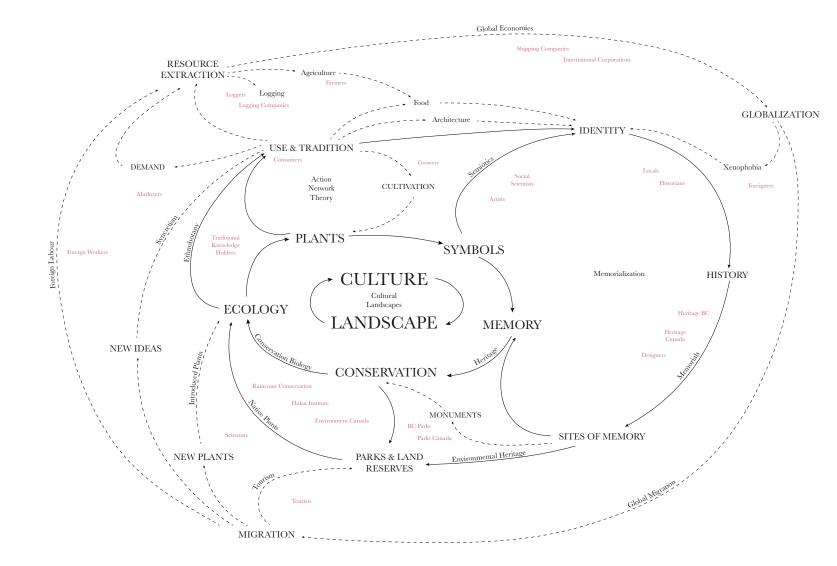
B. Jackson, 'The Vernacular Landscape,' in *Landscape Meanings and Values*, ed. Edmund. Penning-Rowsell and David Lowenthal, (London: Allen and Unwin, 1986), p. 80 separate from humans. While this moralistic outlook has created work and validity for the profession of landscape architects, it is not an innocent pursuit. Conservation, as the other side of the extractive coin, has worked to reflect and reinforce an understanding and interaction with the landscape that often removes reciprocity, instead working to create small areas of preservation despite the fact that humans do, and always have, relied on landscapes and the beings within them for food, shelter and other resources.

As culture informs landscape and landscape informs culture, there is an ongoing process of creation between humans and their environment. Conservation exists as a product whereby natural elements, such as plants or geologic features, become symbols of cultural identity, and are reinforced through the creation of sites of memory such as parks or natural reserves. This works to support the continuance of particular ecologies and visions for what the landscape should be. As a practice of memorialization, conservation is a central element to a cycle of cultural landscape creation.

For the profession of landscape architecture, conservation is worth pursuing. In fact, as I argue, it is a framework with great potential to make visible the ecological, political, economic and cultural complexity of land use which, because of its many moving pieces, is generally invisible to the public leaving management and decision making to governments with problematic priorities and allegiances. As architectural preservationist Jorge Otero-Pailos points out, conservation is one of the few areas of the built environment where the public has such a vested interest.<sup>1</sup> Rather than the traditional approach of putting aside tracts of land exchanged for others to be logged, I believe that landscape architects should use their skills of researching, visualizing information, and designing experiences to highlight the larger issues at play. The recent movement in conservation to approach landscapes from a cultural landscape perspective provides practitioners with a useful tool to reassert the intrinsic relationship between human culture and the environment. In order to do this, current guidelines around assessing cultural landscapes must be expanded to both better represent the landscape as an active stakeholder within that relationship and shed light on the ontologies that underly our beliefs about the natural world.



1. Ted Shelton and Tricia Stuth, "Architecture and Human Attachment: An Interview with Jorge Otero-Pailos," *Journal of Architectural Education* 72, no.2 (2018): 190.



he Wilderness/ rce Dichotomy **ESOUI** 

Though the story of understanding nature as an entity outside of humans in Western philosophy can be drawn back to the ancient Sumerians<sup>1</sup>, the dramatic social and environmental changes of the Early Modern Period created an altogether new level of distinction between humans and what was understood to be the world around them. The escalation of trade, urbanization and population growth during the late Middle Ages and Renaissance initiated an exacerbation of resources, primarily wood, throughout Europe. It was in this context of a rapidly changing landscape and an ever-dwindling presence of old growth forests that both the need for resources to maintain the momentum of capitalistic growth as well as a nostalgia for an Edenic past became embedded in the European sensibility. This was especially at play in colonial expansion where wood shortages were one of the primary driving forces for exploration, allowing for the seemingly "untouched" forests outside of Europe to appear as a prelapsarian wilderness.<sup>2</sup>

On every continent, European colonial forc and claim to power was driven by the deman for resources. In North America, logging in th eastern part of the continent was a primar resource that spread east to west with increasin industrialization. As the US population double every twenty years between 1790 and 1880 "the demand for timber was insatiable, the supply seemed infinite and for nearly a half century the production of lumber also doubled every twenty years."<sup>3</sup> In Canada, the consumption of forests was directly linked to European conflicts with Canadian timber providing naval resources to Britain, who's access to Baltic forests was blocked during the Napoleonic Wars.<sup>4</sup> Similarly to the US, increasing European immigration and industrialization "accompanied an insatiable hunger for Canadian lumber and the notion that its forests were endless continued well into the nineteenth century."<sup>5</sup> In part, it was this appetite for resources in relation to the perpetuation of industrialization that led to the westward expansion of British and American colonial interests. It was also this movement that ignited a sense of



ce	threat for the conservation movement. As Gene
nd	Namkoong explains, the "common enemy was
ne	the quickening pace of destructive logging that
ary	had decimated the forests of the eastern United
ng	States [and Canada] and threatened the rest of
ed	the country." <sup>6</sup>
О,	

- Notes:
- 1. In the epic of Gilgamesh, Gilgamesh, king of Uruk, represents man as separate from the world outside of civilization which is symbolized in his part-animal companion, Enkidu.
- 2. Gene Namkoong, The Misunderstood Forest (Victoria: BC Ministry of Forests and Range, 2008), 99.
- 3. Ibid., 57.
- 4. Susan Herrington, "The Forests of Canada: Seeing the Forests for the Trees," in Managing the Unknown: Essays on Environmental Ignorance, ed. Frank Uekötter and Uwe Lübken (Oxford: Berghahn Books, 2014), 55.
- 5. lbid., 55.
- 6. Namkoong, 54.

Fig. 4: History of Forest Narratives (Udal, 2019)

# A History

\*Redacted for digital publication due to copyright. Contact author for full print version

Fig 5: View of Tutocanula Pass Yosemite California, Carleton Watkins (https://commons.wikimedia.org/, n.d.)

of Conservation

Despite its different environmental context, response.<sup>1</sup> When translated to the North the history of the preservation movement American context, alongside ideas of in North America was born out of the manifest destiny, rugged individualism, philosophical lineage of romanticism in and the dramatic landscape, the Europe. Cartesian ways of understanding philosophy of Transcendentalism, the world had been a central backbone to expressed in the writings of Ralph Waldo the modern era in Europe, categorizing, Emerson and Henry Thoreau, took rationalizing and separating humans as European Romanticism and gave it a particularly American angle.<sup>2</sup> It was both an extra-natural entity in the world. It was this framework that allowed for much of the intellectual context of North America the scientific knowledge that we attribute as well as the physical landscape itself with the modern era today. However, the that worked to formulate what would massive societal and environmental shift become a uniquely American outlook that it incurred, particularly as a result towards conservation. of urbanization and industrialization, presented pause for some European As Gene Namkoong, former head of thinkers and artists who found distaste the Department of Forest Sciences at the University of British Columbia (UBC) in this changing world and lamented a pre-modern past. Romantic poets, explains in his book, The Misunderstood Forest, it was this context that allowed artists and writers portrayed a vision of nature they termed *the sublime*, whereby for the establishment of what would emotional responses to the power and become the segregated land-use norm grandeur of the world outside urban or that continues today. Both contemporary pastoral life was meant to strike its viewer resource extraction and preservation with a considerable emotional-spiritual practices were built from a belief that the natural environment was God's gift to man with the understanding that humans were a separate and distinct entity.<sup>3</sup> A shared concern for rapid deforestation prompted two conservationist camps to emerge, one headed by John Muir, father of the American National Parks movement and Founder of the Sierra Club, and the other by Gifford Pinchot, an advocate for forest management practices and eventual chief of the United States Forest Service. While Muir's vision for a stable American landscape looked to what he saw as a past golden era, Pinchot's looked to a future of sustained use.<sup>4</sup> These two ideas about nature – one revered for its spiritual value to humans, the other for its economic value – has persisted. The resource argument has largely won out, however not without challenge and some accommodations made to those seeking conservation for spiritual means. Despite their shared history of conservation, this leaves us in the current situation that we are in today. As Namkoong, explains, "The hope in the United States then, as it is in British Columbia today, was that segregated land use could achieve a national peace by allowing each philosophy its own piece of land."<sup>5</sup> Despite this, conflict has ensued between the two camps alongside multiple other voices and interests. He goes on to explain, "unfortunately, the human conflicts are based on deeply held but rarely examined beliefs and thus are not subject to easy solutions."<sup>6</sup>

The field of conservation has a unique opportunity to highlight this dichotomy and present different narratives about human interaction with the forest landscape on Vancouver Island. The following section looks at the concept of cultural landscapes within the field of

\*Redacted for digital publication due to copyright. Contact author for full print version

# conservation as a framework, albeit one in need of critique, to address this issue. in need of critique, to address this issue. Notes: Donald Kagan, Steven Ozment and Frank M. Turner, The Western Heritage, ninth edition (Upper Saddle River, NJ: Pearson Prentice Hall, 2007), 649. Namkoong, 74-77. Ibid. 68. Ibid., 65. Ibid., 65.

### \*Redacted for digital publication due to copyright. Contact author for full print version

### USE IN CONTEMPORARY CONSERVATION PRACTICE

Cultural Landscapes The term "cultural landscape" refers to the interaction between groups of humans and their environments. This interaction is understood as not only physical, but also as psychological and symbolic whereby meaning and association equally indicates relationships between humans and the landscape.<sup>1</sup> The term is generally attributed to human geographer Carl O. Sauer from the University of Berkeley, although it was first introduced by German geographer Otto Schülter and expanded upon in the cultural relativist work of anthropologist Franz Boas.<sup>2</sup> In his 1925 article "The Morphology of Landscapes" Sauer's definition reads: "The cultural landscape is fashioned from a natural landscape by a culture group. Culture is the agent, the natural area is the medium. The cultural within their breadth of practice. landscape is the result."<sup>3</sup> Since then, the term has widely been adopted by This shift was born out of the intention academics and practitioners who seek of the 1982 Florence Charter on Historic to understand the relationship between Gardens to include historic gardens as human cultures and the landscapes they monuments to be conserved. Within operate within. Specifically, the cultural a few years, larger rural areas, such as conservation community in much of the the Lake District in the United Kingdom, Western world has taken on the term began to be proposed as World Heritage as its primary language to identify and Sites.<sup>4</sup> Then, in 1992 the World Heritage discuss landscapes deemed historically Organization officially adopted the term and culturally significant. This adoption becoming the "first international legal began in the early 1980s, coinciding instrument to recognize and protect with a movement within international cultural landscapes."<sup>5</sup> This movement to conservation organizations such as the include landscapes within the tradition of United Nations Educational, Scientific and architectural and monument conservation Cultural Organization (UNESCO) and the highlights a shift in conservation International Council on Monuments and philosophy away from the consideration of Sites (ICOMOS) to include landscapes singular objects towards larger and more

"The cultural landscape is fashioned from a natural landscape by a culture group. Culture is the agent, the natural area is the medium. The cultural landscape is the result."

Carl O. Sauer, "The Morphology of Landscapes," 1925.

dynamic spaces. This effectively opened the door for a much more complex reading of heritage and culture within the realm of conservation, and blurred the lines between nature and culture, humans and non-humans.

The inclusion of cultural landscapes as heritage sites has revealed issues around classification and designation. The World Heritage Committee describes three categories of cultural landscapes: designed, evolved, and associative. While designed and evolved cultural landscapes exist at the intersection between individual or groups of humans and their physical transformation of the landscape, those categorized as associative may have little to no evidence of material intervention.<sup>6</sup> Their heritage value therefore exists in the meaning that is ascribed to those landscapes and the elements within them by a particular cultural group. As outlined by Australia ICOMOS at the Asia-Pacific Regional Workshop on Associative Cultural Landscapes in 1995, "these may be physical entities or mental images embedded in a people's spirituality, cultural tradition and practice. The attributes of associative cultural landscapes include the intangible, such as the acoustic, the kinetic and the olfactory, as well as the visual."7

In Canada, cultural landscapes are used as the primary unit of heritage landscape conservation. According to the Standards and Guidelines for the Conservation of Historic Places in Canada, the primary document used to assess heritage sites and their value, cultural landscapes are defined as "any geographical area that has been modified, influenced or given special cultural meaning by people, and that has been formally recognized for its heritage value."8 It supplies its user with eleven subsections to evaluate a cultural landscape including: evidence of land use, evidence of traditional practices, land patterns, spatial organization, visual relationships, circulation, ecological features, vegetation, land forms, water features, and built features.<sup>9</sup> These categories provide the framework for investigating a landscape's heritage value and effectively guide the process of inquiry for Canadian heritage practitioners operating in landscapes.

While the adoption of cultural landscape ideas in Canada are part of an international movement for cultural preservation to include natural systems, historically, heritage conservation has largely been used to communicate anthropocentric historical narratives – primarily that of a dominant ruling group – or to protect areas for their economic benefit. The setting aside of land for ecological preservation has been a component of conservation since the impetus of the National Parks movement in the early 1900s, however this was, and largely has continued to be, built on an assumption of nature as an entity separate or outside of human culture. The concept of cultural landscapes is a shift towards a more integrated recognition of human's place within nature and, in perhaps its most effective form, helps to highlight the assumptions that underly our current perspective of alienation. Admittedly, the result is often the opposite whereby in its most nefarious form, conservation works to normalize and reinforce existing hegemonic power structures without question.

- al Notes:
- Ken Taylor, Archer St Clair and Nora J. Mitchell, ed., Conserving Cultural Landscapes: Challenges and New Directions (New York: Routledge, 2015), 2.
- ly 2. Taylor, 3.
- 3. Carl Sauer, "The Morphology of Landscapes," in Land and Life: Selections from the Writings of Carl Otwin Sauer, ed. J. Leighly (Berkeley: University of California Press, 1964), 315.
- 4. Julian Smith, "Landscape and Cultural Landscape",
   (Queenston, ON: Willowbank Centre for Cultural Landscape)
- \*Cultural Landscapes," The World Heritage Committee, https://whc.unesco.org/en/culturallandscape/#1 (accessed December 9, 2019).
- 6. "Operational Guidelines for the Implementation of the World Heritage Convention," Annex 3, UNESCO (2019), 83.
- nt 7. The Asia-Pacific Regional Workshop on Associative Cultural Landscapes: A report by Australia ICOMOS to the World Heritage Committee, April 27-29 1995, https://whc.unesco.org/ archive/cullan95.htm (accessed December 9, 2019).
- 8. Canada's Historic Places, *Standards and Guidelines for the* Conservation of Historic Places in Canada: A Federal, Provincial and Territorial Collaboration, Second Edition (2010), 49.
- 9. Ibid., 50.

# Cultural Landscapes:

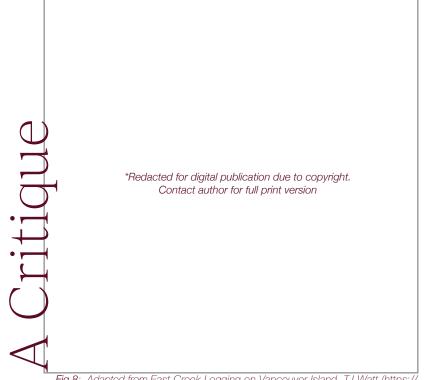


Fig 8: Adapted from East Creek Logging on Vancouver Island, TJ Watt (https:// sierraclub.bc.ca, 2016) It is my argument that despite having a long comment on the relationship between and problematic history, conservation is a buildings and their environments, tool that can allow us to see our societal landscape architects should use the values, beliefs and mores as well as the framework of conservation, a field in which lineage of their conception. This requires they already operate and is a central force a radical self-reflexivity within the practice in their legitimacy as a profession, to of conservation and a commitment to make visible the complex relationships highlighting narratives, systems and that define cultural landscapes. structures that are currently supressed. The cultural landscape approach The following critiques are meant to both provides a useful framework for doing this challenge and contribute to the existing as it has the potential to highlight flows guidelines for the historic preservation of and intricacies at a landscape scale and places in Canada and provide landscape creates room for more extensive readings architects with an expanded toolset to of meaning to be accessed, particularly comment on the cultural landscape they because of its inclusion of associative are operating within. values within its breadth. In order to perform conservation in this way, the practice needs to be expanded beyond the realm of policy and guidelines and find form in the creative expression of landscape architecture. Similarly to the way in which architectural preservationists like Jorge Otero-Pailos are using the preservation practice and techniques to

Rather than looking at cultural landscapes as sites where culture is the agent and nature is the medium, the non-human components of the environment should be understood as agents that similarly work to impact and shape human culture. The site specificity of a cultural landscape is as much the product of the natural condition within which a culture exists as is the human culture itself.

The history and legacy of conservation should be a central theme made visible in contemporary conservation projects. Conservation is only useful as social commentary if it is self-reflexive.

### 3

Sensorial relationships beyond the visible should be included as character defining elements. Sounds (such as the presence of birdsongs or the sound of passing cars), scents, tastes, textures, as well as the variety of other ways humans navigate their environment should be looked to as elements intrinsic to a cultural landscape. How do those elements shape human relationships to the landscape? How do those sensations bring us into contact with the beings, processes and practices intrinsic to the landscape?

Vegetation and other non-human organisms should be considered stakeholders and looked at as a community rather than individual objects on the site. Rather than seeing these beings and processes simply as either 'Vegetation' or 'Ecological Features,' the entirety of the ecological system - the interactions between various actors - needs to be considered as that which gives the cultural landscape a particular character. For instance, in a forest, the soils, fungal networks and animals in that system are as intrinsic to the existence and feeling of that place as the dominant tree species.

Ecological and cultural conservation must be practiced in tandem. Environmental conservancy must recognize the cultural context to its implementation, while cultural heritage must understand how ecologies are intrinsic to the culture of place.

The small, fragmented areas that we conserve don't begin to cover the expansive and multiple landscapes that support particular ecosystems and the species within them - therefore, conservation is not expansive enough. It exists on the periphery of our attention, directed only in places of small concession to larger processes of extraction. It becomes memory, not practice; past, not present. Cultural landscape conservation should be considered and implemented at multiple scales that extend beyond a singular site.

### Cultural landscape conservation should be considerate of past as well as current ascribed meanings across various stakeholder groups. Although multiple readings can be both complicated and sites of tension, it is this complexity that presents opportunities for dialogue. Multiple narratives and values must be simultaneously represented and navigated.

()Multiple readings of a cultural landscape should be represented. Whether it is perceived of as a single cultural landscape with multiple interpretations or several overlapping cultural landscapes with a common environment, this spectrum must be captured and discussed.

### 8

The critiques above are based on analysis of the aforementioned 'Cultural Landscapes' section of the Standards and Guidelines for the Conservation of Historic Places in Canada. With the intention to apply a cultural landscape approach to the issue of conservation and forestry in British Columbia, they are meant to provide further guidelines for landscape architectural designs to address the issue. In addition to expanding the ways in which cultural landscapes should be analyzed, these critiques also intend to expand the understanding of who they are for and how projects can speak to the greater issues that the landscape exists within, shapes, and is shaped by. They are also intended to widen the scope of conservation landscape architecture practice to include creative participation and design.

32

Fig 9: Adapted from East Creek Logging on Vancouver Island, TJ Watt (https:// sierraclub.bc.ca, 2016)

\*Redacted for digital publication due to copyright. Contact author for full print version



34

### BETWEEN HOME + HOST, ALISON HIRSCH AND AROUSSIAK GABIELLIAN STUDIO AT THE UNIVERSITY OF TORONTO, DANIELS FACULTY OF ARCHITECTURE, LANDSCAPE + DESIGN 2013.

\*Redacted for digital publication due to copyright. Contact author for full print version

Fig 11: Meter, Jasmeen Kaur Bains (Alison B. Hirsch & Aroussiak Gabrielian, 2016)

In 2013, Alison Hirsch and Aroussiak Gabiellian, co-owners of Foreground Design Agency, taught a studio titled Grounding Diaspora at the University of Toronto's Daniels Faculty of Architecture, Landscape and Design School. The studio asked students to examine Jamaica Bay in Queen's, New York as a site of tension between the National Parks Service.

who's mandate is to protect the Bay's ecological integrity, and local Guyanese residents who use the bay as a space for cultural ritual and expression. While the salt marsh of the site has been subject to significant ecological challenges due to its urban context, the Indo-Caribbean practices of water rituals and the adoption of the bay as a "metaphorical Ganges"

\*Redacted for digital publication due to copyright. Contact author for full print version

Fig 12: Tactical Deployments, Jasmeen Kaur Bains (Alison B. Hirsch & Aroussiak Gabrielian, 2016)



Fig 13: Meter, Benjamin Matthews (Alison B. Hirsch & Aroussiak Gabrielian, 2016)

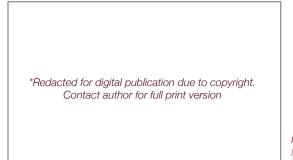


Fig 14: Structural components of the hybrid system, Benjamin Matthews (Alison B. Hirsch & Aroussiak Gabrielian, 2016)

have become a rubbing point between the seemingly opposing agendas of ecological and cultural conservation. The goal of the studio was to gain a deeper understanding of "diasporic heritage and [question] the relationship of place and cultural identity in a world of mass ethnic transplantation."1

Using anthropologist Clifford Geertz'

method of "thick description" of the social and symbolic interactions of a site, the studio presents a method for landscape architects to embrace the multiplicity and heterogeneity of cultural landscapes. This project situates itself to question traditional methods of both heritage and ecological conservation by highlighting that cultural landscapes involve more than simply one community's interpretation and use caught in a specific temporal and spatial location. As Hirsch explains,

This site and its conflicting values is perhaps at odds I would also be curious to understand with the objectives of traditional heritage conservation, how the Guyanese culture that they since it is the contested nature of the landscape that are primarily addressing interacts with makes it unique and worth studying as a place for other cultural agents in the area. In the potential interpretive intervention.<sup>2</sup> diasporic situation that is the nature of Not only is the methodology and framing a globalized world, how can landscape of this studio a useful precedent for my architecture work to address the points of own project which seeks to understand interaction between multiple worldviews the complexity and tension between and relationships to landscape? Where ecological and cultural conservation, its are the rubbing points? Where do they flow together? drawing outcomes provide necessary

insight into the potential of these questions to materialize in designs. Student's research and proposals show an engagement with culture and translation of it into a designed landscape that is clear.

While the methodology and research exercises of this studio allowed for a rich interaction with the site and topic, there is an overall lack of engagement with the National Park system as a cultural body. of this topic as a framework for design. Although both of the above proposals show an understanding of the translation of cultural beliefs and practice into the built environment, I wonder how they would be different if they were offered Notes: as opportunities for the National Park 1. Alison B. Hirsch, "Cultural practice and place conflict: Negotiating a contested landscape along Jamaica Bay," in Routledge to engage in cultural conservation in Companion to Global Heritage Conservation, ed. Vinayak Bharne and Trudi Sandmeier (London: Rougtledge, 2019), 265. addition to its ecological interests. From

As a precedent, this studio and its resultant research exemplifies how complex cultural landscapes can be addressed and designed for. While more components and stakeholders within the cultural landscape of Jamaica Bay would have better exemplified its current condition, the positioning of the studio within the conflict of ecological preservation and cultural practice provides a good example

2. Hirsch, 268.

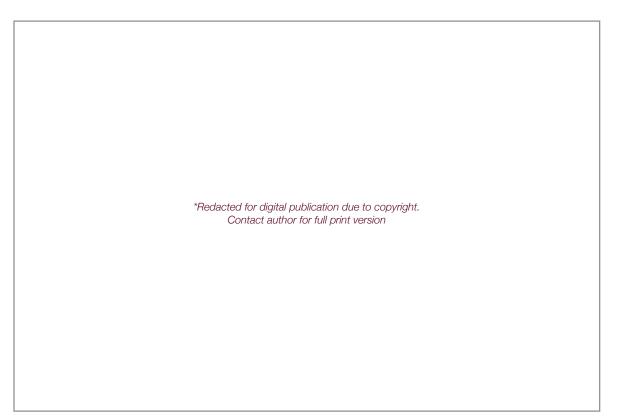
### THE ETHICS OF DUST JORGE OTERO-PAILOS

\*Redacted for digital publication due to copyright. Contact author for full print version

Fig 15: The Ethics of Dust The Ethics of Dust displayed in Westminster Hall in London (Studio Otero-Pailos, 2016)

The series of work titled 'The Ethics of Dust' by Jorge Otero-Pailos has engaged with seven historic buildings between 2008 and 2016 to capture and present their dust and surface pollution. Using the cutting-edge preservationist method of latex as a means of cleaning building surfaces, Otero-Pailos demonstrates how, by presenting these sheets as an object in and of themselves, new narratives about architecture and preservation practice itself can be expressed. The latex sheets were generally displayed within the building itself, and in various cases were part of art exhibitions such as Manifesta and the Venice Biennale. The buildings that have been impressed and displayed include Mussolini's Alumix Factory in Bolzano (1937), The Doge's Palace in Venice (15th

Ted Shelton and Tricia Struth, "Architecture and Human Attachment: An Interview with Jorge Otero-Pailos," in *Journal of Architectural Education* 72, no.2 (2018), 197



40

Fig 16: Jorge Otero-Pailos removing latex at the Doge's Palace in Venice, Italy (Studio Otero-Pailos, 2016)

C.), ancient Roman silver mines in Carthago Nova, the plaster cast of Trajan's Column at the Victoria Albert Museum in London (1864), the Maison de Famille Louis Vuitton in Paris (19th century), the Old United States Mint in San Francisco (1854), and Westminster Hall in London (1097).

By highlighting what John Ruskin described as a building's "time stain," Otero-Pailos simultaneously comments on the relationship between architecture and its environment and the act of preservation. Since the industrial revolution, pollution has had an incredible impact on the built environment and the perceived need for its removal has been a

justification for the work of preservationists. The suspension of this pollution in the various Ethics of Dust iterations not only helps us to perceive this impact, but it also beings to light the class, gender and other sociological issues entrenched in preservation.

As a precedent, I am interested in how The Ethics of Dust projects have used the medium of architectural conservation as a means to be self-reflexive as a discipline. How might this principle be applied in the practice of landscape conservation? What methods and practices can be used to communicate new narratives about cultural landscapes and the role of conservationists



within them? How can the imprint of livin entities and stakeholders become part of a larger message of conservation?

While the project's latex impressions work to The Ethics of Dust project provides a capture the quality and changes of a building useful precedent for engaging with the material over time, they do not comment field of conservation. The intrinsic nature on the current uses and processes within of the project's medium and methodology the architecture today. Further, displaying within preservation practice give clues the pieces within the buildings themselves to some potential starting points for this works to perpetuate an economic and class kind of commentary within the field of divide that is so pervasive in architectural landscape conservation and highlight the preservation, allowing only those with access power of simplicity in material expression to to understand the work's commentary. How communicate an idea. are similar challenges present in landscape conservation projects? How does a removal

Fig 17: The Ethics of Dust iteration at the Doge's Palace in Venice, Italy. (Studio Otero-Pailos, 2016)

ng	of exclusivity allow for a greater conversation
а	about the ethics of conservation?

### THE BIOLOGICAL DYNAMICS OF FOREST FRAGMENTS PROJECT THE SMITHSONIAN INSTITUTE AND THE BRAZILIAN

INSTITUTE FOR RESEARCH IN THE AMAZON, BRAZIL

\*Redacted for digital publication due to copyright. Contact author for full print version

Fig 18: Aerial Image from the Forest Fragments Project, Richard Bierregaard (https://news.mongabay. com/2011/08/lessons-from-the-worlds-longest-study-of-rainforest-fragments, n.d/

The Biological Dynamics of Forest Fragments Project (BDFFP) is an ecological experiment initiated in 1979 by tropical and conservation biologist Thomas Lovejoy. The project created various one, ten, and one hundred hectare forest fragments within the Amazon rainforest in Brazil to investigate the implications of size and number of landscape parcels in conserving biodiversity in fragmented habitats. The project has resulted in over

600 publications and dissertations, playing a significant role in the ongoing Single Large or Several Small (SLOSS) debate in the field of conservation biology. The project's primary goals were: What effect does fragment size have on the rate of species extinction? Would the local extinction rate eventually slow and halt, equalizing the number of species? How do species interactions and demography change as a result of reduced habitat? The

project spans approximately 1000km<sup>2</sup>, has a temporally. total area of 3,288 hectares, and has been in operation for over 30 years.

As a precedent, I am interested in this project for its ability to use landscape as a The project is an interesting precedent as tool for ongoing analysis and understanding. an experiment in landscape ecology and Though located within the field of science, its conservation. Its spatial and temporal span experimental quality suggests how landscape is unique as a project to capture data and design might be used as both a space for understand ecological population dynamics. occupation as well as one for knowledge This is an example of looking at how multiple creation. The fragmentation pattern being sites at multiple scales influence and studied is strikingly similar to the spatial interact with one another. As an approach organization resulting from forestry practices to conservation, this provides a scale that in BC. How might spaces created by logging is representative of the ways in which flows be understood as a network with ecological, as well as cultural implications? How might work across a landscape, both culturally and ecologically, where impacts span and that understanding work to create more viable move between spaces both spatially and forms of conservation practice?

\*Redacted for digital publication due to copyright. Contact author for full print version

Fig 19: Biological Dynamics of Forest Fragments Diagram (W.F. Lawrence et al., 2011)

### SITE DESCRIPTION

Vancouver Island

Vancouver Island is a 31,285 km<sup>2</sup> area located off the west coast of British Columbia, Canada. It is the ancestral territory of the The Kwakwaka'wakw, The Nuu-chah-nulth, Ditidaht and Coast Salish peoples who have been present in the area for time immemorial. The rich diversity of life and landscape types on the Island have created a heterogenous cultural landscape among its Indigenous inhabitants with resources being accessed and used in a variety of ways to support human populations. Since European contact in the late 18th century, these resources have continued to be sites of cultural landscape negotiation and have undergone heavy extraction corresponding with increasing settlement and the province's confederation with Canada. The island's already complex cultural landscape in the pre-colonial period

has been altogether more complicated by allow for Douglas fir (Pseudotsuga meziesii) settlement from European, Asian, and other to be the dominant species. The inherent ability of the trees in these forests to grow to cultural groups. massive proportions, the long periods of time Although Vancouver Island hosts a variety between disturbances, and their relatively of landscape types, including urban and slow decomposition rate allow for them to suburban areas, like the larger Pacific accumulate tremendous biomass and be Northwest Context that it is situated within, it among some of the largest ecosystems on is most widely known for its forests dominated the planet.<sup>2</sup> In areas that have not been by coniferous species. These temperate subject to logging and where old growth rainforests are characterized by complex conditions exist, it is not unusual for trees canopy layers, variance in tree stand age, the between 600 and 1000 years to be growing.<sup>3</sup> presence of epiphytes and a dense, shrubby Forests of this type have evolved to support understory.<sup>1</sup> While the majority of Vancouver a wide range of organisms, many of which Island's forests are wet and dominated by have sadly been extirpated or are currently western hemlock (Tsuga heterophylla), forests endangered due to extensive logging in the in the southeastern portion are drier due to the last 150 years.

Island's rain shadow effect and therefore have historically been prone to forest fires which

### Area: 31,285 km2 Population: 799,400

# Vancouver Island

\*Redacted for digital publication due to copyright. Contact author for full print version

<u>ogrammat</u>

# Issues

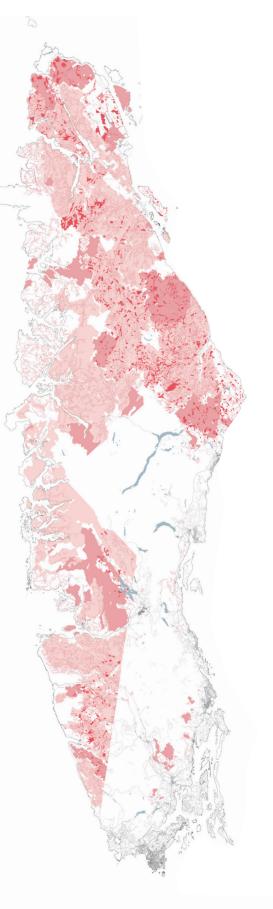
Fig 20: Blockade: Protesters from Clayoquot 'peace camp' put up a daily blockade to slow logging trucks. More than 70 have been arrested, Rick Eglinton (Toronto

Due to their economic, ecological and belonging to the Crown, the BC provincial cultural value, Vancouver Island's forests and government has been selling harvesting logging practice has been a potent site of licences to private companies since 1905 which, in addition to "stumpage fees" - a tax cultural landscape negotiation, particularly in light of the colonial conservation narrative introduced in 1912 paid to the government for described earlier. Multiple stakeholders exist every tree felled – has been a primary source and overlap within this and their varying of the province's revenue ever since.<sup>5</sup> This interests and beliefs likewise intersect. The explosion of industry, facilitated by steady historic relationship between logging and progress in logging technology, has resulted conservation has continually evolved, adding in a rapid loss of the island's old growth many layers to the cultural landscape. forests and by 1990, half had been logged.<sup>6</sup> Efforts were made by the BC government to Logging slow the rate of logging throughout the 20th century including the introduction of an 'annual allowable cut,' which was meant to serve as Early European resource exploitation was primarily focused on furs and pelts, but a regulatory measure against overharvest.7 later coal mining and forestry came to be Further, the Forest Practices Code states the primary means by which the landscape that all tenure holders are required to submit supported its inhabitants. Beginning in large a Forest Stewardship Plan which includes part to support the growth of gold and coal objectives for old-growth protection. Although towns in BC, logging began as a pursuit in this has led to the mapping and establishment BC with what seemed like an infinite supply of some Old Growth Management Areas of wood resources in its forests.<sup>4</sup> By forcibly (OGMA's), those considered legally binding removing Indigenous people from their land account for only 30% of the total area.8 onto reserves and claiming their land as

Despite these measures, logging of old

growth forest on Vancouver Island has continued, including in the Nahmint Valley in the fall of 2019. The Ancient Forest Alliance, a non-profit organization dedicated to forest preservation, estimates that only 9% of high productivity, valley bottom old growth forests remain today.<sup>9</sup>

Though logging practice continues, the secondary industry sector (including milling and trucking) have faced significant decline in the last 20 years. Timber companies are currently able to get better prices for their products overseas leaving a gap in the creation of value-added products locally. While some blame the BC government's strict environmental regulations for the loss of local industry, others believe the problem lies in the allowance of raw log shipments. In any case, workers in industry towns throughout the province are unhappy with the current situation. On September 26th, 2019, the same day as the climate action protests in Vancouver, hundreds of logging trucks drove into the city to protest the current state of BC's forestry industry.





### Preservation

In response to the logging that has occurred, the forests of Vancouver Island have been the subject of significant preservation efforts. Most notable among them is what has come

Island (Udal, 2020)

to be known as the 'War in the Woods' - a series of protests in the late 1980s and 1990s objecting to the logging of old growth forests in the Carmanah Valley and Clayquot Sound. Anti-logging activism of this era can be attributed to the environmental consciousness movement of the 1960s which, alongside a general wave of anti-establishmentarianism, objected to the ecological damage caused by modern technology and land use. The movement's nostalgia for a pre-modern peaceful relationship with the environment in many ways mimicked the language and ideas of its romanticist forebearers. For example, at the Carmanah protests, the camp located deep in the forest was dubbed 'Camp Heaven' while the one next to the logging road was labelled 'Camp Hell.'10 The protests, particularly Clayquot, received international media attention helping to increase the visibility of Vancouver Island on the global stage and worked to establish an image of a wilderness for the Island. Spatially this is communicated in the Island's parks such as Carmanah-Walbran Park, MacMillan Park, and Avatar Grove which are preserved areas of old growth forest. Increasingly, they have become a landscape typology of cultural and political significance, as well as primary destinations for tourists who want to experience this wild narrative of the coast. However, despite what is often seen as a win for conservationists, these are almost always exchanged for another nearby area to be logged.

\*Redacted for digital publication due to copyright. Contact author for full print version

### Indigenous Land Ownership

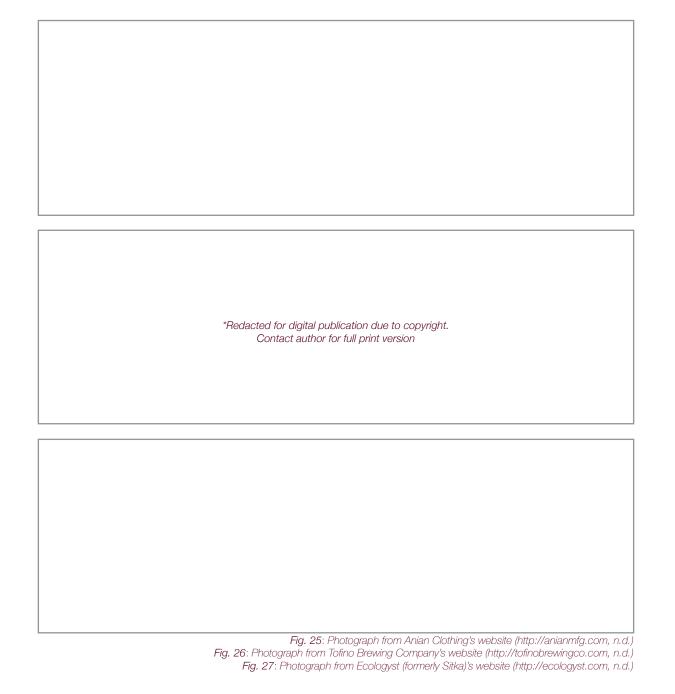
As previously mentioned, the history of logging and preservation has witnessed the removal and erasure of Indigenous people from the landscape. Only recently have movements been made to grant First Nations more control and access over forests on their traditional territories. In 1985 the Nuu-chah-nulth First Nation filed legal action against the BC government for logging on Meares Island resulting in the formation of the province's Ministry of Native Affairs.<sup>11</sup> Since then, individual Nations have continued to advocate for agency in the use and management and protection of forests. Various Nations in BC have established logging companies themselves and are owners of timber farm leases and mills. For instance, the Pacheedaht First Nation outside of Port Renfrew opened a sawmill in 2017 where wood is milled from from nearby tree farm license holdings, some of which is old growth, creating jobs for approximately 10 percent of their community.<sup>12</sup> While some environmentalists lament this decision of the Nation to perpetuate the logging of old growth forests and trees, the Pacheedaht claim to be considering the health and reclamation of these forests on much longer time scales than other logging companies, which is representative in the 2005 launch of their four-hundred year cedar conservation plan.<sup>13</sup>

### Ecology

Though forests may be understood as culturally important spaces for humans, they also hold value as habitat for the Island's non-human organisms. Many species have become threatened as a result of habitat loss caused by logging. On Vancouver Island, much of the conservation areas registered for habitat protection are specifically addressing the loss of the marbled murrelet, a native sea-bird that only nests in coastal old growth conditions and is red listed under the federal government's Species at Risk Act. Programs have also been in place to address the concern that logging has on value, using outdoor activity and the image of a particular lifestyle to espouse a vision of larger ecosystems, in particular the impact of stream disruption on salmon and the larger landscape. Local clothing, beer and other marine ecologies they play a central role businesses have used this image as a means within. At a similarly large scale, the work to market their products, often alongside narratives of sustainable products and even of UBC forest ecologist Suzanne Simard shows the vast communication and nutrient percentages of sales going towards local exchanges between plants within forests conservation efforts. Unlike their forebearers, through fungal networks called mycorrhiza, however, this culture is much less politically indicating further complexity within living forest active and uses the conservation aesthetic systems. <sup>14</sup> Legislation around biodiversity to communicate a commodifiable image. This and ecological impacts of development span has played a large role in an increased tourist multiple governmental scales and many noneconomy with visitors venturing to previously government organizations are doing work to remote locations like Sombrio Beach and address a multitude of issues. Port Renfrew. One sixty hectare area in Port Renfrew was estimated to receive 85% more Tourism and Recreation income as a tourist destination than if it were to be logged.<sup>15</sup>

In addition to parks and nature reserves, a new type of conservation culture has emerged, The relationship between this culture, one that is much less official, but has equally, forestry infrastructure and transportation is if not more, marketing and communication also notable. For those outside of industrial surrounding it. This culture takes its mark resource extraction, the ability to witness from its environmentalist predecessors, who and experience remote landscapes has also valued the landscape for its recreational been facilitated by car accessibility. The

\*Redacted for digital publication due to copyright. Contact author for full print version



creation of road networks within the network and relationships with landscape, these of logging infrastructure has presented multiple readings make for a complex cultural access to locations that would otherwise landscape surrounding forests. It is this very be inaccessible. This has been instrumental complexity, however, that creates a unique in allowing the public to see the impact of opportunity for landscape architects to industrial logging and can be understood as communicate and help express the political, an important component in the development social, cultural, ecological and economic of a conservationist consciousness.<sup>16</sup> forces that have and continue to shape this Such accessibility has also facilitated the relationship. recreational use of these landscapes for activities such as mountain biking, hiking and skiing as well as dirt biking and shooting. Certain types of vehicles, those able to Notes: traverse the rough terrain of logging roads, 1. Jim Pojar and Andy Mackinnon, Plants of Coastal British have likewise also become tools as well as Columbia: Including Washington, Oregon and Alaska. (Vancouver: Lone Pine Publishing, 1994), 17. symbols for this cultural landscape interaction.

Conservation, particularly preservation, is a dominant narrative and way of perceiving the Vancouver Island landscape today. Logging and conservation culture reflect the resourcewilderness dichotomy that has become so intrinsic to colonial North American ways of imagining forests and resulted in significant tensions about their value and use. In the age of reconciliation, that agenda is at times both underscored and undermined by Indigenous claims to land rights, depending on the outlook and positioning of a particular Nation at any time. This will continue to play out in political arenas in light of BC's recent adoption of the United Nations Declaration of the Rights of Indigenous Peoples. Together and in conjunction with many other interactions

- - 2. Ibid., 15.
  - 3. Ibid., 16.
- 4. Harley Rustad, Big Lonely Doug: The Story of one of Canada's last great trees (Toronto: Anansi Press, 2018), 57-58.
- 5. Ibid, 58-61
- 6. Ibid, 82.
- 7. Ibid, 86-87.
- 8. Environmental Law Centre Society, "An Old Growth Protection Act for British Columbia," (Victoria, 2013), 4-5.
- 9. Ancient Forest Alliance website, https://www. ancientforestalliance.org/
- 10. Rustad, 93.
- 11. "Forestry and reconciliation: focus on BC," Indigenous Corporate Training Inc., https://www.ictinc.ca/blog/forestry-andreconciliation-focus-on-bc
- 12. Rustad, 227.
- 13. Ibid. 229.
- 14. Ibid, 76-88.
- 15. Ibid, 223.
- 16. Herrington, 60.

# Next Steps

### DESIGN INTERVENTIONS

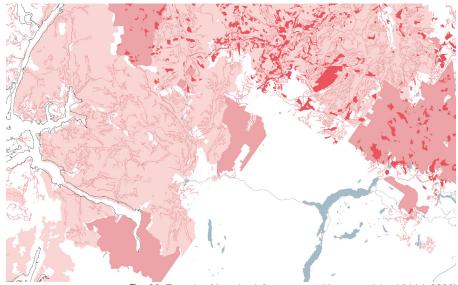


Fig. 28: Zoom in of Logging Infratructure on Vancouver Island (Udal, 2020)

The research for this project so far has developed as an exchange primarily as literature review on the larger issues of the history and philosophy of forests, conservation, logging and cultural landscapes and then looking at how those issues play out on Vancouver Island specifically. Admittedly, this is a large and complex story spanning political, economic, social, ecological and cultural spheres and in no way can it be fully

addressed though the course of this design research process. However, as I explained earlier, it is possible for the landscape architect to use their skills to highlight these complexities through visualization and propose interventions that promote dialogue and public engagement. Moving forward with this in mind, the next phase of the project will carry out in the following steps.

# Ex1: Primary Issue Selection

Identify and visualize the primary issues of conservation, forestry, and cultural communication on Vancouver Island.

## Ex2: Cataloguing

Inventory and catalogue the primary tools and processes within the issues identified. This will be expressed through line drawing and collage.

Using spatial data and information gathered from analysis, map the spatial implications and flows of the issues identified.

# Ex4: Site Selection & Analysis

Using the maps created, identify 3-5 sites of importance. Perform a site analysis review including producing scaled drawings in order to visualize necessary site information..

## Ex5: Groundwork & Synthesis

Prepare narratives that communicate how these sites fit into the larger issues. Using illustrations and collage, set the stage for community engagement and dialogue with public stakeholders.\*

Use the information gathered to propose 1-3 design interventions that address the issues identified. These will be communicated through models, perspectives and scaled drawings.

\*It is understood that within the scope of this project, community engagement is not possible without ethics

# Ex3: Mapping

### Ex6: Experiments

# January 6 - 15

Ex.1: Primary Issue Selection

### January 16 - 24

# January 25 - February 5

# February 6 - 19

Ex.4: Site Selection & Analysis

# February 20 - 28

Ex.5: Groundwork & Synthesis

# February 29 - March 31

# March 31 - April 10

Drawing, Presentation Preparation

Thesis Reviews

Ex.2: Cataloguing

Ex.3: Mapping

Ex.6: Experiments

# April 17 & 18

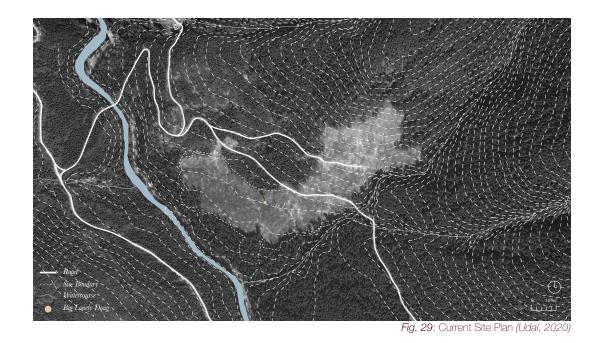
# End of April

Submit GP II Report

### Part Two: Site

# Site Introduction

### CUTBLOCK 7190, BIG LONELY DOUG \_\_HECTARES, ELEVATION,



Just outside of Port Renfrew on Vancouver Island's southern west coast sits cutblock 7190. On this site lives a 70m tall Douglas fir tree, which is touted Canada's second largest and was essentially all that was left following the site's clearcutting in 2011. The tree, estimated to be between 600 and 1000 years old, has recently become a kind of cultural phenomenon since it was 'discovered' and 'named' Big Lonely Doug by Victoria based conservation group, The Ancient Forest Alliance, shortly after the site was logged. In

2018, Canadian writer Harley Rustad added to Big Lonely Doug's noteriety in his wellrecieved book by the same name. In it, he describes the complex cultural, political and ecological context which has resulted in this unique and striking site condition.

The site is located on crown land and is accessed via long, bumpy logging roads which are currently maintained by Teal Jones, the Tree Farm License holders for the area. It is one of many cut block sites that pattern



\*Redacted for digital publication due to copyright. Contact author for full print version

Fig. 31: Big Lonely Doug, TJ Watt (https://www.ancientforestalliance.org/, n.d.)

Fig. 30: Cut Block 7190 Site Image (Udal, 2020)

the landscape, all of which are at various stages of re-growth. Some pieces of intact old growth do remain along the banks of the Gordon River due to riparian protection measures. Unfortunately, however, the old growth located just east of the site on Edinburg Mountain is not afforded the same protection and is scheduled to be logged in the next several years.

The juxtaposition of this humongous tree within its clear cut context is a striking example of the wilderness-resource dichotomy that was decribed in part one of this study. The site's current condition, largely defined by low vegetation and sloping topography, maintain dramatic views to the tree and make visible the impact and scale of industrial logging in this part of the world. The enormity of the stumps and slash that define the uneven ground condition further accentuate the dramatic implications of industrial forestry on the landscape.

As required by BC law, the site was re-planted with conifer saplings following its clearcutting in 2011. As is the case with any tree farm, these species will be tended to until they reach a marketable size (around 40-60 years) when they will once again be harvested and milled for timber. Throughout that process, the grasses, forbs, shrubs, and hardwood trees that currently take advantage of the site's open condition will either be selectively weeded out or left to be shaded by tightly planted growing conifers.

The spatial implications of this type of forestry, and the perspective created by the image made at the site is not only impactful, but also recall a particular representation of the BC landscape. In her work throughout the early 20th century, Victoria based artist Emily Carr described a forest landscape that was quickly transitioning to industrial forestry with sublime and nostalgic tones. This story told by Carr continues today in various representations of BC's west coast landscape working to continually shape a dominant narrative based on contrast and juxtaposition.

> \*Redacted for digital publication due to copyright. Contact author for full print version

Fig. 32: Big Lonely Doug, TJ Watt (https://www.ancientforestalliance.org/, n.d.)



1939 (Wikimedia Commons, n.d.)



Fig. 34: Context Map (Udal, 2020,

### Context

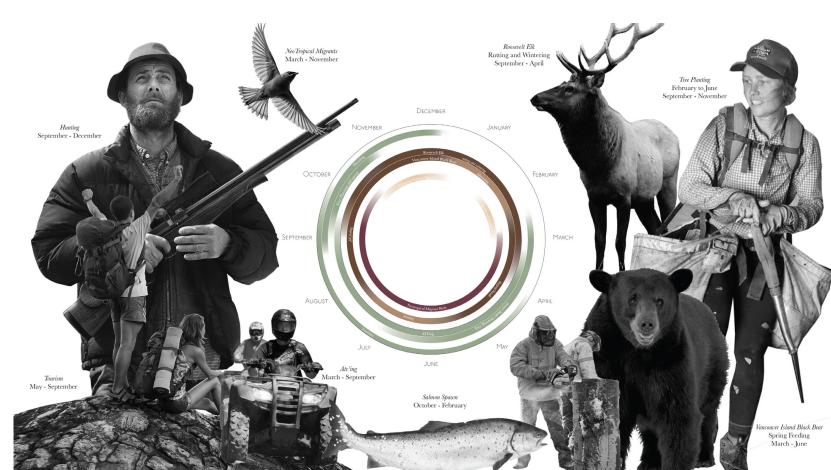
A primary reason for the tree gaining notoriety and becoming the icon that it is, is due to the site's proximity to Port Renfrew. The town's economy has been based around logging and fishing since European settlement in the 1800s, but more recently has began a transition to eco-tourism, largely due to the preservation and marketing of Avatar Grove, a section of old growth along the Gordon River, by the Ancient Forest Alliance. There are now a variety of big trees identified in the area and the town's accessibility from Victoria, its proximity to several parks and hiking trails, and the recent paving of the back road to Lake Cowichan has resulted in an economic shift in the area.

At the same time, forestry is still very much a living industry in the area. The Pacheedaht first nation, which historically were the owners and inhabitants of this area down to Jordan River, have recently moved closer towards revenue sharing agreements with the BC government for logging practice and have built their own mill to use and profit from. As previously mentioned, the old growth forest on Edinburg Mountain, just east of Big Lonely Doug, has not yet been logged but is scheduled to be in the next several years.

### Program

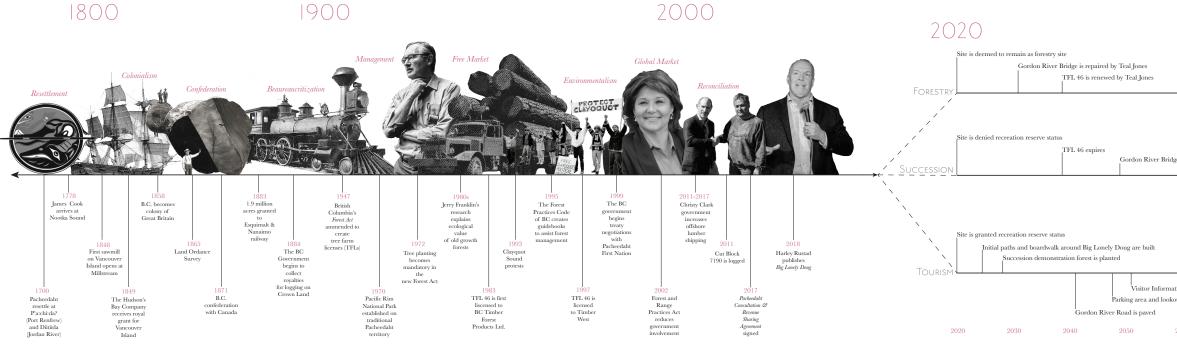
Looking to this context and the site's different stakeholders, we can start to see how values are reflected in how people use the site throughout the year. Seasonal programs range from tourist activities such as hiking and tree spotting, to hunting and atv'ing by local users, and tree planting by seasonal workers.

These activities are very much a result of the condition that is created in this wet, temperate rainforest landscape and the flora and fauna that similarly live and use the landscape seasonally for their needs and interests. For instance, Vancouver Island black bears feed



on berries and salmon in the summer and fall months, while hibernating in surrounding old growth during the winter. Neotropical migrant birds also make use of the landscape, feeding in open areas and mixed forests in the summer before heading south to warmer climates during the winter months.

Fig. 35: Current Site Program and Use (Udal, 2020)



66

### TIMELINE

logging practices taking place in BC's forests.

In this timeline, we can see that it is over the last 180 years where Vancouver Island has become a colony of Britain and industrial forestry has become such a predominant use of the landscape. With the transition of land into the hands of the crown, more and more regulations have been made to ensure a future yield, albeit one that is also reflective of the interests of British Columbia's public. For example, the increase of management research and implementation in the mid-1900s was largely a response to the environmental protests at Clayquot Sound a few years earlier that made headlines worldwide and shed light on the destructive Through this short history we see changes in attitudes towards management which are reflected in various political and ideological shifts through time. Consistently, we see a theme whereby conservation responses in various forms work to counter or tame logging interests.

In short, as values shift through time, so do responses to land management. This is an ongoing dialogue surrounding how we should manage our forests and who should be involved in that decision making, both of which are always a result of social movements and current cultural values.

### Three Futures

Coming from this context, we might imagine three distinct futures for our site, each representing a different value system in isolation.

Played out here are three imagined trajectories: Industrial forestry, ecological succession, and tourism. As an exercise looking at these futures distinctly, we begin to see how varying values have different spatial implications in the landscape and offer the landscape practitioner a tool to navigate these different values that are all part of this cultural landscape.

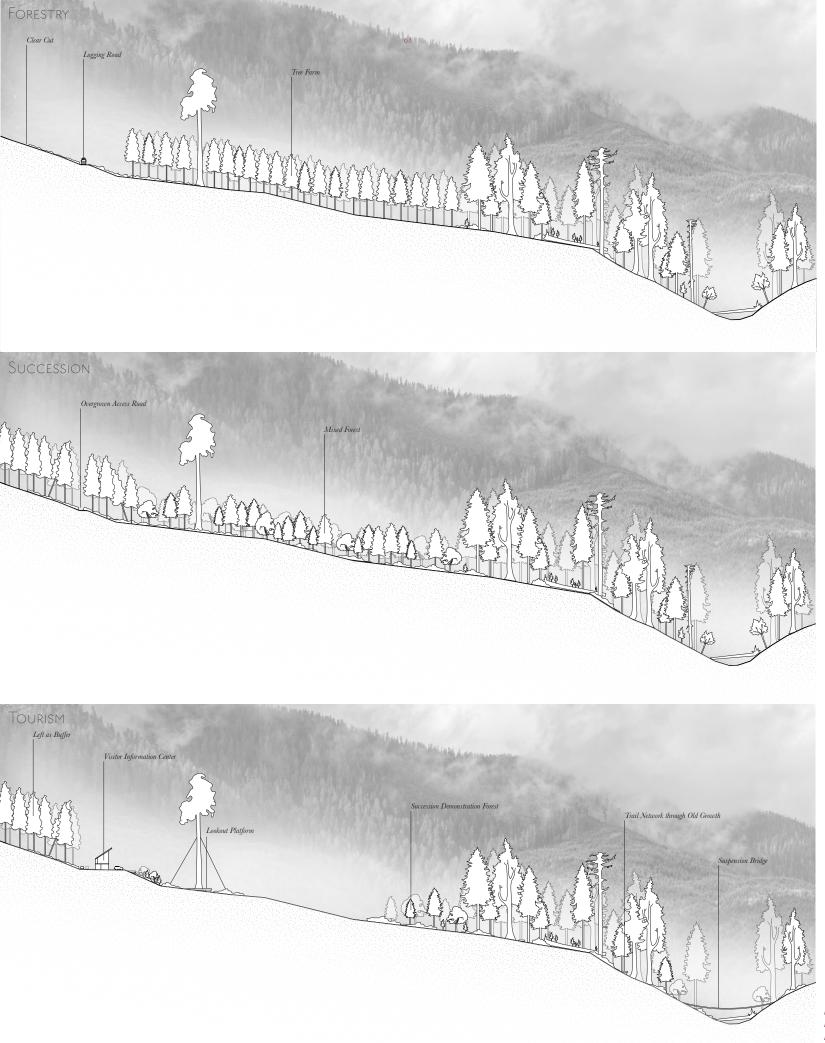
### 2100

Adjacent northern site is clear cut

Gordon River Bridge fails preventing access

	Pathways through adjacent northern cut block and old growth areas are established Gordon River Road is widened			Big Lonely Doug is secured with wires			
ion centre is built ut is built			Suspension	Bridge is built			
2060	2070	2080	2090	2100	2110	2120	2130

Fig. 36: A History and Future of Forest Values in British Columbia (Udal, 2020)



### Forestry

up close to the tree and views are kept open to the dramatic landscape. To ensure the In a future of logging, we imagine that the old surviving tree doesn't blow down in a sudden coastal windstorm, wires are used license for this plantation is renewed and that to secure it in place and keep Doug upright the site continues to be leased to a logging like a monument. Paths are built through the company for timber extraction. Within the site adjacent forests for hiking and recreation boundaries we see a homogenous forest regrow which is again logged between 50 along with a suspension bridge across the and 100 years starting the cycle over again. Gordon River to attach to the vast hiking network that has been developed throughout Succession the region.

For succession, the Forest License is From this exercise we see how different value systems applied to the landscape cancelled and without funding from forestry result in different spatial outcomes. While companies to maintain roads, the nearby cultural practices and ideas are shaping the bridge fails preventing access to the site. landscape, the landscape is also informing Grasses and forbs begin to move in and are quickly replaced by early seral species the values and interventions applied to it. which put nutrients back into the soil and In this way, we see how choices made result in different ecologies, cultures and relationships create patches of variability based on the topography and water flows on site. This to landscape, reflecting and reinforcing expressions of a cultural landscape. creates a stratified early seral forest and we see a rise in biodiversity following the initial fall from logging.

### Tourism

With tourism as the driving force, we see the development of the site shift towards the purpose of drawing visitors and creating the conditions for them to see the spectacle that is Big Lonely Doug. The road widens to accommodate cars and a lookout, parking lot, and visitor information centre are built. Pathways are also developed to bring users

Fig. 37: Forestry: A Future (Udal, 2020) Fig. 38: Succession: A Future (Udal, 2020) Fig. 39: Tourism: A Future (Udal, 2020)

Part Three: Design Concept

# Gardening as Cultural Landscape Conservation

Dennis Cronin was the forestry engineer closer to how humans actually relate to their that wrapped a green strip of flagging tape landscapes. We make choices based on our around Big Lonely Doug marked with 'Leave values and needs resulting in landscapes Tree'.1 As he walked through what would that in some cases are unique, sometimes become the surrounding cut block, he made are homogenous, but always are a result of decisions and choices about the future of the cultures informing and being informed by the site including where to put circulation routes landscape and vice versa. and which plants would be left based on topography, views, and an affinity for this tree.

In a way, we could argue that what Cronin was doing was a kind of gardening. Within this resource-wilderness dichotomy that defines how many of us think about Vancouver Island and perhaps our world more generally, perhaps the notion of gardening is





If all of our interactions within the landscape are seen as acts of gardening, how does this change our understanding of ourselves as gardeners?

Notes:

1. Harley Rustad, Big Lonely Doug: The Story of one of Canada's last great trees (Toronto: Anansi Press, 2018), 11.











Writer and gardener Gilles Clement writes: In the process and acts of gardening, "Instead of being limited to a small space that relationships with the landscape are created we control, from now on the garden is placed and developed. It isn't a stagnant project, within the limits of the biosphere. There we but rather one that is always changing, have a new enclosure."1 Though gardens developing and resulting in new cultural and have traditionally been defined by their environmental outcomes. boundaries or walls, as any gardener knows, outside influences such as transient seeds and climate are always intrinsic components to the practice. Clement's new boundary for the garden offers an expanded conceptual understanding of gardens and gardening.

From this perspective, we can also imagine the gardener moving beyond the capacity of the human. Fertilizing, seeding, pest control, weeding and pruning are all ways that animals 'garden', moving through spaces defined by their own agency and limitations. Notes: 1. Gilles Clement, '*The Planetary Garden' and Other Writings*. Translated by Sandra Morris (Philadelphia: University of

Pennsylvania Press, 2015), 80.

"Instead of being limited to a small space that we control, from now on the garden is placed within the limits of the biosphere. There we have a new enclosure."

Gilles Clement

75

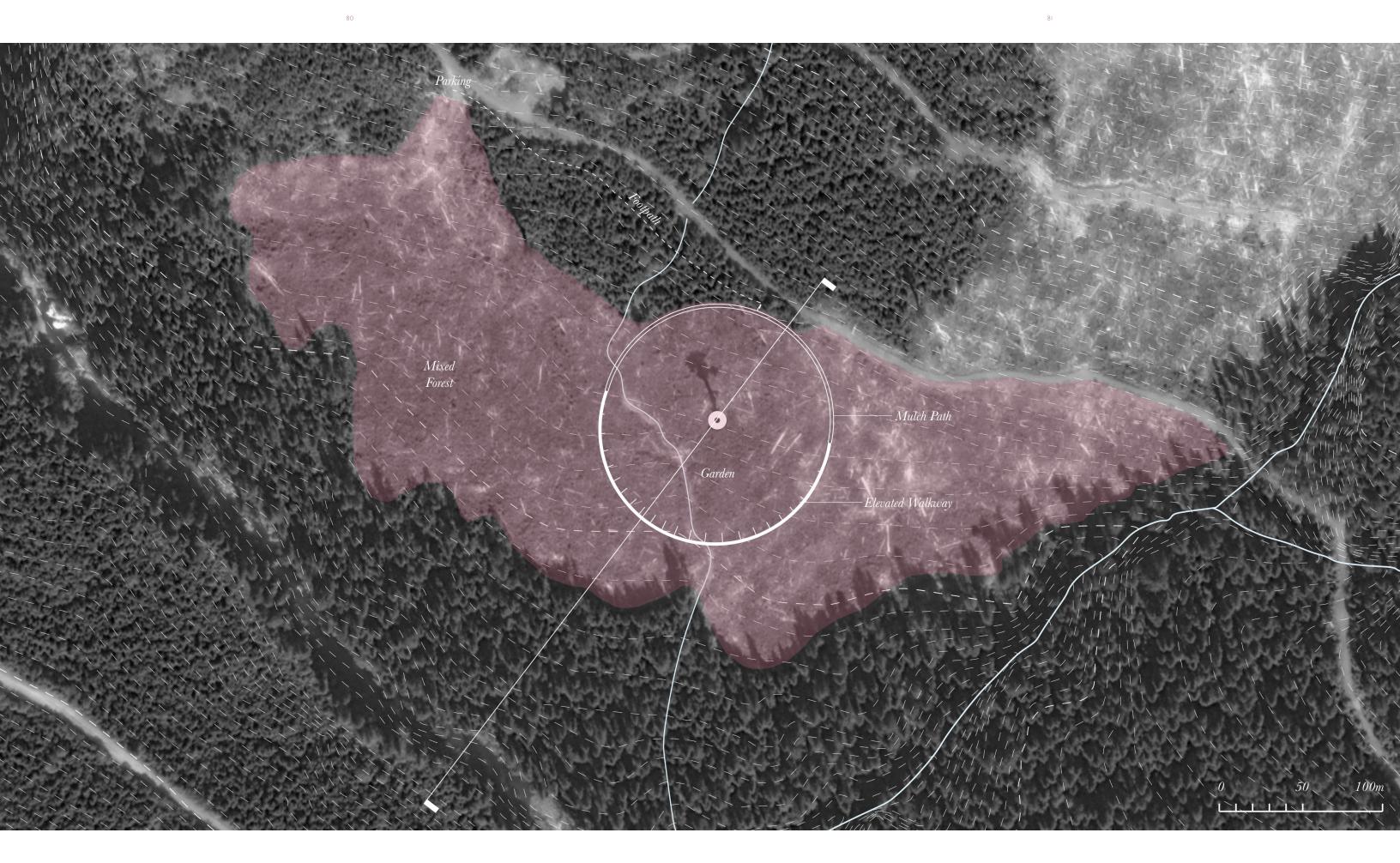
### Aesthetics At our site we see some central character Resource Program defining elements that give it value for both humans and non-humans. Views Timber Recreation Life Food Work Its aesthetic quality is defined by the striking views, the life within it, and the sensorial Senses Monument Livlihood experiences of being within the space. The

76

site also holds values as a resource, including
timber, food from the early seral plants,
and the monument of the tree as a cultural
resource. Finally, it has programmatic value
as a site for recreation, labour, and living off
the land.

77

Part Four: Design



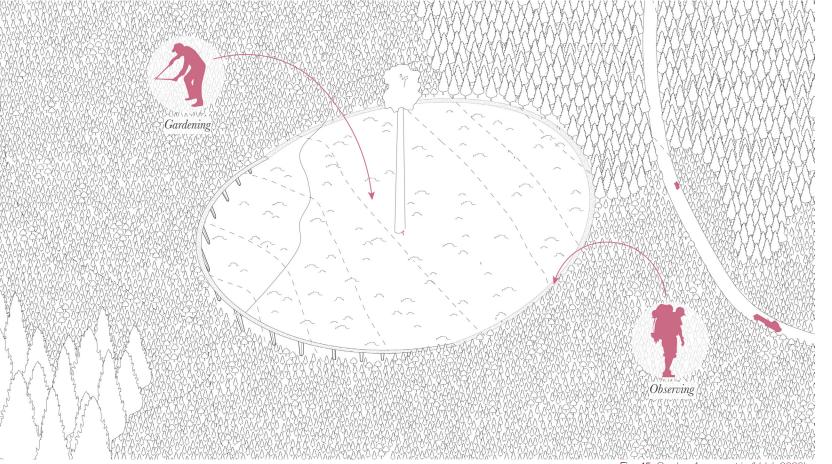


Fig. 45: Garden Axonometric (Udal, 2020)

Based on the aforementioned character around the 120m contour. Stepping off from defining elements, the following design the sloped ground level, the elevated walkway proposes a garden in the area surrounding lifts the user up onto a flat plane to enjoy a Big Lonely Doug. view and understanding of the site's geometry and spatial relationships. This experience The garden is outlined by a circular path that the forest edge.

provides a means to look back at the site, differentiates the garden from the surrounding rather than simply outwards. This perspective condition which will become a mixed forest will be most vivid when the surrounding forest when it grows back. The garden has a radius grows in and views outward are blocked by of 70m, mirroring the height of the tree, creating a 140m wide open and maintained While the path defining the garden's physical edge is primarily directed towards a program of experiencing and observing the scale of the tree and site, the inner garden is dedicated to the process of gardening. Members of the local community will be hired to perform the majority of the work, however this does not stop visitors from entering and interacting with the garden as they come. Entry and movement within the garden area is encouraged, but paths are not planned. Rather, circulation will be left to the gardeners, both hired and otherwise, to create and recreate as they see fit.

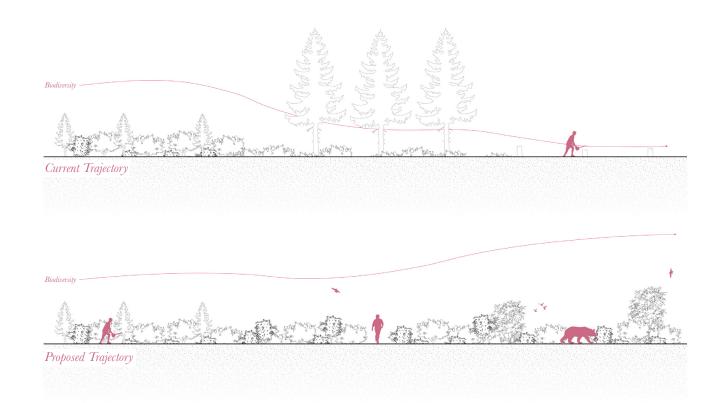
area which speaks to the value of Big Lonely Doug as a cultural resource and impetus for this space becoming culturally significant. When the tree eventually dies, this site's dimension allows for the tree to fall within the created space, albeit in an unknown direction, meaning that it can continue to be defined by the scale and dimension of the tree itself. Looking at the site from a three dimensional perspective, we see that half of the path is on the ground level while the other half takes the form of an elevated walkway, transitioning

### Site Design

### Maintenence

The garden itself will be maintained through the cutting of existing conifer saplings to ensure the continuance of the current lower growing, early seral condition that is largely defined by berry-producing shrubs including salmonberry, huckleberry and salal.

Rather than allowing the forest to become shaded through the growth of tightly planted conifers, the proposed condition will allow for the views that give the site much of its value to be maintained, while simultaneously creating a unique 'garden' landscape that is maintained for its open condition and fruiting capacity. This maintenance regime is meant to be a loose guideline rather than a strict regime, however in contrast to the ridged geometry of the path, the garden will largely maintain a naturalistic quality.

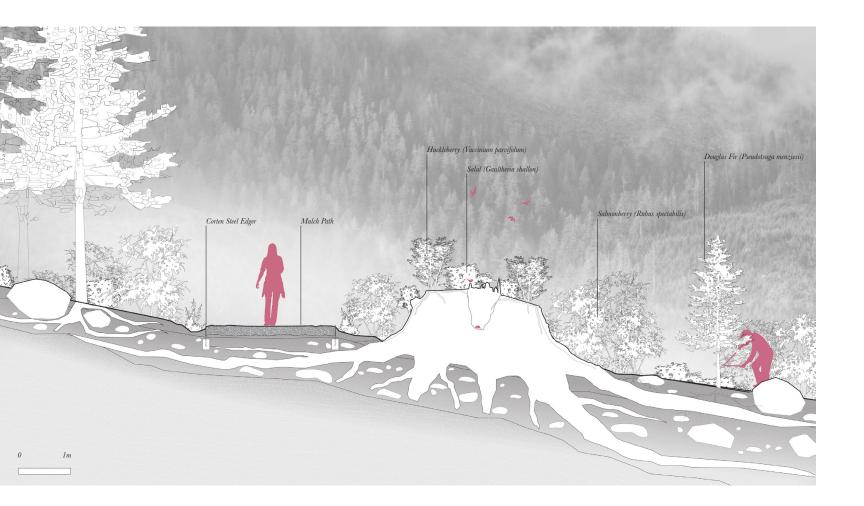




## [

Highlighted in this long section through the<br/>site, we see that there are several varying<br/>conditions that the path takes: the ground-level mulch path, the elevated walkway, and<br/>the transition between them.

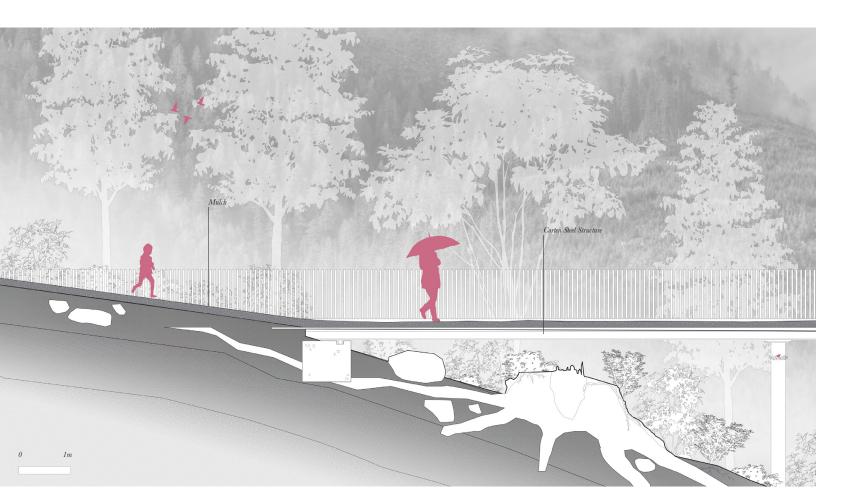
### Details



88

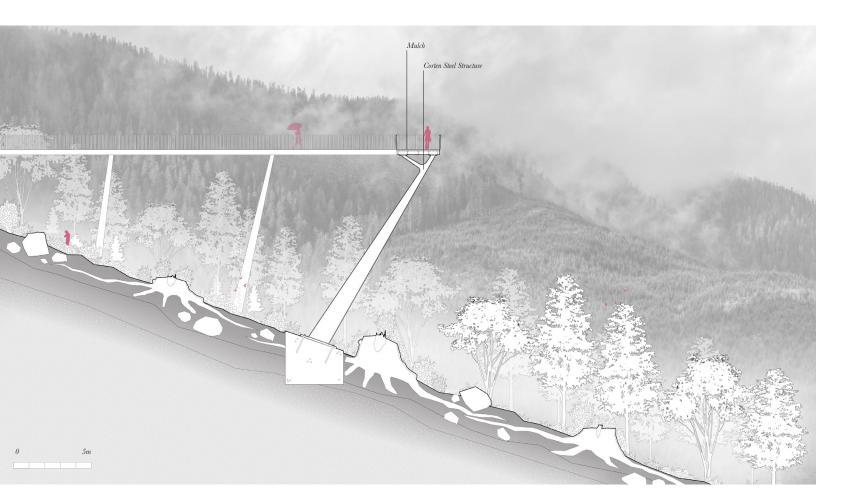
Here we see a drawing cutting through The path itself is outlined with thin strip of the mulch path at ground-level with the corten steel to define its edges. The rusting garden on the right side of the path and colour of the metal blends inconspicuously the surrounding mixed forest on the left. into the surrounding environment, but the The uneven terrain hosts a variety of shrubs hard metal quality stands out just enough growing on decomposing wood and the soil. to remind the path user that this is indeed These stumps provide hiding and nesting a human intervention. Mulch is created from areas for small birds and mammals and the continual removal of conifer saplings and spread along the path between the metal deliver nutrients into the soil through their edgers as needed over time. decomposition.

## Mulch Path



As the path transitions from the ground off of the ground plane, marking your shift plane onto the elevated walkway, the mulch from earth to structure. The slender spacing between them with no horizontal bar create continues beneath your feet creating a seamless transition. Thin vertical railing posts an increased sense of fluidity between the made of steel at a slight outward slope begin walkway and the world around you. to appear along the path before you step

### Transition



Cutting through the elevated walkway in for the structure to take its slim and angular section, we see the profile of the structure profile, which reinforces the minimal form of the circular path and provides an increased with its continuation in elevation in the background. At its highest point, the walkway sense of suspension as you walk through the juts out at 15m off the ground providing an air, absorbing the views around you. elevated view of the site and the surrounding Marking the boundary between garden and area.

forest, trees will grow up on the outside of the walkway, eventually creating the experience Corteen steel is used to reference the industrial quality and history of the site, of being within the trees at the forest edge providing a reminder of the human element looking down into the shrubby garden of the site's construction. The material allows landscape below.

### Elevated Walkway



Looking at the site in context to its surroundingworks not only to activate the site, but to formenvironment, we can see that the structuralit spatially.elements of the path intervention serve as aHumans enter into the site after travelling alongframing of the garden site, but one that canHumans enter into the site after travelling alongeasily be moved across from outside of itsthe adjacent logging road; the Swainson'ssurrounding context.thrush moves between the open shrubby

framing of the garden site, but one that can easily be moved across from outside of its surrounding context. Across its space, the garden will be maintained by both human and non-human users through different actions or 'gardening'. In this way, agency is shared and the program

### Flows



In winter, as mostly dormant vegetation As an experience, the bridge is designed to creates an open condition, elk come to facilitate this observation allowing the user to forage on what is left of the forbs and grasses see the various animal and plant actors within and later much on new shoots, effectively the site and create a prolonged moment of weeding out certain plants and pruning back perspective on the intersection between others. The lack of leaves creates a clear these living systems and the extractive treatment that we put on them condition that is optimal for observation of the site and the life that utilizes it during this period.

### Winter





ite th

Longer days and warmer weather invite the Habitat created by the forest edge butting twiggy plants to begin budding their leaves against the open shrub landscape of the and flowers. As human gardeners make garden creates the condition necessary for decisions about which plants to keep and nesting and feeding by many birds that rely which to remove for the year ahead, the song on this edge condition. Rather than swiftly of the Swainson's thrush moving through to its planting a disturbed site to create a yield of lumber as quickly as possible, allowing eventual southern destination can be heard calling in the soon-to-arrive Salmonberry as the forest to grow with both deciduous and it feeds on bugs that enjoy the plant's tender conifer species while inviting variability in landscape type offers habitat to both the fresh leaves. resident and migratory birds that rely on this BC's coastal forests.

### Spring





104

In maintaining the garden for fruit bearing plants, many animals that seek out a sugar fix are attracted to come feast. Of course one's own safety is never out of mind, but perhaps this invitation to multiple users can allow for a sense of empathy amongst them and an ongoing negotiation in navigating one's use of the site.

The fruiting of summer invites a whole host of gardeners to the site to enjoy the warm, open sun and the sweetness of the edible landscape. In this high demand landscape, multiple gardeners must be cognizant of one another. Human visitors look out for bear scat full of ready-feritlized seeds and sing or make noise to make their presence known.

### Summer





108

As fall comes and leaves are shed, once again<br/>a clean-up to prune back woody branches<br/>to make sure there are fresh shoots for the<br/>following year takes place. The salmon return<br/>to the nearby river to spawn upstream making<br/>an important meal for bears before their longBringing the fish carcasses on site helps to<br/>fertilize the soil adding nutrients that allow<br/>for growth once again the following spring.<br/>This transfer of energy reminds us that no<br/>landscape exists in isolation, be it spatially or<br/>temporally.winter without much food or movement.This transfer of energy reminds us that no<br/>temporally.

### Fall



Fig. 59: Black Bear Fertilizing with Salmon in Fall Render (Udal, 2020)



There are always multiple forces and narratives acting on a site that not only shape its physical form, but also how it is imagined in regard to our understanding of the world we live in. This project serves as an experiment to see how cultural landscape conservation might work to embrace the dynamic context in which it operates and use design to explore how new typologies can provide insight on existing ones.

### BIBLIOGRAPHY

114

- Australia ICOMOS. The Asia-Pacific Regional Workshop on Associative Cultural Landscapes: A report by Australia ICOMOS to the World Heritage Committee. Sydney: ICOMOS/World Heritage, April 27-29 1995. https://whc.unesco.org/ archive/cullan95.htm (accessed December 9, 2019).
- The Ancient Forest Alliance. "Before & After Old-Growth Maps." Ancientforestalliance.org. https://www.ancientforestalliance.org/learn-more/before-after-old-growth-maps/
- Canada's Historic Places. Standards and Guidelines for the Conservation of Historic Places in Canada: A Federal, Provincial and Territorial Collaboration, 2nd ed, Her Majesty the Queen in Right of Canada, 2010.
- Gilles Clement, 'The Planetary Garden' and Other Writings, translated by Sandra Morris. Philadelphia: University of Pennsylvania Press, 2015.
- Environmental Law Center Society. "An Old Growth Protection Act for British Columbia." http://www.elc.uvic.ca/press/documents/AnOldGrowthProtectionActforBC-2013Apr10.pdf (accessed December 16, 2019).
- Herrington, Susan. "The Forests of Canada: Seeing the forests for the trees." In Managing the Unknown: Essays on Environmental Ignorance, edited by Frank Uekötter and Uwe Lübken, 53-70. Oxford: Berghahn Books, 2014.
- Hirsch, Alison B. "Ritual practice and place conflict: Negotiating a contested landscape along Jamaica Bay." In Routledge Companion to Global Heritage Conservation, edited by Vinayak Bharne and Trudi Sandmeier, 265-278. London: Rougtledge, 2019.
- Indigenous Corporate Training Inc. "Forestry and reconciliation: focus on BC." Ictinc.ca. https://www.ictinc.ca/blog/forestry-and-reconciliation-focus-on-bc
- Jackson, John Brinkerhoff. 'The Vernacular Landscape.' In Landscape Meanings and Values, edited by Edmund Penning-Rowsell and David Lowenthal. London: Allen and Unwin, 1986.
- Kagan, Donald, Steven Ozment and Frank M. Turner. The Western Heritage, ninth edition. Upper Saddle River, NJ: Pearson Prentice Hall, 2007.

Lawrence, William F., Jose L.C. Camargo, Regina C.C. Luizao, Susan G. Laurance, Stuart L. Pimm, Emilio M. Bruna, Philip C. Stouffer, G. Bruce Williamson, Julieta Benitez-Malvido, Heraldo L. Vasconcelos, Kyle S. Van Houtan, Charles E. Zartman, Sarah A. Boyle, Raphael K. Didham, Ana Andrade and Thomas E. Lovejoy. "The Fate of Amazonian forest fragments: A 32-year investigation." In Biological Conservation 144 (2011): 56-67.

Namkoong, Gene. The Misunderstood Forest. Victoria: BC Ministry of Forests and Range, 2008.

- Pojar, Jim and Andy Mackinnon. Plants of Coastal British Columbia: Including
- Anansi Press, 2018.
- California Press. 1964.
- for Cultural Landscape
- Challenges and New Directions. New York: Routledge, 2015.
- UNESCO. Operational Guidelines for the Implementation of the World Heritage

Washington, Oregon and Alaska. Vancouver: Lone Pine Publishing, 1994.

Rustad, Harley. Big Lonely Doug: The story of one of Canada's last great trees. Toronto:

Sauer, Carl. "The Morphology of Landscapes." In Land and Life: Selections from the Writings of Carl Otwin Sauer, edited by J. Leighly, 315-350. Berkeley: University of

Shelton, Ted and Tricia Stuth, "Architecture and Human Attachment: An Interview with Jorge Otero-Pailos." Journal of Architectural Education 72, no. 2 (2018): 190-198.

Smith, Julien. "Landscape and Cultural Landscape." Queenston, ON: Willowbank Centre

Taylor, Ken, Archer St Clair and Nora J. Mitchell, ed. Conserving Cultural Landscapes:

Convention. Annex 3. Paris: UNESCO World Heritage Center, 2019.

The World Heritage Committee. "Cultural Landscapes." Whc.unesco.org. https://whc. unesco.org/en/culturallandscape/#1 (accessed December 9, 2019).