Lindeberg Remnants:
A Framework for Water Integration in the Alfaset Area

Binder 2: Abstract

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"Lindeberg Remnants: A Framework for Water Integration in the Alfaset Area"

This project unfolds as a comprehensive exploration of the Lindeberg beck basin within the Alfaset area. Serving as a microcosm, it seeks to develop scalable solutions that address broader challenges within the Alna watershed. The current state of the area is characterized by pervasive impermeable surfaces, discarding surface water. The primary objective is to undergo a transformative shift, allowing the landscape to embrace surface water, including stormwater and runoff, where former waterscapes thrived. This pivotal shift is imperative for fostering a resilient and balanced ecosystem.

The introduction of waterway spaces is not merely a design intervention; it is a deliberate effort to enhance biodiversity and establish vital ecological corridors connecting the Oslo marka forests to the Alna River. The design is intricately inspired by the site's glacial history, incorporating elements that guide the movement of water and simultaneously mitigate various water-related challenges.

The historical context is a critical lens through which the project examines the entire Alfaset area within the Alna watershed. The research spans from the last glacial era to the substantial spatial transformations of the 20th century due to urban and infrastructural developments. The evolution of water surfaces and resulting spatial fragmentation are scrutinized, drawing analogies with glacial landforms to address hydrological challenges. The strategic choice of the Lindeberg basin, located upstream in the Alfaset area, is instrumental for capturing and managing water runoff before its downstream flow.

The transformation of topsoil and the introduction of water hosting spaces are integral components of the proposed solutions. Utilizing mapping, walking, and photography, untapped spaces within the Lindeberg drainage basin have been identified. The Lindeberg beck basin is positioned as a potential asset in addressing impermeable surfaces, intending to reinstate water flow from stormwater and runoff in a basin currently featuring mostly impermeable surfaces. This approach serves as a pilot initiative for the broader Alna River watershed.

Incorporating glacial landforms such as esker ridges, terminal moraines, and kettle depressions, the project strives to craft a dynamic landscape that not only holds, slows down, and guides water but also breaks down impermeable surfaces. This intentional design aims to increase biodiversity and forge connections between the most developed forest along the Alna River, characterized by its rich marine soil and rare mushrooms, and the Østmarka forest, renowned for its wide range of deciduous trees.

Situated within the complex urban context of Alfaset, this project focuses on the Lindeberg drainage basin as an archetype, offering profound insights and practical applications. The intention is to scale up these solutions for comprehensive water management throughout the Alna River watershed, acknowledging the intricacies of a diverse and urbanized environment.