



AGGREGATES

QUICK FACTS

AVERAGE
ANNUAL DAILY
TRAFFIC:
120,000

TOTAL PROJECT
VALUE:
\$198,000,000

CONSTRUCTION
VALUE:
\$38,000,000

LAFARGE'S ROLE:
**PRIME
CONTRACTOR**

LANE KILOMETRES
CONSTRUCTED:
2KM OF 4-LANE

VOLUME OF
AGGNEO SUPPLIED:
**204,000 METRIC
TONNES**

HIGHWAY 1 - LOWER LYNN INTERCHANGES

NORTH VANCOUVER, BC

PROJECT OVERVIEW

As part of the initiative to improve safety and connectivity in North Vancouver, the Mountain Highway Interchange project is a highly complex 4-direction interchange project that will improve traffic through the community. The expansion along Canada's Transcanada Highway improves access to BC Ferries, Squamish and Whistler.

As the primary contractor and road builder on the project, the Lafarge team seized the opportunity to maximize the circular economy by using **Aggneo** throughout the project.

Aggregates are essential for roadbuilding - they are a component of composite materials such as concrete and asphalt concrete, and the aggregate serves as reinforcement to add strength to the overall composite material. Aggregates are widely used in drainage applications such as foundation drains, retaining wall drains, and road side edge drains.

Aggneo - Lafarge's highest quality performance recycled aggregate - was the ideal product to ensure success with a sustainable solution.

Aggneo

QUALITY ACROSS SCOPES

- CUSTOMIZED
QUALITY
ASSURANCE
PROCESSES
- ALIGNMENT OF
QUALITY
MANAGEMENT
PLANS WITH
ENVIRONMENTAL
MANAGEMENT
PLANS

"The ministry was pleased to partner with Lafarge in utilizing recycled materials for the North Vancouver Lower Lynn Improvement project. Lafarge's Aggneo and green initiative products support the province's goals of adopting more sustainable construction practices."

Jay Porter, PMP
Manager of Project Delivery
BC Ministry of Transportation &
Infrastructure

HIGHWAY 1 & LOWER LYNN INTERCHANGES

QUALITY AND ENVIRONMENTAL MANAGEMENT

Aggneo's quality management is driven by a culture that makes sustainability equally important with performance. The Quality Control testing programs and facilities established by Lafarge are fully ISO compliant, and include both record keeping and reporting guidelines, along with specified variables, parameters, and means to conduct meaningful quality control testing.

Being located so close to the highly sensitive Lynn Creek - a spawning ground for salmon - all construction activity at Mountain Highway required conscious planning and consideration of environmental needs to align with the demands of a congested existing roadway. It was essential to ensure that the road base provided by Lafarge was not only high performing but met and exceeded all environmental requirements and guidelines.

"We understand the fears around potential leaching of residues into groundwater," explains Ryan Paley, Commercial Manager for GVA Aggregates in Coquitlam, BC. "That's why we put our product through several rounds of environmental testing before even proposing it to our clients. Nobody in the industry conducts the same level of testing on their recycled aggregates."

From the outset of forecasting, risk acknowledgment and mitigation, through to commissioning and handover, any deviation from planned processes could have impacted the sensitive aquarian species in the region. Four years on, ongoing groundwater monitoring has proven the safety of Aggneo, and its suitability for both sustainable and safe construction.

