

LOW LEVEL ROAD REALIGNMENT



HIGHLIGHTS:

DESCRIPTION:

Road realignment

LOCATION:

North Vancouver, BC

CLIENT:

Port Metro Vancouver

PROJECT VALUE:

\$80 M

VALUE OF CIVIL WORKS:

\$23.4 M

PROJECT COMPLETED:

February 2015

MATERIALS SUPPLIED:

Reclaimed Asphalt Pavement (RAP)
Warm Mix Asphalt

THE PROJECT

The Low Level Road Realignment Project was a 2.5km, Envision Platinum Certified roadway located along the North Shore of Vancouver's Burrard Inlet. The road realignment project was designed to support the growth in port and rail operations and resolve community traffic congestion and safety challenges in the area.

THE SCOPE

The project involved the realignment and the raising of the Low Level Road to better accommodate the increased rail capacity and improvements to the Port Metro Vancouver operating facilities. The new layout creates improved access for bicycle traffic and public transportation. The local Spirit Trail pedestrian walkway was also improved with two new pedestrian bridges and the Neptune Cargill storage and shipping facility had a new overpass constructed to bypass railway traffic.

LAFARGE PARTICIPATION

As Joint Venture partner, Lafarge played an integral role in all aspects of the project including project management, construction management, stakeholder engagement, traffic management, and environmental & sustainability management.



Road construction included, among others, associated concrete flat works, excavation, grading, asphalt and paving. Structural works consisted of constructing and assembling a single-sided gang-form mechanical formwork and applying decorative finish to concrete for the large grave-stake cast in place retaining walls. Construction of the Mechanically Stabilized Earth (MSE) walls, included both a precast panel wall and a green vegetative wall.

Traffic management plans and a comprehensive safety program, based largely on Lafarge's safety practices and standards, were developed and implemented to ensure uninterrupted traffic flow.

PROJECT DELIVERY

Reclaimed Asphalt Pavement (RAP) materials and "Warm Mix" Asphalt, both products forming part of Lafarge' sustainable product lines, were utilized during the construction of the Low Level Road project. The "Warm Mix" Asphalt product lines were sourced from our Port Kells and Mitchell's Island facilities. These plants' ability to produce "Warm Mix" asphalt materials reduces the carbon footprint of asphalt pavement during production and construction.

Construction materials were delivered with various modes of transportation including barging, which utilized the loading/off-loading capabilities of our Ready Mix facilities located on both sides of the Burrard Inlet.

The removal, treatment and disposal of approximately 10,000m³ of contaminated soils from site was completed as per a detailed environmental assessment report, and in collaboration with all stakeholders. The material was transported to one of Lafarge's fill sites, in alignment with one of Lafarge's sustainability initiatives.



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