

Services to be Provided by the Proposed Public Works Regional Laboratory (Northern Metropolis) (the Proposed Laboratory)

- This document provides supplementary information on the construction materials testing services to be provided by the Proposed Laboratory at the application site (the Site) and some of its operation details.

The Public Works Regional Laboratory (PWRL) provides an extensive range of materials testing services for the public works projects in Hong Kong. Similar to other PWRLs, the testing services at the Proposed Laboratory will focus mainly on determining the **physical** properties of construction materials samples, including compression tests for concrete, compaction density and moisture content tests for soil, and grading tests for aggregates, etc.

2. The following is a more detailed description of the testing services to be provided at the Proposed Laboratory:

(i) Laboratory Testing Services

Compliance testing of construction materials, such as soil, aggregates, bituminous materials, concrete, and cement, as well as products including precast concrete kerbs and paving blocks and anti-corrosion coating for steel elements, etc.

(ii) In-situ Testing Services

The tests include in-situ soil and sub-base densities, skid resistance of road surfaces and road surface texture depth and regularity.

3. Construction materials samples to be delivered to and tested at the Proposed Laboratory are small in size and light in weight, and can be transported to the Site by private cars, light goods vehicles (LGVs), or medium goods vehicles

(MGVs). While the frequency of the delivery would depend on the actual services required, based on past experience, the frequency of delivery would normally not exceed 20 times per day. It is estimated that approximately 20 vehicle trips will be generated per day (including private car/LGV/MGV trips to/from construction sites and the Proposed Laboratory; private car trips to/from home and the Proposed Laboratory; and the shuttle minibus service to/from Sheung Shui MTR Station to the Proposed Laboratory).

4. The testing services at the Proposed Laboratory will focus mainly on determining the **physical** properties of construction materials and will not generate chemical or biological waste. The Proposed Laboratory is unlikely to cause adverse noise, air pollution, sewerage, or drainage impacts on the surroundings, as all laboratory testing works will be carried out indoors within the Proposed Laboratory building and performed manually by staff without the use of heavy machinery.
