

YEAR 2021 CCIL CORRELATION

EXTRACTION AND GRADATION TEST (Alberta and Yukon)

One sample of hot mix asphalt identified as Material **EXT-A-C-E-X** and one sample of hot mix asphalt identified as Material **EXT-B-D-F-X** have been provided.

TESTING

On receipt of the Material **EXT-A-C-E-X** and Material **EXT-B-D-F-X** the two materials shall be tested (use complete sample) as per ASTM D2172 "Quantitative Extraction of Bitumen from Bituminous Paving Mixtures", using solvent (**Note 1**). Sieve analysis of the resulting aggregate shall be carried out using ASTM D5444 "Mechanical Size Analysis of Extracted Aggregate", with the exception that reference to 75um sieve will be replaced with 0.080mm sieve.

Note 1: *All solvents are reported to be toxic to some extent. Attention should be paid to the safety precautions and the use of proper safety equipment such as gloves, goggles, respiration masks and fume hoods.*

The extracted aggregate shall be dried of all solvent, followed by water washing, drying and sieving. Laboratories shall report data calculated on the basis of total dried aggregate mass corrected for mineral fines in the extracts using in-house equipment.

The cumulative percentage of sample **passing** each of the required sieves shall be reported. The asphalt content for each sample shall be calculated and reported on the same form.

Note 2: *Please identify the Extraction Method and Solvent Used by selecting from the dropdown feature on the Reporting Form.*

All test results shall be reported online and submitted by Friday **January 8 2021**.

An example of a completed report form is shown on page 2.

Hard copies of the report forms and work sheets shall be submitted by **January 8 2021** by mail or courier to:

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DO NOT send reports and worksheets by fax.

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2020 Asphalt Reporting Form Extraction

Extraction Report 1 - Certification Program

- ▶ CCIL Confidential Lab # CCIL 999
- ▶ Lab Name: Demo Lab
- ▶ Tested by:
 - Lab Technician
 - Supervisor / Manager
 - Not listed

Please specify

Super Technician

Extraction Report 1

%AC and %Passing Sieve, mm

Test	Material A	Material B
%AC by dry Agg mass	5.26	5.60
%AC by total mix mass	5.00	5.30
16.0	100	100
12.5	100	100
10.0	97.6	98.1
5.00	84.7	83.2
2.50	63.6	59.8
1.25	52.1	49.0
0.630	43.7	41.3
0.315	33.7	32.1
0.160	20.6	19.5
0.080	8.3	8.6

Solvent Used
Trichloroethylene (TCE)

Extraction Method Used
D2172 Method A (Centrifuge Extractor)

Comments