

## YEAR 2019 CCIL CORRELATION

### EXTRACTION AND GRADATION TEST (Alberta and Yukon)

One sample of hot mix asphalt identified as Material **EXT-(I-III-V)-(N)** and one sample of hot mix asphalt identified as Material **EXT-(II-IV-VI)-(N)** have been provided.

#### TESTING

On receipt of the Material **EXT-(I-III-V)-(N)** and Material **EXT-(II-IV-VI)-(N)** the two materials shall be tested (use complete sample) as per ASTM D2172 "Quantitative Extraction of Bitumen from Bituminous Paving Mixtures", using trichloroethylene or n-Propyl Bromine as 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:** *For Test Method A use only one bowl and its matching lid OR use Test Method B*

All test results shall be reported online and submitted by Friday **January 4 2019**.

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 4 2019** by mail or courier to:

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Burlington, Ontario, L7N 3T2  
Tel: 289-337-8888: Fax: 289-337-8889: email: [nkamel@ccil.com](mailto:nkamel@ccil.com)

**DO NOT** send reports and worksheets by fax.

**YEAR 2019 CCIL CORRELATION**

**2019 CCIL CORRELATION – EXAMPLE REPORT ALBERTA and YUKON**

**Testing Admin Information**

your assigned CCIL Lab No.:

**AB99**

• Lab Name (include Branch or Mobile #)	Apex Construction
• E-mail Address	<a href="mailto:enstein@apex.com">enstein@apex.com</a>
• Reported by (Contact Name)	Frank Enstein
• Phone Number (Contact)	(999) 999-9999
• Tested by (Name(s))	I.M. Homely
• Results Reporting Date	January 4 2019

**D2172 Extraction (EXT-I and EXT-II)**

**EXTRACTION and SIEVE ANALYSIS**

Results for:	I		II	
Sample Number	x			
• %A.C. by dry Agg mass	5.26		5.60	
• %A.C. by total mix mass	5.00		5.30	
% Passing Sieve, mm				
• 16.0	100.0		100.0	
• 12.5	100.0		100.0	
• 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	
• 0315	33.7		32.1	
• 0.160	20.6		19.5	
• 0.080	8.3		8.6	

**Report which solvent used with check mark ( X )**

Trichloroethylene	X
n-propyl bromide	