

## YEAR 2010 CCIL CORRELATION

### EXTRACTION AND GRADATION TEST (Province of Alberta)

One sample of hot mix asphalt identified as Material **(A-C-E)-EX-#** and one sample of hot mix asphalt identified as Material **(B-D-F)-EX- #** have been provided.

### TESTING

On receipt of the Material **(A-C-E)-EX-#** and Material **(B-D-F)-EX- #** the two materials shall be tested (use complete sample) as per ATT12 "Standard Test Methods for 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 ATT26 "Sieve Analysis, 20 000 m minus"

#### **Note 1:**

**A) Because Trichloroethylene is reported to be more toxic than the 1,1,1-Trichloroethane formerly used, attention should be paid to the safety precautions and the use of proper safety equipment such as gloves, goggles, respiration masks and fume hoods.**

**B) Normal Propyl Bromide (nPB) may also be used. As usual, attention should be paid to the safety precautions prescribed by the Supplier**

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: Use only one bowl and its matching lid for all samples**

All test results shall be reported by e-mail in the designated spaces on the (MS-Excel) Extraction Report form. Please use the appropriate form for the samples that were shipped to your laboratory.

The completed Extraction Report form shall be e-mailed to [ibullen@ccil.com](mailto:ibullen@ccil.com) by Friday **January 8, 2009** (listed separately on CCIL Web Site). An example of a completed report form is shown on page 3-2.

Hard copies of the report forms and work sheets shall be submitted by **January 8, 2010** by mail or courier to:

Nabil Kamel, M.A.Sc., P.Eng.  
CCIL Program Manager  
3166 Lakeshore Road  
Burlington, Ontario, L7n 1A4  
Tel: 905-632-6456: Fax: 905-632-1990: e-mail: [nkamel@ccil.com](mailto:nkamel@ccil.com)

**YEAR 2010 CCIL CORRELATION**  
**DO NOT** send reports and worksheets by fax.

**2010 CCIL CORRELATION – EXAMPLE REPORT  
 EXTRACTION & GRADATION - ALBERTA**

**Testing Admin Information**

Enter your assigned Lab No.: **AB 05**

• Lab Name (include Branch or Mobile #)	<b>Apex Construction</b>
• E-mail Address	<a href="mailto:enstein@apex.com">enstein@apex.com</a>
• Reported by (Contact Name)	<b>Frank Enstein</b>
• Phone Number (Contact)	<b>(999) 999-9999</b>
• Tested by (Name(s))	<b>I.M. Homely</b>
• Results Reporting Date	<b>January 8,2010</b>

**Extraction A-EX and B-EX**

EXTRACTION and SIEVE ANALYSIS

Results for:	A-EX		B-EX	
Sample Number	x		y	
• %A.C.	5.03		5.26	
<b>% Passing Sieve, mm</b>				
• 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	

Save as Extraction Report - Lab ### (where ### is your code number)