2020 ALBERTA AND YUKON MINI-CORRELATIONS — SOILS

Please read the following Mini-correlation instructions carefully BEFORE you start testing!

- Testing shall be according to the "2019 Alberta and Yukon Soil Test Instructions" that are available on the CCIL website under "Proficiency Testing" except where otherwise stated below for SAMPLES for Mini-Correlation Testing "Correlation Instructions – Soils" that are included in this document.
- Please report the Results by the date indicated in the letter from CCIL notifying you that an additional testing program (mini-correlation), is required.
- All test results MUST be reported through your CCIL lab portal at https://portal.ccil.com/.

 After signing into the portal, all mini-correlation reporting forms appropriate to your lab certification will be accessible under the tab for Reporting Forms. You will be able to enter your test results into the forms and submit to CCIL through the portal.
- New: Please record the mini-correlation sample identification information found on the sample labels in the "Comments" section of the reporting forms.

SAMPLES FOR MINI-CORRELATION TESTING

- Samples for the mini-correlation are shipped to the laboratory at the time the laboratory is notified a mini-correlation is required.
- The mini-correlation samples are pre-prepared to meet the requirements of the appropriate test method and are to be tested as received unless instructed otherwise.
- Generally, only one sample will be shipped for each test requiring a mini-correlation. Tests for a mini-correlation are not generally carried out in pairs.
- The mini-correlation samples are in a dry state and therefore no drying should be necessary.
- Should you find it necessary, dry the soil mini-correlation samples to a constant mass at no more than 60°C.
- Dry the ASTM D698 mini correlation sample to a constant mass at 110 ± 5°C.

MINI-CORRELATION INSTRUCTIONS — SOILS

AASHTO T88 PARTICLE SIZE ANALYSIS OF SOILS:

DO NOT use the specific gravity values determined by your lab.

Use the following parameters to perform the test and calculations for α and constant K.

	Sample Year		
	2018	2019	2020
Sodium Hexametaphosphate per litre (g)	40	40	40
Adjusted pH	8 to 9	8 to 9	8 to 9
Specific Gravity	2.775	2.776	2.750

Report the Percent Passing the 425μm, 75μm, 20μm, 5μm and 2μm to the nearest 0.1 percent.

ASTM D4318 Liquid Limit, Plastic Limit and Plasticity Index of Soils:

Prepare the test specimens as outlined in Section 11.2 Dry Preparation, and determine the Liquid Limit according to the procedure described in Section 12.0, Method A Multi-Point Liquid Limit. Determine the Plastic Limit using a minimum of two trials and report the mean value. Report the Liquid Limit, Plastic Limit and Plasticity Index to the nearest 0.1 percent.

ASTM D854 Specific Gravity of Soils:

Carry out the test according to the procedures as outlined in Section 9.3 Procedures for Oven Dried Specimen.

ASTM D698 Laboratory Compaction Characteristics of Soil Using Standard Effort:

Dry the mini correlation sample to a constant mass at 110 ± 5 °C.

Perform the testing from the material passing the 4.75mm sieve. Carry out the test using a 101.6mm diameter mould using Method A. Compact the sample manually using 25 blows per layer. **Do not correct** the results to compensate for oversized particles.

Report the maximum wet density and maximum dry density in Mg/m3 to thee decimal places (equivalent to g/cm3, i.e. 2.345 Mg/m3), and optimum moisture content to the nearest 0.1%.