

Canadian Environmental Technology Verification (ETV) Information Bulletin

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Subject: Modifications to Section 3 *Sediment Removal Performance Test* in the CETV *Procedure for Laboratory Testing of Oil Grit Separators*

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The CETV *Procedure for Laboratory Testing of Oil Grit Separators* Section 5.0 specifies the procedure for assessing the sediment removal performance of Oil Grit Separators. A key provision of the test is the allowance for inclusion of residual sediment that accumulates in the inlet pipe to be included as part of the retained mass in the sediment removal calculation. This provision was included in the *CETV Procedure* based on the assumption that only coarse sediment with high capture rates would settle in the inlet pipe.

Laboratory testing has shown that sediment accumulation in the inlet pipe varies considerably among MTDs, which may in part be due to differences in inlet pipe diameters and slopes specified by vendors. The following modifications are intended to better standardize test conditions, reduce the potential for fine sediment settling within the inlet pipe and improve reporting requirements.

Section 3.2: Test Conditions

The sentence, “*Manufacturer’s installation recommendations shall be followed with a pipe of a diameter that is consistent with the manufacturer’s recommendations*”, will be replaced with: “*The inlet pipe shall have a minimum slope of 1% and a diameter not exceeding 25% of the diameter or width of the MTD. The inlet and outlet pipes shall have the same diameter.*”

Section 3.3.3: Influent Sediment Concentration

The sentence, “*The test sediment shall be injected into the flow stream at the lesser of 3 metres or 5 pipe diameters upstream of the inlet to the MTD.*” will be replaced with: “*The*

maximum length of pipe from the point where sediment is injected to the test unit shall not exceed a distance of 0.91 m [3ft] upstream of the inlet.”

Section 3.4: Sediment Removal Calculation

The sentence, *“The mass of sediment accumulated in the inlet pipe shall be measured and reported separately”* shall be replaced with: *“The mass and PSD of sediment accumulated in the inlet pipe shall be measured and reported separately. Both measurements shall be included with the sediment removal efficiency results in the ISO Verification Report and Statement for the tested MTD.”*