

# Regulation 153/04 (2011)

## VOCs in Soil Sampling Protocol

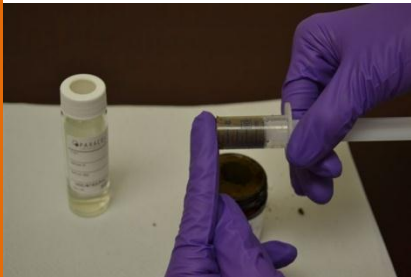
Ontario Regulation 153/04 (2011) amendments to Ontario Regulation 153/04 will take effect July 1, 2011. The revised 2011 Analytical Protocols now include a methanol field preservation requirement for volatile analytes including VOCs, F1, BTEX, and 1,4-dioxane in soil and sediment.

Paracel Laboratories will provide our clients disposable syringes and tared 40 mL vials with the required 10 mL of methanol **for \$3.50 each** to complete this sampling. Supplies can be requested through the Paracel Service Team at any of our locations. To aid with this new sampling procedure, Paracel has provided instruction in the use of these syringes.



Sampling directly from the split spoon (or soil auger), draw the plunger past the 12 mL mark, push the barrel of the syringe into freshly exposed soil and compact the soil to fill the barrel. It may take more than one attempt to fill the barrel completely.

Please note a soil jar has been used for illustration purposes.



Depress the plunger to the 12 mL mark to **lightly** compress the soil into a 5 mL (2.5 cm) core. A 5 mL core represents approximately 5 g dry weight.

Discard any excess soil over 5 mL (2.5 cm).



Remove the cap from the methanol vial, wipe any soil or debris from the outside of the syringe and align the barrel with the vial opening. Care should be taken not to insert the syringe directly into the vial.

**Slowly** depress the plunger to deposit the soil core into the vial being careful not to displace any methanol. Replace the cap and tighten, place upright sample vial into a cooler with ice packs for shipment to the laboratory. Dispose of the used syringe and complete all steps for each sample

required for analysis.

Note: additional sample collected in a 60 mL soil jar may be required for moisture content. This is not required if a 125 mL or 250 mL soil jar from the same location is being submitted for other analyses.

The Service Team at Paracel is fully committed to continuous improvement and providing complete solutions to our clients in respect to their analytical requirements. If you have any questions in regards to this document or your sampling program, please don't hesitate to contact Paracel's Service Team at 1-800-749-1947 or by email at [paracel@paracellabs.com](mailto:paracel@paracellabs.com).