

FS 2100 Audit Checklist

To use this field audit checklist effectively, the auditor must be familiar with FS 2100 (Surface Water Sampling) in "DEP Standard Operating Procedures for Field Activities", (DEP-SOP-001/01)

Use of pumps as sample collection devices

Collection of volatile organic compound (VOC) samples with peristaltic pumps either employed the "straw technique" for collection from the well or was conducted through no more than one foot of silicone tubing installed in the pump roller head, according to the requirements and restrictions for tubing and flow rate specified in FS 2200. Oil & grease, FL-PRO and TRPH samples were not collected with pumps.

The pump and tubing assembly was flushed with site water to allow at least 3 volumes of the pump and tubing to pass through the system prior to collecting the sample.

For surface collection, the pump tubing intake was placed 6-12 inches below the water surface.

For depth sampling, the following procedures were performed:

- The water column depth was measured or determined from reference sources.
- The sample collection depth was determined and recorded.
- The pump or tubing intake placement at the required depth was accomplished by appropriate weighting or anchoring with non-contaminating materials to ensure unobstructed flow at the intake.