

## SECTION 8.9

### SURFACE SOIL SAMPLING FOR CHEMICAL ANALYSIS

#### 1.0 Purpose

To describe the procedures for collecting samples of surface soils for chemical analysis.

#### 2.0 Responsibilities

- The site coordinator is responsible for assuring that this procedure is implemented.
- Survey team personnel are responsible for following this procedure.

#### 3.0 Procedure

##### 3.1 Equipment

- ✓ Trowel, shovel or other digging implement.
- ✓ Stainless steel or teflon lined scoop or spoon (prepared as specified in Section 8.13).
- ✓ Visqueen sheets.
- ✓ Wide mouth glass sample jars with teflon lined closures or other appropriate container.
- ✓ Labels and security seals, record forms, chain-of-custody forms, logbook.
- ✓ Indelible pen.
- ✓ Sample shipment containers, packing material, and ice or “blue ice”.
- ✓ Sample equipment decontamination supplies (described in Section 8.14).
- ✓ Sample gloves.

##### 3.2 Sample Collection

**NOTE:** This is a general procedure to utilize for obtaining soil samples from the surface to a maximum depth of 15 cm. Specific environmental contaminants of interest will require a modification to parts of this procedure. Variances to this procedure will be addressed and incorporated into the site-specific survey plan.

- 3.2.1 Stage sampling equipment onto clean visqueen sheets in order to prevent contamination of equipment by contact with the ground.
- 3.2.2 With the trowel or shovel, remove surface vegetation and other debris that may interfere with sample collection as well as any overburden, if any, to access the desired sample location and depth.
- 3.2.3 With the spoon or scoop, remove any soil that may have come in contact with the trowel, shovel, etc. Then collect the appropriate volume of sample and place into the sample container (if sample is a known hazardous waste, do not exceed sample container size of 16 oz or more than 1 lb of sample including container). The survey plan will specify the container type.
- 3.2.4 Label and secure sample container in accordance with Section 8.15 and the chain-of-custody procedures in Section 8.16. Record pertinent information on the Chain-Of-Custody Form (Figure B-16 or equivalent).
- 3.2.5 Record sample identification, location, date, time, and other pertinent data on field work forms, maps, drawings, and /or site logbook.
- 3.2.6 Clean off sample container, place in zip lock bag, and package in shipping cooler with ice or blue ice.
- 3.2.7 Clean trowel, etc. and use new spoon or scoop for next sample or if necessary, decontaminate in accordance with Section 8.14.
- 3.2.8 Change sample gloves prior to collection of next sample.