



## Drill Cuttings Sampling Protocol



### 1 Stockpile Size Estimating & Mapping

- Measure the dimensions of cuttings piles.
- Create a site diagram that includes the cuttings piles and surrounding area.
- Label stockpiles alphabetically.
- To calculate the cubic yardage of the cuttings piles, multiply length (ft) by width (ft) by height (ft), and divide by 27 for blocked stockpile. To convert triangular shaped stockpiles, the above calculation is divided in half to account for the slopes.
- Subdivide stockpile into segments no greater than 100 cubic yards each and mark with stakes.
- Label segments numerically (i.e. A1, A2, etc).

### 2 Stockpile Sampling Procedures

- During sampling activities, new clean disposable sampling equipment (nitrile gloves, baggies, sample jars, etc.) will be utilized. All reusable sampling tools will be decontaminated with a detergent solution (e.g., Liquinox or equivalent) prior to reuse.
- One soil sample, comprised of a five-part composite, will be collected from each 100 cubic yard segment as identified above.
- Approximately one quart of material per composite point will be collected and placed into a new gallon zipper bag.
- Remove any air from the bag and gently agitate to homogenize the material and then transfer into a new, clean dedicated sample jar(s) provided by the laboratory.
- Put the lid tightly back on jar.
- Label and tag each sample container with the site number, sample identification number, sample date, sample time, and sampler name.
- Once the sample jars are filled and labeled, place the jars in a sample cooler with ice to minimize volatilization. Samples should be cooled to 4° C as soon as possible.

### 3 Sample Analysis

- At the conclusion of the sampling event, the sample cooler will be transported under chain of custody protocol to a NELAP accredited laboratory for analysis.
- Soil samples will be analyzed for Total Petroleum Hydrocarbons (TPH) via Gasoline Range Organics (GRO) and Diesel Range Organics (DRO) method SW8015.
- Samples exhibiting analytical results for TPH below COGCC Table 910-1 concentration level of 500 mg/kg will also be analyzed for the remaining compounds regulated under COGCC Table 910-1.