

## **Mound Sand**

### **1. Application**

This procedure covers the determination of mound sand quality.

### **2. Summary of Methods**

The sample of dried mound sand is passed through a nest of 3/8 inch, 4, 8, 16, 30, 50, 100, 200 mesh sieves. The % passing each sieve is recorded.

### **3. Safety**

Each chemical compound should be treated as a potential health hazard. The laboratory is responsible for maintaining a current awareness file of OSHA regulations regarding the safe handling of the chemicals specified in this method. A reference file of material handling data sheets should be made available to all personnel involved in the chemical analysis.

### **4. Interferences**

None

### **5. Apparatus and Materials**

- 5.1 Shaker (Ro-tap<sup>R</sup> Model CL340)
- 5.2 Sieves ASTM 3/8 inch, 4, 8, 16, 30, 50, 100, 200
- 5.3 Balance (capable of 0.1 g)

### **6. Reagents**

None

### **7. Methods**

- 7.1 Weigh a 100.0 gram sample of dried mound sand
- 7.2 Transfer to the top of the nest of sieves (3/8 inch, 4, 8, 16, 30, 50, 100, 200)
- 7.3 Place the nest of sieves on the Ro-tap<sup>R</sup> shaker and shake for 10 minutes.
- 7.4 Weigh and record the sample weight on each sieve and bottom pan.

## 8. Calculations

8.1 Calculate and record the % passing each sieve. Starting at the 200 sieve and work up to the 3/8 inch sieve. See reference 11.

## 9. Quality Control

9.1 A reference (House Blend) mound sand is analyzed and compared to the average  $\pm$  10%

## 10. Reporting

10.1 Results reported to the nearest 1%

## 11. References

11.1 ASTM C33, Section 5.2

Sieve Size or Number	ASTM C 33 Specifications Percent Passing
3/8 Inch	100
No. 4	95 - 100
No. 8	80 - 100
No. 16	50 - 85
No. 30	25 - 60
No. 50	5 - 30
No. 100	0 - 10
No. 200	