Particle	Size	Range	(φ)
$-8 < \bar{r}$			

 $-8 < \bar{x}_{\phi}$ $-6.0 \le \bar{x}_{\phi} \le -8.0$

 $-2.0 \le \bar{x}_{\phi} \le -6.0$

 $-1.0 < \bar{x}_{\phi} < -2.0$

 $0.0 < \bar{x}_{\phi} < -1.0$

 $1.0 \le \bar{x}_{\phi} < 0.0$

 $2.0 \le \bar{x}_{\phi} < 1.0$ $3.0 \le \bar{x}_{\phi} < 2.0$

 $4.0 \le \bar{x}_{\phi} < 3.0$

 $5.0 < \bar{x}_{\phi} < 4.0$ $6.0 < \bar{x}_{\phi} < 5.0$

 $7.0 < \bar{x}_{\phi} < 6.0$

 $9.0 < \bar{x}_{\phi} < 7.0$

 $9.0\bar{x}_{\phi} > 9.0$

 $0.0625 > \bar{x}_m < 0.125$

Textural Classification based on Mean Grain-Size

Particle Size Range (mm)

 $\bar{x}_m > 256$

 $64 > \bar{x}_m < 256$

 $4 > \bar{x}_m < 64$

 $2 > \bar{x}_m < 4$

 $1 > \bar{x}_m < 2$

 $0.5 > \bar{x}_m < 1$

 $0.25 \geq \bar{x}_m < 0.5$

 $0.125 > \bar{x}_m < 0.25$

 $00390625 > \bar{x}_m < 0.0078125$

 $\bar{x}_m < 0.0039025$

 $0.03125 > \bar{x}_m < 0.0625$ $0.015625 > \bar{x}_m < 0.03125$

 $0.0078125 > \bar{x}_m < 0.015625$

Medium Silt

Clay

Textural Classifier

Boulders

Cobbles

Pebbles

Gravel Granules

Very Coarse Sand

Coarse Sand

Medium Sand

Fine Sand

Very Fine Sand

Coarse Silt

Fine Silt Very Fine Silt