

The results of the laboratory sieve analysis of the soil samples taken from each section of the bag shows that the soil deposited near the inlet has a higher amount of coarse particles than the ones distributed at the far end of the geobag.

4. CONCLUSION

Coarse soil particles accumulates near the inlet of the transparent geobag because it is denser than the fine grained soil, the coarse soil particles are attracted by gravity and settles immediately near the bottom after entering the inlet. Fine grained soils on the other hand are distributed throughout the length of the bag because it has a slow sedimentation rate. The weight of the new layer of soil added help accelerates the consolidation of the underlying soil layer. The decrease of soil solid volume in the consolidated areas causes the expulsion of water. Highly consolidated areas has less amount of moisture content and has the most coarse soil particles.

Draining the water from the bag also influences the consolidation process. As water was drained from the geobag, the consolidation of the soil particles also increases.

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