

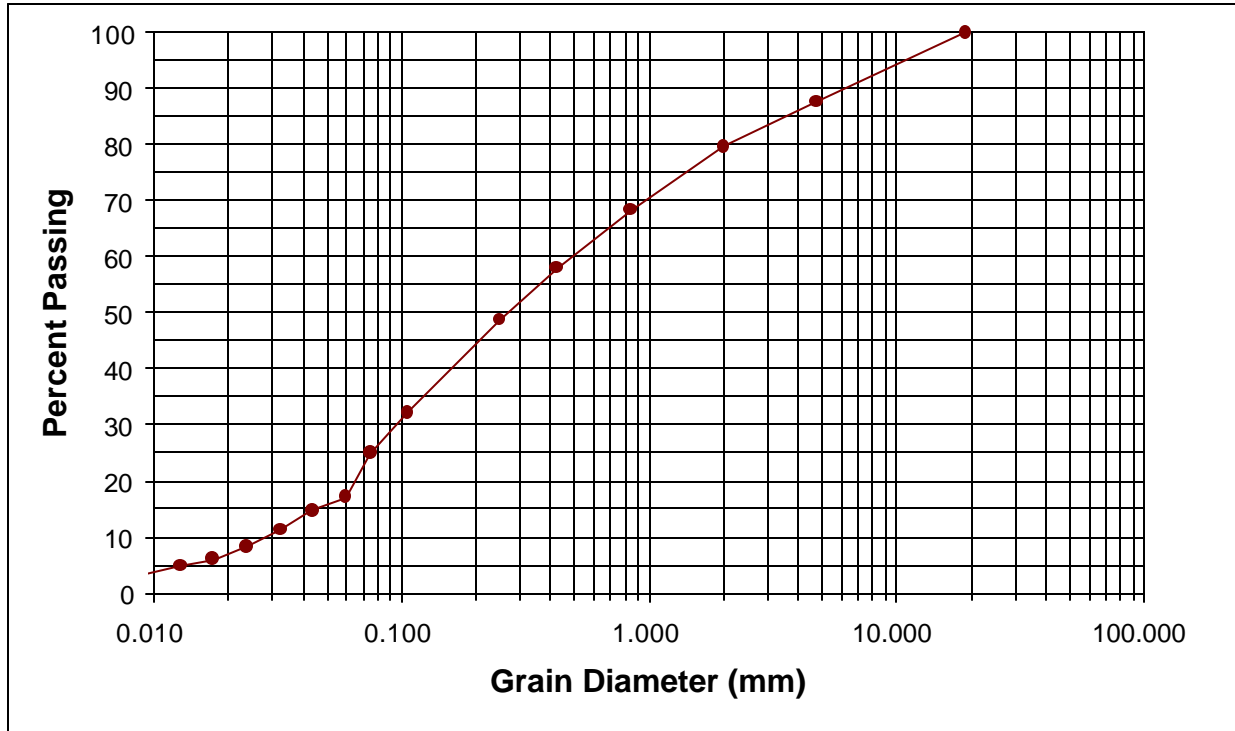
APPENDIX A

Results of Laboratory Testing on Backfill Soils

Sieve & Hydrometer Analyses

Stockpile Location: A

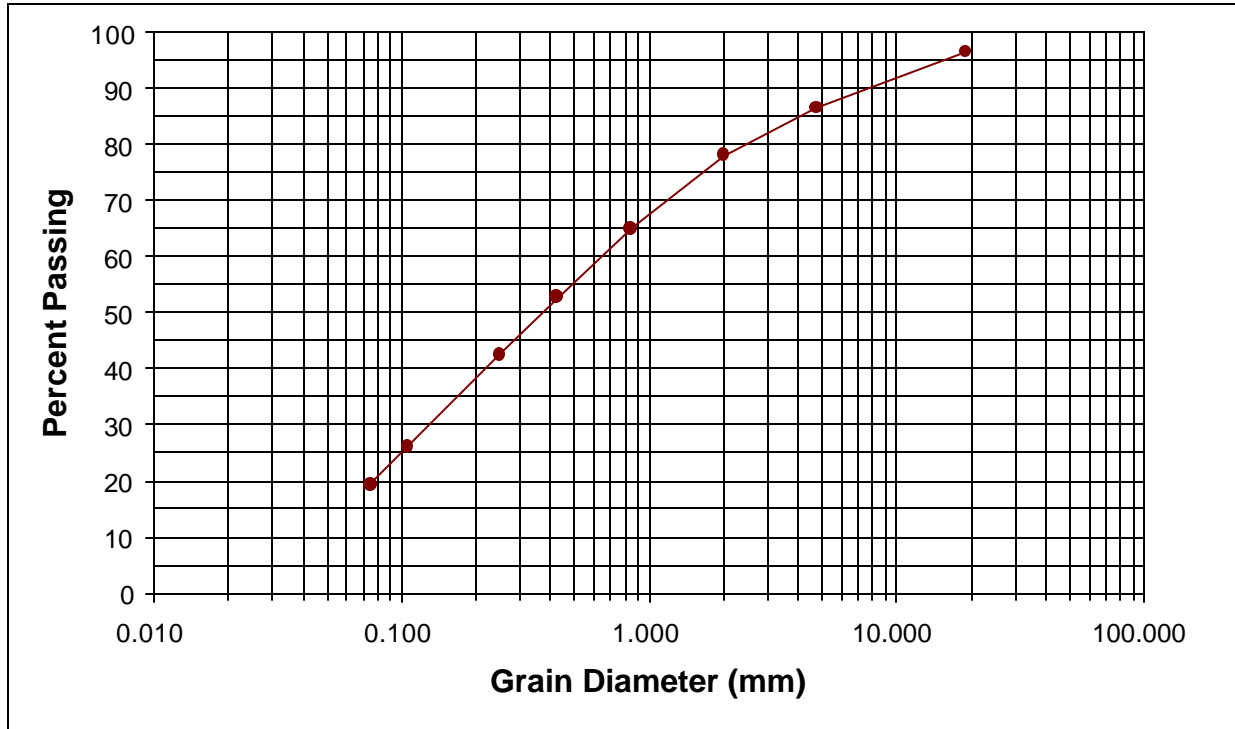
Test # 1

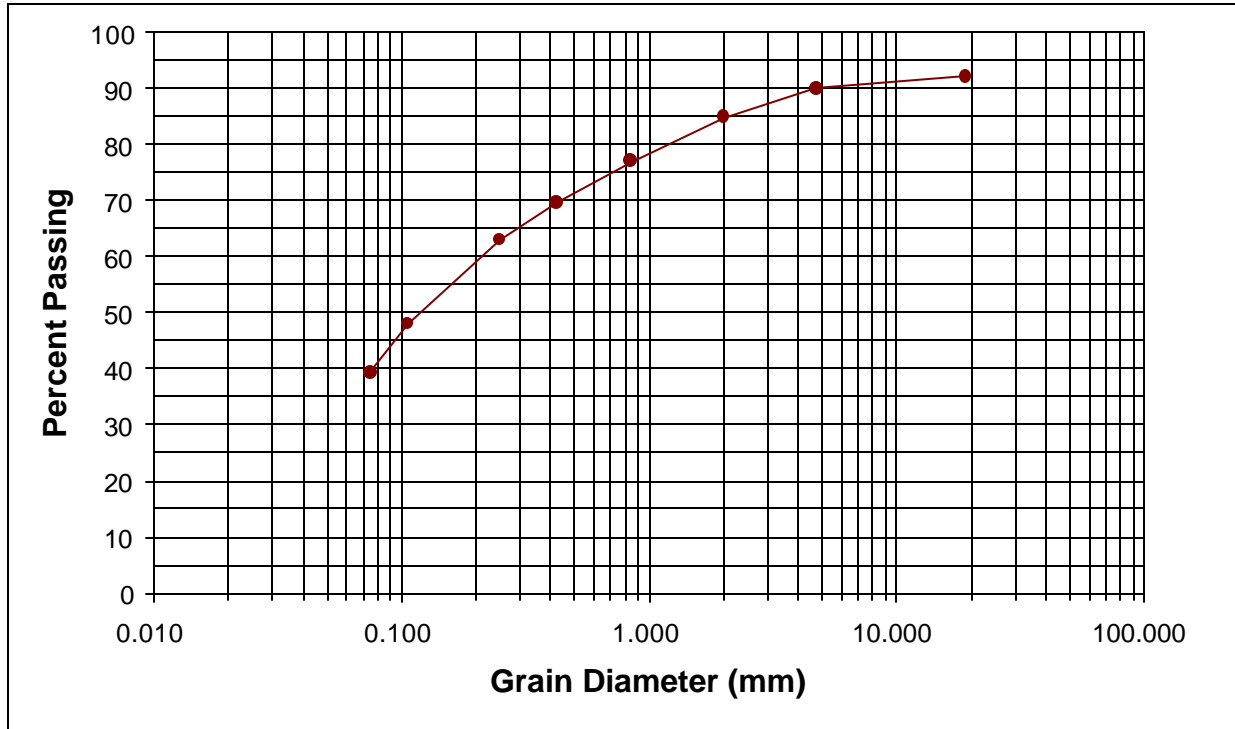
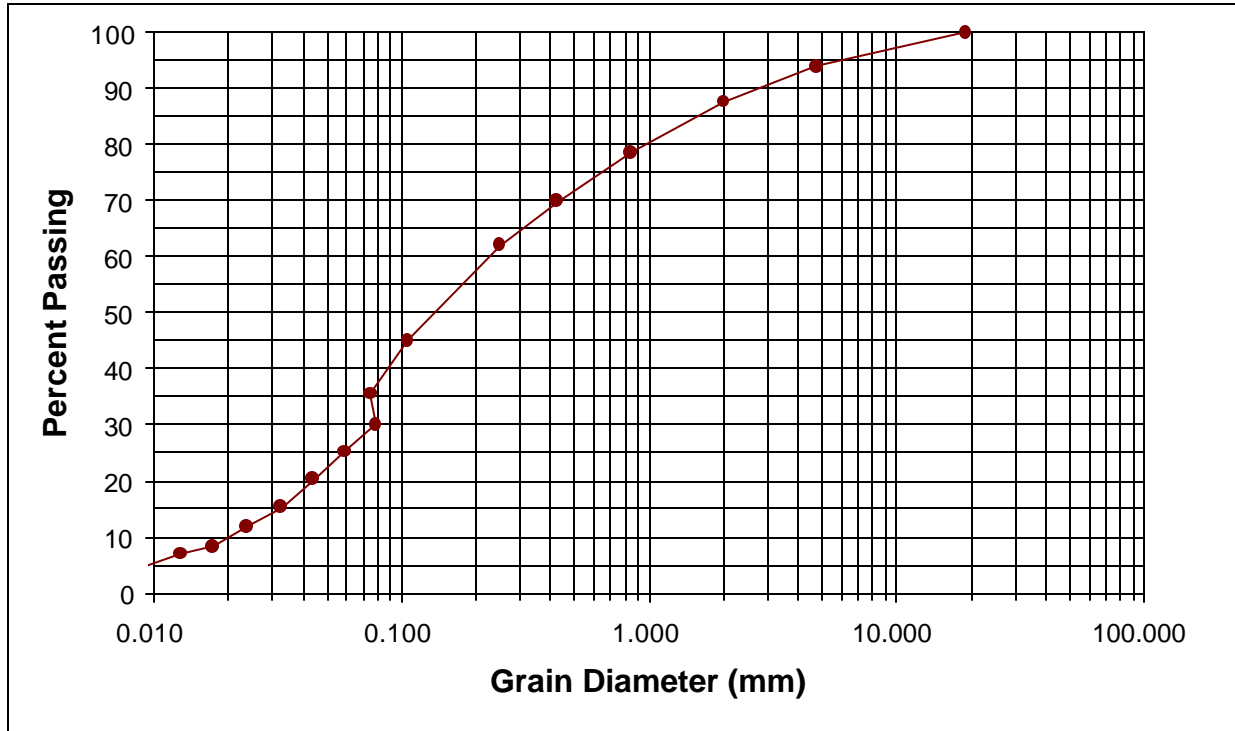


Sieve Analysis

Stockpile Location: A

Test # 2

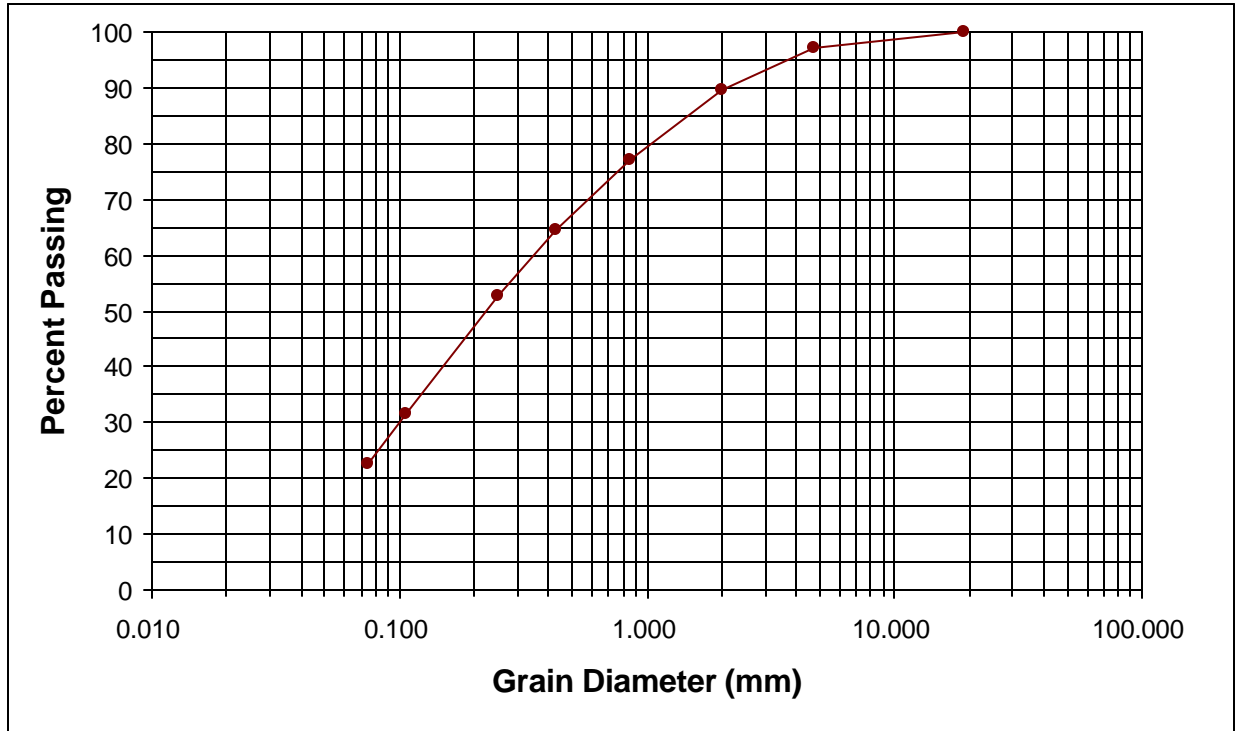




Sieve Analysis

Stockpile Location: C

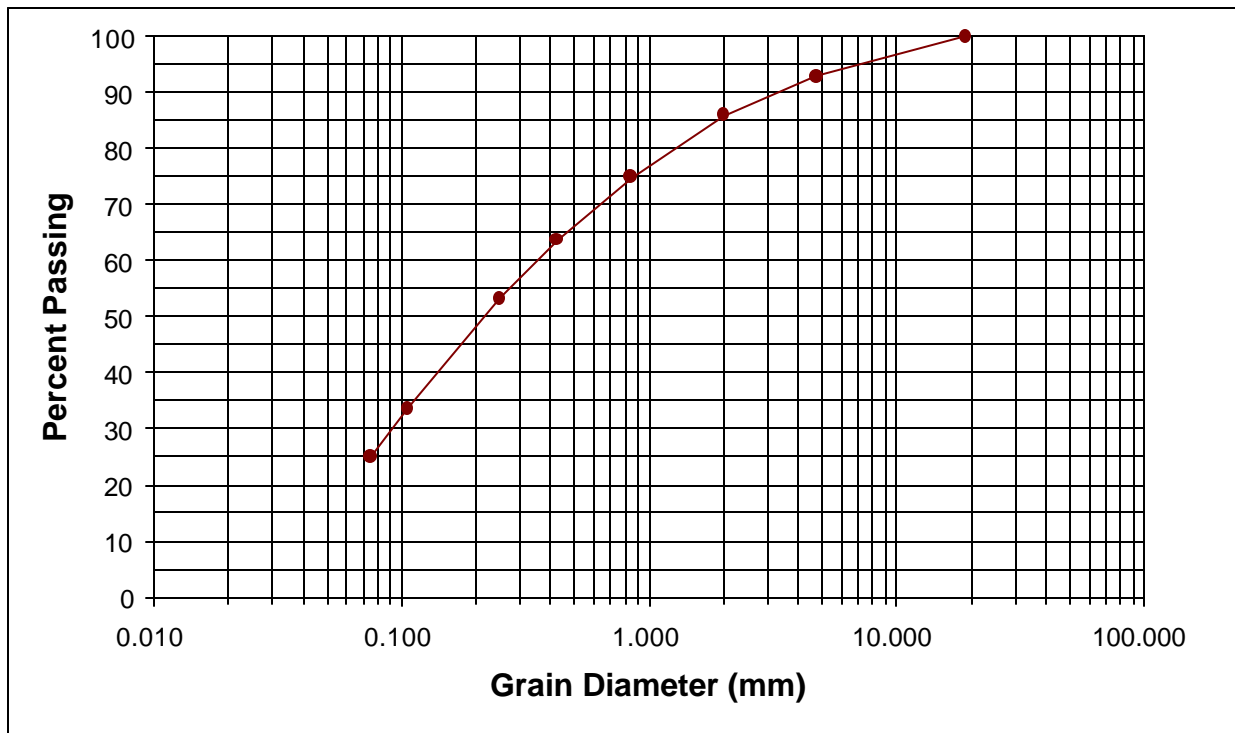
Test # 1



Sieve Analysis

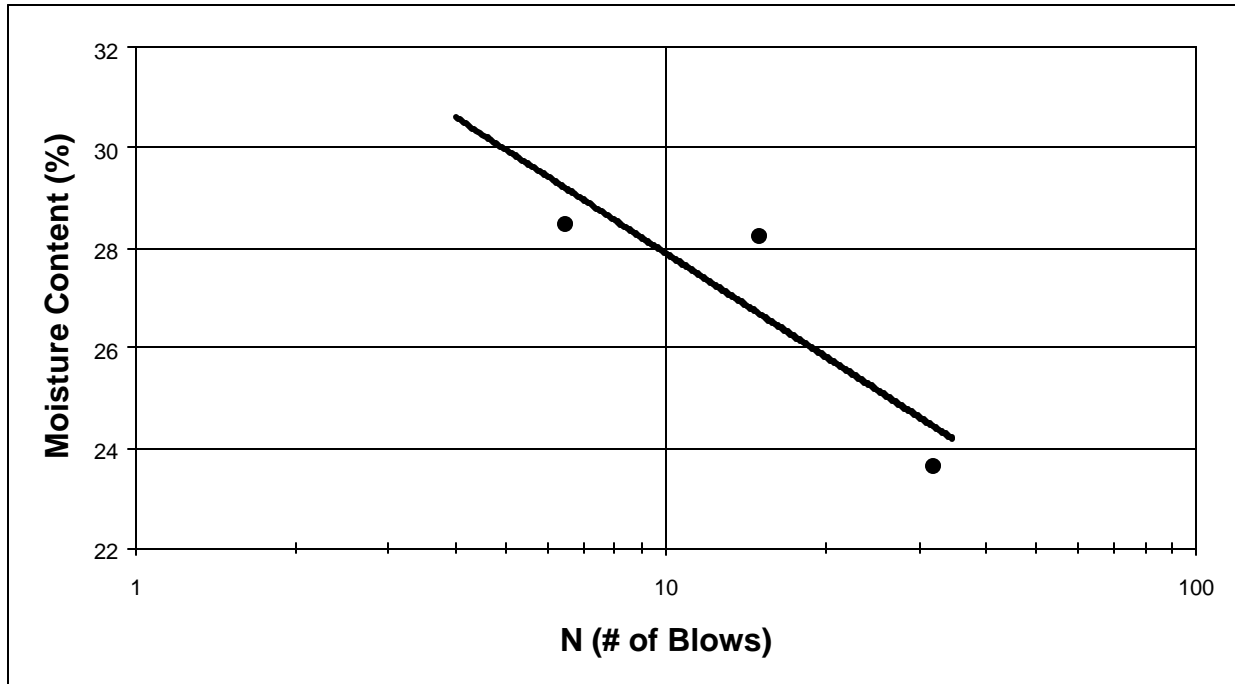
Stockpile Location: C

Test # 2



Liquid Limit Test Results:

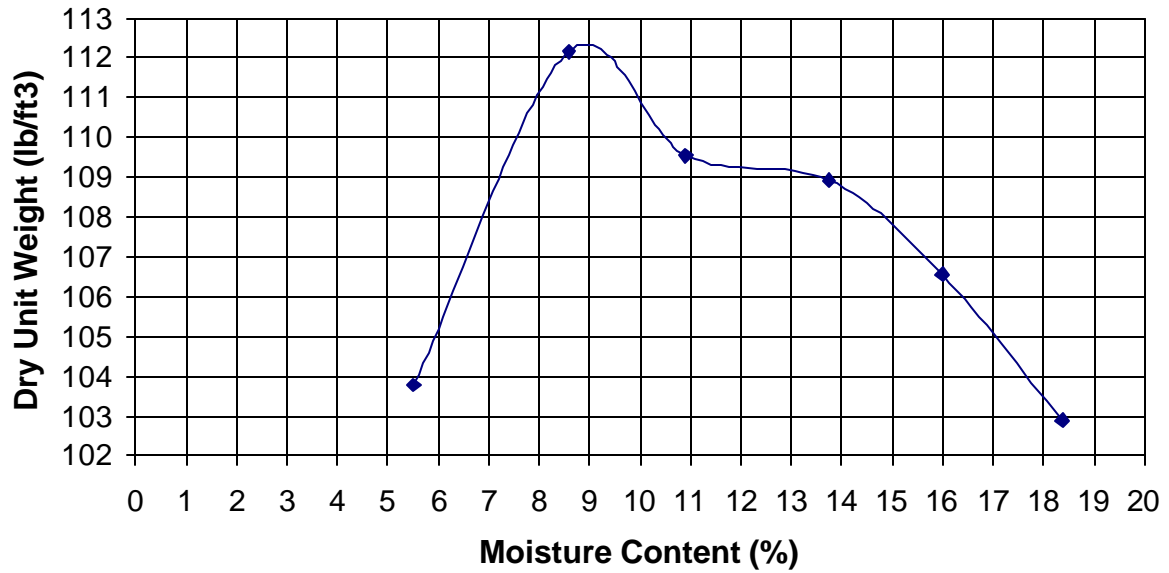
Liquid Limit = 25.1



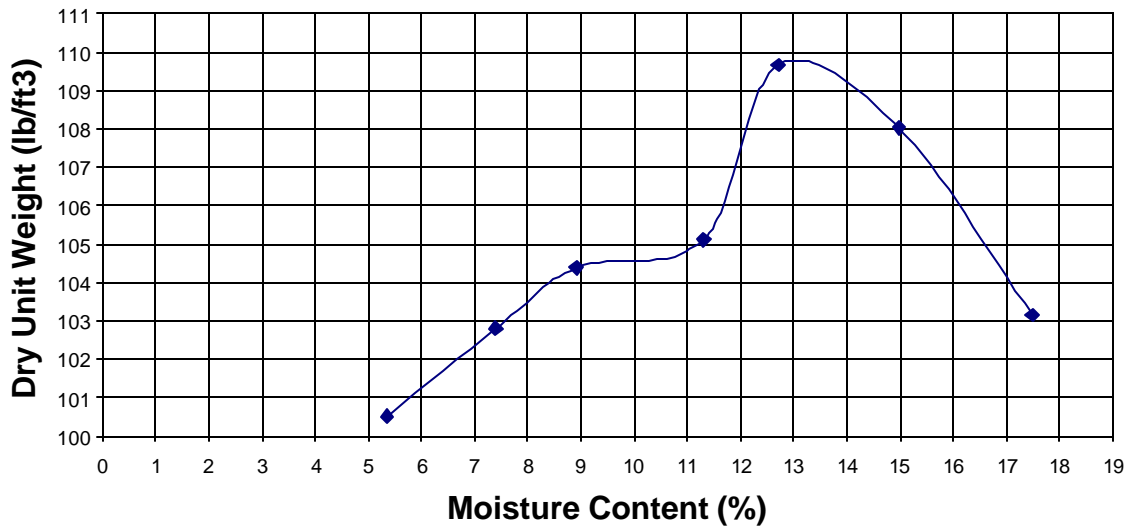
Plastic Limit Test Results:

Plastic Limit = 22.5 (average value of 3 determinations)

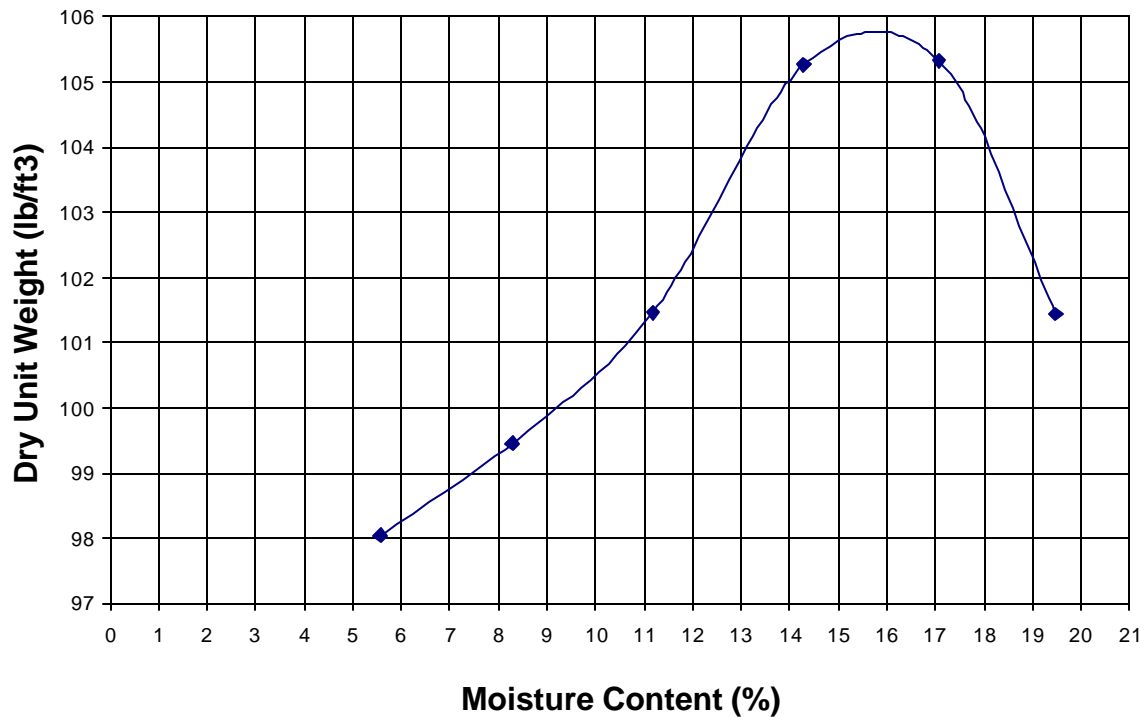
**Standard Proctor Compaction Curve
for Soil from Stockpile Location A**



**Standard Proctor Compaction Curve for Soil from
Stockpile Location B**



Standard Proctor Compaction Curve for Soil from Stockpile Location C



Direct Shear Testing

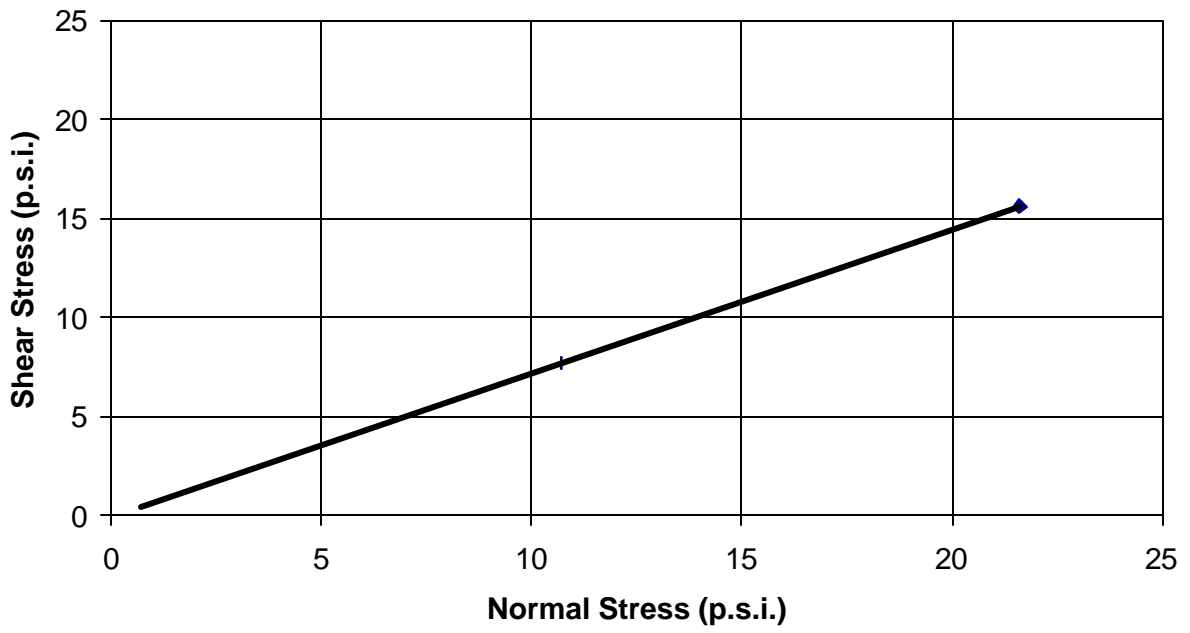
Four series of Direct Shear Tests were performed on samples obtained from the stockpile to be used as backfill behind the walls. Test series #1 and #2 were performed on dry specimens. Test series #3 and #4 were performed on saturated samples that were allowed to soak for 24 hours prior to testing.

The angle of internal friction determined from each test series is as follows:

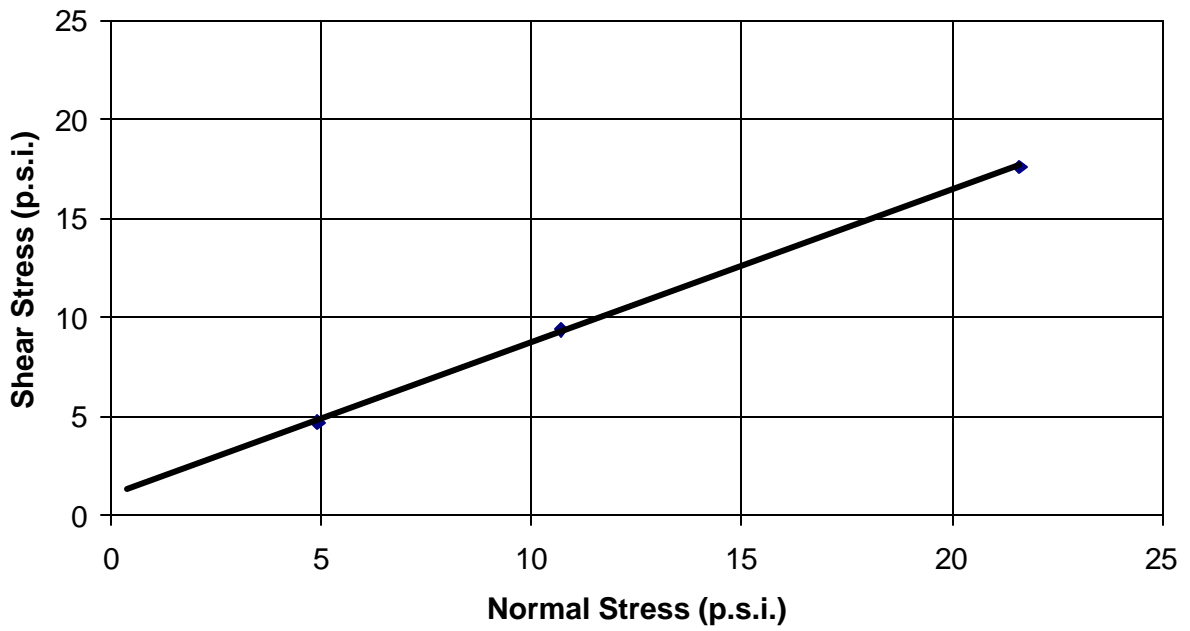
Test Series	Angle of Internal Friction (degrees)
1	36
2	37
3	30
4	31

A plot of Mohr's Failure Envelope for each test series is included on the following pages.

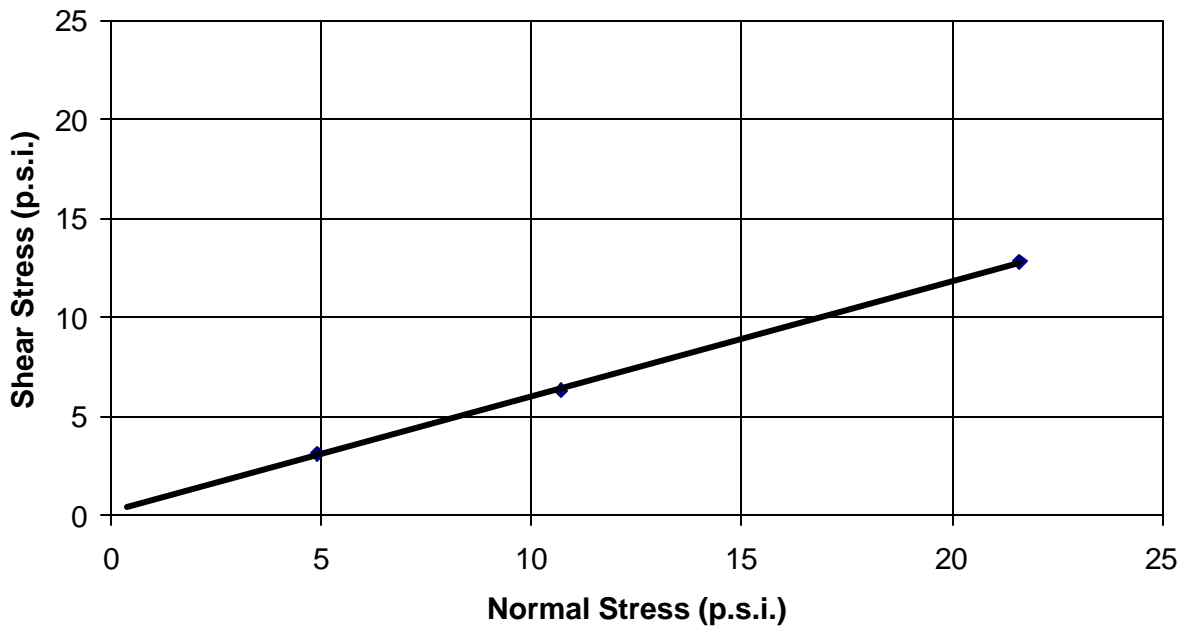
Results of Direct Shear Test Series #1



Results of Direct Shear Test Series #2



Results of Direct Shear Test Series #3



Results of Direct Shear Test Series #4

