

**RESISTANCE R-VALUE TESTING RESULTS
(ASTM D 2844)**

Project: Berthoud County Landfill Expansion.

Project Number: P2318-2015

Location: B-3

Depth: 0-5'

Sample Number: S-1

Material Description: Dark Brown Sandy Lean Clay w/ Organics & Rubble

Figure number:: F-R2

Tested by:: ERK

Checked by:: ALV

Testing remarks:: Sample received 5/22

Test specimen number	1	2	3
Compaction pressure (psi):	700	250	100
Wet weight (gms):	699.7	666.7	639.8
Dry weight (gms):	647.1	622.0	590.3
Tare weight (gms):	220.9	223.1	224.0
% Moisture:	12.3	11.2	13.5
Exudation load (lbs.):	4150	7700	3200
Exudation pressure (psi):	330	613	255
Total weight (lbs.):	7.100	7.000	6.900
Mold weight (lbs.):	4.600	4.600	4.600
Sample weight (lbs.):	2.500	2.400	2.300
Initial expansion (x10,000):	0	0	0
Final expansion (x10,000):	7	12	4
Expansion pressure (psi):	0.21	0.36	0.12
Ph at 2000 lbs.:	109	82	124
D turns:	4.92	4.12	4.74
R:	19.2	36.6	13.3
Height (in.):	2.59	2.37	2.34
Dry density (pcf):	118.1	125.2	119.1
Corrected R:	20.4	33.5	11.9

R-Value at 300 psi exudation pressure = 17.2

Expansion pressure at 300 psi = 0.18 psi