



UNIVERSAL ENGINEERING SCIENCES

Consultants In Geotechnical Engineering Environmental Sciences
Construction Materials Testing Threshold Inspections Private Provider Inspection

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Certificate of Authorization No. 549

Project No

Report No

Date



REPORT OF IN-PLACE DENSITY TESTS

Client: Ronald Clark Corp

Project: 216

Area Tested

- ☐ Sanitary Pipe ☒ Building Pad ☐ Subgrade
☐ Sanitary Structure ☐ Footings ☐ Other
☒ Storm Pipe ☐ Roadway
☐ Storm Structure ☐ Curb

Material

- ☒ Fill ☐ Limerock
☐ Backfill ☐ Stabilization
☐ Native ☐ Other
☐ Embankment

Referenced From

- ☒ Top ☒ Fill ☐ Pipe ☐ Base Course
☐ Springline ☐ Native ☐ Structure ☐ Subgrade
☐ Bottom ☐ Footing ☐ Berm ☐ Other

"OF"

31752

Field Test Performed

- ☐ ASTM D-2937 Drive Cylinder Method
☒ ASTM D-2922 Nuclear Gauge Method
☐ ASTM D-1556 Sand Cone Method
☐ ASTM D-558 Soil Cement Field Proctor

Laboratory Testing

- ☒ ASTM D-1557 Modified Proctor ☐ FM 5-515 LBR
☐ ASTM D-698 Standard Proctor ☐ ASTM D-1883 CBR
☐ AASHTO T180 Modified Proctor
☐ AASHTO T99 Standard Proctor

Report Left on Site?

- ☒ Yes (With Whom?)
☐ No (Reason?)

+ 101.0x

Compaction Requirement = 93

Date Tested:

Lab Test Results

Field Test Results

Test No.	Location of Test	Depth or Elevation	Sample Number	Maximum Density (pcf)	Optimum Moisture (%)	Wet Density (pcf)	Dry Density (pcf)	Field Moisture (%)	Compaction (%)	PASS FAIL
				1085	13.5					
1	At 5' below surface	-11.0				1128	1216	10	96.4	P
2	At center of road					1119	1234	6	111	P
3	At 1' below surface					1141	1216	1	110	P

Technician