



UNIVERSAL ENGINEERING SCIENCES

Consultants In: Geotechnical Engineering • Environmental Sciences
Geophysical Services • Materials Testing • Threshold Inspection
Building Code Administration, Compliance Inspection & Plan Review

UES Project No: 0510.1600915.0000

Workorder No: 960637-1

Report Date: 12/29/2016

5971 Country Lakes Drive, Fort Myers, FL 33905 - P: 239.995.1997 - F: 239.313.2347

In-Place Density Test Report

Client: GCG Construction, Inc.
6819 Porto Fino Circle Suite 1
Ft. Myers, FL 33912

UES Technician: Dino Merino

Date Tested: 12/20/2016

Project: Goodwill Heritage Bay, Naples
8915 Sage Avenue , , Collier County, FL

Area Tested: Storm Drain - Final 2 Lifts

Material: Backfill

Reference Datum: Top of Storm Inlet Structure

Type of Test:

Field: ASTM D-6938 Nuclear Gauge Method

Laboratory: ASTM D1557 Modified Proctor

The tests below meet the 95% minimum compaction requirement.

| Test No. | Location of Test | Range | Maximum Density (pcf) | Optimum Moisture (%) | Field Dry Density (pcf) | Field Moisture (%) | Soil Compaction (%) | Pass or Fail |
|----------|---------------------------------------|---------|-----------------------|----------------------|-------------------------|--------------------|---------------------|--------------|
| 1 | Between Box- DS-202 & DS-203 1st Lift | 12 inch | 117.0 | 10.6 | 114.5 | 9.0 | 98 | Pass |
| 2 | Between Box- DS-202 & DS-203 2nd Lift | 12 inch | 117.0 | 10.6 | 116.0 | 8.0 | 99 | Pass |
| 3 | Between Box- DS-203 & DS-206 1st Lift | 12 inch | 117.0 | 10.6 | 115.0 | 9.3 | 98 | Pass |
| 4 | Between Box- DS-203 & DS-206 2nd Lift | 12 inch | 117.0 | 10.6 | 117.0 | 8.5 | 100 | Pass |
| 5 | Fire Line SE Corner of Bldg. 1st Lift | 12 inch | 117.0 | 10.6 | 115.2 | 9.2 | 98 | Pass |
| 6 | Fire Line SE Corner of Bldg. 2nd Lift | 12 inch | 117.0 | 10.6 | 116.5 | 8.7 | 100 | Pass |

Reviewed By
Universal Engineering Sciences, Inc.
Certificate of Authorization No. 00000549

Lindsey N. Weaver

STATE OF FLORIDA
Professional Engineer No. 41790