

# MATERIAL TESTING SERVICES, LLC

## MOISTURE-DENSITY RELATIONSHIP



P.O. Box 634  
Minot, ND 58702  
(701) 852-5553

PROJECT: AGRICULTURAL BUILDING SCALE  
WEBSTER, NORTH DAKOTA

DATE: 13-Jul-15

COPIES TO: Ron Anderson  
[anderson@gvtel.com](mailto:anderson@gvtel.com)

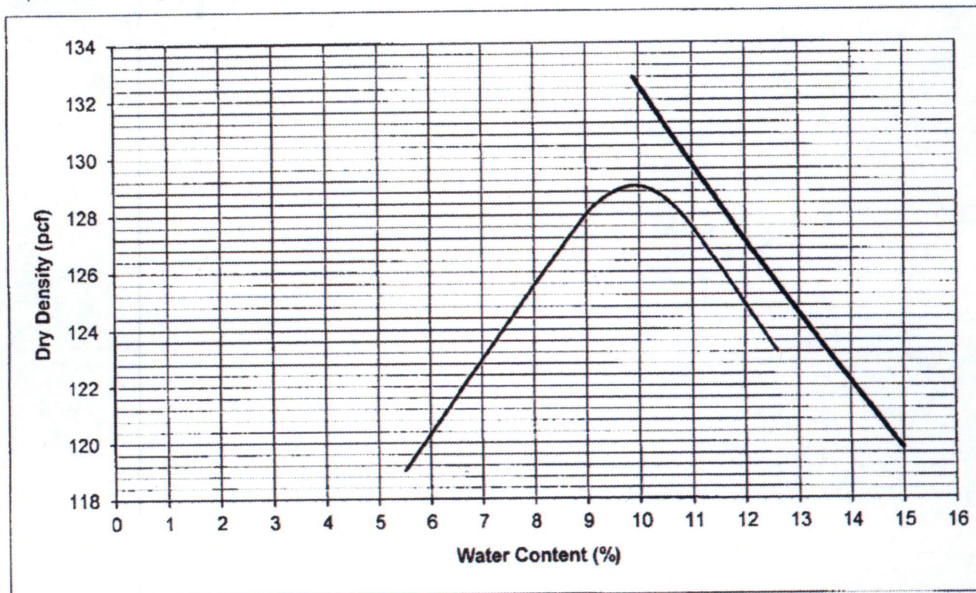
REPORTED TO: Mikkelsen Brothers  
10489 Highway 5  
Langdon, ND 58249

Laboratory Number 15-142

**Sample Number:** 1  
**Sample ID:** scale base material, Kitsch pit (located N of Webster)  
Sampled 7/11/15  
Tested 7/13/15  
**Soil Description:** Brown SILTY, CLAYEY SAND with GRAVEL  
**Unified Soil Classification:** SC-SM  
**Results:**  
Method ASTM D 698, Method C (manual)  
Maximum Dry Density 129.0 pcf  
Optimum Moisture Content 9.9 %

Sieve Analysis	
ASTM C136, C117	
% Passing	
1"	100
3/4"	98
3/8"	92
#4	83
#8	72
#16	59
#30	44
#100	16
#200	13.6

Specific Gravity (estimated): 2.70



AS A MUTUAL PROTECTION TO CLIENTS, THE PUBLIC AND OURSELVES, ALL REPORTS ARE SUBMITTED AS THE CONFIDENTIAL PROPERTY OF CLIENTS, AND AUTHORIZATION FOR PUBLICATION OF STATEMENTS, CONCLUSIONS OR EXTRACTS FROM OR REGARDING OUR REPORTS IS RESERVED PENDING OUR WRITTEN APPROVAL.

Material Testing Services, LLC

5 WM-15-426 Filed: 7/14/2015 Pages: 3  
Soil compaction test report

by



**Bauske, Shelly A.**

---

**From:** andersonr@gvtel.com  
**Sent:** Tuesday, July 14, 2015 9:52 AM  
**To:** Bauske, Shelly A.  
**Subject:** Soiltest report for Webster Scale  
**Attachments:** Webster Scale soil test report.pdf

Dear Shelly,

Attached is the soil compaction test report for the Webster truck scale site.

Regards,

Ron Anderson  
218 431 0264