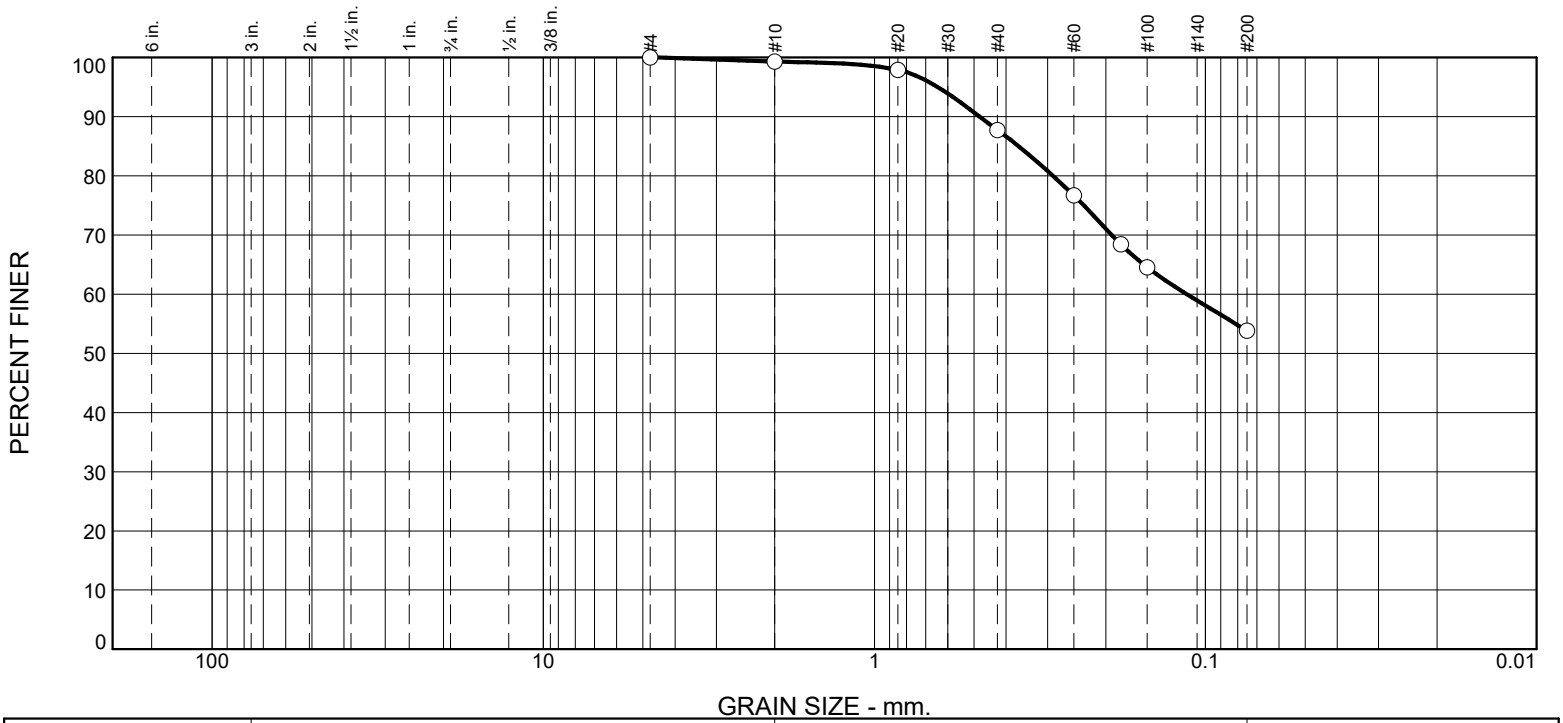
# Particle Size Distribution Report




| % +3" | % Gravel | % Sand | | % Fines |
|---|---|---|---|---|
| | | Coarse | Fine | Silt |
| 0 | 1 | 11 | 34 | 54 |

**Test Results (ASTM C117 & C136)**

| Sieve Size or Diam. (mm.) | Finer (%) | Spec.* (%) | Out of Spec. (%) |
|---|---|---|---|
| #4 | 100 | | |
| #10 | 99 | | |
| #20 | 98 | | |
| #40 | 88 | | |
| #60 | 77 | | |
| #80 | 68 | | |
| #100 | 65 | | |
| #200 | 54 | | |

* (no specification provided)

**Material Description**

Existing grey lean clay
plasticity assumed

**Sieve Test (ASTM C117 & C136)**

**Test Date:** 5/22/26 **Technician:** Sylvia Mack

**Test Notes**

Max Dry Density(ASTM D1557A):116.4 pcf @ 16.5% moisture

**Hydrometer Test**

**Test Date:** _____ **Technician:** _____

**Test Notes**

**Atterberg (ASTM D4318)**

**PL=** **LL=** assumed **PI=**

**Coefficients**

$D_{90}$= 0.4815 $D_{85}$= 0.3672
$D_{60}$= 0.1140 $D_{50}$=
$D_{30}$= $D_{15}$=
$D_{10}$=
$C_u$= $C_c$=

**USCS (ASTM D2487)**

**Date Sampled:** 5/13/26
**Date Received:** 5/14/26
**Checked By:** Stefan Mack, PE
**Title:** Engineer

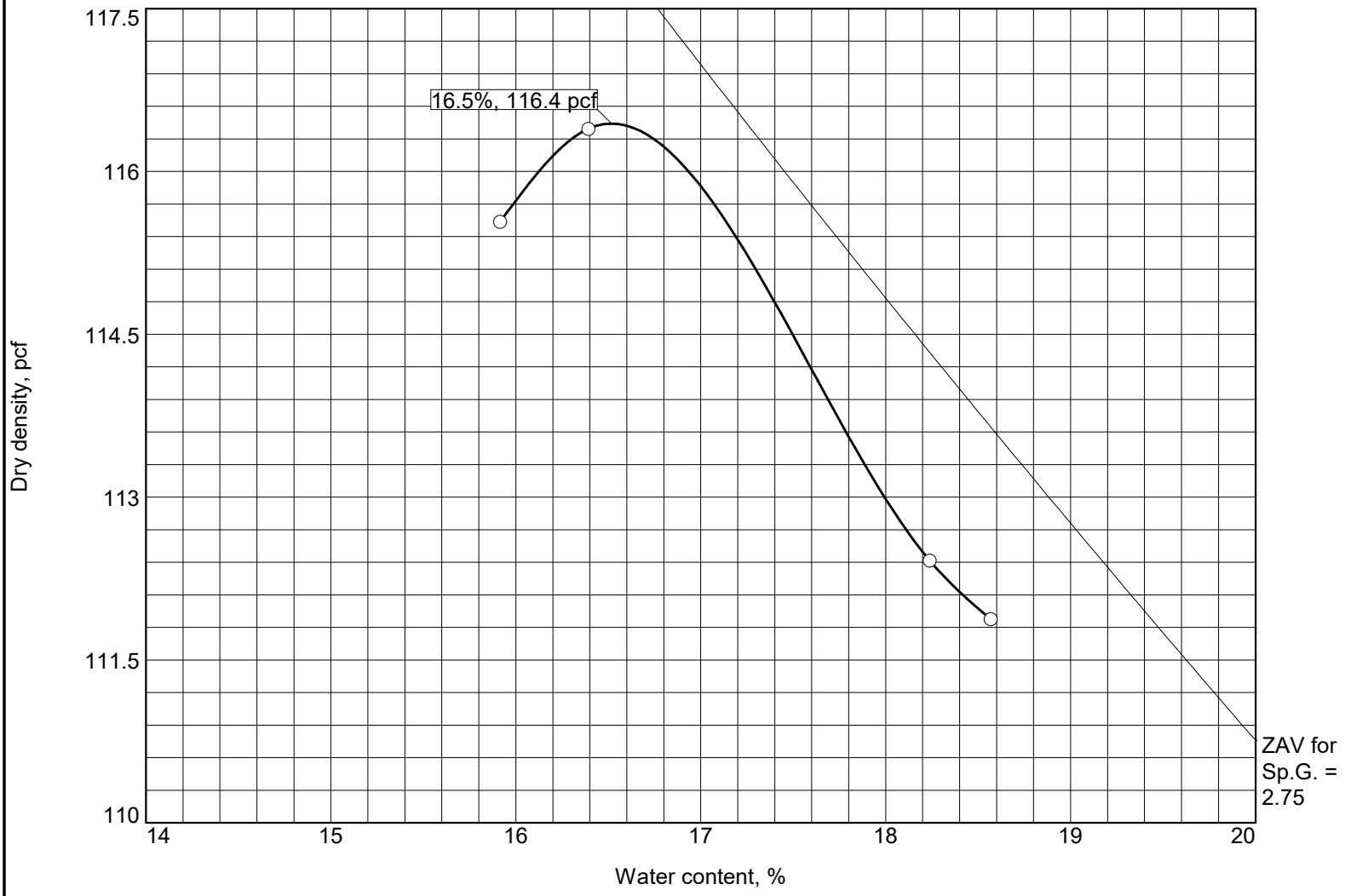
**Source of Sample:** Existing
**Sample Number:** 26-127


**MAPPA TESTLAB**
**1956 Richardson Highway**
**North Pole, Alaska 99705**


**Client:** Ames1, LLC
**Project:** WTS Glenallen
Glenallen, AK
**Project No:**

**Figure**

# COMPACTION TEST REPORT for Curve No. 26-127




Test specification: ASTM D 1557-12 Method A Modified

| Elev/ Depth | Classification | | Nat. Moist. | Sp.G. | LL | PI | % > #4 | % < No.200 |
|---|---|---|---|---|---|---|---|---|
| | USCS | AASHTO | | | | | | |
| | | | 19% | 2.70 | assumed | | 0 | 54 |

**TEST RESULTS**

Maximum dry density = 116.4 pcf

Optimum moisture = 16.5 %

**MATERIAL DESCRIPTION**

Existing grey lean clay
plasticity assumed

**Project No.** **Client:** Ames1, LLC

**Project:** WTS Glenallen

Glenallen, AK **Date:** 5/22/26

○ **Source of Sample:** Existing **Sample Number:** 26-127

**MAPPA TESTLAB**
**1956 Richardson Highway**
**North Pole, Alaska 99705**

**Remarks:**
specific gravity assumed

**Figure**

**Tested By:** Sylvia Mack **Checked By:** Stefan Mack, PE