



**ASTM D6938 In-Place Density and Water Content of Soil and
Soil-Aggregate by Nuclear Methods (Shallow Depth)**

**Project: EIE430 Repair Fire Protection Systems in Hangar
Eielson AFB, AK
Client: Alcan Builders, Inc.**

**Project #: 2025-013
Date: August 8, 2025
Area Tested: Fire Supression Line**

Material / Source:
2" Minus/ Mullins 144.0

**Gauge: Troxler 3440 Ser: # 23605
Operator: John Trush**

Test #	Soil Type	Test Depth(in)	Lift Elev	Location	Wet Density	% Moist.	Dry Density	Max Density	Percent Density	Required Density
1	2" minus	12	1	Fire Supression Line Backfill (see map)	143.1	4.6	136.8	144.0	95.0%	95%
2	2" minus	12	1	Fire Supression Line Backfill (see map)	143.8	4.9	137.1	144.0	95.2%	95%
3	2" minus	12	1	Fire Supression Line Backfill (see map)	146.3	6.4	137.5	144.0	95.5%	95%
4	2" minus	12	1	Fire Supression Line Backfill (see map)	144.6	5.6	136.9	144.0	95.1%	95%
5	2" minus	6	2	Fire Supression Line Backfill (see map)	145.5	4.7	139.0	144.0	96.5%	95%
6	2" minus	6	2	Fire Supression Line Backfill (see map)	145.8	4.6	139.4	144.0	96.8%	95%
7	2" minus	6	2	Fire Supression Line Backfill (see map)	145.5	5.0	138.6	144.0	96.2%	95%
8	2" minus	6	2	Fire Supression Line Backfill (see map)	144.7	4.8	138.1	144.0	95.9%	95%

Approved By: Stefan Mack Stefan Mack PE, Lab Manager