



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

**Project: FTW 405 Range Control
Fort Wainwright, AK
Client: Cornerstone General Contractors**

**Project #: 2025-091
Date: September 13, 2025
Area Tested: Cafeteria**

Material / Source:
CF- East Pile/ Range Pit 148.3

**Gauge: Instron 3500 Ser: # 898
Operator: Wayne Harding**

Test #	Soil Type	Test Depth(in)	Lift Elev	Location	Wet Density	% Moist.	Dry Density	Max Density	Percent Density	Required Density
1	CF	8	1	Cafeteria (see map)	152.1	7.2	141.9	148.3	95.7%	95%
2	CF	8	1	Cafeteria (see map)	155.7	6.8	145.8	148.3	98.3%	95%
3	CF	8	1	Cafeteria (see map)	155.0	7.1	144.7	148.3	97.6%	95%
4	CF	8	1	Cafeteria (see map)	153.5	7.6	142.7	148.3	96.2%	95%
5	CF	8	2	Cafeteria (see map)	151.4	6.7	141.9	148.3	95.7%	95%
6	CF	8	2	Cafeteria (see map)	151.8	7.4	141.3	148.3	95.3%	95%
7	CF	8	2	Cafeteria (see map)	151.7	6.8	142.0	148.3	95.8%	95%
8	CF	8	2	Cafeteria (see map)	151.5	7.1	141.5	148.3	95.4%	95%
9	CF	8	3	Cafeteria (see map)	152.8	7.9	141.6	148.3	95.5%	95%
10	CF	8	3	Cafeteria (see map)	152.5	7.2	142.3	148.3	95.9%	95%
11	CF	8	3	Cafeteria (see map)	152.5	7.7	141.6	148.3	95.5%	95%
12	CF	8	3	Cafeteria (see map)	152.4	7.4	141.9	148.3	95.7%	95%
13	CF	8	4	Cafeteria (see map)	151.3	7.2	141.1	148.3	95.2%	95%
14	CF	8	4	Cafeteria (see map)	151.3	6.6	141.9	148.3	95.7%	95%
15	CF	8	4	Cafeteria (see map)	151.1	6.7	141.6	148.3	95.5%	95%
16	CF	8	4	Cafeteria (see map)	151.5	6.5	142.3	148.3	95.9%	95%

Approved By: Stefan Mack Stefan Mack PE, Lab Manager