



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

**Project: Santaigo Ave
Fort Wainwright, AK
Client: Orion Construction**

**Project #: 2026-057
Date: August 21, 2026
Area Tested: Entrance**

Material / Source:
2" gravel/ Chesser pit
Exist gravel/ Exist

**146.1
145.6**

**Gauge: Instron 3500
Operator: John Trush**

Ser: # 1748

Test #	Soil Type	Test Depth(in)	Lift Elev	Location	Wet Density	% Moist.	Dry Density	Max Density	Percent Density	Required Density
1	2" gravel	6"	Curb grade	Building 3401 North Parking lot Entrance Curb Southwest Radius	145.3	4.6	138.9	146.1	95.1%	95%
2	2" gravel	6"	Curb grade	Building 3401 North Parking lot Entrance Curb Northwest Radius	145.8	4.3	139.8	146.1	95.7%	95%
3	2" gravel	6"	Curb grade	Building 3702 South Entrance Southwest Curb Radius	148.6	5.5	140.9	146.1	96.4%	95%
4	2" gravel	6"	Curb grade	Building 3702 South Entrance Northwest Curb Radius	147.4	5.0	140.4	146.1	96.1%	95%
5	exist gravel	6"	Curb grade	Building 3702 North Entrance Southwest Curb Radius	150.2	6.9	140.5	145.6	96.5%	95%
6	exist gravel	6"	Curb grade	Building 3702 North Entrance West Curb Radius	146.9	5.2	139.6	145.6	95.9%	95%
7	exist gravel	6"	Curb grade	Building 3700 Parking lot Entrance Southwest Curb Radius	146.8	5.8	138.8	145.6	95.3%	95%
8	exist gravel	6"	Curb grade	Building 3700 Parking lot Entrance Northwest Curb Radius	148.0	6.3	139.2	145.6	95.6%	95%
9	2" gravel	6"	1	Building 3711 North parking Entrance Northwest curb Radius	148.4	4.9	141.5	146.1	96.8%	95%



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Test #	Soil Type	Test Depth(in)	Lift Elev	Location	Wet Density	% Moist.	Dry Density	Max Density	Percent Density	Required Density
10	2" gravel	6"	1	Building 3711 North parking Entrance Southwest curb Radius	146.4	5.4	138.9	146.1	95.1%	95%
11	2" gravel	6"	Curb grade	Building 3711 South parking lot Entrance Northwest curb Radius	147.4	5.3	140.0	146.1	95.8%	95%
12	2" gravel	6"	Curb grade	Building 3711 South parking lot Entrance Southwest curb Radius	145.9	4.7	139.4	146.1	95.4%	95%
13	exist gravel	6"	Curb grade	Neely st. West side Northwest curb radius	150.6	6.7	141.1	145.6	96.9%	95%
14	exist gravel	6"	Curb grade	Neely st. West side Southwest curb radius	147.9	5.6	140.1	145.6	96.2%	95%
15	2" gravel	6"	Curb grade	Building 3711 Parking lot Northwest curb Radius	147.9	6.2	139.3	146.1	95.3%	95%
16	2" gravel	6"	Curb grade	Building 3711 Parking lot Southwest curb Radius	147.9	5.7	139.9	146.1	95.8%	95%