



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

**Project: FTW475 Front Gate  
Fort Wainwright, AK  
Client: Eklutna Construction**

**Project #: 2025-063  
Date: September 19, 2025  
Area Tested: Gaffney Road Lanes**

**Material / Source:  
Screened Pitrun/ Metro 144.5**

**Gauge: Instrotek 3500  
Operator: Wayne Harding**

**Ser: # 898**

Test #	Soil Type	Test Depth(in)	Lift Elev	Location	Wet Density	% Moist.	Dry Density	Max Density	Percent Density	Required Density
1	SC pitrun	6	sub base	Gaffney Road Lanes (see map)	145.0	5.5	137.4	144.5	95.1%	95%
2	SC pitrun	6	sub base	Gaffney Road Lanes (see map)	145.7	5.9	137.6	144.5	95.2%	95%
3	SC pitrun	6	sub base	Gaffney Road Lanes (see map)	147.9	6.5	138.9	144.5	96.1%	95%
4	SC pitrun	6	sub base	Gaffney Road Lanes (see map)	146.4	6.5	137.5	144.5	95.1%	95%
5	SC pitrun	6	sub base	Gaffney Road Lanes (see map)	148.5	6.7	139.2	144.5	96.3%	95%
6	SC pitrun	6	sub base	Gaffney Road Lanes (see map)	145.1	4.9	138.3	144.5	95.7%	95%
7	SC pitrun	6	sub base	Gaffney Road Lanes (see map)	146.6	6.2	138.0	144.5	95.5%	95%
8	SC pitrun	6	sub base	Gaffney Road Lanes (see map)	146.1	6.0	137.8	144.5	95.4%	95%
9	SC pitrun	6	sub base	Gaffney Road Lanes (see map)	146.5	5.4	139.0	144.5	96.2%	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	SC pitrun	6	sub base	Gaffney Road Lanes (see map)	146.3	6.1	137.9	144.5	95.4%	95%



