

# UNCOMPACTED VOID CONTENT OF FINE AGGREGATE

North Dakota Department of Transportation, Materials & Research

SFN 51701 (5-2019)

|               |                     |
|---------------|---------------------|
| Project       | PCN                 |
| District      | Engineer            |
| Contractor    | Submitted By        |
| Date Sampled  | Material            |
| Specification | Size or Class       |
| Sample From   | Field Sample Number |

## Pit Location

|           |           |
|-----------|-----------|
| Sand      | Gravel    |
| Aggregate | Pit Owner |

|  |  |  |          |
|--|--|--|----------|
| Sample Number  |  |  |          |
| Dry bulk specific gravity (G)                                    |  |  |          |
| Volume of cylinder, mL (V), SFN 51729                            |  |  |          |
| Weight of cylinder, gram (A)                                     |  |  |          |
| Wt. of cylinder + aggregate, gram (B)                            |  |  |          |
| Wt. of aggregate, gram (F) = B - A                               |  |  | Average* |
| Uncompacted void content<br>$U = \frac{V - (F/G)}{V} \times 100$ |  |  |          |

\*round and report to whole number

|                              |         |
|------------------------------|---------|
| ND T 304, Method A Tested by | Tech ID |
|------------------------------|---------|

| Sieve Size       | Mass, gram |
|------------------|------------|
| No. 16 (1.18mm)  | 44         |
| No. 30 (600 μm)  | 57         |
| No. 50 (300 μm)  | 72         |
| No. 100 (150 μm) | 17         |
| Total            | 190        |