|  |  |
| --- | --- |
| DOTLOGO2 | **Field Soil Compaction (Nuclear)** |
| Airport: |       |  | Consultant: |       |
| Illinois Project: |       |  | Contractor: |       |
| A.I.P. Project: |       |  |
|  |
|  | Elevation |
| Test Date | Test No. | Station | Ref. | Type Const. | Type Insp. | Original ID No. | Grnd | Grade | Test |
| A |       |       |       |       |       |       |       |       |       |       |
| B |       |       |       |       |       |       |       |       |       |       |
| C |       |       |       |       |       |       |       |       |       |       |
| D |       |       |       |       |       |       |       |       |       |       |
| E |       |       |       |       |       |       |       |       |       |       |
| F |       |       |       |       |       |       |       |       |       |       |
| G |       |       |       |       |       |       |       |       |       |       |
|  |
| Material Source | Soil Type | Test Method | Opt.H2O | ActualH2O | Standard Proctor | ActualDensity | %Std. | Min. Spec. | Results |
| A |       |       | **NUC** |       |       |       |       |       |       |       |
| B |       |       | **NUC** |       |       |       |       |       |       |       |
| C |       |       | **NUC** |       |       |       |       |       |       |       |
| D |       |       | **NUC** |       |       |       |       |       |       |       |
| E |       |       | **NUC** |       |       |       |       |       |       |       |
| F |       |       | **NUC** |       |       |       |       |       |       |       |
| G |       |       | **NUC** |       |       |       |       |       |       |       |
|  | A | B | C | D | E | F | G |
| 1. Moisture Reading C.P.M. A.
 |       |       |       |       |       |       |       |
|  B. |       |       |       |       |       |       |       |
|  C. |       |       |       |       |       |       |       |
|  Avg. |       |       |       |       |       |       |       |
| 1. Moisture Standard Count
 |       |       |       |       |       |       |       |
| 1. Moisture Count Ratio (1 / 2)
 |       |       |       |       |       |       |       |
| 1. Density Depth
 |       |       |       |       |       |       |       |
| 1. Wet Density Reading C.P.M.
 |       |       |       |       |       |       |       |
|  A. |       |       |       |       |       |       |       |
|  B. |       |       |       |       |       |       |       |
|  C. |       |       |       |       |       |       |       |
|  Avg. |       |       |       |       |       |       |       |
| 1. Density Standard Count
 |       |       |       |       |       |       |       |
| 1. Density Count Ratio (5 / 6)
 |       |       |       |       |       |       |       |
| 1. Actual Wet Density #/Cu. Ft.
 |       |       |       |       |       |       |       |
| 1. Actual Moisture #/Cu. Ft.
 |       |       |       |       |       |       |       |
| 1. Actual Dry Dens. #/Cu. Ft. (8 - 9)
 |       |       |       |       |       |       |       |
| 1. Actual Moisture (9 / 10) x 100
 |       |       |       |       |       |       |       |
| 1. Wt. Mold + Soil
 |       |       |       |       |       |       |       |
| 1. Wt. Mold
 |       |       |       |       |       |       |       |
| 1. Net Weight Soil (12 - 13)
 |       |       |       |       |       |       |       |
| 1. Wet Density #/Cu. Ft.
 |       |       |       |       |       |       |       |
| 1. Dry Density #/Cu. Ft.
 |       |       |       |       |       |       |       |
| **(Moisture Data)** |  |  |  |  |  |  |  |
| 1. Initial Soil / P (Wet)
 |       |       |       |       |       |       |       |
| 1. Final Soil / P (Dry)
 |       |       |       |       |       |       |       |
| 1. Moisture Loss (17 - 18)
 |       |       |       |       |       |       |       |
| 1. Tare Weight
 |       |       |       |       |       |       |       |
| 1. Net Dry Soil (18 - 20)
 |       |       |       |       |       |       |       |
| 1. % Moisture (19 / 21)
 |       |       |       |       |       |       |       |
|  |
| Remarks: |       |  | Inspector: |  |
|  |
|       |  | Res. Engineer: |  |

The original signed copy of this form must be submitted to the Illinois Department of Transportation, Division of Aeronautics, 1 Langhorne Bond Drive, Springfield, IL 62707-8415, Attn: Materials/Construction. To expedite processing, this completed signed form may be scanned and emailed to aeromatcon@dot.il.gov or faxed to 217/785-4533.

 AER 17 (Rev. 10/06)

 (Formerly AERM-17)