

MARYLAND STATE HIGHWAY ADMINISTRATION
NUCLEAR D/M COMPACTION REPORT

Gauge Model: _____ Gauge Serial No.: _____

Contract No.: _____

F.A.P.No.: _____

Date: _____

Operator: _____

Standard Count: Moisture: MS _____

Density DS: _____

Average of four previous counts: Moisture MS: _____

Density DS: _____

TEST SITE DATA	1. FIELD TEST NUMBER								
	2. TYPE MATERIAL & C.Y. THIS FILL								
	3. SOURCE								
	4. STATION								
	5. ITEM NO.								
	6. DISTANCE TO CENTER LINE or BASE LINE								
	7. HEIGHT TO FINAL GRADE								

IN - PLACE MOISTURE & DENSITY	8. MEASURED COUNT, MC								
	9. WEIGHT OF MOISTURE, M, PCF.								
	10. MOISTURE CONTENT, % M (NOTES 1, 2)								
	11. MOISTURE CORRECTION (NOTE 2)								
	12. MEASURED COUNT, DC								
	13. WET WEIGHT, WD, PCF.								
	14. DRY WEIGHT, DD, PCF.								

COMPACTION	15. MAXIMUM DRY DENSITY FROM CHART (NOTE 3) , PCF								
	16. OPTIMUM MOISTURE FROM CHART, % (NOTE 3)								
	17. COMPACTION REQUIRED, % (NOTE 4)								
	18. COMPACTION OBTAINED, %								

SITE DATA	19. FIELD TEST NUMBER								
	20. COLOR (primary followed by secondary, if any i.e. red/white streaks)								
	21.FIELD DESCRIPTION(i.e. texture, such as sandy clay w/gravel or clayey silt w/mica)								
WET DENSITY VERIFICATION	22.PERCENT PASSING # 4 SCREEN (if $\leq 65\%$ use MSMT 351 method D)								
	23. WEIGHT OF MOLD & WET SOIL , LBS.								
	24. WEIGHT OF MOLD, LBS.								
	25. WEIGHT OF WET SOIL(L 23 - L24) , LBS								
	26. WET DENSITY OF SOIL IN MOLD (L25 x 30) , P.C.F.								
	26A. MAX DRY DENSITY FROM CHART, P.C.F.								
	26B. OPTIMUM MOISTURE FROM CHART,%								

TRUE MOISTURE	27. WEIGHT OF WET SOIL & TARE, LBS								
	28. WEIGHT OF DRY SOIL & TARE, LBS								
	29. WEIGHT OF TARE, LBS.								
	30. WEIGHT OF DRY SOIL(L28 - L29), LBS.								
	31. WEIGHT OF MOISTURE (L27 - L28), LBS.								
	32. MOISTURE, % (L31 \div L30) x 100								

NOTES	Note: 1. % moisture should not vary more than $\pm 2\%$ between 2 tests on same grade taken within same 4 hour shift. If % moisture varies, it indicates possible changes in material.
	Note: 2. % of moisture should not exceed true moisture by more than 2%. If it does, then moisture correction is required.
	Note: 3. MDD & Opt. moisture are obtained from typical curve or family of curves for source material per line #3, and verified by plotting results of MSMT 351 from line #26 and against the typical curve or by plotting against the result of a field five-step moisture-density determination for materials not previously identified.
	Note: 4. Refer to Contract Specs or Md Standard Spec. to obtain % compaction required for type material recorded on line #2.