

REPORT ON COMPACTION DENSITY BY NUCLEAR METHOD-CONTRACTOR FORM

Fill Out Completely. Original to be retained with project records. Remit copy to District Office

County: Manufacturer: Manufacturer:	ECMS No.: SR – Section:						Embankment Subgrade Pipe Backfill Other:			
Model Number: Date of Annual Calibration Report Specific Gravity, SG:	District:						GAUGE IDENTIFICATION: (Reference PTM No. 418)			
Date of Annual Calibration:	County:						Manufacturer:			
Material Source	Date:						Model Number:			
Material Source Specific Gravity, SG: Second Specific Gravity, SG: Spec							Date of Annual C	Calibration:		
Material Source Specific Gravity, SG: Specific Gravity Source (%): Specific Gravity Source (%): Specific Gravity Source (%): Specific Gravity Source (%): Specific Gravity Speci	FILL MATERIAL: (Reference Pub. 408, Sec. 206)									
Specific Gravity, SG:	Material	Source	э:				Effective Month:		Calibration Report	<u>.)</u>
Passing 3/8 Sieve (%):	Specific	Gravity	, SG:							
Passing No. 200 Sieve (%6):	Passing	3/8 Sie	eve (%):							
Material Type Chosek one Type Granular: Soli: Standard Date: Standard Date: Standard Date: Standard Date: Standard Date: Standard Date: Standard Moisture Count: Standard Moisture Count	Passing No. 200 Sieve (%):									
Maximum Proctor Density (pcf) *:							<u> </u>			
Optimum Proctor Moisture (%) *:									ATION: /Deference	o DTM No. 410\
Required Min. Compaction (ye Proctor):	, , , , , , , , , , , , , , , , , , ,									
Standard Moisture Count: Standard Moisture Moisture; Standard Moisture Moisture; Standard Moisture Moisture; Standard Moisture Moisture; Standard Moisture Count: Standard Moisture: Standard M		. , ,								
Test Identification Number: Test Elevation (feet):										
Test Identification Number: Test Elevation (feet):	nequired win. Compaction (pcr):						Standard Moistu	re Count:		
Test Identification Number: Test Elevation (feet):					TEST	LOCATIONS: (F	Reference PTM No	o. 402)		
Offset: Final Subgrade Elevation (feet): Source Rod Position (inches) **: Final Subgrade Elevation (feet): Test Time (start): TEST LOCATIONS: (Reference PTM No. 402) Density Count (Shift + Counts) Reading 1 (0°) Reading 2 (90°) Reading 3 (180°) Reading 4 (270°) Average Tolerances? (for N)*** Density Count (Shift + Counts) Image: Count (Shift + Counts)										
Test Time (start): Test	Station:						Compacted Lift Height (inches):			
C C Est	Offset:						Source Rod Position (inches) **:			
QC Test Acceptance Test Reading 1 (0°) Reading 2 (90°) Reading 3 (180°) Reading 4 (270°) Average Meets Tolerances? (Y or N)*** Density Count (Shift + Counts) Image: Counts (Shift + Counts)	Final Subgrade Elevation (feet):						Test Time (start):			
QC Test Acceptance Test Reading 1 (0°) Reading 2 (90°) Reading 3 (180°) Reading 4 (270°) Average Meets Tolerances? (Y or N)*** Density Count (Shift + Counts) Image: Counts (Shift + Counts)										
GC Test Acceptance Test Heading 1 (0°) Heading 2 (90°) Heading 3 (180°) Heading 4 (270°) Average Tolerances? (Y or N)*** Density Count (Shift + Counts) — — — — Wet Density, WD (pcf) — — — — ΔWD from Average — — — — Moisture, (pcf) — — — — Dry Density, DD (pcf) — — — — Moisture, w (%) — — — — Δw (%) from Average — — — — % of Proctor Density (%) — — — — Zero Air Voids (ZAV) Formula: 62.4 / DD - 1/SG ≥ w% Show calculation: Fail: — ZAV Check: Yes: No: Pass: Fail:				_	TEST	LOCATIONS: (F	Reference PTM No	. 402)		
Wet Density, WD (pcf) ΔWD from Average – – – Moisture Count (Shift + Counts) – – – – Moisture, (pcf) – – – – Dry Density, DD (pcf) – – – – Moisture, w (%) – – – – Δw (%) from Average – – – – % of Proctor Density (%) show calculation: Show calculation: Zero Air Voids (ZAV) Formula: Yes: No: Pass: Fail: Remarks: – – – –					0				Average	Tolerances?
ΔWD from Average - - Moisture Count (Shift + Counts) - - Moisture, (pcf) - - Dry Density, DD (pcf) - - Moisture, w (%) - - Δw (%) from Average - - % of Proctor Density (%) - show calculation: Zero Air Voids (ZAV) Formula: 62.4 / DD - 1/SG ≥ w% show calculation: ZAV Check: Yes: No: Pass: Fail: Remarks:	Density	Count	(Shift + Counts)						_	_
Moisture Count (Shift + Counts) —	Wet Den	nsity, W	'D (pcf)							
Moisture, (pcf) — — — Dry Density, DD (pcf) — — — Moisture, w (%) — — — Δw (%) from Average — — — % of Proctor Density (%) — — — Zero Air Voids (ZAV) Formula: 62.4 / DD - 1/SG ≥ w% Show calculation: ZAV Check: Yes: No: Pass: Fail: Remarks: — — —	ΔWD fro	om Ave	rage						_	_
Dry Density, DD (pcf) Moisture, w (%) —	Moisture Count (Shift + Counts)								_	_
Moisture, w (%) Δw (%) from Average – – – % of Proctor Density (%) Show calculation: Show calculation: Zero Air Voids (ZAV) Formula: 62.4 DD - 1 SG ≥ w% Show calculation: ZAV Check: Yes: No: Pass: Fail: Remarks: Fail:	Moisture, (pcf)								_	_
Δw (%) from Average —	Dry Density, DD (pcf)									
% of Proctor Density (%) Zero Air Voids (ZAV) Formula: $\frac{62.4}{DD} - \frac{1}{SG} \ge w\%$ Show calculation: ZAV Check: Yes: No: Pass: Fail: Remarks:	Moisture, w (%)									
Zero Air Voids (ZAV) Formula: $\frac{62.4}{DD} - \frac{1}{SG} \ge w\%$ show calculation: ZAV Check: Yes: No: Pass: Fail: Remarks:	Δw (%) from Average								_	_
Zero Air Voids (ZAV) Formula: $\frac{62.4}{DD} - \frac{1}{SG} \ge w\%$ ZAV Check: Yes: No: Pass: Fail: Remarks:	% of Pro	octor D	ensity (%)							
Remarks:	Zero Air	Voids	(ZAV) Formula:	$\frac{62.4}{DD} - \frac{1}{SG} \ge w\%$			show calculation:			
	ZAV Che	eck:		Yes:		No:	Pass:		Fail:	
Name of Gauge Operator: Cert. Number:	Remarks	s:								
	Name of	Name of Gauge Operator:						Cert. Number	:	

- ** For Backscatter Mode, enter 0.
- *** If final averages exceed tolerances, a new location is to be tested

^{*} Use data as shown on applicable Form TR-4247