

SOIL & AGGREGATE TABULATION MATERIALS SURVEY

44-9351 R03/16 azdot.gov					
USE CAPITAL LETTERS	PUR-				
LAB NUMBER MATL		TEST NO.		ED BY	
	I = INVEST R = RESEARCH	Ť			
MONTH DAY YEAR MODE DE	ESC. DESC. FRO	M	то		
		DWY C/L	STATION		
PROJECT NUMBER PROJECT NAME					
REMARKS					
A DIZ 201					
ARIZ 201	SAMPLED FROM		PIT. NO.	MILEPOST	
+ 3" + 6" COARSE FACTOR	T = AASHTO TESTS D = AST	A TESTS	TEST OPERATOR & DATE PERFORME Coarse Sieve	D	
• • • • • • • • • • • • • • • • • • •	Liquid Limit (LL) T- 89		Fine Sieve		
WET SAMPLE PREWEIGHT =	Plastic Limit (PL) T -	90	P.I Sand Equiv.		
WET WT. OF - #4 =	Plasticity Index (PI) = LL-PL T -	90	Abrasion		
- #4 SPLIT WET WT =	T - 176		Coarse Sp. Gr.		
······	Sand Equivalent ARIZ 242 (MARC)		Proctor Moisture		
WEIGHTS RETAINED %RET %PASS	Abrasion Method (A,B,C,D)	1 - 96	pH		
3"	@ 100 Revolutions	%	Resistivity R- Value		
2 ½"	@ 200 Revolutions	%	Hydrometer		
2"	ARIZ 210	%	Sulfate Content		
	ARIZ 210		Misc. Test s (Code)		
	Specific Gravity, OD ARIZ 211	,			
1"	Proctor Method		1		
3/4"	Optimum Moisture	o %			
1/2"	Max. Dry Density	• PCF	A - ARIZ 225 AD – ARIZ 245 C – ARIZ 226 A1 - ARIZ 232		
3/8"	Moisture Content (see back) T- 265	o %	D – ARIZ 226 AD1 – ARIZ 246		
1/4"	pH ARIZ 236 OR ARIZ 237				
4	Resistivity (ohm-cm) ARIZ 236				
#8	R-Value @ 300 psi T -1	90			
- #8	Hydrometer T 88 (Smaller than 0.02 mm)	9 %	MISC. TEST CO	DDES	
Total	(Smaller than 0.02 mm)	%	01 Soluble Salts	ARIZ 237	
IF TOTAL SAMPLE IS WASHED:	(Smaller than 0.02 mm)	%	02 Organic Impurities	T 71	
NWASHED WT. =	Chloride Content ARIZ 736	PPM	03 Sodium Sulfate Soundness	T 104	
ASHED WT. =	Sulfate Content ARIZ 733	PPM	04 Swell	D 4546	
LUTRIATION = MISCELLANEOUS TESTS 05 Shear D 3080				D 3080	
DRY WT. OF -#4 SPLIT FINE FACTOR	= Test Code		06 Consolidation	D 2435	
	= Test Code		07 % Carbonates	ARIZ 238	
WEIGHTS RETAIND %RET %PASS	= Test Code		08 % Cement		
#8	= Test Code		09 % Lime		
#10	NOTE: Input decimal point a	s needed	11 Unit (loose) Weight	T 19	
#16	for results on miscell	aneous tests.	13 Permeability	T 215	
#30			14 Freeze- Thaw	T 136	
#40			15 CBR	T 193	
#50			16 Flakiness index	ARIZ 233	
#100			17 Fractured C.A. Particles	ARIZ 212	
#200			18 Unconfined Compression	T 208	
-#200			19 Triaxial Shear	T 234	
Total Dry 20 Dry Unit Weight 20					
Elutriation			21 Organic Content	T 267	

MATERIALS SURVEY CODES

	INVESTIGATIVE MODE CODES	MATERIAL DESCRIPTION CODES
01	Backhoe	01 Basalt (Malpais)
02	D&S - Backhoe	02 Cinders
03	D&S - Backhoe - Fines wasted	03 Andesite or rhyolite
04	Backhoe - Fines wasted	04 Tuff or compacted ash
05	Face Sample - Backhoe	05 Diabase
06	Backhoe - Crushed	06 Granite
07	D&S - Backhoe - Crushed	07 Disintegrated (Decomposed) Granite
08	D&S - Backhoe - Fines wasted - Crushed	08 Slate
09	Backhoe – Fines wasted – Crushed	09 Schist
10	Face Sample – Backhoe - Crushed	10 Quartzite
		11 Shale
21	Hand shovel	12 Siltstone
22	D&S - Hand shovel	13 Sandstone
23	D&S - Hand shovel - Fines wasted	14 Conglomerate
24	Hand shovel - Fines wasted	15 Limestone
25	Face Sample - Hand shovel	16 Chert (Flint)
26	Hand shovel - Crushed	17 Caliche
27	D&S - Hand shovel - Crushed	20 Sand and gravel, with cobbles or boulders.
28	D&S - Hand shovel - Fines wasted - Crushed	21 Silty-Sand and gravel, with cobbles or boulders.
29	Hand shovel - Fines wasted - Crushed	22 Clayey-Sand and gravel, with cobbles or boulders.
30	Face Sample - Hand shovel - Crushed	23 Sand and gravel
		24 Silty-Sand and gravel
35	2" Drill hole	25 Clayey-Sand and gravel
		26 Sand
41	4″ Auger	27 Silty-Sand
42	4" Auger - Fines wasted	28 Clayey-Sand
43	4" Auger - Crushed	29 Sandy Slit
44	4" Auger - Fines wasted - Crushed	30 Silt
50		31 Clayey Silt
50	4 ^y ₂ Drill hole	32 Clay or silty-clay, gravely
	C " A	33 Clay or silty-clay, sandy
55	6" Auger	34 Clay or silty-clay
50	6" Auger - Fines Wasted	35 Clay
5/	6 Auger - Crushed	
58	6 Auger - Fines Wasted - Crushed	
60 61	8" Auger Fines wasted	
62	8 Auger - Filles Wasteu	- /
62	8" Auger Fines wasted - Crushed	= () () () () () () () () () (
03	o Auger-Times wasted - crushed	
70	2' Square Jackhammer Sample	= % (Record to the nearest
71	4" Core	0.1 percent)
72	6" Core	
73	8″ Core	
74	12" Core	

SG = SUBGRADE SB= STRUCTURE BACKFULL NG = NATURAL GROUND BM = BEDDING MATERIAL AB = AGGREGATE BASE CM= COVER MATERIAL MA = MINERAL AGGREGATE CA = COARSE AGGREGATE FA = FINE AGGREGATE AG = AGGREGATE EM = EMBANKMENT

CS = CEMENT TREATED SUBGRADE RR = RIP RAP BO = BORROW TS = TOP SOIL BF = BACKFILL AC = ASPHALTIC CONCRETE BB = BITUMINOUS TREATED BASE FC = ACFC FM = ROAD MIX RC = RECYCLED ASPHALTIC CONCRETE

NB = NORTH BOUND SB = SOUTH BOUND ETC RA = RAMP A RB = RAMP B ETC FR = FRONTAGE ROAD XR = CROSS ROAD

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