ARIZONA DEPARTMENT OF TRANSPORTATION

SOIL AND AGGREGATE TABULATION

USE CAPITAL LETTERS

LAB NUMBER	ORG NUMBER	MATL	TYPE	PUR-POSE	TEST LAB	SIZE	SIZE %

TEST NO.	LOT OR SUFFIX	SAMPLED BY	MO	DAY	YEAR	TIME
1		Brent Cline (Gila County)	03	02	15	MILITARY TIME

SAMPLED FROM: Plant

LIFT NO. | RDWY | STATION + (IF MILEPOST, INPUT DECIMAL)

ORIGINAL SOURCE: Hatch

PROJECT ENGINEER / SUPERVISOR | PROJECT NUMBER | TRACS NUMBER

REMARKS

Gradation, PI - Testing done per Brent Clines Request
(Material was known as Class 6 only)
(Gila County Material)

ARIZ 201
- ☐ Dried to Constant Wt.
- ☐ Not Dried to Constant Wt.

ARIZ 248
- ☐ Alt. 1 ☐ Alt. 2 ☐ Alt. 3
- ☐ Alt 4 ☐ Alt 5

% OVERSIZE: +3" | +6"

COARSE FACTOR: 009713 = 100 / COARSE SIEVE TOTAL

WET SAMPLE PREWEIGHT =
WET WT. OF -#4 =
-#4 SPLIT WET WT. =

	WEIGHTS RETAINED	% RET.	% PASS	SPECS.	CUMULATIVE % RET. FINENESS MODULUS
3"					
2 1/2"					
2"					
1 1/2"					
1"		18	100		
3/4"	532	5	95		
1/2"	1264	12	83		
3/8"	717	7	76		
1/4"	984	10	66		
#4	573	6			
-#4	6226		60		
Total	10296				

IF TOTAL SAMPLE IS WASHED:
UNWASHED WT. = 532
WASHED WT. = 434
ELUTRIATION = 98

DRY WT. OF-#4 SPLIT: 532

FINE FACTOR: 112782 = % PASS #4 / DRY WT. OF -#4 SPLIT

	WEIGHTS RETAINED	% RET.	% PASS	SPECS.
#8	95	11	49	
#10	19	2	47	
#16	60	7	40	
#30	98	11	29	
#40	50	5	24	
#50	46	6	18	
#100	45	5	13	
#200	19	2		
-#200	2		11.3	
Total	434 (Dry Weight)			
Elutriation	98			

FINENESS MODULUS = TOTAL CUMULATIVE % RET. / 100

T = AASHTO Tests

			SPECS.
Liquid Limit (LL)	T - 89	29	
Plastic Limit (PL)	T - 90	18	
Plasticity Index (PI) = LL - PL	T - 90	11	
Abrasion Method (A,B,C,D)	T - 96		
@ 100 Revolutions		%	%
@ 500 Revolutions		%	%
Absorption, H_2O	ARIZ 210 ARIZ 211	%	
Specific Gravity, SSD	ARIZ 210 ARIZ 211		
Specific Gravity, OD	ARIZ 210 ARIZ 211		
Specific Gravity, Apparent	ARIZ 210 ARIZ 211		
Proctor Method			A - ARIZ 225, C - ARIZ 226, D - ARIZ 226, AD - ARIZ 245, A1 - ARIZ 232, AD1 - ARIZ 246
Optimum Moisture		%	
Max. Dry Density		PCF	
Sand Equivalent	T - 176 ARIZ 242 (MAFC)		
At Least One Fractured Face	ARIZ 212	%	%
At Least Two Fractured Faces	ARIZ 212	%	%
Uncompacted Void Content	ARIZ 247	%	%
Moisture Content	T - 255 T - 265	%	
Flakiness Index	ARIZ 233	%	%
Carbonates	ARIZ 238	%	%
pH	ARIZ 236 OR 237		
Resistivity (ohm-cm)	ARIZ 236		
Soluable Salts (PPM)	ARIZ 237		
Unit Weight	T - 19	PCF	
Hydrometer T 88	(Smaller than 0.02 mm)	%	
	(Smaller than 0.002 mm)	%	
	(Smaller than 0.001 mm)	%	
Chloride Content (PPM)	ARIZ 736		
Sulfate Content (PPM)	ARIZ 733		
Exchangeable Sodium (%)	ARIZ 729		
Exchangeable Sodium (PPM)	ARIZ 729		

WHITE ☐
YELLOW ☐
BLUE ☐

03-02-15 RECEIVED DATE

Richard Franco 3-5-15 TEST OPERATOR & DATE

3-5-15 SUPERVISOR & DATE

44-9353 R03/07

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TEST NO.	LOT OR SUFFIX	SAMPLED BY	MO	DAY	YEAR	TIME
1		Brent Cline	03	02	15	MILITARY TIME

SAMPLED FROM (Gila County) Plant

LIFT NO.	RDWY	STATION
		+ IF MILEPOST, INPUT DECIMAL

ORIGINAL SOURCE	PROJECT ENGINEER / SUPERVISOR	PROJECT NUMBER	TRACS NUMBER
Reid head			

REMARKS

Gradation, PI - Testing done per Brent Cline's Request
(Material was known as Class 6 only)
(Gila County Material)

ARIZ 201
- ☐ Dried to Constant Wt.
- ☐ Not Dried to Constant Wt.

ARIZ 248
- ☐ Alt. 1 ☐ Alt. 2 ☐ Alt. 3
- ☐ Alt 4 ☐ Alt 5

% OVERSIZE: +3" ____ +6" ____

COARSE FACTOR .008242 = 100 / COARSE SIEVE TOTAL

WET SAMPLE PREWEIGHT= ____
WET WT. OF -#4= ____
-#4 SPLIT WET WT. = ____

	WEIGHTS RETAINED	% RET.	% PASS	SPECS.	CUMULATIVE % RET. FINENESS MODULUS
3"					
2 1/2"					
2"					
1 1/2"		0	100		
1"	68	1	99		
3/4"	1260	10	89		
1/2"	1567	13	76		
3/8"	862	7	69		
1/4"	1080	9	60		
#4	596	5			
-#4	6700		55		
Total	12133				

IF TOTAL SAMPLE IS WASHED:
UNWASHED WT. = 580
WASHED WT. = 479
ELUTRIATION = 101

DRY WT. OF-#4 SPLIT: 580

FINE FACTOR .094828 = % PASS #4 / DRY WT. OF -#4 SPLIT

	WEIGHTS RETAINED	% RET.	% PASS	SPECS.
#8	90	9	46	
#10	18	1	45	
#16	52	5	40	
#30	92	9	31	
#40	55	6	25	
#50	56	5	20	
#100	75	7	13	
#200	37	3		
-#200	2		9.8	
Total	479			
Elutriation	101			

Dry Weight

FINENESS MODULUS = TOTAL CUMULATIVE % RET. / 100

T = AASHTO Tests

			SPECS.
Liquid Limit (LL)	T - 89	20	
Plastic Limit (PL)	T - 90	14	
Plasticity Index (PI) = LL - PL	T - 90	6	
Abrasion Method (A,B,C,D)	T - 96		
@ 100 Revolutions		%	%
@ 500 Revolutions		%	%
Absorption, H_2O	ARIZ 210 ARIZ 211	%	
Specific Gravity, SSD	ARIZ 210 ARIZ 211		
Specific Gravity, OD	ARIZ 210 ARIZ 211		
Specific Gravity, Apparent	ARIZ 210 ARIZ 211		
Proctor Method			A - ARIZ 225 C - ARIZ 226 D - ARIZ 226 AD - ARIZ 245 A1 - ARIZ 232 AD1 - ARIZ 246
Optimum Moisture		%	
Max. Dry Density		PCF	
Sand Equivalent	T - 176 ARIZ 242 (MAFC)		
At Least One Fractured Face	ARIZ 212	%	%
At Least Two Fractured Faces	ARIZ 212	%	%
Uncompacted Void Content	ARIZ 247	%	%
Moisture Content	T - 255 T - 265	%	
Flakiness Index	ARIZ 233	%	%
Carbonates	ARIZ 236	%	%
pH	ARIZ 236 OR 237		
Resistivity (ohm-cm)	ARIZ 236		
Soluable Salts (PPM)	ARIZ 237		
Unit Weight	T - 19	PCF	
Hydrometer T 88 (Smaller than 0.02 mm)		%	
(Smaller than 0.002 mm)		%	
(Smaller than 0.001 mm)		%	
Chloride Content (PPM)	ARIZ 736		
Sulfate Content (PPM)	ARIZ 733		
Exchangeable Sodium (%)	ARIZ 729		
Exchangeable Sodium (PPM)	ARIZ 729		

WHITE ☐
YELLOW ☐
BLUE ☐

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TEST NO.	LOT OR SUFFIX	SAMPLED BY	MO DAY YEAR	TIME (MILITARY TIME)
1		Brent Cline	03 02 15	

SAMPLED FROM	LIFT NO.	RDWY	STATION (IF MILEPOST, INPUT DECIMAL)
Plant (Gila County)			

ORIGINAL SOURCE	PROJECT ENGINEER / SUPERVISOR	PROJECT NUMBER	TRACS NUMBER
Brimhall			

REMARKS

Gradation, PI - Testing done per Brian Clines Request
Material was Known as class 6 only
(Gila County Material)

ARIZ 201
☐ Dried to Constant Wt.
☐ Not Dried to Constant Wt.

ARIZ 248
☐ Alt. 1 ☐ Alt. 2 ☐ Alt. 3
☐ Alt 4 ☐ Alt 5

% OVERSIZE +3" +6"

COARSE FACTOR .007867 = 100 / COARSE SIEVE TOTAL

WET SAMPLE PREWEIGHT=
WET WT. OF -#4=
-#4 SPLIT WET WT.=

	WEIGHTS RETAINED	% RET.	% PASS	SPECS.	CUMULATIVE % RET. FINENESS MODULUS
3"					
2 1/2"					
2"					
1 1/2"					
1"		Ø	100		
3/4"	24	Ø	100		
1/2"	1414	11	89		
3/8"	1332	11	78		
1/4"	1697	13	65		
#4	862	7			
-#4	7383		58		
Total	12712				

IF TOTAL SAMPLE IS WASHED:
UNWASHED WT. = 561
WASHED WT. = 465
ELUTRIATION = 96

DRY WT. OF-#4 SPLIT 561

FINE FACTOR 103387 = % PASS #4 / DRY WT. OF -#4 SPLIT

	WEIGHTS RETAINED	% RET.	% PASS	SPECS.	
#8	102	11	47		
#10	19	2	45		
#16	52	5	40		
#30	95	10	30		
#40	51	5	25		
#50	49	5	20		
#100	66	7	13		
#200	29	3			
-#200	2		10.1		
Total	465 Dry Weight				
Elutriation	96				

Liquid Limit (LL)	T-89	20	T = AASHTO Tests
Plastic Limit (PL)	T-90	14	SPECS.
Plasticity Index (PI) = LL - PL	T-90	6	
Abrasion Method (A,B,C,D)	T-96		
@ 100 Revolutions		%	%
@ 500 Revolutions		%	%
Absorption, H_2O	ARIZ 210 ARIZ 211	%	
Specific Gravity, SSD	ARIZ 210 ARIZ 211		
Specific Gravity, OD	ARIZ 210 ARIZ 211		
Specific Gravity, Apparent	ARIZ 210 ARIZ 211		
Proctor Method			A - ARIZ 225, C - ARIZ 226, D - ARIZ 226, AD - ARIZ 245, A1 - ARIZ 232, AD1 - ARIZ 246
Optimum Moisture		%	
Max. Dry Density		PCF	
Sand Equivalent	T-176 ARIZ 242 (MAFC)		
At Least One Fractured Face	ARIZ 212	%	%
At Least Two Fractured Faces	ARIZ 212	%	%
Uncompacted Void Content	ARIZ 247	%	%
Moisture Content	T-255 T-265	%	
Flakiness Index	ARIZ 233	%	%
Carbonates	ARIZ 238	%	%
pH	ARIZ 236 OR 237		
Resistivity (ohm-cm)	ARIZ 236		
Soluable Salts (PPM)	ARIZ 237		
Unit Weight	T-19	PCF	
Hydrometer T 88	(Smaller than 0.02 mm)	%	
	(Smaller than 0.002 mm)	%	
	(Smaller than 0.001 mm)	%	
Chloride Content (PPM)	ARIZ 736		
Sulfate Content (PPM)	ARIZ 733		
Exchangeable Sodium (%)	ARIZ 729		
Exchangeable Sodium (PPM)	ARIZ 729		

FINENESS MODULUS = TOTAL CUMULATIVE % RET. / 100

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