

# Carlson Testing, Inc.

Bend Office (541) 330-9155  
 Geotechnical Office (503) 601-8250  
 Eugene Office (541) 345-0289  
 Salem Office (503) 589-1252  
 Tigard Office (503) 684-3460

## FIELD WORKSHEET FOR AGGREGATE

English (E) or Metric (M)

PROJECT NAME (SECTION) 4R EQUIPMENT (MISC 2022)				CONTRACT NUMBER -	
CONTRACTOR OR SUPPLIER 4R EQUIPMENT			PROJECT MANAGER -		BID ITEM NUMBER -
SOURCE NAME SAR PIT			SOURCE NUMBER -		MATERIAL SIZE 3/4"-0
TEST NO.	DATE 4/5/2022	TIME	SAMPLED AT FINAL BELT	TO BE USED IN VARIOUS	

SIEVE SIZE	SPECS. LIMITS	SIEVE ANALYSIS AASHTO T27/11							FM CUMULATIVE % RETAINED
		MASS 1	MASS 2	MASS 3	MASS 4	TOTAL MASS	% RET	% PASS	
						0.0		0.0	100
						0.0		0.0	100
						0.0		0.0	100
						0.0		0.0	100
						0.0		0.0	100
1"	100	0.0				0.0		0.0	100
3/4"	90-100	12.5				12.5		0.2	100
1/2"		1039.9				1039.9		19.8	80
3/8"	55-75	762.5				762.5		14.5	66
1/4"	40-60	923.0				923.0		17.6	48
#4		477.3				477.3		9.1	39
#8		777.4				777.4		14.8	24
#10	*	129.2				129.2		2.5	22
						0.0		0.0	21.5
PAN	---	1126.6				1126.6		21.5	

B = INITIAL DRY MASS: 5250.3      D = MASS AFTER SIEVING: 5248.4

SIEVE SIZE	SPECS. LIMITS	FRACTURE % METHOD 2 AASHTO T 335				ELONGATED PIECES	
		FRAC MASS (F)	QUESTIONABLE MASS (Q)	NON FRAC MASS (N)	INDIVIDUAL FRAC %	TEST MASS	ELONG MASS

SET 176			
1	2	3	Sample
			Clay
			Sand
			S.E.
AVG.		SPEC	
PAN TARE			690.0
WET MASS & PAN			6038.4
DRY MASS & PAN			5940.3
AFTER WASH DRY MASS & PAN			5940.3

C = AFTER WASH DRY MASS & PAN - PAN      B = DRY MASS & PAN - PAN       DRY       WET      WAQTC AASHTO T-27/T11  
 A = WET MASS & PAN - PAN      RESULT SPEC       Round       Square       Rectangle      12"      Size

Fracture % Method 1	T 335			REMARKS ODOT 3/4"-0 Aggergagte Base Specification Shown Above.
Wood Waste TM225		0.00 %		
Cleanness Value	TM 227			
Flat & Elongated	TM 229			
Fineness Modulus	T 27/T11			
MOISTURE % = ((A-B) / B) X 100		1.9%	N/A	
SIEVE LOSS % = ((C-D) / C) X 100		0.0%	+/- 0.3	
(No 10 / 1/4") x 100		46%	*40-60	

<input checked="" type="checkbox"/> QUALITY CONTROL	<input type="checkbox"/> VERIFICATION	<input type="checkbox"/> INDEPENDENT ASSURANCE
CERTIFIED TECHNICIAN (PLEASE PRINT) AND CARD NUMBER Destry McNeeley #51370	COMPANY NAME Carlson Testing, Inc.	SIGNATURE <i>Destry McNeeley</i> DATE 4/15/22

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## FIELD WORKSHEET FOR AGGREGATE

English (E) or Metric (M)

PROJECT NAME (SECTION) 4R EQUIPMENT MISC 2022				CONTRACT NUMBER -	
CONTRACTOR OR SUPPLIER 4R EQUIPMENT			PROJECT MANAGER -		BID ITEM NUMBER -
SOURCE NAME SAR PIT			SOURCE NUMBER -		MATERIAL SIZE 3/4"-0
TEST NO.	DATE 4/4/2022	TIME PM	SAMPLED AT FINAL BELT	TO BE USED IN VARIOUS	

SIEVE SIZE	SIEVE LIMITS	SIEVE ANALYSIS AASHTO T27/11							FM CUMULATIVE % RETAINED
		MASS 1	MASS 2	MASS 3	MASS 4	TOTAL MASS	% RET	% PASS	
						0.0	0.0	100	
						0.0	0.0	100	
						0.0	0.0	100	
						0.0	0.0	100	
1"	100	0.0				0.0	0.0	100	
3/4"	90-100	23.3				23.3	0.4	100	✓
1/2"		1104.4				1104.4	20.8	79	
3/8"	55-75	825.1				825.1	15.5	63	✓
1/4"	40-60	906.2				906.2	17.1	46	✓
#4		438.2				438.2	8.3	38	
#6		467.2				467.2	8.8	29	
#8		341.4				341.4	6.4	23	
#10	*	132.5				132.5	2.5	20	
PAN	---	1067.4				1067.4	20.1	20.2	

B = INITIAL DRY MASS: 5306.2      D = MASS AFTER SIEVING: 5305.7

SIEVE SIZE	SIEVE LIMITS	FRACTURE % METHOD 2 AASHTO T 335				ELONGATED PIECES	
		FRAC MASS (F)	QUESTIONABLE MASS (Q)	NON FRAC MASS (N)	INDIVIDUAL FRAC %	TEST MASS	ELONG MASS

SE T 176			
1	2	3	Sample
			Clay
			Sand
			S.E.
AVG.		SPEC	
PAN TARE			633.8
WET MASS & PAN			6060.7
DRY MASS & PAN			5940.0
AFTER WASH DRY MASS & PAN			5940.0

C = AFTER WASH DRY MASS & PAN - PAN      B = DRY MASS & PAN - PAN       DRY       WET      WAQTC AASHTO T-27/T 11  
 A = WET MASS & PAN - PAN      RESULT SPEC       Round       Square       Rectangle      12" Size

Fracture % Method 1	T 335		
Wood Waste TM225		0.00 %	
Cleanness Value	TM 227		
Flat & Elongated	TM 229		
Fineness Modulus	T 27/T 11		
MOISTURE % = ((A-B) / B) X 100		2.3%	N/A
SIEVE LOSS % = ((G-D) / C) X 100		0.0%	+/- 0.3
(#10 / 1/4") x 100		43%	*40-60

R  
E  
M  
A  
R  
K  
S  
ODOT 3/4"-0 Aggergagte Base Specification Shown Above.

<input checked="" type="checkbox"/> QUALITY CONTROL	VERIFICATION	INDEPENDENT ASSURANCE
CERTIFIED TECHNICAN (PLEASE PRINT) AND CARD NUMBER Destry McNeeley #51370		COMPANY NAME Carlson Testing, Inc.
		SIGNATURE <i>Destry McNeeley</i>
		DATE 4/8/2022

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## FIELD WORKSHEET FOR AGGREGATE

English (E) or Metric (M)

PROJECT NAME (SECTION) 4R EQUIPMENT (MISC 2022)				CONTRACT NUMBER -
CONTRACTOR OR SUPPLIER 4R EQUIPMENT			PROJECT MANAGER -	BID ITEM NUMBER -
SOURCE NAME SAR PIT		SOURCE NUMBER -		MATERIAL SIZE 3/4"-0
TEST NO.	DATE 4/3/2022	TIME	SAMPLED AT FINAL BELT	TO BE USED IN VARIOUS

SIEVE SIZE	SPECS. LIMITS	SIEVE ANALYSIS AASHTO T27/T11							FM CUMULATIVE % RETAINED
		MASS 1	MASS 2	MASS 3	MASS 4	TOTAL MASS	% RET	% PASS	
						0.0		0.0	100
						0.0		0.0	100
						0.0		0.0	100
						0.0		0.0	100
						0.0		0.0	100
1"	100	0.0				0.0		0.0	100
3/4"	90-100	0.0				0.0		0.0	100
1/2"		1082.6				1082.6	19.7	80	
3/8"	55-75	818.4				818.4	14.9	65	
1/4"	40-60	981.3				981.3	17.8	48	
#4		486.4				486.4	8.8	39	
#8		853.7				853.7	15.5	23	
#10	*	136.0				136.0	2.5	21	
						0.0	0.0	20.8	
PAN	---	1146.2				1146.2	20.8		

B = INITIAL DRY MASS: 5502.8     D = MASS AFTER SIEVING: 5504.6

SIEVE SIZE	SPECS. LIMITS	FRACTURE % METHOD 2 AASHTO T 335				ELONGATED PIECES	
		FRAC MASS (F)	QUESTIONABLE MASS (Q)	NON FRAC MASS (N)	INDIVIDUAL FRAC %	TEST MASS	ELONG MASS

SE T 176			
1	2	3	Sample
4.9	4.7		Clay
3.7	3.7		Sand
76	79		S.E.
AVG.	78	SPEC	30min
PAN TARE			632.3
WET MASS & PAN			6269.6
DRY MASS & PAN			6135.1
AFTER WASH DRY MASS & PAN			6135.1

C = AFTER WASH DRY MASS & PAN - PAN     B = DRY MASS & PAN - PAN      DRY      WET     WAQTC AASHTO T-27/T11  
 A = WET MASS & PAN - PAN     RESULT SPEC      Round      Square      Rectangle     12" Size

Fracture % Method 1	T 335			REMARKS
Wood Waste TM225		0.00	%	
Cleaness Value	TM 227			
Flat & Elongated	TM 229			
Fineness Modulus	T 27/T11			
MOISTURE % = ((A-B) / B) X 100		2.4%	N/A	
SIEVE LOSS % = ((C-D) / C) X 100		0.0%	+/- 0.3	
(No 10 / 1/4") x 100		44%	*40-60	

ODOT 3/4"-0 Aggergagte Base Specification Shown Above.

<input checked="" type="checkbox"/> QUALITY CONTROL	VERIFICATION	INDEPENDENT ASSURANCE
CERTIFIED TECHNICIAN (PLEASE PRINT) AND CARD NUMBER Destry McNeeley #51370		COMPANY NAME Carlson Testing, Inc.     SIGNATURE <i>Destry McNeeley</i> DATE 4/15/22

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## FIELD WORKSHEET FOR AGGREGATE

English (E) or Metric (M)

PROJECT NAME (SECTION) 4R EQUIPMENT (MISC 2022)				CONTRACT NUMBER -	
CONTRACTOR OR SUPPLIER 4R EQUIPMENT			PROJECT MANAGER -		BID ITEM NUMBER -
SOURCE NAME SAR PIT			SOURCE NUMBER -		MATERIAL SIZE 3/4"-0
TEST NO.	DATE 4/6/2022	TIME	SAMPLED AT FINAL BELT	TO BE USED IN VARIOUS	

SIEVE SIZE	SPECS. LIMITS	SIEVE ANALYSIS AASHTO T27/11							FM CUMULATIVE % RETAINED
		MASS 1	MASS 2	MASS 3	MASS 4	TOTAL MASS	% RET	% PASS	
						0.0		0.0	100
						0.0		0.0	100
						0.0		0.0	100
						0.0		0.0	100
						0.0		0.0	100
1"	100	0.0				0.0		0.0	100
3/4"	90-100	53.9				53.9	1.0	99	
1/2"		1150.5				1150.5	20.9	78	
3/8"	55-75	820.4				820.4	14.9	63	
1/4"	40-60	949.7				949.7	17.3	46	
#4		454.1				454.1	8.3	38	
#8		804.5				804.5	14.6	23	
#10	*	134.2				134.2	2.4	21	
						0.0	0.0	20.6	
PAN	---	1134.3				1134.3	20.6		

B = INITIAL DRY MASS: 5498.8      D = MASS AFTER SIEVING: 5501.6

SIEVE SIZE	SPECS. LIMITS	FRACTURE % METHOD 2 AASHTO T 335				ELONGATED PIECES	
		FRAC MASS (F)	QUESTIONABLE MASS (Q)	NON FRAC MASS (N)	INDIVIDUAL FRAC %	TEST MASS	ELONG MASS

SE T 176			
1	2	3	Sample
			Clay
			Sand
			S.E.
AVG.		SPEC	
PAN TARE			622.8
WET MASS & PAN			6266.4
DRY MASS & PAN			6121.6
AFTER WASH DRY MASS & PAN			6121.6

C = AFTER WASH DRY MASS & PAN - PAN      B = DRY MASS & PAN - PAN       DRY       WET      WAQTC AASHTO T-27/T11  
 A = WET MASS & PAN - PAN      RESULT      SPEC       Round       Square       Rectangle      12"      Size

Fracture % Method 1	T 335		
Wood Waste	TM225	0.00 %	
Cleanness Value	TM 227		
Flat & Elongated	TM 229		
Fineness Modulus	T 27/T11		
MOISTURE % = ((A-B) / B) X 100		2.6%	N/A
SIEVE LOSS % = ((C-D) / C) X 100		-0.1%	+/- 0.3
(No 10 / 1/4") x 100		46%	*40-60

REMARKS  
 ODOT 3/4"-0 Aggergagte Base Specification Shown Above.

<input checked="" type="checkbox"/> QUALITY CONTROL	<input type="checkbox"/> VERIFICATION	<input type="checkbox"/> INDEPENDENT ASSURANCE
CERTIFIED TECHNICIAN (PLEASE PRINT) AND CARD NUMBER Destry McNeeley #51370	COMPANY NAME Carlson Testing, Inc.	SIGNATURE <i>Destry McNeeley</i> DATE 4/15/22