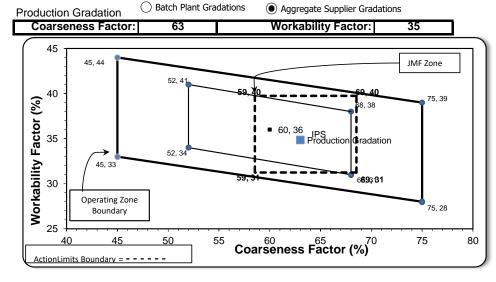
PLANT #	<b>#:</b>	P-101					Contractor:					
Sample Date	:	12/12/22			Concrete Grade:	S2M, 3500HP						
Dates Test R	epresents:	12/13/2022	through	12/19/2022			MDOT No.:					
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution						
6AA	71-47	Presque Isle	1520	9.30	2.62	49.8						
26A	71-47	Presque Isle	305	1.87	2.62	10.0						
2NS	75-051	Mid Michigan	1230	7.41	2.66	40.3						
		Total Wt	3055	18.57		100.0	< Verify this n	umber is 100%	_			
Sieve		6AA	26	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained				
2"	1	100.0	100	0.0	100.0	100.0	0.0	0.0	-			
1.5"	1	100.0	100	0.0	100.0	100.0	0.0	0.0				
1"		98.6	10	10	10	10	0.0	100.0	99.3	0.7	0.7	
3/4"		79.5	100	100.0	100.0	89.8	9.5	10.2	_			
1/2"		37.4	97	97.1 100.0		68.6	21.2	31.4				
3/8"	:	20.0	87	87.5 100.0	100.0	58.9	9.6	41.1	*N			
#4		3.1	21	.0	98.0	43.1	15.9	56.9	*A			
#8		2.1	3.	.9	83.0	34.9	8.2	65.1	non			
#16		1.9 1.8 68.3	68.3	28.6	6.2	71.4	*%					
#30		1.8	1.	.5	52.0	22.0	6.6	78.0	non			
#50		1.7	1.	5	27.1	11.9	10.1	88.1	*%			
#100		1.7		4	8.4	4.4	7.5	95.6	a 2'			
LBW		1.5	1.	.3	1.7	1.6	2.8	98.4	1			



Superior Materials, LLC 30701 W. 10 Mile Rd. Suite 500 Farmington Hills, MI 48336

Maximum % Retained must be above the 3/8" sieve. Any two adjacent sieves must equal 10% except max., om. max., #100 and #200 sieves. % Retained must be at least 4% for each sieve except max., om. max., #100 and #200 sieves. % Retained must be at least 8% for the 1" sieve when 2" max. size (nom. Max. 1.5") aggregate is used.



Initial Produc	tion Sample (IPS	S)	_
Coar	seness Factor:	64	
Wor	kability Factor:	35	
Sieve	Cumulative	%	Cumulative
Sleve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	100.0	0.0	0.0
3/4"	93.9	6.1	6.1
1/2"	71.4	22.5	28.6
3/8"	59.0	12.4	41.0
#4	45.1	13.9	54.9
#8	35.5	9.6	64.5
#16	28.3	7.2	71.7
#30	21.3	6.9	78.7
#50	11.0	10.3	89.0
#100	3.4	7.6	96.6
LBW	1.1	2.3	98.9

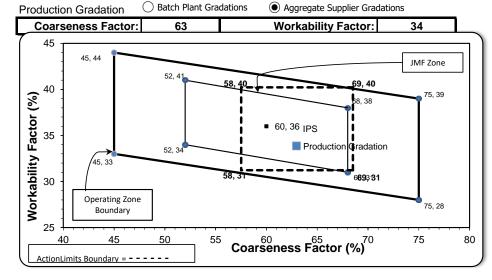
Approved By: Mary P. Ball

PLANT #: P-102						Contractor:								
Sample Date	e:	12/12/22			Concrete Grade:	S2M, 3500HP								
Dates Test R		12/13/2022	through	12/19/2022			MDOT No.:							
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific	%								
Agg. Class	110#	Source	Weight (33D)	п	Gravity	Contribution								
6AA	58-003	Stoneco	1570	9.35	2.69	50.6								
26A	58-003	Stoneco	330	1.97	2.69	10.6								
2NS	81-019	Pleasant Lake	1200	7.26	2.65	38.7								
		Total Wt	3100	18.58		100.0	< Verify this n	umber is 100%	_					
Sieve		6AA	26	6A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained						
2"		100.0	10	0.0	100.0	100.0	0.0	0.0	1					
1.5"		100.0	100	100 100 100	0.0	100.0	100.0	0.0	0.0	1				
1"		99.3							0.0	100.0	99.6	0.4	0.4	1
3/4"		76.6							10	10	100	0.0	100.0	88.1
1/2"		42.2	99	9.6	100.0	70.7	17.5	29.3	1					
3/8"		20.4	87	7.5	100.0	58.4	12.3	41.6	*					
#4		4.5	7.	.0	97.9	40.9	17.4	59.1	*,					
#8		2.7	2	.7	83.2	33.9	7.1	66.1	no					
#16		1.8	2	.4	66.3	26.8	7.0	73.2	*0					
#30		1.6	2	.2	48.0	19.6	7.2	80.4	no					
#50		1.6	2	.2	23.4	10.1	9.5	89.9	*(					
#100		1.4	2	.1	6.6	3.5	6.6	96.5	a 2					
LBW		1.5	2	.0	1.7	1.6	1.9	98.4	1					



Superior Materials, LLC 30701 W. 10 Mile Rd. Suite 500 Farmington Hills, MI 48336

\*Maximum % Retained must be above the 3/8" sieve.
\*Any two adjacent sieves must equal 10% except max., om. max., #100 and #200 sieves.
\*% Retained must be at least 4% for each sieve except max., om. max., #100 and #200 sieves.
\*% Retained must be at least 8% for the 1" sieve when 2" max. size (nom. Max. 1.5") aggregate is used.



Intial Product	ion Sample (IPS	5)	-
Coars	seness Factor:	63	
Worl	cability Factor:	36	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	99.2	0.8	0.8
3/4"	90.9	8.3	9.1
1/2"	71.3	19.6	28.7
3/8"	59.5	11.8	40.5
#4	43.8	15.7	56.2
#8	35.7	8.1	64.3
#16	27.0	8.7	73.0
#30	18.6	8.4	81.4
#50	6.8	11.8	93.2
#100	1.4	5.4	98.6
LBW	0.6	0.8	99.4

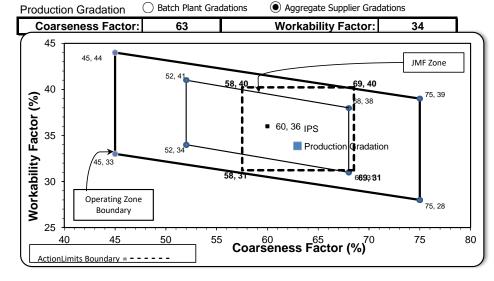
Approved By: Nat 1. Ball

PLANT :	#:	P-103					Contractor:																												
Sample Date	e:	12/12/22			Concrete Grade:	S2M, 3500HP																													
Dates Test R	epresents:	12/13/2022	through	12/19/2022			MDOT No.:																												
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution																													
6AA	58-003	Stoneco	1570	9.35	2.69	50.6																													
26A	58-003	Stoneco	330	1.97	2.69	10.6																													
2NS	81-019	Pleasant Lake	1200	7.26	2.65	38.7																													
		Total Wt	3100	18.58		100.0	< Verify this n	umber is 100%	_																										
Sieve		6AA	26	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained																											
2"	1	100.0	100	0.0	100.0	100.0	0.0	0.0	1																										
1.5"	1	100.0	100	0.0	100.0	100.0	0.0	0.0																											
1"		99.3	100	0.0	100.0	99.6	0.4	0.4	1																										
3/4"		76.6	100	0.0	100.0	88.1	11.5	11.9																											
1/2"		42.2	9'	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99					99			99.	.6	100.0	70.7	17.5	29.3	
3/8"		20.4	87	.5	100.0	58.4	12.3	41.6	*N																										
#4		4.5	7.	0	97.9	40.9	17.4	59.1	*A																										
#8		2.7	2.	7	83.2	33.9	7.1	66.1	nor																										
#16		1.8	2.	4	66.3	26.8	7.0	73.2	*9																										
#30		1.6	2.	2	48.0	19.6	7.2	80.4	nor																										
#50		1.6	2.	2	23.4	10.1	9.5	89.9	*%																										
#100		1.4	2.	1	6.6	3.5	6.6	96.5	a 2'																										
LBW		1.5	2.	0	1.7	1.6	1.9	98.4	1																										



Superior Materials, LLC 30701 W. 10 Mile Rd. Suite 500 Farmington Hills, MI 48336

Maximum % Retained must be above the 3/8" sieve. "Any two adjacent sieves must equal 10% except max., bm. max., #100 and #200 sieves. "% Retained must be at least 4% for each sieve except max., bm. max., #100 and #200 sieves. "% Retained must be at least 8% for the 1" sieve when 2" max. size (nom. Max. 1.5") aggregate is used.



Intial Producti	on Sample (IPS	5)	-
Coars	seness Factor:	63	
Work	ability Factor:	36	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	99.2	0.8	0.8
3/4"	90.9	8.3	9.1
1/2"	71.3	19.6	28.7
3/8"	59.5	11.8	40.5
#4	43.8	15.7	56.2
#8	35.7	8.1	64.3
#16	27.0	8.7	73.0
#30	18.6	8.4	81.4
#50	6.8	11.8	93.2
#100	1.4	5.4	98.6
LBW	0.6	0.8	99.4

Approved BY: Mary P. Ball

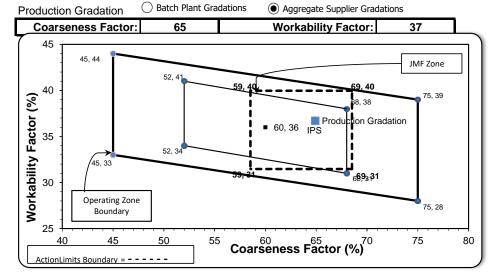
PLANT :	#:	P-14					Contractor:		
Sample Date	): 	12/12/22			Concrete Grade:	S2M, 3500HP			
Dates Test R	Represents:	12/13/2022	through	12/19/2022	2		MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution			
6AA	58-003	Stoneco	1550	9.23	2.69	49.8			
26A	58-003	Stoneco	350	2.09	2.69	11.3	1		
2NS	19-55	Schlegel	1210	7.26	2.67	38.9			
		Total Wt	3110	18.58		100.0	< Verify this n	umber is 100%	
Sieve	(	6AA	26	6A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	00.0	10	0.0	100.0	100.0	0.0	0.0	
1.5"	1	00.0	100	0.0	100.0	100.0	0.0	0.0	
1"	ç	99.3	10	0.0	100.0	99.7	0.3	0.3	
3/4"	-	76.6	10	0.0	100.0	88.3	11.3	11.7	
1/2"	2	42.2	99	9.6	100.0	71.1	17.2	28.9	
3/8"	4	20.4	87	<b>'</b> .5	100.0	58.9	12.2	41.1	*Maximum %
#4		4.5	7.	.0	99.9	41.9	17.0	58.1	*Any two adj
#8		2.7	2.	.7	90.1	36.7	5.2	63.3	nom. max., #*
#16		1.8	2.	.4	69.4	28.2	8.5	71.8	*% Retained
#30		1.6	2.	.2	44.5	18.4	9.8	81.6	nom. max., #*
#50		1.6	2.	.2	14.3	6.6	11.7	93.4	*% Retained
#100		1.4	2.		2.7	2.0	4.6	98.0	a 2" max. size
LBW		1.5	2.	.0	0.2	1.1	0.9	98.9	



**Builders Redi-Mix** 

30701 W. 10 Mile Rd. Suite 500 Farmington Hills, MI 48336

\*Maximum % Retained must be above the 3/8" sieve.
\*Any two adjacent sieves must equal 10% except max., om. max., #100 and #200 sieves.
\*% Retained must be at least 4% for each sieve except max., om. max., #100 and #200 sieves.
\*% Retained must be at least 8% for the 1" sieve when 2" max. size (nom. Max. 1.5") aggregate is used.



Intial Production	on Sample (IPS	5)	
Coars	eness Factor:	64	
Work	ability Factor:	36	
Sieve	Cumulative	%	Cumulative
Sleve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	99.2	0.8	0.8
3/4"	90.9	8.3	9.1
1/2"	71.3	19.6	28.7
3/8"	59.2	12.1	40.8
#4	41.5	17.7	58.5
#8	35.7	5.8	64.3
#16	27.9	7.9	72.1
#30	18.3	9.5	81.7
#50	7.3	11.0	92.7
#100	2.0	5.3	98.0
LBW	0.9	1.1	99.1

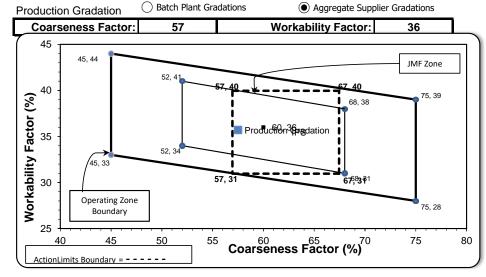
Approved By: Mart P. Ball

<b>PLANT</b>	#:	11					Contractor:		
Sample Date	e:	12/12/22			Concrete Grade:	S2M, 3500HP			
Dates Test F	Represents:	12/13/2022	through	12/19/2022			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution			
6AA	71-47	Presque Isle	1470	8.99	2.62	48.2			
26A	71-47	Presque Isle	350	2.14	2.62	11.5			
2NS	95-013	Smelter Bay	1230	7.44	2.65	40.3			
		Total Wt	3050	18.57		100.0	< Verify this n	umber is 100%	_
Sieve		6AA	26	6A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	00.0	10	0.0	100.0	100.0	0.0	0.0	1
1.5"	1	00.0	10	0.0	100.0	100.0	0.0	0.0	
1"	1	97.6	10	0.0	100.0	98.8	1.2	1.2	
3/4"		82.6	10	0.0	100.0	91.6	7.2	8.4	
1/2"		43.4	97	7.2	100.0	72.4	19.2	27.6	
3/8"	:	27.6	82	2.0	100.0	63.0	9.4	37.0	*Maxim
#4		6.8	10	).3	98.4	44.1	18.9	55.9	*Any tw
#8		3.0	2	.7	84.2	35.7	8.4	64.3	nom. ma
#16		2.6	1	1.4		28.8	6.9	71.2	*% Reta
#30		2.5	1	.1	49.9	21.5	7.3	78.5	nom. ma
#50		2.4	1	.0	24.6	11.2	10.3	88.8	*% Reta
#100		2.2		.9	7.3	4.1	7.1	95.9	a 2" max.
LBW		1.8	0	.7	1.8	1.7	2.4	98.3	



Superior Materials, LLC 30701 W. 10 Mile Rd. Suite 500 Farmington Hills, MI 48336

Maximum % Retained must be above the 3/8" sieve. Any two adjacent sieves must equal 10% except max., om. max., #100 and #200 sieves. % Retained must be at least 4% for each sieve except max., om. max., #100 and #200 sieves. % Retained must be at least 8% for the 1" sieve when 2" max. size (nom. Max. 1.5") aggregate is used.



Intial Product	ion Sample (IPS	5)	_
Coar	seness Factor:	62	
Wor	kability Factor:	35	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	100.0	0.0	0.0
3/4"	94.0	6.0	6.0
1/2"	70.2	23.7	29.8
3/8"	59.9	10.4	40.1
#4	42.7	17.2	57.3
#8	35.5	7.2	64.5
#16	28.4	7.0	71.6
#30	19.2	9.2	80.8
#50	8.9	10.3	91.1
#100	3.1	5.9	96.9
LBW	1.4	1.7	98.6

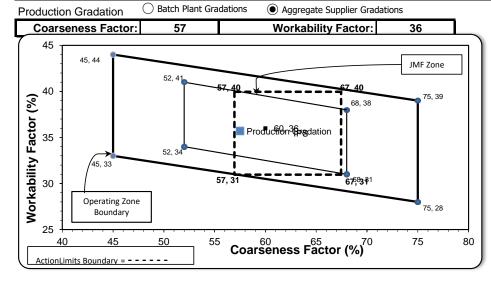
Approved By: Mart P. Ball

PLANT #	<b>#:</b>	P-32					Contractor:								
Sample Date	:	12/12/22			Concrete Grade:	S2M, 3500HP									
Dates Test Represents:		12/13/2022	through	12/19/2022			MDOT No.:								
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution									
6AA	71-47	Presque Isle	1470	8.99	2.62	48.2									
26A	71-47	Presque Isle	350	2.14	2.62	11.5									
2NS	95-013	Smelter Bay	1230	7.44	2.65	40.3									
		Total Wt	3050	18.57		100.0	< Verify this n	umber is 100%							
Sieve		6AA	26	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained							
2"	100.0		100	0.0	100.0	100.0	0.0	0.0							
1.5"	1	100.0	100	0.0	100.0	100.0	0.0	0.0							
1"		97.6	-	-	-	-	-	100	100 100	0.0	100.0	98.8	1.2	1.2	
3/4"		82.6								100	0.0	100.0	91.6	7.2	8.4
1/2"		43.4	97	.2	100.0	72.4	19.2	27.6							
3/8"	:	27.6	82	2.0	100.0	63.0	9.4	37.0							
#4		6.8	10	.3	98.4	44.1	18.9	55.9							
#8		3.0	2.	.7	84.2	35.7	8.4	64.3	Ī						
#16		2.6	1.	1.4		28.8	6.9	71.2							
#30		2.5	1.1		49.9	21.5	7.3	78.5	Ī						
#50		2.4	1.	1.0		11.2	10.3	88.8							
#100		2.2	0.	.9	7.3	4.1	7.1	95.9							
LBW		1.8	0.	7	1.8	1.7	2.4	98.3	1						



Superior Materials, LLC 30701 W. 10 Mile Rd. Suite 500 Farmington Hills, MI 48336

Maximum % Retained must be above the 3/8" sieve. Any two adjacent sieves must equal 10% except max., om. max., #100 and #200 sieves. % Retained must be at least 4% for each sieve except max., om. max., #100 and #200 sieves. % Retained must be at least 8% for the 1" sieve when 2" max. size (nom. Max. 1.5") aggregate is used.



Intial Producti	on Sample (IPS	5)	_
Coars	seness Factor:	62	
Work	ability Factor:	35	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	100.0	0.0	0.0
3/4"	94.0	6.0	6.0
1/2"	70.2	23.7	29.8
3/8"	59.9	10.4	40.1
#4	42.7	17.2	57.3
#8	35.5	7.2	64.5
#16	28.4	7.0	71.6
#30	19.2	9.2	80.8
#50	8.9	10.3	91.1
#100	3.1	5.9	96.9
LBW	1.4	1.7	98.6

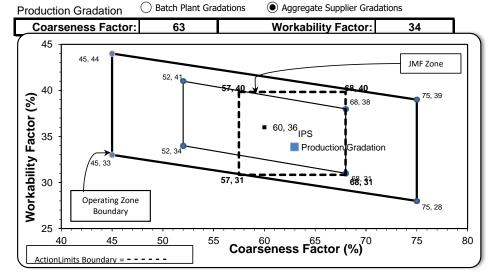
Approved By: Mart 1. Ball

PLANT #	<b>#:</b>	P-35					Contractor:		
Sample Date	:	12/12/22			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	12/13/2022	through	12/19/2022			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution			
6AA	58-003	Stoneco	1570	9.35	2.69	50.6			
26A	58-003	Stoneco	330	1.97	2.69	10.6			
2NS	81-019	Pleasant Lake	1200	7.26	2.65	38.7			
		Total Wt	3100	18.58		100.0	< Verify this n	umber is 100%	_
Sieve		6AA	26	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"		100.0	100	0.0	100.0	100.0	0.0	0.0	1
1.5"	1	100.0	100	0.0	100.0	100.0	0.0	0.0	
1"		99.3	100	0.0	100.0	99.6	0.4	0.4	
3/4"		76.6	100	0.0	100.0	88.1	11.5	11.9	
1/2"		42.2	99	.6	100.0	70.7	17.5	29.3	
3/8"		20.4	87	.5	100.0	58.4	12.3	41.6	*
#4		4.5	7.	0	97.9	40.9	17.4	59.1	*
#8		2.7	2.	7	83.2	33.9	7.1	66.1	no
#16		1.8	2.	4	66.3	26.8	7.0	73.2	*
#30		1.6	2.	2	48.0	19.6	7.2	80.4	nc
#50		1.6	2.	2	23.4	10.1	9.5	89.9	*
#100		1.4	2.	1	6.6	3.5	6.6	96.5	a 2
LBW		1.5	2.	0	1.7	1.6	1.9	98.4	1



Superior Materials, LLC 30701 W. 10 Mile Rd. Suite 500 Farmington Hills, MI 48336

Maximum % Retained must be above the 3/8" sieve. Any two adjacent sieves must equal 10% except max., om. max., #100 and #200 sieves. % Retained must be at least 4% for each sieve except max., om. max., #100 and #200 sieves. % Retained must be at least 8% for the 1" sieve when 2" max. size (nom. Max. 1.5") aggregate is used.



Intial Production	on Sample (IPS	5)	_
Coars	eness Factor:	63	
Work	ability Factor:	35	
Sieve	Cumulative	%	Cumulative
Sleve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	99.2	0.8	0.8
3/4"	90.9	8.3	9.1
1/2"	71.3	19.6	28.7
3/8"	59.4	11.9	40.6
#4	43.0	16.5	57.0
#8	35.3	7.6	64.7
#16	28.2	7.1	71.8
#30	21.6	6.6	78.4
#50	9.1	12.5	90.9
#100	1.7	7.4	98.3
LBW	1.1	0.6	98.9

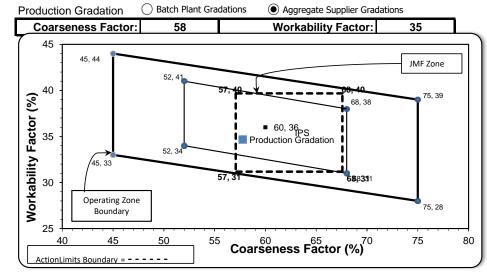
Approved By: Nat 1. Ball

PLANT #	<b>#:</b>	P-36					Contractor:		
Sample Date	:	12/12/22			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	12/13/2022	through	12/19/2022			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution			
6AA	71-47	Presque Isle	1570	9.60	2.62	51.5			
26A	71-47	Presque Isle	280	1.71	2.62	9.2			
2NS	63-92	Grange Hall	1200	7.26	2.65	39.3			
		Total Wt	3050	18.57		100.0	< Verify this n	umber is 100%	
Sieve		6AA	26	6A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	100.0	100	0.0	100.0	100.0	0.0	0.0	
1.5"	1	100.0	100	0.0	100.0	100.0	0.0	0.0	
1"	1	98.5	10	0.0	100.0	99.2	0.8	0.8	
3/4"		89.2	100	0.0	100.0	94.4	4.8	5.6	
1/2"		46.9	97	7.2	100.0	72.4	22.0	27.6	
3/8"	:	29.9	82	2.0	100.0	62.3	10.1	37.7	*N
#4		6.0	10	).3	97.6	42.4	19.8	57.6	*/
#8		2.2	2.	.7	84.6	34.7	7.8	65.3	nor
#16		1.8	1.	.4	69.6	28.4	6.2	71.6	*9
#30		1.7	1.	.1	51.0	21.0	7.4	79.0	nor
#50		1.6	1.	.0	23.0	10.0	11.1	90.0	*9
#100		1.6	0.		3.5	2.3	7.7	97.7	a 2
LBW		1.3	0.	.7	0.7	1.0	1.3	99.0	



Superior Materials, LLC 30701 W. 10 Mile Rd. Suite 500 Farmington Hills, MI 48336

Maximum % Retained must be above the 3/8" sieve. Any two adjacent sieves must equal 10% except max., om. max., #100 and #200 sieves. % Retained must be at least 4% for each sieve except max., om. max., #100 and #200 sieves. % Retained must be at least 8% for the 1" sieve when 2" max. size (nom. Max. 1.5") aggregate is used.



Intial Production	on Sample (IPS	5)	_
Coars	eness Factor:	62	
Work	ability Factor:	35	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	99.1	0.9	0.9
3/4"	90.5	8.6	9.5
1/2"	69.8	20.7	30.2
3/8"	59.8	10.0	40.2
#4	42.2	17.6	57.8
#8	35.4	6.7	64.6
#16	28.8	6.7	71.2
#30	21.4	7.4	78.6
#50	8.8	12.6	91.2
#100	1.8	7.0	98.2
LBW	0.7	1.0	99.3

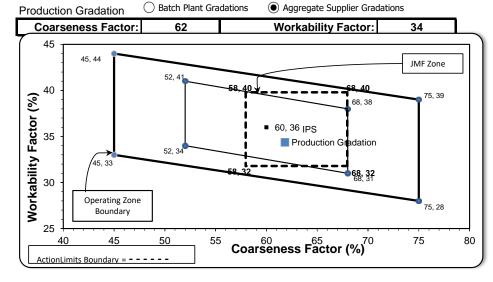
Approved By: Mart 1. Ball

PLANT #	<b>#:</b>	P-39					Contractor:		
Sample Date	:	12/12/22			Concrete Grade	: S2M, 3500HP			
Dates Test R	epresents:	12/13/2022	through	12/19/2022			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific	%			
-yy. Class		Source	Weight (33D)		Gravity	Contribution			
6AA	71-47	Presque Isle	1500	9.17	2.62	49.2			
26A	71-47	Presque Isle	300	1.83	2.62	9.8			
2NS	44-051	Krake Willis Rd	1250	7.56	2.65	41.0			
		Total Wt	3050	18.57		100.0	< Verify this n	umber is 100%	
Sieve		6AA	26	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"		100.0	100	0.0	100.0	100.0	0.0	0.0	
1.5"		100.0	100	0.0	100.0	100.0	0.0	0.0	
1"		98.6	100	0.0	100.0	99.3	0.7	0.7	
3/4"		79.5	100	0.0	100.0	89.9	9.4	10.1	
1/2"		37.4	97	.1	100.0	68.9	21.0	31.1	
3/8"		20.0	87	.5	100.0	59.4	9.5	40.6	*N
#4		3.1 21.		.0	96.2	43.0	16.4	57.0	*٨
#8		2.1	3.	9	80.4	34.4	8.6	65.6	non
#16		1.9	1.	8	65.2	27.8	6.5	72.2	*%
#30		1.8	1.	5	49.4	21.3	6.6	78.7	non
#50		1.7	1.	5	24.3	10.9	10.3	89.1	*%
#100		1.7	1.		9.0	4.7	6.3	95.3	a 2'
LBW		1.5	1.	3	0.8	1.2	3.5	98.8	1



Superior Materials, LLC 30701 W. 10 Mile Rd. Suite 500 Farmington Hills, MI 48336

Maximum % Retained must be above the 3/8" sieve. Any two adjacent sieves must equal 10% except max., om. max., #100 and #200 sieves. % Retained must be at least 4% for each sieve except max., om. max., #100 and #200 sieves. % Retained must be at least 8% for the 1" sieve when 2" max. size (nom. Max. 1.5") aggregate is used.



Intial Producti	on Sample (IPS	5)	-
Coars	seness Factor:	63	
Work	ability Factor:	36	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	100.0	0.0	0.0
3/4"	89.8	10.2	10.2
1/2"	70.7	19.1	29.3
3/8"	59.6	11.1	40.4
#4	43.2	16.4	56.8
#8	35.8	7.4	64.2
#16	29.2	6.6	70.8
#30	21.4	7.8	78.6
#50	9.8	11.6	90.2
#100	3.7	6.1	96.3
LBW	1.2	2.5	98.8

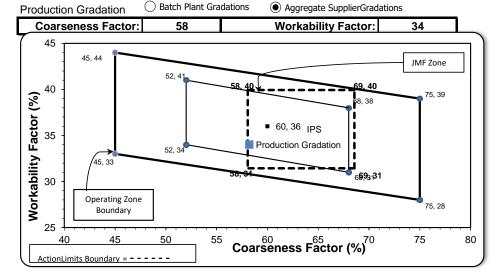
Approved By: Mart P. Ball

PLANT #	<b>#:</b>	<b>P-O2</b>					Contractor:		
Sample Date	:	12/12/22			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	12/13/2022	through	12/19/2022			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution			
6AA	71-47	Presque Isle	1620	9.91	2.62	53.1			
26A	71-47	Presque Isle	200	1.22	2.62	6.6			
2NS	63-115	Ray Rd	1230	7.44	2.65	40.3			
		Total Wt	3050	18.57		100.0	< Verify this n	umber is 100%	
Sieve		6AA	26	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	100.0	100	0.0	100.0	100.0	0.0	0.0	1
1.5"	1	100.0	100	0.0	100.0	100.0	0.0	0.0	
1"	1	98.5	100	0.0	100.0	99.2	0.8	0.8	
3/4"		89.2	100	0.0	100.0	94.3	4.9	5.7	
1/2"		46.9	97	.2	100.0	71.6	22.7	28.4	
3/8"	:	29.9	82	.0	100.0	61.6	10.0	38.4	
#4		6.0 10.		.3	96.9	42.9	18.6	57.1	
#8		2.2	2.	7	81.0	34.0	8.9	66.0	n
#16	1.8		1.	4	65.7	27.5	6.5	72.5	
#30		1.7	1.	1	50.0	21.1	6.4	78.9	n
#50		1.6	1.0		26.4	11.6	9.6	88.4	
#100		1.6	0.	9	4.2	2.6	9.0	97.4	а
LBW		1.3	0.	7	0.6	1.0	1.6	99.0	1



Superior Materials, LLC 30701 W. 10 Mile Rd. Suite 500 Farmington Hills, MI 48336

Maximum % Retained must be above the 3/8" sieve. Any two adjacent sieves must equal 10% except max., om. max., #100 and #200 sieves. % Retained must be at least 4% for each sieve except max., om. max., #100 and #200 sieves. % Retained must be at least 8% for the 1" sieve when 2" max. size (nom. Max. 1.5") aggregate is used.



Intial Production	on Sample (IPS	5)	-
Coars	eness Factor:	63	
Work	ability Factor:	36	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	100.0	0.0	0.0
3/4"	95.6	4.4	4.4
1/2"	73.1	22.6	26.9
3/8"	59.3	13.8	40.7
#4	42.8	16.5	57.2
#8	35.7	7.1	64.3
#16	28.9	6.8	71.1
#30	20.7	8.2	79.3
#50	9.9	10.8	90.1
#100	2.1	7.8	97.9
LBW	0.9	1.2	99.1

Approved By: Mart P. Ball