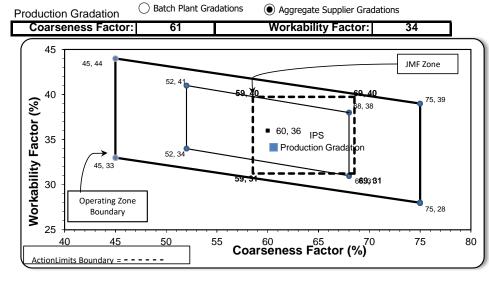
PLANT #	<b>#:</b>	P-101					Contractor:		
Sample Date	:	7/10/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	7/11/2023	through	7/17/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution			
6AA	71-47	Presque Isle	1575	9.63	2.62	51.6			
26A	71-47	Presque Isle	250	1.53	2.62	8.2			
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"	1	98.4	100	0.0	100.0	99.2	0.8	0.8	
3/4"		81.6	100	0.0	100.0	90.5	8.7	9.5	
1/2"		41.4	95	.8	100.0	69.4	21.1	30.6	]
3/8"	:	24.8	86	.4	100.0	60.1	9.3	39.9	*
#4		4.8	21	.7	96.1	42.9	17.2	57.1	*
#8		2.2	6.	0	80.8	34.2	8.8	65.8	no
#16		2.0	3.	3.2		28.1	6.0	71.9	*(
#30		1.8	2.6		52.1	22.1	6.0	77.9	no
#50		1.8	2.	2.3		12.7	9.4	87.3	*(
#100		1.7	2.		7.7	4.2	8.5	95.8	a 2
LBW		1.4	2.	0	1.4	1.4	2.7	98.6	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 Product	tion Sample (IPS	5)	
Coars	seness Factor:	64	
Worl	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"	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

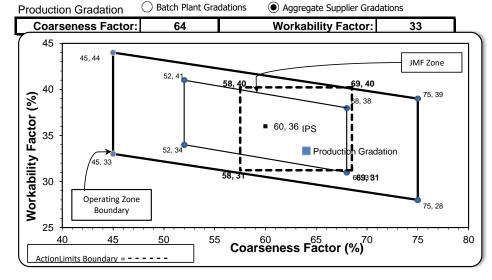
Approved By: Mart 1. Ball

PLANT #: P-102						Contractor:			
Sample Date	:	7/10/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	7/11/2023	through	7/17/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific	%			
Agg. Class	1 IL #	Source	<b>-</b> · · ·		Gravity	Contribution			
6AA	58-003	Stoneco	1650	9.83	2.69	53.2			
26A	58-003	Stoneco	250	1.49	2.69	8.1			
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	10	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	100.0	10	0.0	100.0	100.0	0.0	0.0	
3/4"		72.6	10	0.0	100.0	85.4	14.6	14.6	1
1/2"		38.3	97	7.7	100.0	67.0	18.4	33.0	1
3/8"		22.2	84	l.1	100.0	57.3	9.7	42.7	*
#4		3.2	10	).3	98.3	40.6	16.7	59.4	*/
#8		1.6	3.	.3	83.2	33.3	7.3	66.7	no
#16		1.4	2.	2.5		26.3	7.1	73.7	*0
#30		1.3	2.2		45.9	18.6	7.6	81.4	no
#50		1.2	2.	.0	22.2	9.4	9.2	90.6	*0
#100		1.2	1.	.9	6.0	3.1	6.3	96.9	a 2
LBW		0.9	1.	.7	1.1	1.0	2.1	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.



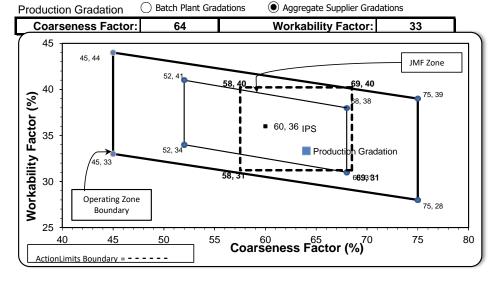
Coarseness Fa       Workability Fa       Sieve     Cumula % Pass       2"     100.0       1.5"     100.0       1"     99.2	ctor:     36       tive     %       ing     Retai       0     0.0	5 ned	Cumulative % Retained
Sieve     Cumula % Pass       2"     100.0       1.5"     100.0	tive % ing Retai	ned	
Sieve     % Pass       2"     100.0       1.5"     100.0	ing Retai	ned	
% Pass       2"     100.0       1.5"     100.0	0.0		% Retained
1.5" 100.0		0	
	) ()		0.0
1" 99.2		0	0.0
	0.8	8	0.8
3/4" 90.9	8.3	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	4	81.4
#50 6.8	11.	.8	93.2
#100 1.4	5.4	4	98.6
LBW 0.6	0.8	8	99.4

Approved By: Mart P. Ball

PLANT	#:	P-103					Contractor:		
Sample Date	e:	7/10/23			Concrete Grade:	S2M, 3500HP			
Dates Test F	Represents:	7/11/2023	through	7/17/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution			
6AA	58-003	Stoneco	1650	9.83	2.69	53.2			
26A	58-003	Stoneco	250	1.49	2.69	8.1			
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	100.0	100.0	0.0	0.0	
1"	1	100.0	100	).0	100.0	100.0	0.0	0.0	
3/4"		72.6	100	).0	100.0	85.4	14.6	14.6	
1/2"		38.3	97	.7	100.0	67.0	18.4	33.0	
3/8"		22.2	84	.1	100.0	57.3	9.7	42.7	*Ma
#4		3.2	10	.3	98.3	40.6	16.7	59.4	*Any
#8		1.6	3.	3	83.2	33.3	7.3	66.7	nom.
#16		1.4	2.	2.5		26.3	7.1	73.7	*% F
#30		1.3	2.2		45.9	18.6	7.6	81.4	nom.
#50		1.2	2.	2.0		9.4	9.2	90.6	*% R
#100		1.2	1.		6.0	3.1	6.3	96.9	a 2" m
LBW		0.9	1.	7	1.1	1.0	2.1	99.0	1



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



ness Factor: pility Factor:	63 36	
	36	
	50	
Cumulative	%	Cumulative
% Passing	Retained	% Retained
100.0	0.0	0.0
100.0	0.0	0.0
99.2	0.8	0.8
90.9	8.3	9.1
71.3	19.6	28.7
59.5	11.8	40.5
43.8	15.7	56.2
35.7	8.1	64.3
27.0	8.7	73.0
18.6	8.4	81.4
6.8	11.8	93.2
1.4	5.4	98.6
0.6	0.8	99.4
	% Passing       100.0       100.0       99.2       90.9       71.3       59.5       43.8       35.7       27.0       18.6       6.8       1.4	% Passing     Retained       100.0     0.0       100.0     0.0       99.2     0.8       90.9     8.3       71.3     19.6       59.5     11.8       43.8     15.7       35.7     8.1       27.0     8.7       18.6     8.4       6.8     11.8       1.4     5.4

Approved BY: Marthe Ball

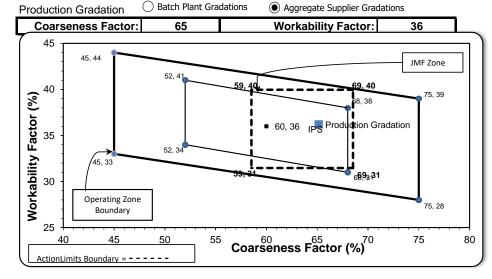
<b>PLANT</b> :	#:	14					Contractor:			
Sample Date	): 	7/10/23			Concrete Grade:	S2M, 3500HP				
Dates Test R	Represents:	7/11/2023	through	7/17/2023			MDOT No.:			
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution				
6AA	58-003	Stoneco	1600	9.53	2.69	51.4				
26A	58-003	Stoneco	300	1.79	2.69	9.6				
2NS	19-04	Schlegel	1210	7.26	2.67	38.9				
		Total Wt	3110	18.58		100.0	< Verify this n	< Verify this number is 100%		
Sieve	6	6AA	26	6A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained		
2"	1	00.0	100	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"	1	00.0	100	0.0	100.0	100.0	0.0	0.0		
3/4"	7	72.6	100	0.0	100.0	85.9	14.1	14.1		
1/2"		38.3	97	7.7	100.0	68.0	17.9	32.0		
3/8"		22.2	84	1.1	100.0	58.4	9.6	41.6	*Maximum % F	
#4		3.2	10	).3	99.9	41.5	16.9	58.5	*Any two adjac	
#8		1.6	3.	.3	90.1	36.2	5.3	63.8	nom. max., #100	
#16		1.4	2.5		69.4	28.0	8.2	72.0	*% Retained m	
#30		1.3	2.	.2	44.5	18.2	9.8	81.8	nom. max., #100	
#50		1.2	2.	.0	14.3	6.4	11.8	93.6	*% Retained m	
#100		1.2		.9	2.7	1.9	4.5	98.1	a 2" max. size (r	
LBW		0.9	1.	.7	0.2	0.7	1.1	99.3		



**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., 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.



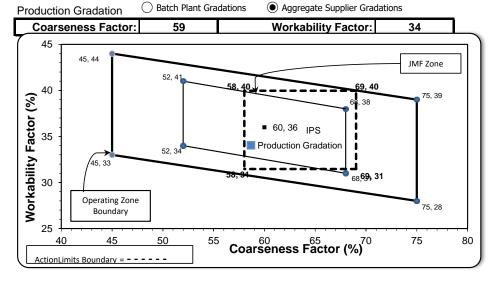
Intial Product	Intial Production Sample (IPS)									
Coars	seness Factor:	64								
Worl	ability Factor:	36								
Sieve	Cumulative	%	Cumulative							
Sieve	% Passing	Retained	% Retained							
2"	100.0	0.0	0.0							
1.5"	100.0	0.0	0.0							
1"	99.2	0.8	0.8							
3/4"	90.9	8.3	9.1							
1/2"	71.3	19.6	28.7							
3/8"	59.2	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

PLANT #	<b>#:</b>	12					Contractor:	
Sample Date	:	7/10/23			Concrete Grade:	S2M, 3500HP		
Dates Test Represents:		7/11/2023	through	7/17/2023			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	Α	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	1	100.0	100	0.0	100.0	100.0	0.0	0.0
1.5"	100.0		100	).0	100.0	100.0	0.0	0.0
1"	98.7	8.7	100	0.0	100.0	99.3	0.7	0.7
3/4"	81.5		100	).0	100.0	90.2	9.1	9.8
1/2"		43.7	97	.0	100.0	69.9	20.3	30.1
3/8"	1	28.3	90	.6	100.0	61.3	8.6	38.7
#4		5.5	19	.9	96.2	43.0	18.3	57.0
#8	2.5		4.	4	80.4	34.0	9.0	66.0
#16		2.1	2.2		65.5	27.7	6.4	72.3
#30		2.0	1.7		49.9	21.3	6.4	78.7
#50		1.9	1.	6	26.4	11.8	9.5	88.2
#100		1.8	1.	1.5		3.8	7.9	96.2
LBW		1.4	1.	3	1.2	1.3	2.5	98.7



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



Intial Product	Intial Production Sample (IPS)									
Coars	seness Factor:	64								
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"	59.2	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							

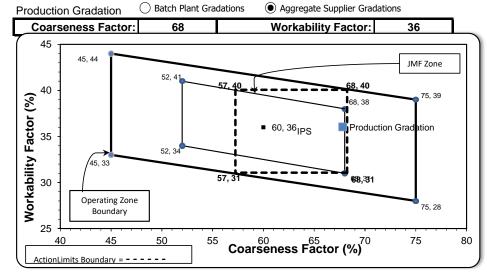
Approved By: n mil 1. Ball

PLANT #	<b>#:</b>	20					Contractor:		
Sample Date	:	7/10/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	7/11/2023	through	7/17/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution			
6AA	71-47	Presque Isle	1550	9.48	2.62	50.8			
26A	71-47	Presque Isle	250	1.53	2.62	8.2			
2NS	63-92	Grange Hall	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"	1	00.0	100	0.0	100.0	100.0	0.0	0.0	1
1.5"	1	00.0	100	0.0	100.0	100.0	0.0	0.0	
1"		96.0	100	0.0	100.0	98.0	2.0	2.0	
3/4"		73.9	100	).0	100.0	86.7	11.2	13.3	
1/2"		30.9	95	.6	100.0	64.5	22.2	35.5	
3/8"		17.3	83	.6	100.0	56.6	7.9	43.4	*Max
#4		3.5	18	.1	97.5	43.2	13.4	56.8	*Any
#8		2.2	5.	0	84.2	36.0	7.2	64.0	nom. I
#16		2.0	2.	6	71.2	30.4	5.6	69.6	*% R
#30		1.9	2.	1	52.6	22.7	7.7	77.3	nom. I
#50		1.8	1.5	9	23.3	10.6	12.1	89.4	*% R
#100		1.7	1.	8	4.4	2.8	7.8	97.2	a 2" m
LBW		1.4	1.	6	0.6	1.1	1.7	98.9	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 Sample (IPS)									
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"	93.3	6.7	6.7						
1/2"	70.6	22.6	29.4						
3/8"	59.6	11.0	40.4						
#4	43.9	15.7	56.1						
#8	35.6	8.4	64.4						
#16	28.4	7.2	71.6						
#30	19.4	9.0	80.6						
#50	7.5	11.9	92.5						
#100	0.9	6.6	99.1						
LBW	0.9	0.1	99.1						

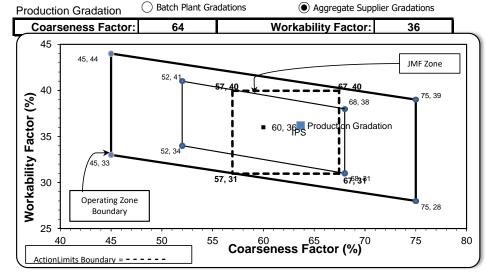
Approved By: Nat 1. Ball

PLANT #: p11						Contractor:			
Sample Date	:	7/10/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	7/11/2023	through	7/17/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution			
6AA	71-47	Presque Isle	1550	9.48	2.62	50.8			
26A	71-47	Presque Isle	270	1.65	2.62	8.9			
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	
1.5"	1	00.0	10	0.0	100.0	100.0	0.0	0.0	
1"	9	96.8	10	0.0	100.0	98.4	1.6	1.6	
3/4"		79.8	10	0.0	100.0	89.7	8.6	10.3	
1/2"		39.2	97	<b>'</b> .0	100.0	68.8	20.9	31.2	
3/8"	:	21.7	90	).6	100.0	59.4	9.5	40.6	*Maxi
#4		4.5	19	9.9	96.7	43.0	16.3	57.0	*Any
#8		2.9	4	.4	85.1	36.2	6.9	63.8	nom. m
#16		2.6	2	2.2		29.8	6.4	70.2	*% Re
#30		2.5	1.7		50.6	21.8	8.0	78.2	nom. m
#50		2.4	1	.6	25.0	11.4	10.4	88.6	*% Re
#100		2.3	1	.5	7.6	4.4	7.1	95.6	a 2" ma
LBW		2.0	1	.3	1.3	1.7	2.7	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 Production Sample (IPS)									
Coars	seness Factor:	62							
Worl	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						

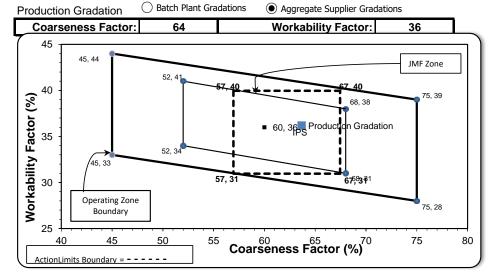
Approved By: Mart P. Ball

PLANT #	<b>#:</b>	P-32					Contractor:		
Sample Date	:	7/10/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	7/11/2023	through	7/17/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific	%			
		ocaroe	• • •		Gravity	Contribution			
6AA	71-47	Presque Isle	1550	9.48	2.62	50.8			
26A	71-47	Presque Isle	270	1.65	2.62	8.9			
2NS	95-013	Smelter Bay	1230	7.44	2.65	40.3			
		Total Wt	3050	18.57		100.0	< Verify this no	umber is 100%	
Sieve		6AA	26	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	00.0	100	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"	1	96.8	100	0.0	100.0	98.4	1.6	1.6	
3/4"		79.8	100	0.0	100.0	89.7	8.6	10.3	1
1/2"	:	39.2	97	.0	100.0	68.8	20.9	31.2	1
3/8"		21.7	90	.6	100.0	59.4	9.5	40.6	*N
#4		4.5	19	.9	96.7	43.0	16.3	57.0	*٨
#8		2.9	4.	4	85.1	36.2	6.9	63.8	nor
#16		2.6	2.	2.2		29.8	6.4	70.2	*%
#30		2.5	1.	7	50.6	21.8	8.0	78.2	nor
#50		2.4	1.	6	25.0	11.4	10.4	88.6	*%
#100		2.3	1.		7.6	4.4	7.1	95.6	a 2"
LBW		2.0	1.	3	1.3	1.7	2.7	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 Production Sample (IPS)									
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						

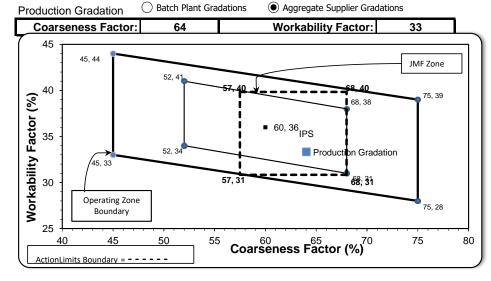
Approved By: Mary P. Ball

PLANT #	<b>#:</b>	P-35					Contractor:		
Sample Date	:	7/10/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	7/11/2023	through	7/17/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution			
6AA	58-003	Stoneco	1650	9.83	2.69	53.2			
26A	58-003	Stoneco	250	1.49	2.69	8.1			
2NS	81-019	Pleasant Lake	1200	7.26	2.65	38.7			
		Total Wt	3100	18.58		100.0	< Verify this no	umber is 100%	_
Sieve		6AA	26	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	100.0	100	).0	100.0	100.0	0.0	0.0	1
1.5"	1	100.0	100	).0	100.0	100.0	0.0	0.0	
1"	1	100.0	100	).0	100.0	100.0	0.0	0.0	1
3/4"		72.6	100	).0	100.0	85.4	14.6	14.6	1
1/2"		38.3	97	.7	100.0	67.0	18.4	33.0	
3/8"		22.2	84	.1	100.0	57.3	9.7	42.7	*
#4		3.2	10	.3	98.3	40.6	16.7	59.4	*
#8		1.6	3.	3	83.2	33.3	7.3	66.7	no
#16		1.4	2.	2.5		26.3	7.1	73.7	*
#30		1.3	2.2		45.9	18.6	7.6	81.4	no
#50		1.2	2.	0	22.2	9.4	9.2	90.6	*0
#100		1.2	1.5		6.0	3.1	6.3	96.9	a 2
LBW		0.9	1.	7	1.1	1.0	2.1	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.



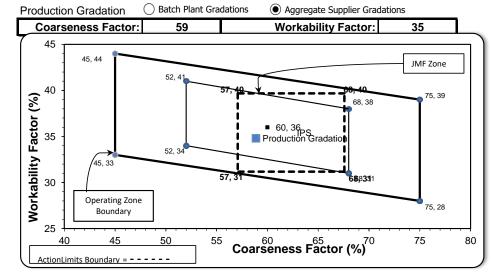
Intial Product	ion Sample (IPS	5)	
Coar	seness Factor:	63	
Wor	kability Factor:	35	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	99.2	0.8	0.8
3/4"	90.9	8.3	9.1
1/2"	71.3	19.6	28.7
3/8"	59.4	11.9	40.6
#4	43.0	16.5	57.0
#8	35.3	7.6	64.7
#16	28.2	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: Mart P. Ball

PLANT #	<b>#:</b>	P-36					Contractor:	
Sample Date	:	7/10/23			Concrete Grade:	S2M, 3500HP		
Dates Test R	epresents:	7/11/2023	through	7/17/2023			MDOT No.:	
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution		
6AA	71-47	Presque Isle	1600	9.79	2.62	52.5		
26A	71-47	Presque Isle	250	1.53	2.62	8.2		
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	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	1	100.0	100	).0	100.0	100.0	0.0	0.0
1.5"	1	100.0	100	).0	100.0	100.0	0.0	0.0
1"		98.7	100	).0	100.0	99.3	0.7	0.7
3/4"		81.5	100	).0	100.0	90.3	9.0	9.7
1/2"		43.7	97	97.0 100.0	70.2	20.1	29.8	
3/8"		28.3	90	.6	100.0	61.6	8.6	38.4
#4		5.5	19	.9	97.5	42.9	18.7	57.1
#8		2.5	4.	4	84.2	34.8	8.1	65.2
#16		2.1	2.2		71.2	29.3	5.5	70.7
#30		2.0	1.7		52.6	21.9	7.4	78.1
#50		1.9	1.	6	23.3	10.3	11.6	89.7
#100		1.8	1.	5	4.4	2.8	7.5	97.2
LBW		1.4	1.	3	0.6	1.1	1.7	98.9



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



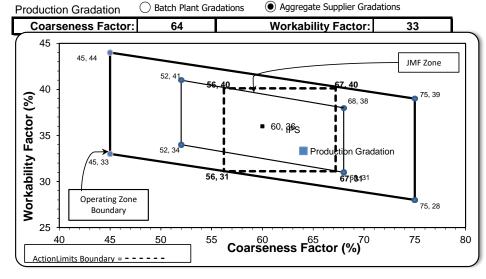
Intial Production Sample (IPS)									
Coars	eness Factor:	62							
Work	ability Factor:	35							
Sieve	Cumulative	%	Cumulative						
Sieve	% Passing	Retained	% Retained						
2"	100.0	0.0	0.0						
1.5"	100.0	0.0	0.0						
1"	99.1	0.9	0.9						
3/4"	90.5	8.6	9.5						
1/2"	69.8	20.7	30.2						
3/8"	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 P. Ball

PLANT #	<b>#:</b>	P-38					Contractor:		
Sample Date	:	7/10/23			Concrete Grade:	S2M, 3500HP			
Dates Test R		7/11/2023	through	7/17/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific Gravity	% Contribution			
6AA	58-003	Stoneco	1650	9.83	2.69	53.2			
26A	58-003	Stoneco	250	1.49	2.69	8.1			
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"		100.0	100	0.0	100.0	100.0	0.0	0.0	
1"		100.0	100	0.0	100.0	100.0	0.0	0.0	
3/4"		72.6	100	0.0	100.0	85.4	14.6	14.6	1
1/2"		38.3	97	.7	100.0	67.0	18.4	33.0	
3/8"		22.2	84	.1	100.0	57.3	9.7	42.7	*N
#4		3.2	10	.3	98.3	40.6	16.7	59.4	*A
#8		1.6	3.	3	83.2	33.3	7.3	66.7	nor
#16		1.4	2.	2.5		26.3	7.1	73.7	*9
#30		1.3	2.	2.2		18.6	7.6	81.4	nor
#50		1.2	2.	0	22.2	9.4	9.2	90.6	*9
#100		1.2	1.		6.0	3.1	6.3	96.9	a 2
LBW		0.9	1.	7	1.1	1.0	2.1	99.0	1



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



Intial Production Sample (IPS)									
Coars	seness Factor:	62							
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"	91.1	8.1	8.9						
1/2"	72.0	19.1	28.0						
3/8"	60.3	11.7	39.7						
#4	43.4	16.9	56.6						
#8	35.6	7.8	64.4						
#16	28.4	7.2	71.6						
#30	21.8	6.7	78.2						
#50	9.1	12.6	90.9						
#100	1.7	7.4	98.3						
LBW	1.1	0.6	98.9						

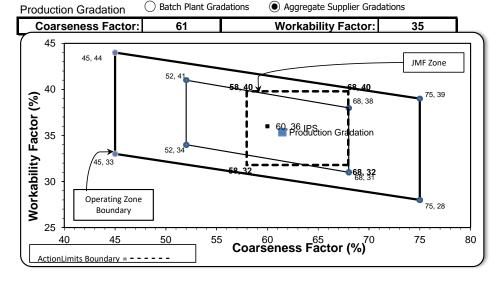
Approved By: Mart P. Ball

PLANT #	<b>#:</b>	P-39					Contractor:		
Sample Date	:	7/10/23			Concrete Grade:	S2M, 3500HP			
Dates Test Represents:		7/11/2023	through	7/17/2023			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	230	1.41	2.62	7.5			
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	Α	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"		98.4	100	0.0	100.0	99.2	0.8	0.8	
3/4"		81.6	100	0.0	100.0	90.5	8.6	9.5	
1/2"		41.4	95	.8	100.0	69.5	21.0	30.5	1
3/8"		24.8	86	.4	100.0	60.3	9.3	39.7	*N
#4		4.8	21	.7	95.9	43.4	16.9	56.6	*/
#8		2.2	6.	0	82.4	35.4	8.1	64.6	nor
#16		2.0	3.	3.2		29.2	6.1	70.8	*9
#30		1.8	2.6		51.0	22.0	7.2	78.0	nor
#50		1.8	2.	3	23.0	10.5	11.5	89.5	*9
#100		1.7	2.	2	5.6	3.3	7.2	96.7	a 2
LBW		1.4	2.	0	1.1	1.3	2.0	98.7	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.



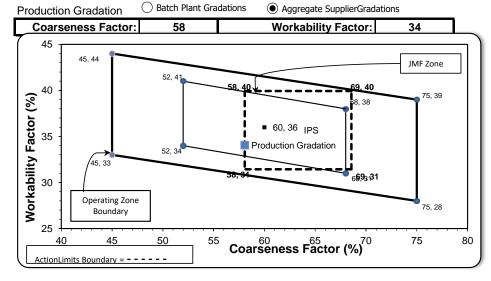
Intial Production Sample (IPS)									
Coars	eness Factor:	63							
Work	ability Factor:	36							
Sieve	Cumulative	%	Cumulative						
Sieve	% Passing	Retained	% Retained						
2"	100.0	0.0	0.0						
1.5"	100.0	0.0	0.0						
1"	100.0	0.0	0.0						
3/4"	89.8	10.2	10.2						
1/2"	1/2" 70.7		29.3						
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: Mary 1. Ball

PLANT #: Sample Date: Dates Test Represents:		<b>P-O2</b>			Concrete Grade:		Contractor:		
		7/10/23				S2M, 3500HP			
		7/11/2023	through	7/17/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft <sup>3</sup>	Specific	%			
			<b>-</b>		Gravity	Contribution			
6AA	71-47	Presque Isle	1600	9.79	2.62	52.5			
26A	71-47	Presque Isle	220	1.35	2.62	7.2			
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	26A		2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	00.0	100.0		100.0	100.0	0.0	0.0	1
1.5"	1	00.0	100.0		100.0	100.0	0.0	0.0	
1"	9	98.7	100.0		100.0	99.3	0.7	0.7	
3/4"	81.5		100.0		100.0	90.3	9.0	9.7	
1/2"	43.7		97.0		100.0	70.2	20.0	29.8	1
3/8"	28.3		90.6		100.0	61.7	8.5	38.3	*
#4	5.5		19.9		96.2	43.1	18.6	56.9	*
#8	2.5		4.4		80.4	34.1	9.1	65.9	no
#16	2.1		2.2		65.5	27.7	6.4	72.3	*(
#30	2.0		1.7		49.9	21.3	6.4	78.7	no
#50	1.9		1.6		26.4	11.8	9.5	88.2	*(
#100	00 1.8		1.5		6.9	3.8	7.9	96.2	a 2
LBW	.BW 1.4		1.3		1.2	1.3	2.5	98.7	1



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



Factor: Factor: nulative assing 00.0 00.0	63 36 % Retained 0.0	Cumulative % Retained 0.0
<b>ulative</b> assing 00.0	% Retained 0.0	% Retained
<b>assing</b> 00.0	Retained 0.0	% Retained
00.0	0.0	
		0.0
00.0	0.0	
	0.0	0.0
0.00	0.0	0.0
95.6	4.4	4.4
73.1	22.6	26.9
59.3	13.8	40.7
12.8	16.5	57.2
35.7	7.1	64.3
28.9	6.8	71.1
<u>2</u> 0.7	8.2	79.3
9.9	10.8	90.1
2.1	7.8	97.9
0.9	1.2	99.1
	95.6   73.1   59.3   12.8   35.7   28.9   20.7   9.9   2.1	35.6   4.4     73.1   22.6     39.3   13.8     42.8   16.5     35.7   7.1     28.9   6.8     20.7   8.2     9.9   10.8     2.1   7.8

Approved By: Mart P. Ball