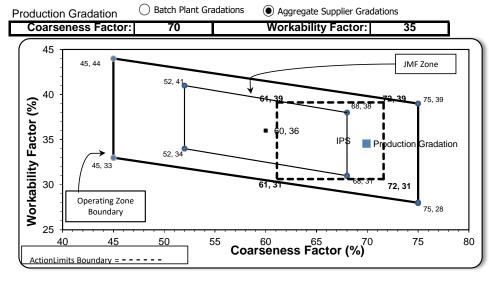
PLANT :	#:	P-101					Contractor:		
Sample Date	:	7/12/21			Concrete Grade:	P1M			
Dates Test R	epresents:	7/13/2021	through	7/19/2021			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific	%			
Agg. Class	1 IL #	Source	Weight (SSD)	п	Gravity	Contribution			
CA	71-47	Presque Isle	1070	6.54	2.62	34.9			
IA	71-47	Presque Isle	800	4.89	2.62	26.1			
2NS	75-051	Mid-Michigan	1200	7.23	2.66	39.1			
		Total Wt	3070	18.67		100.0	< Verify this n	umber is 100%	_
Sieve		CA	I/	4	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	100.0	10	0.0	100.0	100.0	0.0	0.0	
1.5"		98.8	100	0.0	100.0	99.6	0.4	0.4	
1"	:	50.3	10	0.0	100.0	82.7	16.9	17.3	
3/4"		13.6	98	8.6	100.0	69.5	13.2	30.5	
1/2"		3.8	79	9.1	100.0	61.0	8.5	39.0	
3/8"		2.8	54	.4	100.0	54.2	6.8	45.8	*N
#4		2.1	13	8.6	99.3	43.1	11.1	56.9	*/
#8		1.9	4.	.2	83.9	34.6	8.5	65.4	nor
#16		1.8	2.	2.7		28.3	6.3	71.7	*9
#30		1.8	2.	.3	53.6	22.2	6.1	77.8	nor
#50		1.7	2.	.1	27.6	11.9	10.2	88.1	*9
#100		1.6	1.	.9	6.5	3.6	8.3	96.4	a 2
LBW		1.4	1.	.8	0.7	1.2	2.4	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.



Initial Producti	on Sample (IPS	S)	_
Coars	eness Factor:	66	
Work	ability Factor:	35	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	99.6	0.4	0.4
1"	84.3	15.3	15.7
3/4"	74.8	9.6	25.2
1/2"	64.3	10.4	35.7
3/8"	56.8	7.5	43.2
#4	43.0	13.8	57.0
#8	34.9	8.1	65.1
#16	26.4	8.5	73.6
#30	19.9	6.5	80.1
#50	10.4	9.5	89.6
#100	3.4	7.0	96.6
LBW	1.2	2.2	98.8

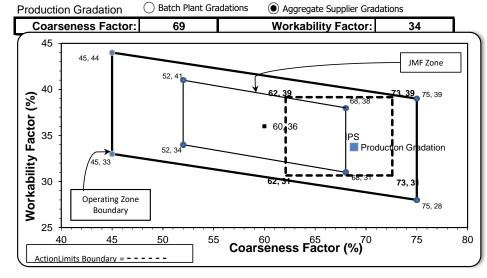
Approved By: Mart 1. Ball

PLANT #	#:	P-102					Contractor:		
Sample Date	•:	7/12/21			Concrete Grade:	P1M			
Dates Test R	-	7/13/2021	through	7/19/2021			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
CA	58-003	Stoneco	1420	8.46	2.69	45.5			
IA	58-003	Stoneco	500	2.98	2.69	16.0			
2NS	63-114	Highland	1200	7.26	2.65	38.5			
		Total Wt	3120	18.70		100.0	< Verify this n	umber is 100%	_
Sieve		CA	I/	A	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"	6	63.9	100	0.0	100.0	83.6	16.4	16.4	
3/4"	3	30.1	100	0.0	100.0	68.2	15.4	31.8	1
1/2"	1	1.1	94	.8	100.0	58.7	9.5	41.3	
3/8"		6.5	81	.0	100.0	54.4	4.3	45.6	*
#4		2.2	23	3.9	99.1	42.9	11.5	57.1	*
#8		1.6	7.	.8	82.6	33.7	9.2	66.3	no
#16		1.3	4.	.2	63.1	25.5	8.2	74.5	*
#30		1.1	2.	.7	43.5	17.7	7.9	82.3	no
#50		1.1	2.	.3	19.8	8.5	9.2	91.5	*
#100		1.0	2.		4.9	2.7	5.8	97.3	a 2
LBW		0.9	1.	.9	0.4	0.9	1.8	99.1	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., nom. max., #100 and #200 sieves.
*% Retained must be at least 4% for each sieve except max., nom. max., #100 and #200 sieves.
*% Retained must be at least 8% for the 1" sieve when 12" max. size (nom. Max. 1.5") aggregate is used.



Intial Production	on Sample (IPS	5)	-
Coars	eness Factor:	67	
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"	85.5	14.5	14.5
3/4"	73.4	12.1	26.6
1/2"	61.0	12.4	39.0
3/8"	56.2	4.8	43.8
#4	43.1	13.1	56.9
#8	34.9	8.2	65.1
#16	29.4	5.5	70.6
#30	21.6	7.8	78.4
#50	8.1	13.4	91.9
#100	2.2	5.9	97.8
LBW	1.4	0.8	98.6

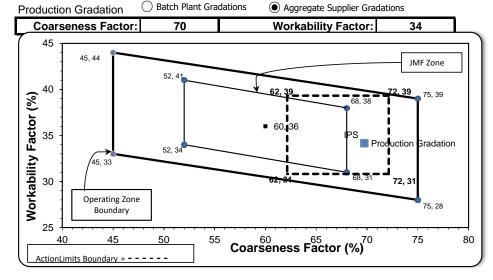
Approved By: Mart 1. Ball

PLANT #	#:	P-12					Contractor:				
Sample Date	:	7/12/21			Concrete Grade:	P1M					
Dates Test R	epresents:	7/13/2021	through	7/19/2021			MDOT No.:				
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific	%					
Ayy. Class	Fit #	Source	Weight (SSD)	п	Gravity	Contribution					
CA	71-47	Presque Isle	820	5.02	2.62	26.7					
IA	71-47	Presque Isle	1000	6.12	2.62	32.6					
2NS	63-115	Ray Rd	1250	7.56	2.65	40.7					
		Total Wt	3070	18.69		100.0	< Verify this n	umber is 100%	_		
Sieve		CA	I/	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	10	0.0	100.0	100.0	0.0	0.0			
1"		52.4	10	0.0	100.0	87.3	12.7	12.7	1		
3/4"		11.0	97	' .6	100.0	75.4	11.8	24.6	1		
1/2"		3.1	66	66	66	66.7	100.0	63.3	12.2	36.7	
3/8"		2.5	39	9.0	100.0	54.1	9.2	45.9	*		
#4		2.2	8.	.0	96.6	42.5	11.6	57.5	*/		
#8		2.1	3.	.4	79.8	34.2	8.4	65.8	nor		
#16		1.9	2.	2.8		27.2	7.0	72.8	*9		
#30		1.8	2.	.7	47.1	20.5	6.7	79.5	nor		
#50		1.8	2.	.6	24.7	11.4	9.2	88.6	*9		
#100		1.7	2.	.4	5.3	3.4	8.0	96.6	a 2		
LBW		1.4	2.	.0	0.7	1.3	2.1	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	on Sample (IPS	5)	_
Coars	eness Factor:	67	
Work	ability Factor:	35	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	99.6	0.4	0.4
1"	83.9	15.7	16.1
3/4"	74.0	9.8	26.0
1/2"	63.7	10.3	36.3
3/8"	56.4	7.3	43.6
#4	43.0	13.4	57.0
#8	35.1	7.9	64.9
#16	29.0	6.1	71.0
#30	20.9	8.0	79.1
#50	8.1	12.8	91.9
#100	1.6	6.5	98.4
LBW	0.9	0.8	99.1
			-

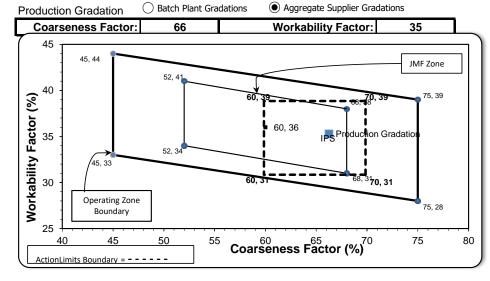
Approved By: Mart 1. Ball

PLANT #	#:	P-20					Contractor:		
Sample Date:	:	7/12/21			Concrete Grade:	P1M			
Dates Test R	epresents:	7/13/2021	through	7/19/2021			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
CA	71-47	Presque Isle	950	5.81	2.62	30.9			
IA	71-47	Presque Isle	920	5.63	2.62	30.0			
2NS	63-92	Grange Hall	1200	7.26	2.65	39.1			
		Total Wt	3070	18.70		100.0	< Verify this n	umber is 100%	
Sieve		CA	I/	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"	9	98.8	100	0.0	100.0	99.6	0.4	0.4	1
1"	ł	51.4	100	0.0	100.0	85.0	14.7	15.0	1
3/4"		12.9	98	.8	100.0	72.7	12.3	27.3	
1/2"		3.4	80	.5	100.0	64.3	8.4	35.7	
3/8"		2.4	57	.7	100.0	57.1	7.1	42.9	
#4		1.7	16	.5	98.1	43.8	13.3	56.2	
#8		1.5	6.	9	83.8	35.3	8.5	64.7	n
#16	1.4		4.	3	67.8	28.2	7.1	71.8	
#30		1.4	3.	4	47.6	20.1	8.2	79.9	n
#50		1.3	3.	0	20.2	9.2	10.9	90.8	•
#100		1.2	2.	8	2.9	2.3	6.9	97.7	а
LBW		1.1	2.	4	0.7	1.3	1.0	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 Product	ion Sample (IPS	5)	_
Coars	seness Factor:	65	
Worl	ability Factor:	35	
Sieve	Cumulative	%	Cumulative
Sleve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	99.1	0.9	0.9
1"	80.8	18.2	19.2
3/4"	71.3	9.6	28.7
1/2"	64.0	7.3	36.0
3/8"	57.7	6.2	42.3
#4	42.8	15.0	57.2
#8	34.8	7.9	65.2
#16	28.4	6.4	71.6
#30	20.2	8.2	79.8
#50	7.6	12.6	92.4
#100	1.6	6.0	98.4
LBW	LBW 1.0		99.0

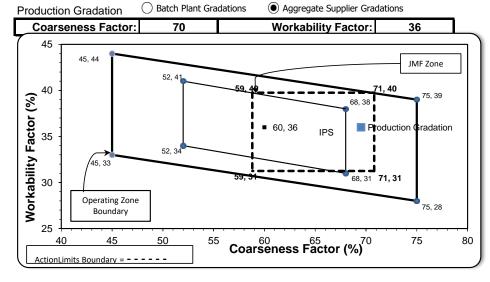
Approved By: Mart 1. Ball

PLANT #	#:	P-32					Contractor:		
Sample Date	:	7/12/21			Concrete Grade:	P1M			
Dates Test R	epresents:	7/13/2021	through	7/19/2021			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
CA	71-47	Presque Isle	700	4.28	2.62	22.8			
IA	71-47	Presque Isle	1120	6.85	2.62	36.5			
2NS	95-013	Smelter Bay	1250	7.56	2.65	40.7			
		Total Wt	3070	18.69		100.0	< Verify this n	umber is 100%	_
Sieve		CA	I/	A	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	100	0.0	100.0	100.0	0.0	0.0	
1"		52.4	10	0.0	100.0	89.1	10.9	10.9	
3/4"		11.0	97	<i>.</i> .6	100.0	78.8	10.3	21.2	
1/2"		3.1	66	5.7	100.0	65.8	13.1	34.2	-
3/8"		2.5	39	0.0	100.0	55.5	10.2	44.5	*1
#4		2.2	8.	.0	96.6	42.8	12.8	57.2	*/
#8		2.1	3.	.4	84.2	36.0	6.7	64.0	noi
#16		1.9	2.	.8	72.2	30.9	5.2	69.1	*0
#30		1.8	2.	.7	48.1	21.0	9.9	79.0	noi
#50		1.8	2.	.6	19.5	9.3	11.7	90.7	*0
#100		1.7		.4	4.5	3.1	6.2	96.9	a 2
LBW		1.4	2.	.0	1.8	1.8	1.3	98.2	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	eness Factor:	65	
Work	ability Factor:	36	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	99.0	0.6	0.6
1"	84.0	15.3	16.0
3/4"	73.5	10.5	26.5
1/2"	65.2	8.2	34.8
3/8"	58.2	7.1	41.8
#4	44.1	14.1	55.9
#8	35.5	8.6	64.5
#16	29.1	6.4	70.9
#30	21.9	7.3	78.1
#50	9.6	12.2	90.4
#100	2.6	7.1	97.4
LBW	1.0	1.6	99.0

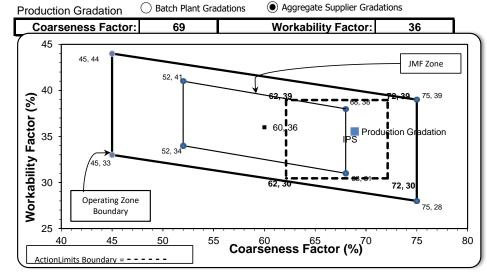
Approved By: Mart P. Ball

PLANT #	#:	P-35					Contractor:																							
Sample Date	:	7/12/21			Concrete Grade:	P1M																								
Dates Test R	epresents:	7/13/2021	through	7/19/2021			MDOT No.:																							
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution																								
CA	58-003	Stoneco	1370	8.16	2.69	43.9																								
IA	58-003	Stoneco	550	3.28	2.69	17.6																								
2NS	81-093	Burmeister	1200	7.26	2.65	38.5																								
		Total Wt	3120	18.70		100.0	< Verify this n	umber is 100%	_																					
Sieve		CA	IJ	A	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"	6	63.9	10	0.0	100.0	84.1	15.9	15.9	1																					
3/4"		30.1	10	0.0	100.0	69.3	14.8	30.7	1																					
1/2"		11.1	94	94	94	94.8	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94				.8	100.0	60.0	9.3	40.0	
3/8"		6.5	81	.0	100.0	55.6	4.5	44.4	,																					
#4		2.2	23	5.9	98.5	43.1	12.5	56.9	*																					
#8		1.6	7.	.8	87.0	35.5	7.5	64.5	nc																					
#16		1.3 4.2 71.5 28.8	3 4.2 71.5	28.8	6.7	71.2	*																							
#30		1.1	2	7	50.9	20.5	8.3	79.5	nc																					
#50		1.1	2	.3	17.2	7.5	13.0	92.5	*																					
#100		1.0	2	.1	2.6	1.8	5.7	98.2	a																					
LBW		0.9	1.	.9	0.7	1.0	0.8	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 Producti	on Sample (IPS	5)	_
Coars	eness Factor:	67	
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"	86.9	13.1	13.1
3/4"	76.1	10.8	23.9
1/2"	63.7	12.4	36.3
3/8"	56.2	7.5	43.8
#4	43.2	13.0	56.8
#8	34.7	8.5	65.3
#16	27.5	7.2	72.5
#30	20.6	7.0	79.4
#50	9.0	11.6	91.0
#100	2.1	6.9	97.9
LBW	1.0	1.1	99.0

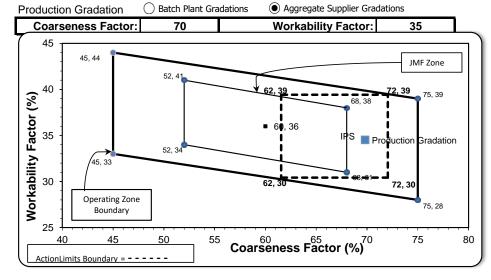
Approved By: Mart 1. Ball

PLANT #:		P-36					Contractor:		
Sample Date	:	7/12/21			Concrete Grade:	P1M			
Dates Test R	epresents:	7/13/2021	through	7/19/2021			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific	%			
CA	71-47	Presque Isle	720	4.40	Gravity 2.62	23.5			
IA	71-47		1150	7.03	2.62	37.5			
2NS	63-92	Presque Isle Grange Hall	1200	7.03	2.62	39.1			
2113	03-92	Total Wt	3070	18.70	2.05	100.0	< Verify this n	umber is 100%	
Sieve		CA	I/	4	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	1
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"	:	52.4	100	0.0	100.0	88.8	11.2	11.2	
3/4"		11.0	97	<i>.</i> .6	100.0	78.2	10.6	21.8	1
1/2"		3.1	66	5.7	100.0	64.8	13.4	35.2	
3/8"		2.5	39	0.0	100.0	54.3	10.5	45.7	
#4		2.2	8.	.0	98.1	41.9	12.4	58.1	
#8		2.1	3.	.4	83.8	34.5	7.3	65.5	n
#16		1.9	2.	.8	67.8	28.0	6.5	72.0	
#30		1.8	2.	.7	47.6	20.0	8.0	80.0	n
#50		1.8	2.	6	20.2	9.3	10.7	90.7	
#100		1.7	2.		2.9	2.4	6.9	97.6	а
LBW		1.4	2.	.0	0.7	1.4	1.1	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.



Intial Product	ion Sample (IPS	5)	
Coars	seness Factor:	67	
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"	85.0	15.0	15.0
3/4"	72.1	12.9	27.9
1/2"	64.5	7.6	35.5
3/8"	56.5	8.0	43.5
#4	42.7	13.8	57.3
#8	34.9	7.8	65.1
#16	29.0	5.9	71.0
#30	21.0	8.0	79.0
#50	8.2	12.8	91.8
#100	1.6	6.5	98.4
LBW	0.7	0.9	99.3

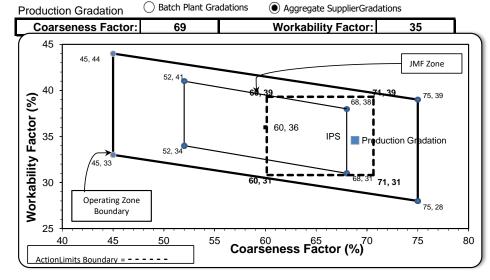
Approved By: Mart P. Ball

PLANT #:		P-39					Contractor:		
Sample Date	:	7/12/21			Concrete Grade:	P1M			
Dates Test R	epresents:	7/13/2021	through	7/19/2021			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific	%			-
			_	-	Gravity	Contribution			
CA	71-47	Presque Isle	1070	6.54	2.62	34.9			
IA	71-47	Presque Isle	750	4.59	2.62	24.4			
2NS	44-051	Krake Willis Rd	1250	7.56	2.65	40.7			
		Total Wt	3070	18.69		100.0	< Verify this n	umber is 100%	
Sieve		CA	14	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"		100.0	100	0.0	100.0	100.0	0.0	0.0	1
1.5"		98.8	100	0.0	100.0	99.6	0.4	0.4	
1"		50.3	100	0.0	100.0	82.7	16.9	17.3	
3/4"		13.6	98	.6	100.0	69.5	13.1	30.5	1
1/2"		3.8	79	.1	100.0	61.4	8.2	38.6	1
3/8"		2.8	54	.4	100.0	55.0	6.4	45.0	
#4		2.1	13	.6	97.3	43.7	11.3	56.3	
#8		1.9	4.	2	80.8	34.6	9.1	65.4	n
#16		1.8	2.	7	66.3	28.3	6.3	71.7	
#30		1.8	2.	3	50.6	21.8	6.5	78.2	n
#50		1.7	2.	1	25.8	11.6	10.2	88.4	
#100		1.6	1.	9	7.8	4.2	7.4	95.8	а
LBW		1.4	1.	8	1.5	1.5	2.7	98.5	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:	65							
Work	ability Factor:	35							
Sieve	Cumulative	%	Cumulative						
Sieve	% Passing	Retained	% Retained						
2"	100.0	0.0	0.0						
1.5"	99.6	0.4	0.4						
1"	83.9	15.7	16.1						
3/4"	74.1	9.8	25.9						
1/2"	64.3	9.7	35.7						
3/8"	57.5	6.8	42.5						
#4	44.5	13.1	55.5						
#8	35.1	9.4	64.9						
#16	27.9	7.2	72.1						
#30	21.7	6.2	78.3						
#50	12.6	9.1	87.4						
#100	3.5	9.1	96.5						
LBW	1.2	2.4	98.8						

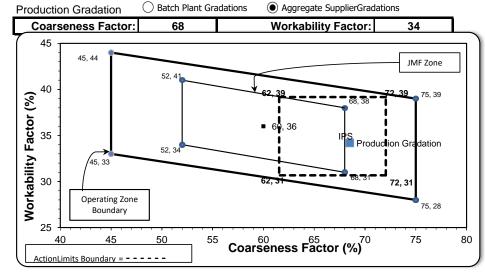
Approved By: Mart 1. Ball

PLANT #:		P-O2					Contractor:		
Sample Date	:	7/12/21			Concrete Grade:	P1M			
Dates Test R	epresents:	7/13/2021	through	7/19/2021			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
CA	71-47	Presque Isle	750	4.59	2.62	24.4			
IA	71-47	Presque Isle	1070	6.54	2.62	34.9			
2NS	63-115	Ray Rd	1250	7.56	2.65	40.7			
		Total Wt	3070	18.69		100.0	< Verify this n	umber is 100%	
Sieve		CA	I/	A	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	100	0.0	100.0	100.0	0.0	0.0	
1"	į	52.4	10	0.0	100.0	88.4	11.6	11.6	
3/4"		11.0	97	' .6	100.0	77.4	11.0	22.6	٦
1/2"		3.1	66	6.7	100.0	64.7	12.7	35.3	
3/8"		2.5	39	9.0	100.0	54.9	9.8	45.1	
#4		2.2	8.	.0	96.6	42.7	12.3	57.3	
#8		2.1	3.	.4	79.8	34.2	8.5	65.8	
#16		1.9	2.	.8	63.3	27.2	7.0	72.8	٦
#30		1.8	2.	.7	47.1	20.6	6.7	79.4	1
#50		1.8	2.	.6	24.7	11.4	9.2	88.6	
#100		1.7		.4	5.3	3.4	8.0	96.6	á
LBW		1.4	2.	.0	0.7	1.3	2.1	98.7	٦



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., nom. max., #100 and #200 sieves.
*% Retained must be at least 4% for each sieve except max., nom. max., #100 and #200 sieves.
*% Retained must be at least 8% for the 1" sieve when 12" max. size (nom. Max. 1.5") aggregate is used.



Intial Producti	on Sample (IPS	5)	_
Coars	eness Factor:	67	
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"	85.0	15.0	15.0
3/4"	72.3	12.7	27.7
1/2"	64.5	7.8	35.5
3/8"	56.5	8.0	43.5
#4	42.7	13.8	57.3
#8	34.9	7.8	65.1
#16	29.0	5.9	71.0
#30	21.0	8.0	79.0
#50	8.2	12.8	91.8
#100	1.6	6.5	98.4
LBW	0.7	0.9	99.3

Approved By: Mart 1. Ball