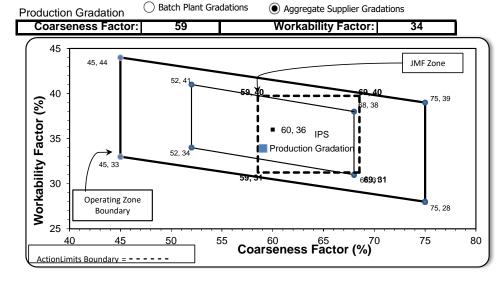
PLANT :	#:	P-101					Contractor:		
Sample Date):	9/25/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	9/26/2023	through	10/2/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	71-47	Presque Isle	1825	11.16	2.62	59.7			
26A	71-47	Presque Isle	0	0.00	2.62	0.0			
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
1.5"	1	100.0	100	0.0	100.0	100.0	0.0	0.0	
1"	1	100.0	100	0.0	100.0	100.0	0.0	0.0	
3/4"		91.1	100	0.0	100.0	94.7	5.3	5.3	
1/2"		54.7	97	.0	100.0	72.9	21.7	27.1	
3/8"		34.7	88	.7	100.0	61.0	11.9	39.0	*
#4		5.5	22	6	96.1	42.0	19.0	58.0	*/
#8		2.6	4.	9	80.4	33.9	8.1	66.1	nor
#16	2.4		2.	2	65.6	27.8	6.1	72.2	*0
#30		2.3	1.	8	50.3	21.6	6.2	78.4	noi
#50		2.2	1.	6	24.3	11.1	10.5	88.9	*0
#100		2.1	1.	5	8.2	4.6	6.5	95.4	a 1
LBW		1.8	1.	4	1.1	1.5	3.0	98.5	1



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



Initial Producti	on Sample (IPS	S)	_
Coars	eness Factor:	64	
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"	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

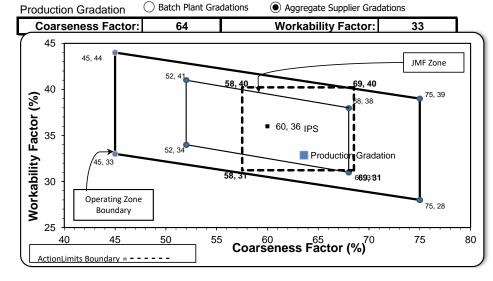
Approved By: Mart 1. Ball

PLANT #: P-102						Contractor:										
Sample Date	:	9/25/23			Concrete Grade:	S2M, 3500HP										
Dates Test R	epresents:	9/26/2023	through	10/2/2023			MDOT No.:									
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution										
6AA	58-003	Stoneco	1625	9.68	2.69	52.4										
26A	58-003	Stoneco	275	1.64	2.69	8.9										
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"		99.8	100	0.0	100.0	99.9	0.1	0.1								
3/4"		83.1	100	10	10	10	10	10		100	0.0	100.0	91.1	8.8	8.9	1
1/2"		42.7	99	.4	100.0	69.9	21.2	30.1								
3/8"		20.7	87	.3	100.0	57.3	12.6	42.7	,							
#4		3.5	10	.1	97.5	40.5	16.8	59.5	3							
#8		1.8	2.	9	81.8	32.9	7.6	67.1	no							
#16		1.6	2.1		64.4	26.0	6.9	74.0	3							
#30		1.4	1.	8	45.6	18.5	7.4	81.5	n							
#50		1.4	1.	6	22.5	9.6	9.0	90.4	*							
#100		1.3	1.	6	6.3	3.3	6.3	96.7	а							
LBW		1.0	1.	4	1.1	1.1	2.2	98.9	1							



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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 4% for the 3/4" sieve when
1.5" max. size (nom. Max. 1.0") aggregate is used.



Intial Producti	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"	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

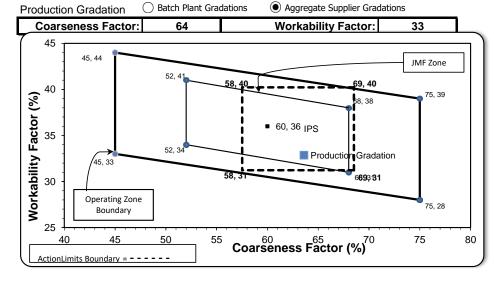
Approved By: Nat 1. Ball

PLANT :	#:	P-103					Contractor:		
Sample Date	e:	9/25/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	9/26/2023	through	10/2/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	58-003	Stoneco	1625	9.68	2.69	52.4			
26A	58-003	Stoneco	275	1.64	2.69	8.9			
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	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"		99.8	100	.0	100.0	99.9	0.1	0.1	1
3/4"		83.1	100	.0	100.0	91.1	8.8	8.9	
1/2"		42.7	99.	4	100.0	69.9	21.2	30.1	
3/8"		20.7	87.	3	100.0	57.3	12.6	42.7	*N
#4		3.5	10.	.1	97.5	40.5	16.8	59.5	*A
#8		1.8	2.9	9	81.8	32.9	7.6	67.1	non
#16		1.6	2.1		64.4	26.0	6.9	74.0	*%
#30		1.4	1.8		45.6	18.5	7.4	81.5	non
#50		1.4	1.0	6	22.5	9.6	9.0	90.4	*%
#100		1.3	1.0		6.3	3.3	6.3	96.7	a 1.
LBW		1.0	1.4	4	1.1	1.1	2.2	98.9	I



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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 4% for the 3/4" sieve when 1.5" max. size (nom. Max. 1.0") aggregate is used.



Intial Producti	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"	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
LDVV	0.0	0.0	53.4

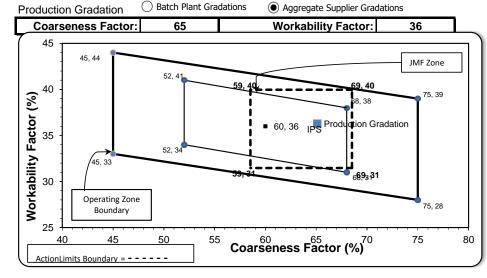
Approved BY: Mary P. Ball

PLANT :	#:	14					Contractor:		
Sample Date):	9/25/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	Represents:	9/26/2023	through	10/2/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	58-003	Stoneco	1575	9.38	2.69	50.6			
26A	58-003	Stoneco	325	1.94	2.69	10.5			
2NS	19-04	Schlegel	1210	7.26	2.67	38.9			
		Total Wt	3110	18.58		100.0	< Verify this n	umber is 100%	-
Sieve	e	6AA	26	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"	ç	99.8	100	0.0	100.0	99.9	0.1	0.1	
3/4"	8	33.1	100	0.0	100.0	91.4	8.5	8.6	
1/2"	4	42.7	99	.4	100.0	70.9	20.5	29.1	
3/8"	4	20.7	87	7.3	100.0	58.5	12.4	41.5	*Maximum %
#4		3.5	10).1	99.9	41.7	16.8	58.3	*Any two adja
#8		1.8	2.	.9	90.1	36.3	5.4	63.7	nom. max., #10
#16		1.6	2.	.1	69.4	28.0	8.2	72.0	*% Retained n
#30		1.4	1.	.8	44.5	18.2	9.8	81.8	nom. max., #10
#50		1.4	1.	6	14.3	6.4	11.8	93.6	*% Retained n
#100		1.3	1.	.6	2.7	1.9	4.6	98.1	a 1.5" max. size
LBW		1.0	1.	.4	0.2	0.7	1.1	99.3	



Builders Redi-Mix

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



Intial Production	on Sample (IPS)	_
Coars	eness Factor:	64	
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"	59.2	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

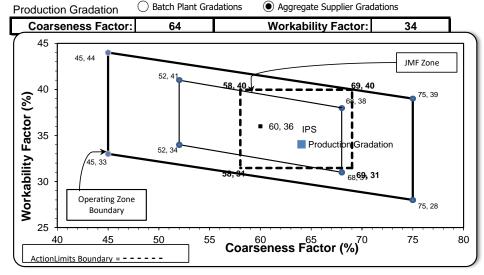
PLANT #	#:	12					Contractor:		
Sample Date	:	9/25/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	9/26/2023	through	10/2/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific	%			
	-		_	-	Gravity	Contribution			
6AA	71-47	Presque Isle	1550	9.48	2.62	50.8			
26A	71-47	Presque Isle	270	1.65	2.62	8.9			
2NS	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	00.0	100).0	100.0	100.0	0.0	0.0	
1.5"	1	00.0	100).0	100.0	100.0	0.0	0.0	
1"	1	97.5	100).0	100.0	98.7	1.3	1.3	
3/4"		79.4	100).0	100.0	89.5	9.2	10.5	
1/2"	:	38.3	93	.0	100.0	68.0	21.5	32.0	
3/8"		20.1	81	.5	100.0	57.8	10.3	42.2	*
#4		2.5	19	.2	96.4	41.8	15.9	58.2	*/
#8		1.6	4.	6	81.4	34.0	7.8	66.0	noi
#16		1.5	2.	2.4		27.8	6.3	72.2	*0
#30		1.4	1.	9	49.4	20.8	7.0	79.2	noi
#50		1.3	1.	8	24.5	10.7	10.1	89.3	*9
#100		1.3	1.		5.3	2.9	7.8	97.1	a 1
LBW		1.0	1.	5	0.6	0.9	2.1	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., 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 4% for the 3/4" sieve when 1.5" max. size (nom. Max. 1.0") aggregate is used.



		5)	-
Coars	eness Factor:	64	
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"	59.2	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

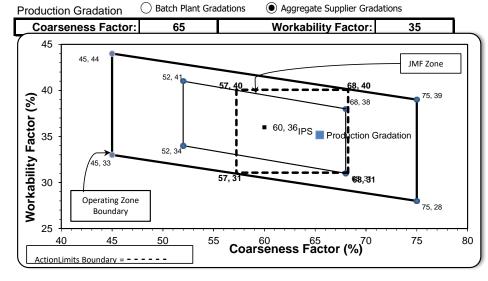
Approved By: Mart P. Ball

PLANT #	#:	20					Contractor:		
Sample Date	:	9/25/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	9/26/2023	through	10/2/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	71-47	Presque Isle	1700	10.40	2.62	55.7			
26A	71-47	Presque Isle	100	0.61	2.62	3.3			
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	100.0	100.0	0.0	0.0	
1"		97.2	100).0	100.0	98.4	1.6	1.6	
3/4"		82.8	100).0	100.0	90.4	8.0	9.6	1
1/2"		41.8	97	.8	100.0	67.5	22.9	32.5	
3/8"	:	24.4	90	.9	100.0	57.6	9.9	42.4	*N
#4		3.6	26	.3	97.3	42.7	14.8	57.3	*/
#8		1.9	5.	2	82.8	35.2	7.6	64.8	nor
#16		1.7	2.	2.0		28.9	6.3	71.1	*9
#30		1.6	1.	5	49.6	21.3	7.6	78.7	nor
#50		1.6	1.	4	20.2	9.2	12.1	90.8	*%
#100		1.5	1.		2.7	2.0	7.2	98.0	a 1.
LBW		1.3	1.	2	0.1	0.8	1.2	99.2	



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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., mm. max., #100 and #200 sieves. % Retained must be at least 4% for the 3/4" sieve when 1.5" max. size (nom. Max. 1.0") aggregate is used.



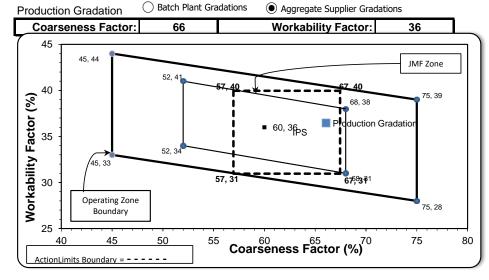
Intial Product	ion Sample (IPS	5)	-
Coars	seness Factor:	63	
Worl	cability Factor:	36	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	100.0	0.0	0.0
3/4"	93.3	6.7	6.7
1/2"	70.6	22.6	29.4
3/8"	59.6	11.0	40.4
#4	43.9	15.7	56.1
#8	35.6	8.4	64.4
#16	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	:	9/25/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	9/26/2023	through	10/2/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	71-47	Presque Isle	1500	9.17	2.62	49.2			
26A	71-47	Presque Isle	320	1.96	2.62	10.5			
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"	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"		95.1	100).0	100.0	97.6	2.4	2.4	
3/4"		70.8	100).0	100.0	85.6	12.0	14.4	1
1/2"	:	32.7	93	.0	100.0	66.2	19.5	33.8	
3/8"		18.6	81	.5	100.0	58.0	8.1	42.0	*N
#4		3.3	19	.2	97.0	42.8	15.3	57.2	*A
#8		2.0	4.	6	86.8	36.5	6.3	63.5	nor
#16		1.8	2.4	4	72.3	30.3	6.2	69.7	*%
#30		1.7	1.	9	51.4	21.8	8.5	78.2	non
#50		1.6	1.	8	24.3	10.8	11.0	89.2	*%
#100		1.5	1.		7.2	3.8	7.0	96.2	a 1.
LBW		1.1	1.	5	1.6	1.3	2.5	98.7	



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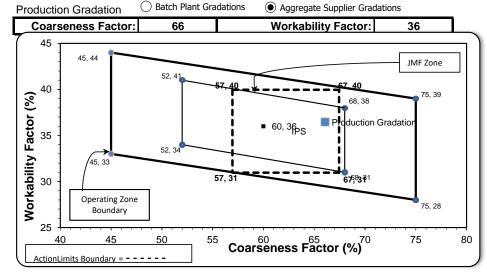
Intial Production	on Sample (IPS	5)	_
Coars	eness Factor:	62	
Work	ability Factor:	35	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	100.0	0.0	0.0
3/4"	94.0	6.0	6.0
1/2"	70.2	23.7	29.8
3/8"	59.9	10.4	40.1
#4	42.7	17.2	57.3
#8	35.5	7.2	64.5
#16	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 #	#:	P-32					Contractor:		
Sample Date	:	9/25/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	9/26/2023	through	10/2/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	71-47	Presque Isle	1500	9.17	2.62	49.2			
26A	71-47	Presque Isle	320	1.96	2.62	10.5			
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"	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"	1	95.1	100	0.0	100.0	97.6	2.4	2.4	
3/4"		70.8	100	0.0	100.0	85.6	12.0	14.4	
1/2"		32.7	93	.0	100.0	66.2	19.5	33.8	
3/8"		18.6	81	.5	100.0	58.0	8.1	42.0	*N
#4		3.3	19	.2	97.0	42.8	15.3	57.2	*A
#8		2.0	4.	6	86.8	36.5	6.3	63.5	nor
#16		1.8	2.	4	72.3	30.3	6.2	69.7	*%
#30		1.7	1.	9	51.4	21.8	8.5	78.2	nor
#50		1.6	1.	8	24.3	10.8	11.0	89.2	*%
#100		1.5	1.		7.2	3.8	7.0	96.2	a 1.
LBW		1.1	1.	5	1.6	1.3	2.5	98.7	1



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Intial Production	on 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"	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

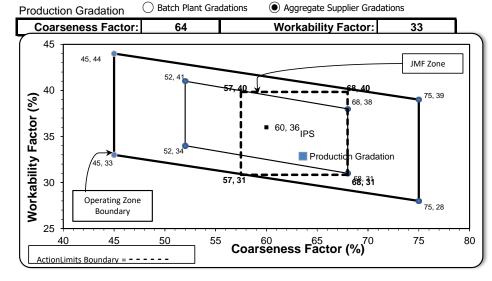
Approved By: Mart 1. Ball

PLANT #	#:	P-35					Contractor:		
Sample Date	:	9/25/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	9/26/2023	through	10/2/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	58-003	Stoneco	1625	9.68	2.69	52.4			
26A	58-003	Stoneco	275	1.64	2.69	8.9			
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	
1.5"	1	100.0	100	0.0	100.0	100.0	0.0	0.0	
1"		99.8	100).0	100.0	99.9	0.1	0.1	
3/4"		83.1	100).0	100.0	91.1	8.8	8.9	1
1/2"		42.7	99	.4	100.0	69.9	21.2	30.1	
3/8"		20.7	87	.3	100.0	57.3	12.6	42.7	*
#4		3.5	10	.1	97.5	40.5	16.8	59.5	*
#8		1.8	2.	9	81.8	32.9	7.6	67.1	no
#16		1.6	2.	1	64.4	26.0	6.9	74.0	*
#30		1.4	1.5	8	45.6	18.5	7.4	81.5	no
#50		1.4	1.0	6	22.5	9.6	9.0	90.4	*(
#100		1.3	1.0		6.3	3.3	6.3	96.7	a 1
LBW		1.0	1.4	4	1.1	1.1	2.2	98.9]



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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 4% for the 3/4" sieve when 1.5" max. size (nom. Max. 1.0") aggregate is used.



Intial Production Sample (IPS)									
Coars	eness Factor:	63							
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"	99.2	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						

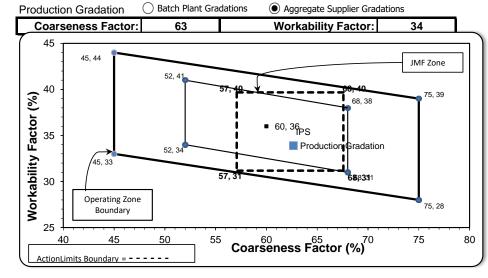
Approved By: Mart P. Ball

PLANT #	#:	P-36					Contractor:		
Sample Date	:	9/25/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	9/26/2023	through	10/2/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	71-47	Presque Isle	1500	9.17	2.62	49.2			
26A	71-47	Presque Isle	350	2.14	2.62	11.5			
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	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"	1	97.5	100	0.0	100.0	98.8	1.2	1.2	
3/4"		79.4	100	0.0	100.0	89.9	8.9	10.1	
1/2"		38.3	93	.0	100.0	68.9	21.0	31.1	
3/8"	:	20.1	81	.5	100.0	58.6	10.3	41.4	1
#4		2.5	19	.2	97.3	41.7	16.9	58.3	
#8		1.6	4.	6	82.8	33.9	7.8	66.1	no
#16		1.5	2.	4	68.0	27.8	6.1	72.2	,
#30		1.4	1.	9	49.6	20.4	7.3	79.6	nc
#50		1.3	1.	8	20.2	8.8	11.6	91.2	*
#100		1.3	1.		2.7	1.9	6.9	98.1	а
LBW		1.0	1.	5	0.1	0.7	1.2	99.3	1



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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 4% for the 3/4" sieve when 1.5" max. size (nom. Max. 1.0") aggregate is used.



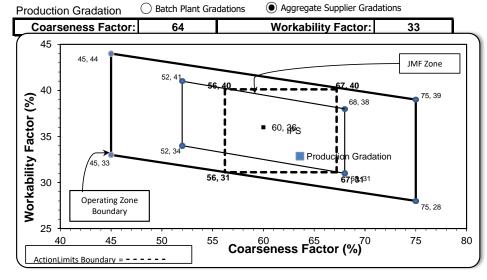
Intial Production	on Sample (IPS	5)	_
Coars	eness Factor:	62	
Work	ability Factor:	35	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	99.1	0.9	0.9
3/4"	90.5	8.6	9.5
1/2"	69.8	20.7	30.2
3/8"	59.8	10.0	40.2
#4	42.2	17.6	57.8
#8	35.4	6.7	64.6
#16	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 #	#:	P-38					Contractor:		
Sample Date	:	9/25/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	9/26/2023	through	10/2/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	58-003	Stoneco	1625	9.68	2.69	52.4			
26A	58-003	Stoneco	275	1.64	2.69	8.9			
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"		99.8	100	0.0	100.0	99.9	0.1	0.1	1
3/4"		83.1	100	0.0	100.0	91.1	8.8	8.9	
1/2"		42.7	99	.4	100.0	69.9	21.2	30.1	
3/8"		20.7	87	.3	100.0	57.3	12.6	42.7	4
#4		3.5	10	.1	97.5	40.5	16.8	59.5	1
#8		1.8	2.	9	81.8	32.9	7.6	67.1	no
#16		1.6	2.	1	64.4	26.0	6.9	74.0	1
#30		1.4	1.	8	45.6	18.5	7.4	81.5	n
#50		1.4	1.	6	22.5	9.6	9.0	90.4	*
#100		1.3	1.	6	6.3	3.3	6.3	96.7	а
LBW		1.0	1.	4	1.1	1.1	2.2	98.9	1



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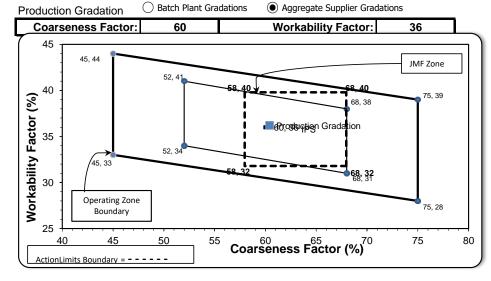
Intial Production Sample (IPS)									
Coars	seness Factor:	62							
Work	ability Factor:	36							
Sieve	Cumulative	%	Cumulative						
Sieve	% Passing	Retained	% Retained						
2"	100.0	0.0	0.0						
1.5"	100.0	0.0	0.0						
1"	99.2	0.8	0.8						
3/4"	91.1	8.1	8.9						
1/2"	72.0	19.1	28.0						
3/8"	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 #	#:	P-39					Contractor:		
Sample Date):	9/25/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	9/26/2023	through	10/2/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	71-47	Presque Isle	1800	11.01	2.62	59.0			
26A	71-47	Presque Isle	0	0.00	2.62	0.0			
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"		100.0	100	0.0	100.0	100.0	0.0	0.0	1
1.5"		100.0	100).0	100.0	100.0	0.0	0.0	
1"		100.0	100).0	100.0	100.0	0.0	0.0	1
3/4"		91.1	100	0.0	100.0	94.7	5.3	5.3	1
1/2"		54.7	97	.0	100.0	73.3	21.5	26.7	
3/8"		34.7	88	.7	100.0	61.5	11.8	38.5	*M
#4		5.5	22	.6	98.9	43.8	17.7	56.2	*Aı
#8		2.6	4.	9	84.6	36.2	7.6	63.8	nom
#16		2.4	2.	2	68.9	29.7	6.6	70.3	*%
#30		2.3	1.	8	49.7	21.7	7.9	78.3	nom
#50		2.2	1.	6	23.8	11.1	10.7	88.9	*%
#100		2.1	1.		6.5	3.9	7.1	96.1	a 1.5
LBW		1.8	1.	4	1.6	1.7	2.2	98.3	1



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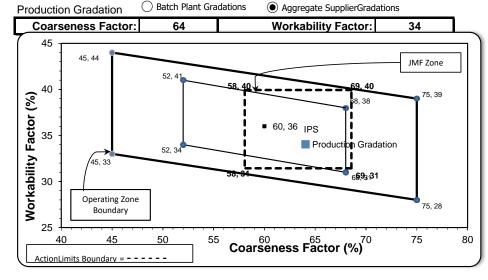
	eness Factor:		
	mess racior.	63	
Worka	bility Factor:	36	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	100.0	0.0	0.0
3/4"	89.8	10.2	10.2
1/2"	70.7	19.1	29.3
3/8"	59.6	11.1	40.4
#4	43.2	16.4	56.8
#8	35.8	7.4	64.2
#16	29.2	6.6	70.8
#30	21.4	7.8	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 1. Ball

PLANT #: Sample Date: Dates Test Represents:		P-O2		10/2/2023	Concrete Grade:		Contractor:		
		9/25/23				S2M, 3500HP			
		9/26/2023	through				MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific	%			
	-		u	-	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	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"	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"	9	97.5	100.0		100.0	98.7	1.3	1.3	1
3/4"	79.4		100.0		100.0	89.5	9.2	10.5	1
1/2"	38.3		93.0		100.0	68.0	21.5	32.0	1
3/8"	20.1		81.5		100.0	57.8	10.3	42.2	*
#4	2.5		19.2		96.4	41.8	15.9	58.2	*
#8	1.6		4.6		81.4	34.0	7.8	66.0	no
#16	1.5		2.4		66.4	27.8	6.3	72.2	*
#30	1.4		1.9		49.4	20.8	7.0	79.2	no
#50	1.3		1.8		24.5	10.7	10.1	89.3	*(
#100	1.3		1.7		5.3	2.9	7.8	97.1	a 1
LBW	1.0		1.5		0.6	0.9	2.1	99.1	1



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Coarseness Factor: 63 Workability Factor: 36 Sieve Cumulative % Passing Retained % Retained 2" 100.0 0.0 0.0 1.5" 100.0 0.0 0.0	
SieveCumulative%Cumula% PassingRetained% Retained2"100.00.00.0	
Sieve % Passing Retained % Retained 2" 100.0 0.0 0.0	
% Passing Retained % Retained 2" 100.0 0.0 0.0	ned
1.5" 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 1. Ball