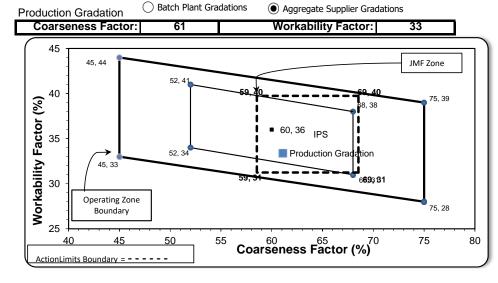
PLANT #	#:	P-101					Contractor:		
Sample Date	:	10/23/23			Concrete Grade:	S2M, 3500HP			
Dates Test Represents:		10/24/2023	through	10/30/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	71-47	Presque Isle	1600	9.79	2.62	52.4			
26A	71-47	Presque Isle	225	1.38	2.62	7.4			
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	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	98.8	10	0.0	100.0	99.4	0.6	0.6	
3/4"		81.5	100	0.0	100.0	90.3	9.1	9.7	1
1/2"		38.6	96	6.0	100.0	67.5	22.8	32.5	
3/8"	:	24.2	86	6.4	100.0	59.3	8.2	40.7	*
#4		3.7	20).4	95.8	42.0	17.3	58.0	*,
#8		2.1	4.	.3	79.4	33.4	8.6	66.6	no
#16		1.9	2.	.0	63.5	26.7	6.7	73.3	*(
#30		1.8	1.	.6	48.1	20.4	6.3	79.6	no
#50		1.8	1.	.4	24.4	10.9	9.6	89.1	*(
#100		1.7		.4	6.5	3.6	7.3	96.4	a 1
LBW		1.4	1.	.2	0.8	1.1	2.5	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.



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

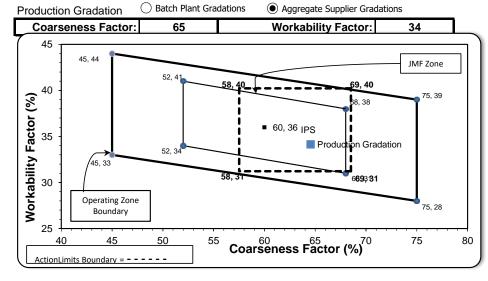
Approved By: North Ball

PLANT :	#:	P-102					Contractor:		
Sample Date):	10/23/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	10/24/2023	through	10/30/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	58-003	Stoneco	1550	9.23	2.69	50.0			
26A	58-003	Stoneco	350	2.09	2.69	11.3			
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	
1.5"		100.0	10	0.0	100.0	100.0	0.0	0.0	
1"		100.0	10	0.0	100.0	100.0	0.0	0.0	
3/4"		84.8	10	0.0	100.0	92.4	7.6	7.6	1
1/2"		40.4	99	9.1	100.0	70.1	22.3	29.9	
3/8"		17.7	88	3.0	100.0	57.5	12.6	42.5	*
#4		2.1	9	.6	98.3	40.2	17.3	59.8	*
#8		1.3	3	.2	85.6	34.1	6.0	65.9	no
#16		1.1	2	.3	68.3	27.2	6.9	72.8	*
#30		1.0	2	.0	48.1	19.3	7.9	80.7	no
#50		1.0	1	.9	23.5	9.8	9.5	90.2	*
#100		0.9	1	.8	4.9	2.6	7.3	97.5	a [.]
LBW		0.8	1	.7	0.5	0.8	1.8	99.2	1



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*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 4% for the 3/4" sieve when a 1.5" max. size (nom. Max. 1.0") 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"	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						

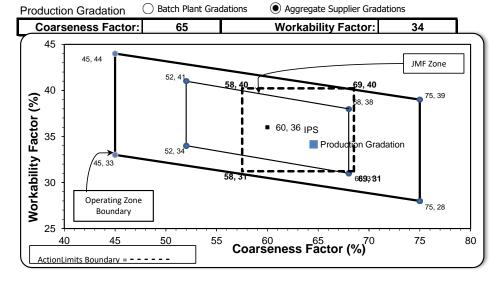
Approved By: Mart P. Ball

PLANT :	#:	P-103					Contractor:		
Sample Date):	10/23/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	10/24/2023	through	10/30/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific	%			
				-	Gravity	Contribution			
6AA	58-003	Stoneco	1550	9.23	2.69	50.0			
26A	58-003	Stoneco	350	2.09	2.69	11.3			
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"	1	100.0	100).0	100.0	100.0	0.0	0.0	
3/4"		84.8	100).0	100.0	92.4	7.6	7.6	
1/2"		40.4	99	.1	100.0	70.1	22.3	29.9	
3/8"		17.7	88	.0	100.0	57.5	12.6	42.5	*
#4		2.1	9.	6	98.3	40.2	17.3	59.8	*
#8		1.3	3.1	2	85.6	34.1	6.0	65.9	no
#16		1.1	2.3	3	68.3	27.2	6.9	72.8	*
#30		1.0	2.	0	48.1	19.3	7.9	80.7	no
#50		1.0	1.5	9	23.5	9.8	9.5	90.2	*
#100		0.9	1.	8	4.9	2.6	7.3	97.5	a ′
LBW		0.8	1.	7	0.5	0.8	1.8	99.2	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 Product	ion Sample (IPS	5)	_
Coars	seness Factor:	63	
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"	59.5	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: May 1. Ball

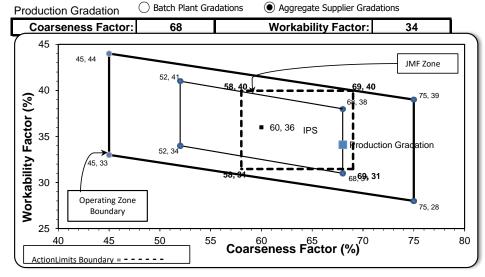
PLANT #	#:	12					Contractor:	
Sample Date: Dates Test Represents:		10/23/23			Concrete Grade:	S2M, 3500HP		
		10/24/2023	through	10/30/2023			MDOT No.:	
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution		
6AA	71-47	Presque Isle	1550	9.48	2.62	50.8		
26A	71-47	Presque Isle	270	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	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	98.0	100	0.0	100.0	99.0	1.0	1.0
3/4"		76.3	100	0.0	100.0	88.0	11.0	12.0
1/2"		30.3	96	5.9	100.0	64.3	23.7	35.7
3/8"		13.6	89).7	100.0	55.2	9.1	44.8
#4		3.1	23	5.7	96.4	42.5	12.6	57.5
#8		2.2	5.	.8	80.5	34.1	8.5	65.9
#16		1.9	2.	.6	64.4	27.2	6.9	72.8
#30		1.8	2.	.2	48.4	20.6	6.5	79.4
#50		1.7	2.	0	24.1	10.8	9.9	89.2
#100		1.6	1.		5.2	3.1	7.7	96.9
LBW		1.3	1.	7	0.8	1.1	1.9	98.9



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.



Intial Production 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						

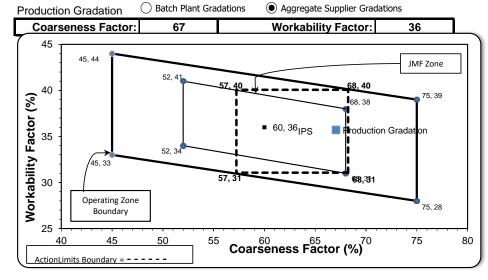
Approved By: Nat 1. Ball

PLANT #	#:	20					Contractor:		
Sample Date:	:	10/23/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:					MDOT No.:			
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	71-47	Presque Isle	1600	9.79	2.62	52.5			
26A	71-47	Presque Isle	200	1.22	2.62	6.6			
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	
1.5"	1	00.0	100	0.0	100.0	100.0	0.0	0.0	
1"	1	97.3	100	0.0	100.0	98.6	1.4	1.4	
3/4"		79.5	100	0.0	100.0	89.2	9.3	10.8	
1/2"		35.0	90	.1	100.0	65.3	24.0	34.7	
3/8"		21.1	73	.8	100.0	56.9	8.4	43.1	*N
#4		4.6	9.	9	96.9	42.8	14.1	57.2	*/
#8		2.5	2.	0	83.6	35.7	7.1	64.3	nor
#16		2.2	1.	1	69.2	29.6	6.1	70.4	*9
#30		2.1	0.	9	48.4	21.0	8.6	79.0	nor
#50		2.0	0.	8	21.6	10.0	11.0	90.0	*%
#100		1.9	0.		4.0	2.7	7.3	97.3	a 1
LBW		1.5	0.	7	1.2	1.3	1.4	98.7	



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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:	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					

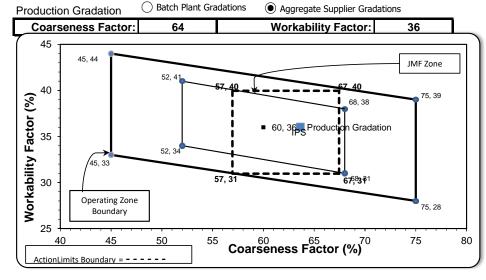
Approved By: Mart 1. Ball

PLANT #	#:	p11					Contractor:		
Sample Date	:	10/23/23			Concrete Grade:	S2M, 3500HP			
Dates Test Represents:		10/24/2023	through	10/30/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	71-47	Presque Isle	1400	8.56	2.62	45.9			
26A	71-47	Presque Isle	420	2.57	2.62	13.8			
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	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	96.7	100	0.0	100.0	98.5	1.5	1.5	
3/4"		74.9	100	0.0	100.0	88.5	10.0	11.5	1
1/2"		32.0	96	5.9	100.0	68.4	20.1	31.6	
3/8"		14.4	89).7	100.0	59.3	9.1	40.7	*
#4		2.5	23	5.7	96.7	43.4	15.9	56.6	*/
#8		1.7	5.	.8	85.4	36.0	7.4	64.0	no
#16		1.7	2.	.6	70.6	29.6	6.4	70.4	*0
#30		1.6	2.	2	52.2	22.1	7.5	77.9	no
#50		1.4	2.	0	24.8	10.9	11.2	89.1	*0
#100		1.3	1.		7.6	3.9	7.0	96.1	a 1
LBW		1.0	1.	7	1.7	1.4	2.5	98.6	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)	_
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

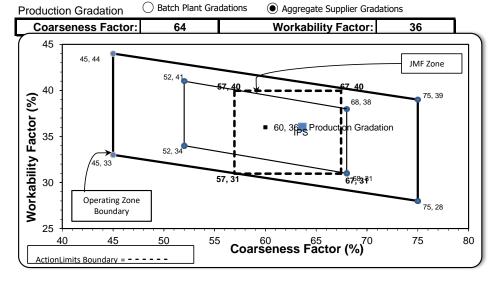


PLANT #: P-32		P-32					Contractor:																											
Sample Date	:	10/23/23			Concrete Grade:	S2M, 3500HP																												
Dates Test Represents:		10/24/2023	through	10/30/2023			MDOT No.:																											
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution																												
6AA	71-47	Presque Isle	1400	8.56	2.62	45.9																												
26A	71-47	Presque Isle	420	2.57	2.62	13.8																												
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																										
1.5"	1	00.0	100	0.0	100.0	100.0	0.0	0.0																										
1"	1	96.7	10	0.0	100.0	98.5	1.5	1.5																										
3/4"		74.9	10	0.0	100.0	88.5	10.0	11.5	1																									
1/2"		32.0	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96						96	6.9	100.0	68.4	20.1	31.6	
3/8"		14.4	89).7	100.0	59.3	9.1	40.7																										
#4		2.5	23	8.7	96.7	43.4	15.9	56.6																										
#8		1.7	5.	.8	85.4	36.0	7.4	64.0	n																									
#16		1.7	2.	.6	70.6	29.6	6.4	70.4																										
#30		1.6	2.	.2	52.2	22.1	7.5	77.9	n																									
#50		1.4	2.	.0	24.8	10.9	11.2	89.1																										
#100		1.3	1.	.9	7.6	3.9	7.0	96.1	а																									
LBW		1.0	1.	.7	1.7	1.4	2.5	98.6	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 Producti	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"	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	#100 3.1		96.9							
LBW	1.4	1.7	98.6							
2010	1.4	1.7	55.0							

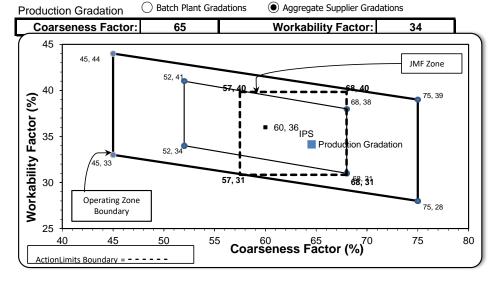
Approved By: Mart 1. Ball

PLANT #: P-35		P-35					Contractor:		
Sample Date	:	10/23/23			Concrete Grade:	S2M, 3500HP			
Dates Test Represents:		10/24/2023	through	10/30/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	58-003	Stoneco	1550	9.23	2.69	50.0			
26A	58-003	Stoneco	350	2.09	2.69	11.3			
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	
1.5"	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"		84.8	100	0.0	100.0	92.4	7.6	7.6	
1/2"		40.4	99	.1	100.0	70.1	22.3	29.9	
3/8"		17.7	88	.0	100.0	57.5	12.6	42.5	•
#4		2.1	9.	6	98.3	40.2	17.3	59.8	
#8		1.3	3.	2	85.6	34.1	6.0	65.9	no
#16		1.1	2.	3	68.3	27.2	6.9	72.8	
#30		1.0	2.	0	48.1	19.3	7.9	80.7	n
#50		1.0	1.	9	23.5	9.8	9.5	90.2	*
#100		0.9	1.		4.9	2.6	7.3	97.5	а
LBW		0.8	1.	7	0.5	0.8	1.8	99.2	



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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 Product	ion Sample (IPS	5)	_
Coar	seness Factor:	63	
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"	99.2	0.8	0.8
3/4"	3/4" 90.9		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

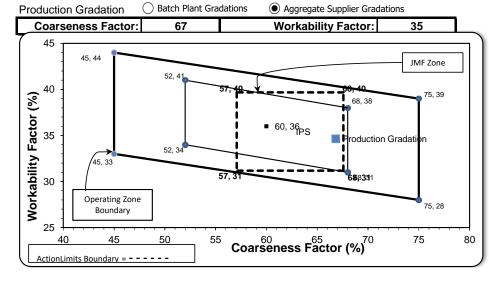
Approved By: Mart P. Ball

PLANT #: P-36						Contractor:			
Sample Date:	:	10/23/23			Concrete Grade:	S2M, 3500HP			
Dates Test Represents:		10/24/2023	through	10/30/2023			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	100.0	10	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	98.0	10	0.0	100.0	99.0	1.0	1.0	1
3/4"		76.3	100	0.0	100.0	88.3	10.7	11.7	1
1/2"		30.3	96	6.9	100.0	65.4	23.0	34.6	
3/8"		13.6	89).7	100.0	56.3	9.0	43.7	
#4		3.1	23	8.7	96.9	42.4	14.0	57.6	
#8		2.2	5.	.8	83.6	34.6	7.7	65.4	n
#16		1.9	2.	.6	69.2 28.5	6.2	71.5		
#30		1.8	2.	.2	48.4	20.2	8.3	79.8	n
#50		1.7	2.	.0	21.6	9.6	10.6	90.4	
#100		1.6		.9	4.0	2.6	7.0	97.4	а
LBW		1.3	1.	.7	1.2	1.3	1.3	98.7	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	.)	_
Coars	eness Factor:	62	
Work	ability Factor:	35	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	1.5" 100.0		0.0
1"	1" 99.1		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	#100 1.8		98.2
LBW	0.7	1.0	99.3

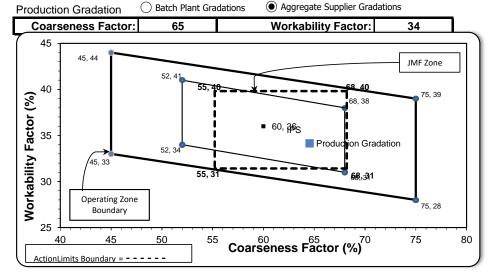


PLANT :	#:	P-38					Contractor:		
Sample Date	:	10/23/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	10/24/2023	through	10/30/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	58-003	Stoneco	1550	9.23	2.69	50.0			
26A	58-003	Stoneco	350	2.09	2.69	11.3			
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	10	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	1
3/4"		84.8	10	0.0	100.0	92.4	7.6	7.6	1
1/2"		40.4	99	9.1	100.0	70.1	22.3	29.9	
3/8"		17.7	88	3.0	100.0	57.5	12.6	42.5	*1
#4		2.1	9	.6	98.3	40.2	17.3	59.8	*,
#8		1.3	3	.2	85.6	34.1	6.0	65.9	no
#16		1.1	2	.3	68.3	27.2	6.9	72.8	*(
#30		1.0	2	.0	48.1	19.3	7.9	80.7	no
#50		1.0	1	.9	23.5	9.8	9.5	90.2	*(
#100		0.9		.8	4.9	2.6	7.3	97.5	a 1
LBW		0.8	1	.7	0.5	0.8	1.8	99.2	1



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



Intial Production Sample (IPS)									
Coars	eness 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"	1" 99.2		0.8						
3/4"	3/4" 91.1		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						

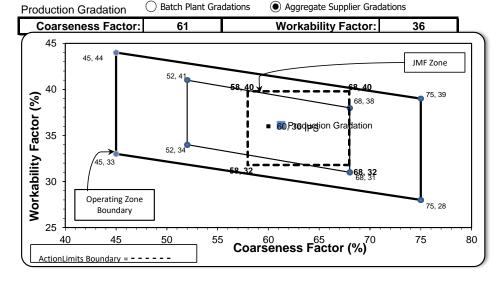
Approved By: Mart P. Ball

PLANT #	#:	P-39					Contractor:		
Sample Date	:	10/23/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	10/24/2023	through	10/30/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	71-47	Presque Isle	1525	9.33	2.62	50.0			
26A	71-47	Presque Isle	275	1.68	2.62	9.0			
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	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"		98.8	100	0.0	100.0	99.4	0.6	0.6	
3/4"		81.5	100	0.0	100.0	90.8	8.7	9.3	
1/2"		38.6	96	5.0	100.0	68.9	21.8	31.1	
3/8"		24.2	86	.4	100.0	60.9	8.1	39.1	*N
#4		3.7	20	.4	98.8	44.2	16.7	55.8	*A
#8		2.1	4.	3	84.6	36.1	8.1	63.9	nom
#16		1.9	2.	0	68.9	29.4	6.7	70.6	*%
#30		1.8	1.	6	50.2	21.6	7.8	78.4	nom
#50		1.8	1.	4	21.6	9.9	11.7	90.1	*%
#100		1.7	1.		4.5	2.8	7.1	97.2	a 1.
LBW		1.4	1.	2	0.7	1.1	1.7	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., 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.



Coord		Intial Production Sample (IPS)									
Coarse	eness Factor:	63									
Worka	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"	1" 100.0		0.0								
3/4"	3/4" 89.8		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	#100 3.7		96.3								
LBW	1.2	2.5	98.8								

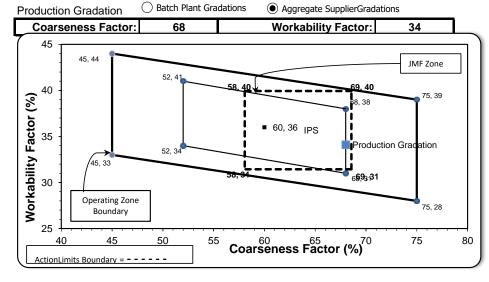
Approved By: Mart 1. Ball

PLANT #: P-O2						Contractor:			
Sample Date	:	10/23/23			Concrete Grade:	S2M, 3500HP			
Dates Test Represents:		10/24/2023	through	10/30/2023			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	0.0	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"	9	98.0	100	0.0	100.0	99.0	1.0	1.0	
3/4"	-	76.3	100	0.0	100.0	88.0	11.0	12.0	1
1/2"		30.3	96	5.9	100.0	64.3	23.7	35.7	
3/8"		13.6	89).7	100.0	55.2	9.1	44.8	
#4		3.1	23	5.7	96.4	42.5	12.6	57.5	
#8		2.2	5.	.8	80.5	34.1	8.5	65.9	n
#16	1.9		2.	.6	64.4	27.2	6.9	72.8	
#30		1.8	2.	.2	48.4	20.6	6.5	79.4	n
#50		1.7	2.	.0	24.1	10.8	9.9	89.2	
#100		1.6	1.	.9	5.2	3.1	7.7	96.9	а
LBW		1.3	1.	7	0.8	1.1	1.9	98.9	



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Maximum % Retained must be above the 3/8" sieve.
Any two adjacent sieves must equal 10% except max.,
pm. max., #100 and #200 sieves.
% Retained must be at least 4% for each sieve except max.,
pm. 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:	36							
Sieve	Cumulative	%	Cumulative						
Sieve	% Passing	Retained	% Retained						
2"	100.0	0.0	0.0						
1.5"	1.5" 100.0		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	#100 2.1		97.9						
LBW	0.9	1.2	99.1						

Approved By: Mart P. Ball