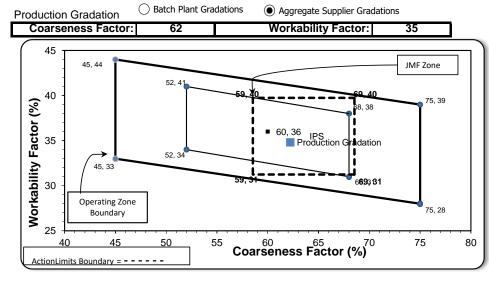
PLANT #	#:	P-101					Contractor:		
Sample Date	:	6/26/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	6/27/2023	through	7/3/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific	%			
			_		Gravity	Contribution			
6AA	71-47	Presque Isle	1575	9.63	2.62	51.6			
26A	71-47	Presque 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	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"		99.5	100).0	100.0	99.7	0.3	0.3	1
3/4"		89.2	100).0	100.0	94.4	5.3	5.6	1
1/2"		51.4	95	.8	100.0	74.6	19.8	25.4	1
3/8"		23.5	86	.4	100.0	59.4	15.2	40.6	*
#4		6.7	21	.7	96.5	44.1	15.4	55.9	*/
#8		2.7	6.	0	81.8	34.8	9.3	65.2	noi
#16		2.3	3.:	2	67.1	28.5	6.4	71.5	*0
#30		2.2	2.	6	51.6	22.1	6.3	77.9	noi
#50		2.2	2.3	3	27.7	12.5	9.6	87.5	*9
#100		2.1	2.	2	7.5	4.3	8.2	95.7	a 2
LBW		1.8	2.	0	1.0	1.5	2.8	98.5	1



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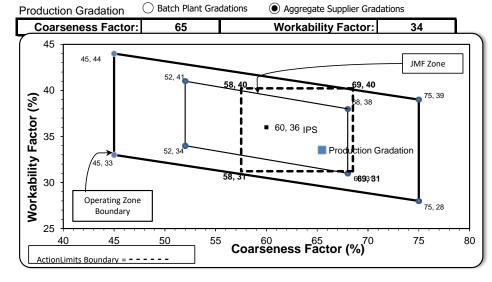
Initial Producti	on Sample (IPS	5)	_
Coars	eness Factor:	64	
Work	ability Factor:	35	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	100.0	0.0	0.0
3/4"	93.9	6.1	6.1
1/2"	71.4	22.5	28.6
3/8"	59.0	12.4	41.0
#4	45.1	13.9	54.9
#8	35.5	9.6	64.5
#16	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 P. Ball

PLANT :	#:	P-102					Contractor:		
Sample Date	e:	6/26/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	6/27/2023	through	7/3/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	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	
1.5"		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"		83.0	100	0.0	100.0	91.0	8.9	9.0	1
1/2"		43.9	98	.6	100.0	70.0	20.9	30.0	
3/8"		19.8	89	.6	100.0	56.5	13.6	43.5	*N
#4		3.0	11	.1	98.5	40.6	15.9	59.4	*A
#8		1.6	2.	9	83.8	33.5	7.1	66.5	nor
#16		1.4	2.	3	66.2	26.6	7.0	73.4	*%
#30		1.3	2.	1	46.5	18.9	7.7	81.1	nor
#50		1.2	2.	0	22.7	9.6	9.3	90.4	*%
#100		1.2	2.	0	6.0	3.1	6.5	96.9	a 2'
LBW		1.0	1.	8	1.0	1.1	2.1	98.9	1



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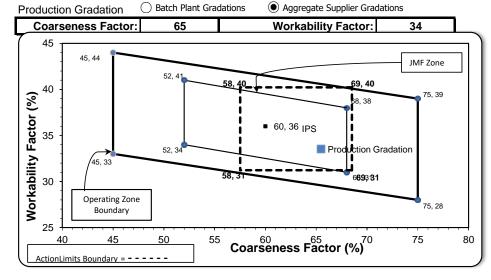
Intial Product	ion Sample (IPS	5)	
Coars	seness Factor:	63	
Worl	ability Factor:	36	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	99.2	0.8	0.8
3/4"	90.9	8.3	9.1
1/2"	71.3	19.6	28.7
3/8"	59.5	11.8	40.5
#4	43.8	15.7	56.2
#8	35.7	8.1	64.3
#16	27.0	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: Mart P. Ball

PLANT :	PLANT #: P-103						Contractor:		
Sample Date):	6/26/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	6/27/2023	through	7/3/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	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	100.0	100.0	0.0	0.0	
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	
3/4"		83.0	100).0	100.0	91.0	8.9	9.0	
1/2"		43.9	98	.6	100.0	70.0	20.9	30.0	
3/8"		19.8	89	.6	100.0	56.5	13.6	43.5	*Ma
#4		3.0	11	.1	98.5	40.6	15.9	59.4	*Ar
#8		1.6	2.	9	83.8	33.5	7.1	66.5	nom
#16		1.4	2.	2.3		26.6	7.0	73.4	*%
#30		1.3	2.	1	46.5	18.9	7.7	81.1	nom
#50		1.2	2.	0	22.7	9.6	9.3	90.4	*%
#100		1.2	2.		6.0	3.1	6.5	96.9	a 2" ı
LBW		1.0	1.	8	1.0	1.1	2.1	98.9	1



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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
LBW	0.6	0.8	99.4

Approved BY: Mart P. Ball

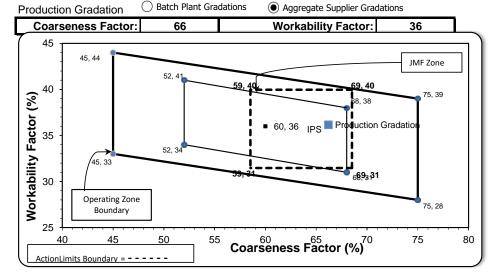
PLANT :	#:	14					Contractor:		
Sample Date):	6/26/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	Represents:	6/27/2023	through	7/3/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	58-003	Stoneco	1600	9.53	2.69	51.4			
26A	58-003	Stoneco	300	1.79	2.69	9.6			
2NS	19-04	Schlegel	1210	7.26	2.67	38.9			
		Total Wt	3110	18.58		100.0	< Verify this n	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"	ç	99.8	100	0.0	100.0	99.9	0.1	0.1	
3/4"	8	83.0	100	0.0	100.0	91.3	8.6	8.7	
1/2"	4	43.9	98	.6	100.0	71.0	20.3	29.0	
3/8"		19.8	89	.6	100.0	57.7	13.3	42.3	*Maximum % F
#4		3.0	11	.1	99.9	41.5	16.3	58.5	*Any two adjac
#8		1.6	2.	9	90.1	36.2	5.3	63.8	nom. max., #100
#16		1.4	2.	3	69.4	27.9	8.2	72.1	*% Retained m
#30		1.3	2.	1	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	2.		2.7	1.9	4.5	98.1	a 2" max. size (r
LBW		1.0	1.	8	0.2	0.8	1.1	99.2	



Builders Redi-Mix

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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 8% for the 1" sieve when 2" max. size (nom. Max. 1.5") aggregate is used.



Sieve	mulative Retained
Sieve Cumulative % Passing % Retained Cu % 2" 100.0 0.0 0.0 1.5" 100.0 0.0 0.0 1" 99.2 0.8 3/4" 90.9 8.3 1/2" 71.3 19.6 3/8" 59.2 12.1 #4 41.5 17.7 17.7 17.7	Retained
Sieve % Passing Retained % 2" 100.0 0.0 100.0 0.0 100.0 </td <td>Retained</td>	Retained
% Passing Retained % 2" 100.0 0.0 1.5" 100.0 0.0 1" 99.2 0.8 3/4" 90.9 8.3 1/2" 71.3 19.6 3/8" 59.2 12.1 #4 41.5 17.7	
1.5" 100.0 0.0 1" 99.2 0.8 3/4" 90.9 8.3 1/2" 71.3 19.6 3/8" 59.2 12.1 #4 41.5 17.7	
1" 99.2 0.8 3/4" 90.9 8.3 1/2" 71.3 19.6 3/8" 59.2 12.1 #4 41.5 17.7	0.0
3/4" 90.9 8.3 1/2" 71.3 19.6 3/8" 59.2 12.1 #4 41.5 17.7	0.0
1/2" 71.3 19.6 3/8" 59.2 12.1 #4 41.5 17.7	0.8
3/8" 59.2 12.1 #4 41.5 17.7	9.1
#4 41.5 17.7	28.7
	40.8
#8 35.7 5.8	58.5
	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	
LBW 0.9 1.1	98.0

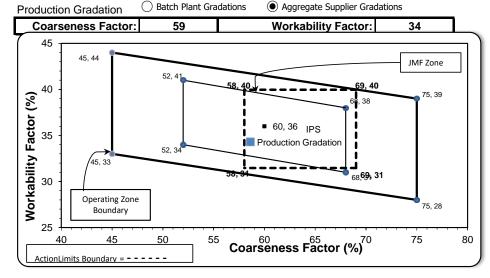
Approved By: Mart P. Ball

PLANT :	#:	12					Contractor:		
Sample Date	:	6/26/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	6/27/2023	through	7/3/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	71-47	Presque Isle	1600	9.79	2.62	52.5			
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	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	100.0	100	0.0	100.0	100.0	0.0	0.0	
3/4"		80.0	100	0.0	100.0	89.5	10.5	10.5	
1/2"		44.4	95.	.0	100.0	70.5	19.0	29.5	
3/8"	:	28.4	86.	.8	100.0	61.5	9.0	38.5	*Ma
#4		5.8	20.	.1	96.5	43.4	18.1	56.6	*An
#8		3.0	4.2	2	80.4	34.3	9.1	65.7	nom.
#16		2.6	2.:	2	65.1	27.8	6.5	72.2	*%
#30		2.4	1.8	8	49.5	21.4	6.4	78.6	nom.
#50		2.3	1.0	6	25.6	11.6	9.7	88.4	*%
#100		2.2	1.		4.8	3.2	8.4	96.8	a 2" i
LBW		1.6	1.3	3	0.7	1.2	2.0	98.8	



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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 8% for the 1" sieve when 2" max. size (nom. Max. 1.5") aggregate is used.



Intial Production	on Sample (IPS	5)	_
Coars	eness Factor:	64	
Work	ability Factor:	36	
Sieve	Cumulative	%	Cumulative
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

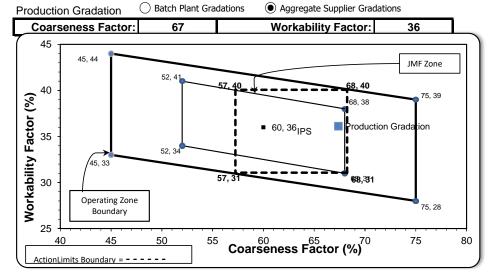
Approved By: n auf 1. Ball

PLANT #: 20						Contractor:			
Sample Date	:	6/26/23			Concrete Grade	S2M, 3500HP			
Dates Test R	epresents:	6/27/2023	through	7/3/2023			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	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	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	98.8	100	.0	100.0	99.4	0.6	0.6	
3/4"		74.9	100	.0	100.0	87.2	12.1	12.8	
1/2"		32.1	95.	9	100.0	65.2	22.1	34.8	
3/8"		17.8	84.	4	100.0	56.9	8.2	43.1	*Ma
#4		2.5	18.	3	97.2	42.6	14.3	57.4	*An
#8		2.0	5.1	1	84.6	36.1	6.5	63.9	nom.
#16		1.8	2.6	6	71.0	30.2	5.9	69.8	*%
#30		1.7	2.1	1	52.0	22.3	7.9	77.7	nom.
#50		1.7	2.0)	19.8	9.1	13.2	90.9	*%
#100		1.6	1.8		3.5	2.4	6.7	97.6	a 2" r
LBW		1.2	1.6	6	0.6	1.0	1.4	99.0	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 8% for the 1" sieve when 2" max. size (nom. Max. 1.5") aggregate is used.



Intial Production Sample (IPS)								
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					

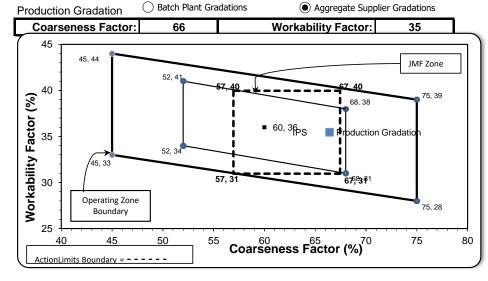
Approved By: Nat 1. Ball

PLANT :	#:	p11					Contractor:		
Sample Date):	6/26/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	6/27/2023	through	7/3/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	71-47	Presque Isle	1600	9.79	2.62	52.5			
26A	71-47	Presque Isle	220	1.35	2.62	7.2			
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	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	98.8	10	0.0	100.0	99.4	0.6	0.6	
3/4"	i	86.1	10	0.0	100.0	92.7	6.7	7.3	
1/2"		45.4	95	5.0	100.0	71.0	21.7	29.0	
3/8"	:	20.1	86	5.8	100.0	57.1	13.9	42.9	*Maximu
#4		2.0	20).1	96.4	41.4	15.8	58.6	*Any two
#8		1.2	4	.2	85.6	35.5	5.9	64.5	nom. max.
#16		1.0	2	.2	71.2	29.4	6.1	70.6	*% Retair
#30		1.0	1.	.8	51.0	21.2	8.2	78.8	nom. max.
#50		0.9	1.	.6	25.4	10.8	10.4	89.2	*% Retair
#100		0.9		.5	7.6	3.6	7.2	96.4	a 2" max. s
LBW		0.7	1.	.3	1.4	1.0	2.6	99.0	



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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 8% for the 1" sieve when 2" max. size (nom. Max. 1.5") aggregate is used.



on Sample (IPS	5)	-
eness Factor:	62	
ability Factor:	35	
Cumulative	%	Cumulative
% Passing	Retained	% Retained
100.0	0.0	0.0
100.0	0.0	0.0
100.0	0.0	0.0
94.0	6.0	6.0
70.2	23.7	29.8
59.9	10.4	40.1
42.7	17.2	57.3
35.5	7.2	64.5
28.4	7.0	71.6
19.2	9.2	80.8
8.9	10.3	91.1
3.1	5.9	96.9
1.4	1.7	98.6
	Seness Factor: tability Factor: Cumulative % Passing 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 94.0 70.2 59.9 42.7 35.5 28.4 19.2 8.9 3.1	Cumulative % % Passing Retained 100.0 0.0 100.0 0.0 100.0 0.0 100.0 0.0 100.0 0.0 100.0 0.0 100.0 0.0 100.0 0.0 100.0 0.0 94.0 6.0 70.2 23.7 59.9 10.4 42.7 17.2 35.5 7.2 28.4 7.0 19.2 9.2 8.9 10.3 3.1 5.9

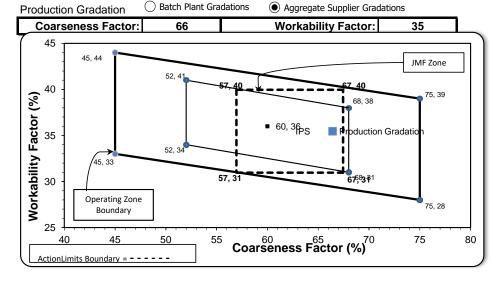
Approved By: Mart P. Ball

PLANT #	#:	P-32					Contractor:		
Sample Date	:	6/26/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	6/27/2023	through	7/3/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	71-47	Presque Isle	1600	9.79	2.62	52.5			
26A	71-47	Presque Isle	220	1.35	2.62	7.2			
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"		98.8	100	0.0	100.0	99.4	0.6	0.6	
3/4"		86.1	100	0.0	100.0	92.7	6.7	7.3	
1/2"		45.4	95.	.0	100.0	71.0	21.7	29.0	
3/8"	:	20.1	86.	.8	100.0	57.1	13.9	42.9	*M
#4		2.0	20.	.1	96.4	41.4	15.8	58.6	*Ar
#8		1.2	4.2	2	85.6	35.5	5.9	64.5	nom
#16		1.0	2.2	2	71.2	29.4	6.1	70.6	*%
#30		1.0	1.8	8	51.0	21.2	8.2	78.8	nom
#50		0.9	1.0	6	25.4	10.8	10.4	89.2	*%
#100		0.9	1.		7.6	3.6	7.2	96.4	a 2"
LBW		0.7	1.:	3	1.4	1.0	2.6	99.0	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 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:	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
LDW	1.4	1.7	55.0

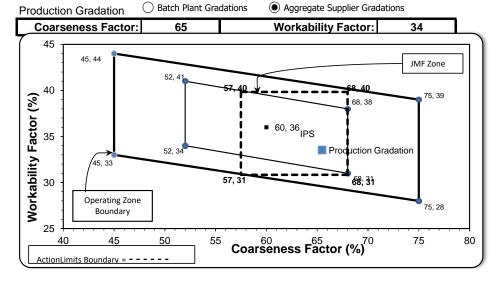
Approved By: Mart P. Ball

PLANT :	#:	P-35					Contractor:		
Sample Date):	6/26/23			Concrete Grade:	S2M, 3500HP			
Dates Test Represents:		6/27/2023	through	7/3/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	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	
1.5"		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"		83.0	100	0.0	100.0	91.0	8.9	9.0	1
1/2"		43.9	98.	.6	100.0	70.0	20.9	30.0	
3/8"		19.8	89.	.6	100.0	56.5	13.6	43.5	*N
#4		3.0	11.	.1	98.5	40.6	15.9	59.4	*A
#8		1.6	2.9	9	83.8	33.5	7.1	66.5	nor
#16	1.4		2.3	3	66.2	26.6	7.0	73.4	*%
#30		1.3	2.	1	46.5	18.9	7.7	81.1	nor
#50		1.2	2.0	0	22.7	9.6	9.3	90.4	*%
#100		1.2	2.0		6.0	3.1	6.5	96.9	a 2'
LBW		1.0	1.8	8	1.0	1.1	2.1	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 8% for the 1" sieve when 2" max. size (nom. Max. 1.5") aggregate is used.



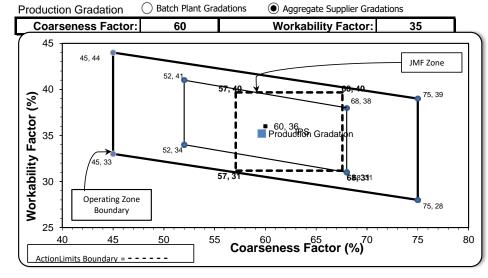
Intial Production	on Sample (IPS	5)	
Coars	eness Factor:	63	
Work	ability Factor:	35	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	99.2	0.8	0.8
3/4"	90.9	8.3	9.1
1/2"	1/2" 71.3		28.7
3/8"	59.4	11.9	40.6
#4	43.0	16.5	57.0
#8	35.3	7.6	64.7
#16	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:	:	6/26/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	6/27/2023	through	7/3/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	71-47	Presque Isle	1600	9.79	2.62	52.5			
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	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	00.0	100).0	100.0	100.0	0.0	0.0	
3/4"	i	80.0	100).0	100.0	89.5	10.5	10.5	1
1/2"		44.4	95	.0	100.0	70.4	19.1	29.6	
3/8"	:	28.4	86	.8	100.0	61.4	9.1	38.6	*
#4		5.8	20	.1	97.2	42.9	18.4	57.1	*
#8		3.0	4.	2	84.6	35.2	7.7	64.8	no
#16		2.6	2.	2	71.0	29.5	5.7	70.5	*(
#30		2.4	1.	8	52.0	21.9	7.6	78.1	no
#50		2.3	1.	6	19.8	9.1	12.7	90.9	*0
#100		2.2	1.		3.5	2.7	6.5	97.3	a 2
LBW		1.6	1.	3	0.6	1.2	1.5	98.8	1



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Intial Producti	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"	1/2" 69.8		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

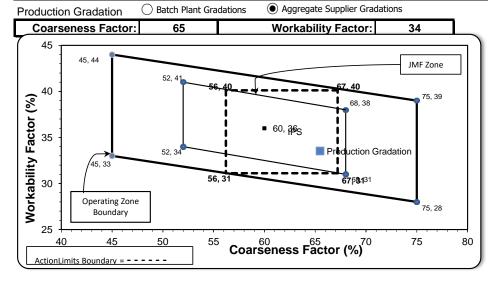
Approved By: Mart 1. Ball

PLANT :	#:	P-38					Contractor:		
Sample Date	e:	6/26/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	Represents:	6/27/2023	through	7/3/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	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	
1.5"		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"		83.0	100	0.0	100.0	91.0	8.9	9.0	1
1/2"		43.9	98	.6	100.0	70.0	20.9	30.0	
3/8"		19.8	89	.6	100.0	56.5	13.6	43.5	*N
#4		3.0	11	.1	98.5	40.6	15.9	59.4	*A
#8		1.6	2.	9	83.8	33.5	7.1	66.5	nor
#16		1.4	2.	2.3		26.6	7.0	73.4	*%
#30		1.3	2.	1	46.5	18.9	7.7	81.1	nor
#50		1.2	2.	0	22.7	9.6	9.3	90.4	*%
#100		1.2	2.	0	6.0	3.1	6.5	96.9	a 2'
LBW		1.0	1.	8	1.0	1.1	2.1	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 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:	62	
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"	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

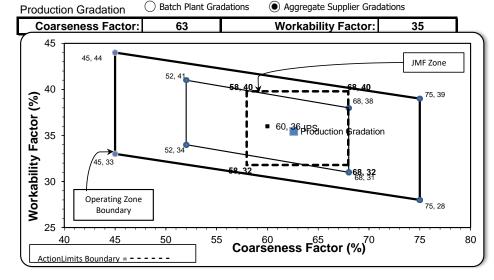
Approved By: Nat 1. Ball

PLANT :	#:	P-39					Contractor:		
Sample Date	e:	6/26/23			Concrete Grade:	S2M, 3500HP			
Dates Test R	Represents:	6/27/2023	through	7/3/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	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	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
1"		99.5	100	0.0	100.0	99.7	0.3	0.3	1
3/4"		89.2	100	0.0	100.0	94.4	5.3	5.6	1
1/2"		51.4	95.	.8	100.0	74.7	19.8	25.3	
3/8"		23.5	86.	.4	100.0	59.6	15.1	40.4	*M
#4		6.7	21.	.7	95.8	44.3	15.2	55.7	*Ar
#8		2.7	6.	0	82.0	35.4	8.9	64.6	nom
#16		2.3	3.1	2	67.7	29.2	6.3	70.8	*%
#30		2.2	2.0	6	50.6	22.1	7.1	77.9	nom
#50		2.2	2.3	3	22.8	10.7	11.4	89.3	*%
#100		2.1	2.2		5.4	3.5	7.2	96.5	a 2"
LBW		1.8	2.0	0 0	1.0	1.5	2.0	98.5	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 8% for the 1" sieve when 2" max. size (nom. Max. 1.5") aggregate is used.



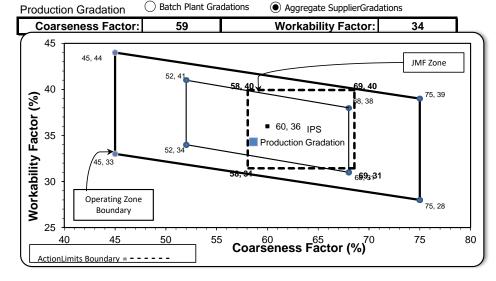
Intial Producti	ion Sample (IPS	5)	_
Coars	seness Factor:	63	
Worl	ability Factor:	36	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	100.0	0.0	0.0
3/4"	89.8	10.2	10.2
1/2"	70.7	19.1	29.3
3/8"	59.6	11.1	40.4
#4	43.2	16.4	56.8
#8	35.8	7.4	64.2
#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					Contractor:		
		6/26/23		7/3/2023	Concrete Grade:	S2M, 3500HP			
		6/27/2023	through				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	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"	100.0		100.0		100.0	100.0	0.0	0.0	
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	
3/4"	80.0		100.0		100.0	89.5	10.5	10.5	
1/2"	44.4		95.0		100.0	70.5	19.0	29.5	
3/8"	28.4		86.8		100.0	61.5	9.0	38.5	*Ma
#4	5.8		20.1		96.5	43.4	18.1	56.6	*Ar
#8	3.0		4.2		80.4	34.3	9.1	65.7	nom
#16	2.6		2.2		65.1	27.8	6.5	72.2	*%
#30	2.4		1.8		49.5	21.4	6.4	78.6	nom
#50	#50 2.3		1.6		25.6	11.6	9.7	88.4	*%
#100			1.5		4.8	3.2	8.4	96.8	a 2"
LBW	_BW 1.6		1.3		0.7	1.2	2.0	98.8	1



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Intial Production Sample (IPS)									
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"	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