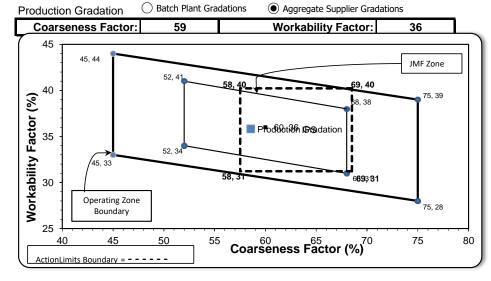
PLANT #: P-10		P-102					Contractor:		
Sample Date	:	3/21/22			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	3/22/2022	through	3/28/2022			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	58-003	Stoneco	1500	8.94	2.69	48.4			
26A	58-003	Stoneco	390	2.32	2.69	12.6			
2NS	81-019	Pleasant Lake	1210	7.32	2.65	39.0			
		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"		100.0	100	0.0	100.0	100.0	0.0	0.0	
3/4"		90.0	100	0.0	100.0	95.2	4.8	4.8	
1/2"		47.8	99	.9	100.0	74.7	20.4	25.3	
3/8"		25.0	89	.8	100.0	62.4	12.3	37.6	4
#4		7.6 13		.2	99.4	44.1	18.3	55.9	4
#8		3.4	6.	4	85.5	35.8	8.3	64.2	nc
#16		2.3	4.	6	67.7	28.1	7.7	71.9	4
#30		1.9	3.	8	48.8	20.4	7.7	79.6	no
#50		1.7	3.	4	23.8	10.5	9.9	89.5	*
#100		1.6	3.	2	6.5	3.7	6.8	96.3	a
LBW		1.4	2.	9	2.0	1.8	1.9	98.2	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 8% for the 1" sieve when 2" max. size (nom. Max. 1.5") aggregate is used.



	on Sample (IPS	7	_
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"	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

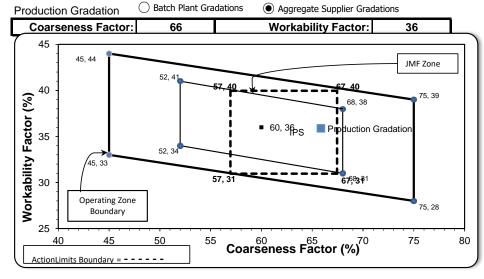
Approved By: Mary P. Ball

PLANT #	#:	P-32					Contractor:		
Sample Date	:	3/21/22			Concrete Grade:	S2M, 3500HP			
Dates Test R		3/22/2022	through	3/28/2022			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	250	1.53	2.62	8.2			
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	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	98.2	100	0.0	100.0	99.1	0.9	0.9	
3/4"		75.0	100).0	100.0	87.1	11.9	12.9	
1/2"		34.9	97	.6	100.0	66.3	20.8	33.7	
3/8"		19.6	89	.7	100.0	57.8	8.5	42.2	*
#4		4.2	29	.7	96.1	43.4	14.4	56.6	*.
#8	2.8		9.	8	83.4	35.9	7.5	64.1	no
#16		2.4	3.9		68.2	29.1	6.8	70.9	*
#30		2.3	2.	8	48.9	21.1	7.9	78.9	no
#50		2.2	2.	5	24.7	11.3	9.8	88.7	*
#100		2.1	2.		7.8	4.4	6.9	95.6	a 2
LBW		1.8	2.	0	1.9	1.9	2.6	98.1	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:	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

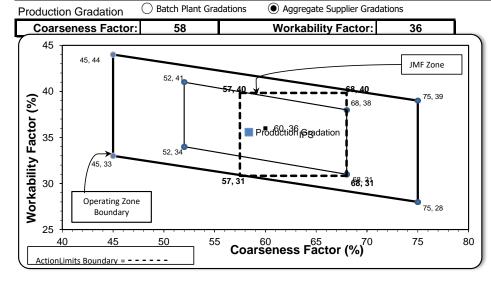
Approved By: Mart 1. Ball

PLANT #	#:	P-35					Contractor:				
Sample Date	:	3/21/22			Concrete Grade:	S2M, 3500HP					
Dates Test R	epresents:	3/22/2022	through	3/28/2022			MDOT No.:				
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific	%					
	50.000	0.1	• • •	-	Gravity	Contribution					
6AA	58-003	Stoneco	1500	8.94	2.69	48.4					
26A	58-003	Stoneco	400	2.38	2.69	12.9					
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"	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	1		
3/4"		90.0	100	0.0	100.0	95.2	4.8	4.8	1		
1/2"		47.8	99	.9	100.0	74.7	20.4	25.3	1		
3/8"		25.0	89	.8	100.0	62.4	12.3	37.6	*		
#4	7.6		13	.2	99.4	43.9	18.5	56.1	*,		
#8		3.4 6.4		4	85.5	35.6	8.3	64.4	no		
#16		2.3	.3 4.0		67.7	27.9	7.7	72.1	*		
#30		1.9	3.8		1.9 3.8	8	48.8	20.3	7.6	79.7	no
#50		1.7	3.	4	23.8	10.5	9.8	89.5	*0		
#100		1.6	3.	2	6.5	3.7	6.8	96.3	a 2		
LBW		1.4	2.	9	2.0	1.8	1.9	98.2	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 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:	63	
Work	ability 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"	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

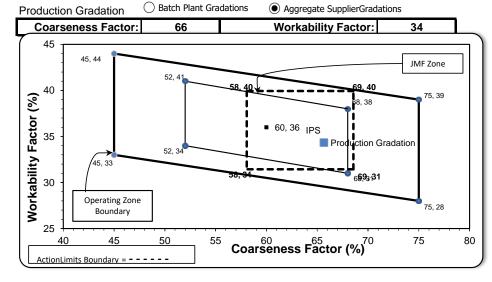
Approved By: Nat 1. Ball

PLANT #	#:	P-O2					Contractor:		
Sample Date	:	3/21/22			Concrete Grade:	S2M, 3500HP			
Dates Test R	epresents:	3/22/2022	through	3/28/2022			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
6AA	71-47	Presque Isle	1450	8.87	2.62	47.5			
26A	71-47	Presque Isle	350	2.14	2.62	11.5			
2NS	63-115	Ray 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"	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	99.3	10	0.0	100.0	99.7	0.3	0.3	
3/4"		80.3	100	0.0	100.0	90.6	9.0	9.4	1
1/2"		31.4	97	7.6	100.0	67.1	23.5	32.9	
3/8"		11.8	89).7	100.0	56.9	10.2	43.1	*
#4		1.6	29).7	97.0	43.9	13.0	56.1	*
#8		1.4	4 9.8		79.4	34.3	9.6	65.7	no
#16		1.2	3.	.9	63.2	26.9	7.4	73.1	*
#30		1.2	2.	.8	47.0	20.2	6.8	79.8	no
#50		1.1	2.	5	26.2	11.5	8.6	88.5	*
#100		1.0	2.	.3	4.3	2.5	9.0	97.5	a 2
LBW		0.6	2.	.0	0.6	0.8	1.7	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., bm. max., #100 and #200 sieves. "% Retained must be at least 4% for each sieve except max., bm. max., #100 and #200 sieves. "% Retained must be at least 8% for the 1" sieve when 2" max. size (nom. Max. 1.5") aggregate is used.



Intial Product	ion Sample (IPS	5)	_
Coars	seness Factor:	63	
Worl	ability Factor:	36	
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"	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: Nat 1. Ball