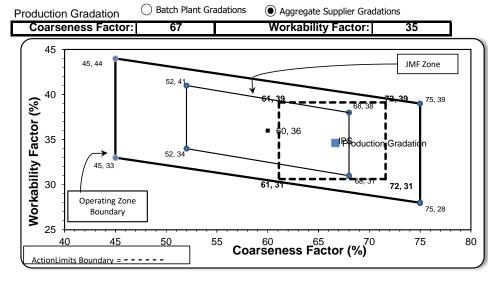
PLANT #: P-10		P-101					Contractor:				
Sample Date):	6/5/23			Concrete Grade:	P1M, 3500HP					
Dates Test R	epresents:	6/6/2023	through	6/12/2023			MDOT No.:				
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution					
CA	71-47	Presque Isle	1070	6.54	2.62	34.9					
IA	71-47	Presque Isle	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	14	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"		41.0	100 98).0	100.0	79.4	20.6	20.6	1		
3/4"		9.0		98	36	98	.5	100.0	67.9	11.5	32.1
1/2"		2.5	83	.2	100.0	61.6	6.3	38.4			
3/8"		2.1	63	.7	100.0	56.4	5.2	43.6	*		
#4		1.9	17	.3	96.8	43.0	13.4	57.0	*,		
#8		1.9	4.	5	83.9	34.6	8.4	65.4	no		
#16		1.8	2.	7	69.8	28.6	6.0	71.4	*(
#30		1.8	2.	3	53.0	21.9	6.7	78.1	no		
#50		1.7	2.	1	23.7	10.4	11.5	89.6	*0		
#100		1.5	1.	9	4.6	2.8	7.6	97.2	a 2		
LBW		1.4	1.	7	0.7	1.2	1.6	98.8	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.



Initial Producti	on Sample (IPS	5)	_
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

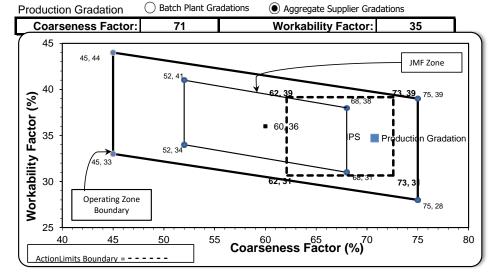


PLANT #: P-102						Contractor:			
Sample Date	:	6/5/23			Concrete Grade:	P1M, 3500HP			
Dates Test R	epresents:	6/6/2023	through	6/12/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
CA	58-003	Stoneco	1370	8.16	2.69	43.9			
IA	58-003	Stoneco	550	3.28	2.69	17.6			
2NS	81-019	Pleasant Lake	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"		100.0	100	0.0	100.0	100.0	0.0	0.0	
1.5"	1	100.0 67.8	100.0 100.0	0.0	100.0	100.0	0.0	0.0	
1"				100	10	0.0	100.0	85.9	14.1
3/4"		49.6	100	100.0	100.0	77.9	8.0	22.1	1
1/2"		17.8	92	2.4	100.0	62.6	15.3	37.4	
3/8"		3.4	78	5.6	100.0	53.8	8.8	46.2	*
#4		1.6	17	.2	99.2	41.9	11.9	58.1	*.
#8		1.2	5.	.0	86.6	34.7	7.2	65.3	no
#16		1.1 3.7		.7	70.9	28.4	6.3	71.6	*
#30		1.0 1.8		.8	52.3	20.9	7.5	79.1	no
#50		1.0	1.0 1.6		27.2	11.2	9.7	88.8	*
#100		1.0	1.		8.1	3.8	7.3	96.2	a 2
LBW		0.8	1.	.2	1.3	1.1	2.8	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 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"	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

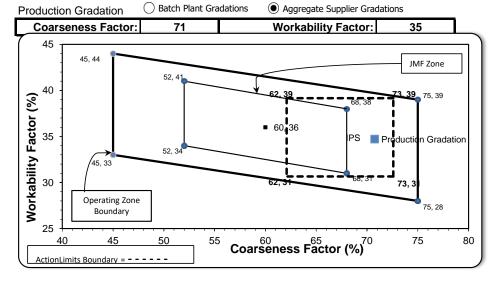
Approved By: Mart 1. Ball

PLANT #: P-103		P-103					Contractor:			
Sample Date):	6/5/23			Concrete Grade:	P1M, 3500HP				
Dates Test R	epresents:	6/6/2023	through	6/12/2023			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	81-019	Pleasant Lake	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"		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"		67.8	100	0.0	100.0	85.9	14.1	14.1	1	
3/4"		49.6		100	0.0	100.0	77.9	8.0	22.1	1
1/2"		17.8	92	92.4 100	100.0	62.6	15.3	37.4		
3/8"		3.4	78	.6	100.0	53.8	8.8	46.2	*1	
#4		1.6	17	.2	99.2	41.9	11.9	58.1	*/	
#8		1.2	5.	0	86.6	34.7	7.2	65.3	no	
#16		1.1 3.		7	70.9	28.4	6.3	71.6	*(
#30		1.0 1.8		8	52.3	20.9	7.5	79.1	no	
#50		1.0	.0 1.6		27.2	11.2	9.7	88.8	*0	
#100		1.0	1.	6	8.1	3.8	7.3	96.2	a 2	
LBW		0.8	1.	2	1.3	1.1	2.8	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)	-
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: May 1. Ball

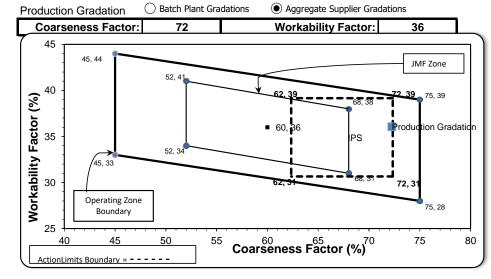
PLANT :	#:	14					Contractor:		
Sample Date	•:	6/5/23			Concrete Grade:	P1M, 3500HP			
Dates Test R	epresents:	6/6/2023	through	6/12/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
CA	58-003	Stoneco	1370	8.16	2.69	43.9			\Box
IA	58-003	Stoneco	550	3.28	2.69	17.6			
2NS	19-04	Schlegel	1200	7.20	2.67	38.5			
		Total Wt	3120	18.64		100.0	< Verify this n	umber is 100%	REDI Finish First
Sieve		CA	1/	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	Builders Re 30701 W. 10
2"	1	00.0	100	0.0	100.0	100.0	0.0	0.0	Suite 500
1.5"	1	00.0	100	0.0	100.0	100.0	0.0	0.0	Farmington H
1"	6	67.8	100	0.0	100.0	85.9	14.1	14.1	
3/4"	4	49.6	100	0.0	100.0	77.9	8.0	22.1	
1/2"		17.8	92	4	100.0	62.6	15.3	37.4	
3/8"		3.4	78	.6	100.0	53.8	8.8	46.2	*Maximum % Retained must be abo
#4		1.6	17	.2	99.9	42.2	11.7	57.8	*Any two adjacent sieves must equa
#8		1.2	5.	0	90.1	36.1	6.1	63.9	nom. max., #100 and #200 sieves.
#16		1.1	3.	7	69.4	27.8	8.2	72.2	*% Retained must be at least 4% for
#30		1.0	1.	8	44.5	17.9	10.0	82.1	nom. max., #100 and #200 sieves.
#50		1.0	1.	6	14.3	6.2	11.7	93.8	*% Retained must be at least 8% for
#100		1.0	1.	-	2.7	1.8	4.5	98.2	a 2" max. size (nom. Max. 1.5") aggr
LBW		0.8	1.	2	0.2	0.6	1.1	99.4	



edi-Mix

0 Mile Rd. Hills, MI 48336

bove the 3/8" sieve. ual 10% except max., for each sieve except max., for the 1" sieve when gregate 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

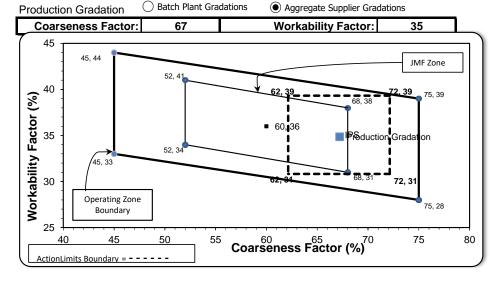
Approved By: Mary 1. Ball

PLANT #	#:	12					Contractor:					
Sample Date	:	6/5/23			Concrete Grade:	P1M, 3500HP						
Dates Test R	epresents:	6/6/2023	through	6/12/2023			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	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	IA	A .	2NS	Cumulative % Passing	% Retained	Cumulative % Retained				
2"	1	00.0	100).0	100.0	100.0	0.0	0.0				
1.5"	9	98.3	100).0	100.0	99.4	0.6	0.6	1			
1"	44	44.4	100 97.).0	100.0	80.6	18.8	19.4		
3/4"		15.8				97	97	97	97	.4	100.0	70.0
1/2"		4.3	76	.7	100.0	61.0	9.1	39.0				
3/8"		3.0	59	.2	100.0	56.2	4.7	43.8	*			
#4		2.6	16	.2	96.7	44.2	12.0	55.8	*			
#8		2.5	5.	3	80.3	34.9	9.4	65.1	no			
#16		2.4 3.7		7	64.5	28.0	6.9	72.0	*(
#30		2.4	3.3		48.4	21.3	6.7	78.7	no			
#50		2.3	3.	1	24.9	11.7	9.7	88.3	*0			
#100		2.2	2.		4.4	3.3	8.4	96.7	a 2			
LBW		1.7	2.	5	0.6	1.4	1.8	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 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

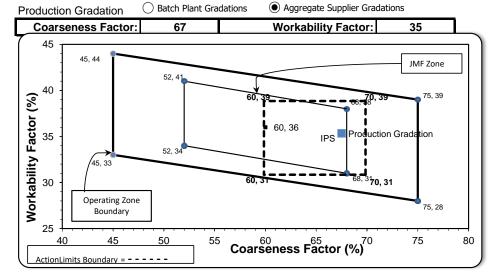
Approved By: Mart 1. Ball

PLANT #	#:	20					Contractor:		
Sample Date	:	6/5/23			Concrete Grade:	P1M, 3500HP			
Dates Test R	epresents:	6/6/2023	through	6/12/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
CA	71-47	Presque Isle	970	5.93	2.62	31.6			
IA	71-47	Presque Isle	900	5.50	2.62	29.3			
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	IA	N .	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	100.0	100).0	100.0	100.0	0.0	0.0	
1.5"		96.8	100).0	100.0	99.0	1.0	1.0	1
1"	:	20.1	100).0	100.0	74.8	24.2	25.2	1
3/4"		3.7	99	.3	100.0	69.4	5.4	30.6	1
1/2"		1.3	80	.9	100.0	63.2	6.2	36.8	
3/8"		1.3	57	.5	100.0	56.4	6.9	43.6	*1
#4		1.2	10	.3	98.3	41.8	14.5	58.2	*/
#8		1.2	3.	5	86.8	35.3	6.5	64.7	no
#16		1.2	2.5		70.9	28.8	6.5	71.2	*0
#30		1.2	2.3		47.2	19.5	9.3	80.5	no
#50		1.1	2.	2	18.8	8.3	11.2	91.7	*9
#100		1.1	2.		3.2	2.2	6.1	97.8	a 2
LBW		0.9	1.	7	0.7	1.1	1.2	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 8% for the 1" sieve when 2" max. size (nom. Max. 1.5") aggregate is used.



Intial Producti	on Sample (IPS)	_
Coars	seness Factor:	65	
Work	ability Factor:	35	
Sieve	Cumulative	%	Cumulative
Sieve	% 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	1.0	0.6	99.0

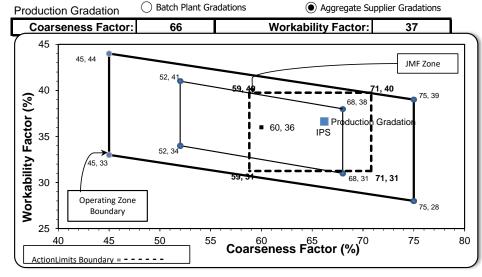
Approved By: Mart P. Ball

PLANT #	#:	P11					Contractor:		
Sample Date	:	6/5/23			Concrete Grade:	P1M, 3500HP			
Dates Test Represents:		6/6/2023	through	6/12/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
CA	71-47	Presque Isle	970	5.93	2.62	31.6			
IA	71-47	Presque Isle	850	5.20	2.62	27.7			
2NS	95-013	Smelter Bay	1250	7.56	2.65	40.7			
		Total Ŵt 3070 18.69 100.0 <	< Verify this number is 100%						
Sieve		CA	14	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	100.0	100	0.0	100.0	100.0	0.0	0.0	
1.5"		98.3	100	0.0	100.0	99.5	0.5	0.5	
1"		44.4	100	0.0	100.0	82.4	17.0	17.6	
3/4"		15.8	97	.4	100.0	72.7	9.8	27.3	1
1/2"		4.3	76	5.7	100.0	63.3	9.4	36.7	
3/8"		3.0	59	.2	100.0	58.1	5.3	41.9	*M
#4		2.6	16	.2	96.5	44.6	13.5	55.4	*A
#8		2.5	5.	3	84.4	36.6	8.0	63.4	nom
#16		2.4	3.7		69.2	30.0	6.7	70.0	*%
#30		2.4	3.	3	49.3	21.7	8.2	78.3	nom
#50		2.3	3.	1	23.7	11.2	10.5	88.8	*%
#100		2.2	2.		7.0	4.3	6.9	95.7	a 2"
LBW		1.7	2.	5	1.4	1.8	2.5	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 Production	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	#100 2.6		97.4
LBW	1.0	1.6	99.0

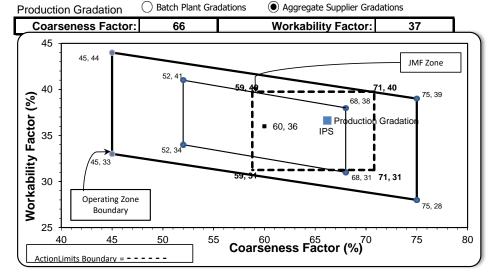
Approved By: n auf 1. Ball

PLANT #: P-32						Contractor:			
Sample Date	:	6/5/23			Concrete Grade:	P1M, 3500HP			
Dates Test Represents:		6/6/2023	through	6/12/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
CA	71-47	Presque Isle	970	5.93	2.62	31.6			
IA	71-47	Presque Isle	850	5.20	2.62	27.7			
2NS	95-013	Smelter Bay	1250	1250 7.56		40.7	1		
			100.0	< Verify this number 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"		98.3	100	0.0	100.0	99.5	0.5	0.5	
1"		44.4	100	0.0	100.0	82.4	17.0	17.6	
3/4"		15.8	97	97.4 100.0	100.0	72.7	9.8	27.3	
1/2"		4.3	76	.7	100.0	63.3	9.4	36.7	
3/8"		3.0	59	.2	100.0	58.1	5.3	41.9	*
#4		2.6	16	.2	96.5	44.6	13.5	55.4	*/
#8		2.5	5.	3	84.4	36.6	8.0	63.4	no
#16		2.4	3.	7	69.2	30.0	6.7	70.0	*0
#30		2.4	3.	3	49.3	21.7	8.2	78.3	no
#50		2.3	3.	1	23.7	11.2	10.5	88.8	*0
#100		2.2	2.		7.0	4.3	6.9	95.7	a 2
LBW		1.7	2.	5	1.4	1.8	2.5	98.2	



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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 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:	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

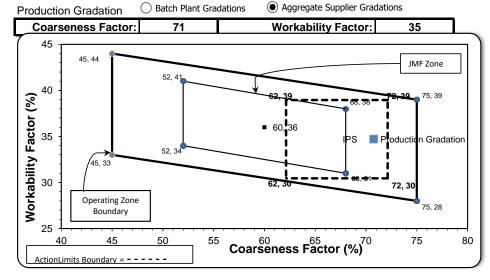
Approved By: Mart 1. Ball

PLANT :	#:	P-35					Contractor:		
Sample Date	e:	6/5/23			Concrete Grade:	P1M, 3500HP			
Dates Test Represents:		6/6/2023	through	6/12/2023			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	81-019	Pleasant Lake	1200	7.26	2.65	38.5			
		Total Wt		18.70		100.0	< Verify this number is 100%		
Sieve		СА	L.	Ą	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"		67.8	10	0.0	100.0	85.9	14.1	14.1	
3/4"		49.6	10	0.0	100.0	77.9	8.0	22.1	
1/2"		17.8	92	2.4	100.0	62.6	15.3	37.4	
3/8"		3.4	78	3.6	100.0	53.8	8.8	46.2	*1
#4		1.6	17	7.2	99.2	41.9	11.9	58.1	*/
#8		1.2	5	.0	86.6	34.7	7.2	65.3	nor
#16		1.1 3.7		.7	70.9	28.4	6.3	71.6	*0
#30		1.0	1.	.8	52.3	20.9	7.5	79.1	noi
#50		1.0	1	.6	27.2	11.2	9.7	88.8	*9
#100		1.0		.6	8.1	3.8	7.3	96.2	a 2
LBW		0.8	1.	.2	1.3	1.1	2.8	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 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"	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	#50 9.0		91.0
#100	#100 2.1		97.9
LBW	1.0	1.1	99.0

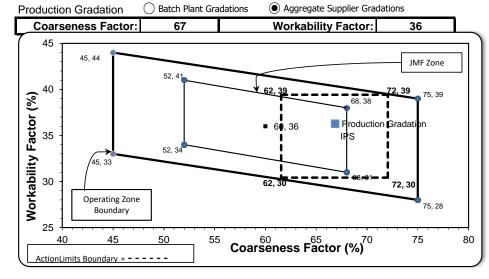
Approved By: Mart 1. Ball

PLANT #: P-36						Contractor:			
Sample Date	:	6/5/23			Concrete Grade:	P1M, 3500HP			
Dates Test Represents:		6/6/2023	through	6/12/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
CA	71-47	Presque Isle	970	5.93	2.62	31.6			
IA	71-47	Presque Isle	900	5.50	2.62	29.3			
2NS	63-92	Grange Hall	1200	1200 7.26		39.1			
		Total Wt	3070	18.70			< Verify this number is 100%		
Sieve		CA	IA	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	100.0	100	0.0	100.0	100.0	0.0	0.0	
1.5"		98.3	100	0.0	100.0	99.5	0.5	0.5	
1"		44.4	100	0.0	100.0	82.4	17.0	17.6	
3/4"		15.8	97	.4	100.0	72.6	9.8 27.	27.4	
1/2"		4.3	76	5.7	100.0	62.9	9.7	37.1	
3/8"		3.0	59	.2	100.0	57.4	5.5	42.6	*
#4		2.6	16	.2	98.3	44.0	13.4	56.0	*/
#8		2.5 5.3		3	86.8	36.3	7.7	63.7	no
#16		2.4	3.7		3.7 70.9	29.6	6.7	70.4	*0
#30		2.4	3.	3	47.2	20.2	9.4	79.8	no
#50		2.3	3.	1	18.8	9.0	11.2	91.0	*0
#100		2.2	2.		3.2	2.8	6.2	97.2	a 2
LBW		1.7	2.	5	0.7	1.5	1.3	98.5	



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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:	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"	72.1	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

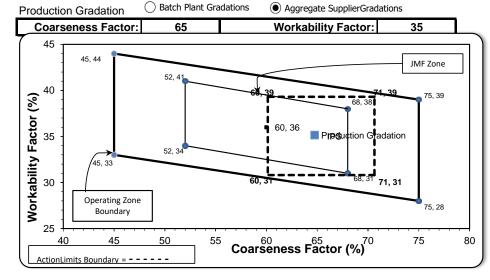
Approved By: Mart 1. Ball

PLANT #	#:	P-39					Contractor:		
Sample Date	:	6/5/23			Concrete Grade:	P1M, 3500HP			
Dates Test Represents:		6/6/2023	through	6/12/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
CA	71-47	Presque Isle	1020	6.24	2.62	33.2			
IA	71-47	Presque Isle	800	4.89	2.62	26.1			
2NS	44-051	Krake Willis Rd 1250 7.56 2.65 40.7							
		Total Wt	3070	18.69		100.0	< Verify this number is 100%		
Sieve		CA	I/	4	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"		41.0	100	0.0	100.0	80.4	19.6	19.6	1
3/4"		9.0	98	5.5	100.0	69.4	11.0	30.6	1
1/2"		2.5	83	3.2	100.0	63.2	6.1	36.8	
3/8"		2.1	63	5.7	100.0	58.0	5.2	42.0	*
#4		1.9	17	.3	95.7	44.1	13.9	55.9	*.
#8		1.9	4.5		81.9	35.2	9.0	64.8	no
#16		1.8	2.	.7	66.9	28.5	6.6	71.5	71.5 *
#30		1.8	2.	.3	50.2	21.6	6.9	78.4	no
#50		1.7	2.	1	25.0	11.3	10.3	88.7	*(
#100		1.5	1.		7.5	4.0	7.2	96.0	a 2
LBW		1.4	1.	7	1.3	1.4	2.6	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 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:	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	#100 3.5		96.5
LBW	1.2	2.4	98.8

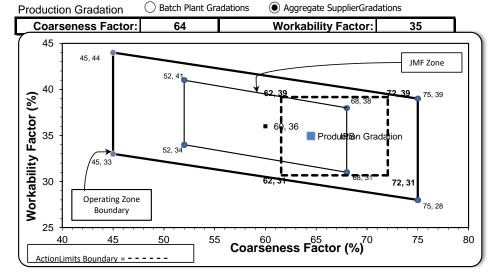
Approved By: Mart 1. Ball

PLANT #: P-O2						Contractor:			
Sample Date	:	6/5/23			Concrete Grade:	P1M, 3500HP			
Dates Test Represents:		6/6/2023	through	6/12/2023	3		MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
CA	71-47	Presque Isle	970	5.93	2.62	31.6			
IA	71-47	Presque Isle	850	5.20	2.62	27.7			
2NS	63-115	Ray Rd	1250	7.56	2.65	40.7	1		
		Total Wt	3070	18.69		100.0	< Verify this number is 100%		
Sieve		CA	1/	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"		98.3	100	0.0	100.0	99.5	0.5	0.5	1
1"		44.4	100	0.0	100.0	82.4	17.0	17.6	1
3/4"		15.8	97	.4	100.0	72.7	9.8	27.3	1
1/2"		4.3	76	5.7	100.0	63.3	9.4	36.7	
3/8"		3.0	59	.2	100.0	58.1	5.3	41.9	*
#4		2.6	16	5.2	96.7	44.7	13.4	55.3	*,
#8		2.5		.3	80.3	35.0	9.7	65.0	no
#16		2.4 3.		.7	64.5	28.0	6.9	72.0	*
#30		2.4 3.		.3	48.4	21.4	6.7	78.6	no
#50		2.3	3.	.1	24.9	11.7	9.7	88.3	*
#100		2.2	2.		4.4	3.3	8.4	96.7	a 2
LBW		1.7	2.	5	0.6	1.5	1.8	98.5	



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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	eness Factor:	67						
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"	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	#100 1.6		98.4					
LBW	0.7	0.9	99.3					

Approved By: Mart P. Ball