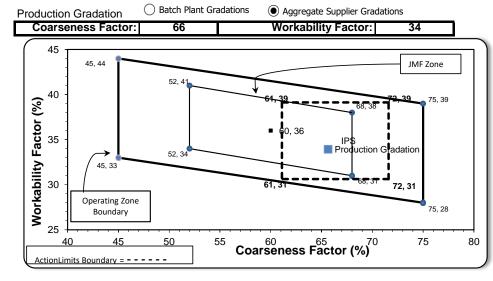
PLANT #:		P-101					Contractor:		
Sample Date	:	7/17/23			Concrete Grade:	P1M, 3500HP			
Dates Test Represents:		7/18/2023	- through 7/24/2023				MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
CA	71-47	Presque Isle	1070	6.54	2.62	34.9			
IA	71-47	Presque Isle	800	4.89	2.62	26.1			
2NS	75-051	Mid Michigan	1200	7.23	2.66	39.1			
		Total Wt		18.67		100.0	< Verify this number is 100%		
Sieve		CA	IA	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	00.0	100	0.0	100.0	100.0	0.0	0.0	
1.5"		95.9	100	0.0	100.0	98.6	1.4	1.4	
1"		42.5	100	0.0	100.0	80.0	18.6	20.0	
3/4"		10.3	98	.5	100.0	68.3	11.6	31.7	1
1/2"		3.6	83	.2	100.0	62.0	6.3	38.0	
3/8"		2.7	63	.7	100.0	56.6	5.4	43.4	*N
#4		2.1	17	.3	96.7	43.0	13.6	57.0	*/
#8		1.8	4.	5	82.2	33.9	9.1	66.1	noi
#16		1.7	2.	7	67.7	27.8	6.2	72.2	*0
#30		1.7	2.	3	52.1	21.6	6.2	78.4	nor
#50		1.6	2.	1	26.7	11.5	10.0	88.5	*9
#100		1.5	1.	9	7.3	3.9	7.7	96.1	a 2
LBW		1.3	1.	7	1.3	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 8% for the 1" sieve when 2" max. size (nom. Max. 1.5") aggregate is used.



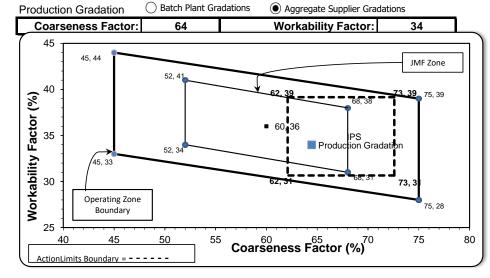
Initial Product	ion Sample (IPS	S)	
Coars	seness Factor:	66	
Work	ability Factor:	35	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	99.6	0.4	0.4
1"	84.3	15.3	15.7
3/4"	74.8	9.6	25.2
1/2"	64.3	10.4	35.7
3/8"	56.8	7.5	43.2
#4	43.0	13.8	57.0
#8	34.9	8.1	65.1
#16	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

Approved By: Mart 1. Ball

PLANT #: P-102						Contractor:			
Sample Date	:	7/17/23			Concrete Grade:	P1M, 3500HP			
Dates Test Represents:		7/18/2023	through	7/24/2023			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
1.5"		100.0	100	0.0	100.0	100.0	0.0	0.0	
1"		64.0	100	0.0	100.0	84.2	15.8	15.8	1
3/4"		38.9	100	0.0	100.0	73.2	11.0	26.8	1
1/2"		16.9	95	.6	100.0	62.7	10.4	37.3	
3/8"		9.4	84	.3	100.0	57.4	5.3	42.6	*
#4		2.7	22	0	98.3	42.9	14.6	57.1	*,
#8		1.6	6.	8	83.4	34.0	8.9	66.0	no
#16		1.4	3.	2	65.9	26.5	7.5	73.5	*(
#30		1.3	2.	2.1	46.7	18.9	7.6	81.1	no
#50		1.2	1.	8	23.0	9.7	9.2	90.3	*(
#100		1.1	1.	6	6.6	3.3	6.4	96.7	a 2
LBW		1.0	1.	4	1.3	1.2	2.1	98.8	1



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Intial Production 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	#100 2.2		97.8						
LBW	1.4	0.8	98.6						

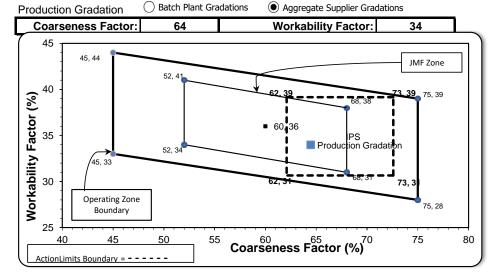
Approved By: Mart 1. Ball

PLANT #: P-103						Contractor:			
Sample Date	:	7/17/23			Concrete Grade:	P1M, 3500HP			
Dates Test R	Dates Test Represents:		through	7/24/2023			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	0 18.70		100.0	< Verify this number is 100%		
Sieve		CA	14	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"		64.0	100	0.0	100.0	84.2	15.8	15.8	1
3/4"		38.9	100	0.0	100.0	73.2	11.0	26.8	1
1/2"		16.9	95	.6	100.0	62.7	10.4	37.3	1
3/8"		9.4	84	.3	100.0	57.4	5.3	42.6	*
#4		2.7	22	0	98.3	42.9	14.6	57.1	*.
#8		1.6	6.	8	83.4	34.0	8.9	66.0	no
#16		1.4	3.	2	65.9	26.5	7.5	73.5	*
#30		1.3	2.	2.1	46.7	18.9	7.6	81.1	no
#50		1.2	1.	8	23.0	9.7	9.2	90.3	*(
#100		1.1	1.	6	6.6	3.3	6.4	96.7	аź
LBW		1.0	1.	4	1.3	1.2	2.1	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.



Intial Production	on Sample (IPS	5)	_
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"	85.5	14.5	14.5
3/4"	73.4	12.1	26.6
1/2"	/2" 61.0		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 P. Ball

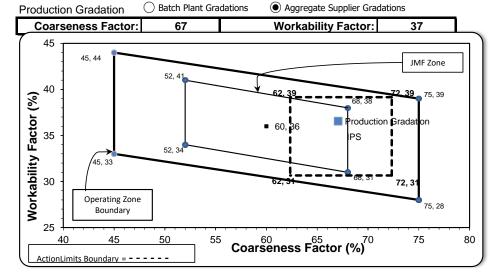
PLANT #	#:	14					Contractor:		
Sample Date		7/17/23			Concrete Grade	: P1M, 3500HP			
Dates Test R	epresents:	7/18/2023	through	7/24/2023			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific Gravity	% Contribution			
CA	58-003	Stoneco	1370	8.16	2.69	43.9			
IA	58-003	Stoneco	550	3.28	2.69	17.6			
2NS	19-04	Schlegel	1200	7.20	2.67	38.5			
		Total Wt	3120	18.64		100.0	< Verify this n	umber is 100%	
Sieve		CA	IA	A .	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	<u>Builders Red</u> 30701 W. 10 N
2"	1	00.0	100).0	100.0	100.0	0.0	0.0	Suite 500
1.5"	1	00.0	100).0	100.0	100.0	0.0	0.0	Farmington Hi
1"	6	64.0	100).0	100.0	84.2	15.8	15.8	
3/4"	3	38.9	100).0	100.0	73.2	11.0	26.8	
1/2"		16.9	95	.6	100.0	62.7	10.4	37.3	
3/8"		9.4	84	.3	100.0	57.4	5.3	42.6	*Maximum % Retained must be abov
#4		2.7	22	.0	99.9	43.5	14.0	56.5	*Any two adjacent sieves must equal
#8		1.6	6.	8	90.1	36.6	6.9	63.4	nom. max., #100 and #200 sieves.
#16		1.4	3.2		69.4	27.9	8.7	72.1	*% Retained must be at least 4% for
#30		1.3	2.	1	44.5	18.1	9.8	81.9	nom. max., #100 and #200 sieves.
#50		1.2	1.	8	14.3	6.3	11.7	93.7	*% Retained must be at least 8% for
#100		1.1	1.	-	2.7	1.8	4.5	98.2	a 2" max. size (nom. Max. 1.5") aggreg
LBW		1.0	1.	4	0.2	0.8	1.0	99.2	J



di-Mix

Mile Rd. Hills, MI 48336

ove the 3/8" sieve. al 10% except max., or each sieve except max., or the 1" sieve when egate is used.



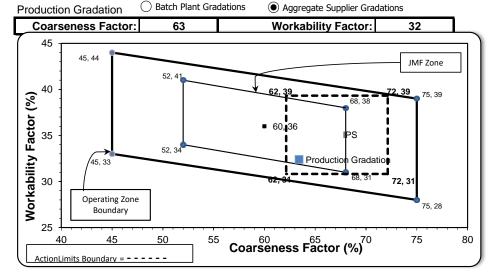
Intial Product	ion Sample (IPS	5)	-
Coars	seness Factor:	67	
Worl	kability Factor:	35	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	100.0	0.0	0.0
1"	85.5	14.5	14.5
3/4"	73.4	12.1	26.6
1/2"	61.0	12.4	39.0
3/8"	56.2	4.8	43.8
#4	43.1	13.1	56.9
#8	34.9	8.2	65.1
#16	29.4	5.5	70.6
#30	21.6	7.8	78.4
#50	#50 8.1		91.9
#100	#100 2.2		97.8
LBW	1.4	0.8	98.6
LBW	1.4	0.8	98.6

Approved By: Marthe Ball

PLANT #	#:	12					Contractor:		
Sample Date	:	7/17/23			Concrete Grade:	P1M, 3500HP			
Dates Test R	epresents:	7/18/2023	through	7/24/2023			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	850	5.20	2.62	27.7			
2NS	63-115	Ray Rd	1200	7.26	2.65	39.1	1		
		Total Wt	3070	18.70		100.0	< Verify this n	umber is 100%	_
Sieve		CA	IA	۱.	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	00.0	100	0.0	100.0	100.0	0.0	0.0	
1.5"	ļ	95.6	100).0	100.0	98.5	1.5	1.5	
1"		43.1	100).0	100.0	81.1	17.4	18.9	
3/4"		8.3	98	.2	100.0	69.0	12.1	31.0	
1/2"		3.3	82	.8	100.0	63.1	5.9	36.9	
3/8"		2.8	61	.8	100.0	57.1	6.0	42.9	*N
#4		2.0	13	.0	96.0	41.8	15.3	58.2	*A
#8		2.0	3.	2	78.9	32.4	9.4	67.6	nom
#16		1.8	2.	1	62.9	25.8	6.6	74.2	*%
#30		1.8	2.	0	47.7	19.8	6.0	80.2	non
#50		1.7	1.	8	25.8	11.1	8.6	88.9	*%
#100		1.6	1.	8	6.0	3.4	7.8	96.6	a 2"
LBW		1.3	1.	4	0.7	1.1	2.3	98.9	1



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



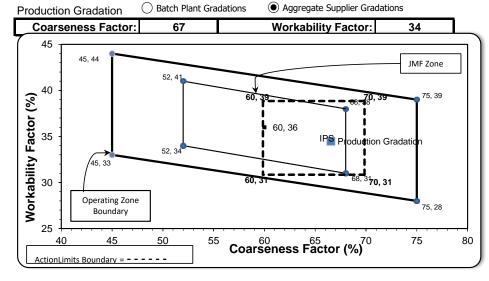
Intial Producti	on Sample (IPS	5)	-
Coars	eness Factor:	67	
Work	ability Factor:	35	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	99.6	0.4	0.4
1"	83.9	15.7	16.1
3/4"	74.0	9.8	26.0
1/2"	63.7	10.3	36.3
3/8"	56.4	7.3	43.6
#4	43.0	13.4	57.0
#8	35.1	7.9	64.9
#16	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 P. Ball

PLANT #:		20					Contractor:												
Sample Date	:	7/17/23			Concrete Grade:	P1M, 3500HP													
Dates Test Represents:		7/18/2023	through	7/24/2023			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	850	5.20	2.62	27.7													
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	00.0	100).0	100.0	100.0	0.0	0.0											
1.5"	9	97.6	100).0	100.0	99.2	0.8	0.8											
1"	:	51.2	100).0	100.0	83.8	15.4	16.2											
3/4"		17.8	98	.2	100.0	72.2	11.6	27.8											
1/2"		5.2	80	.2	100.0	63.0	9.2	37.0											
3/8"		3.6	58	.2	100.0	56.4	6.6	43.6	*N										
#4		2.8											12.0		97.3	42.3	14.1	57.7	*A
#8		2.4	3.	5	83.7	34.5	7.8	65.5	nor										
#16		2.4 2.6 68.5	68.5	28.3	6.2	71.7	*9												
#30		2.2	2.	3	48.8	20.4	7.8	79.6	nor										
#50		2.2	2.	2	22.2	10.0	10.4	90.0	*%										
#100		2.0	2.	1	4.3	2.9	7.1	97.1	a 2'										
LBW		1.6	1.	8	0.7	1.3	1.6	98.7	1										



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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"	99.1	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

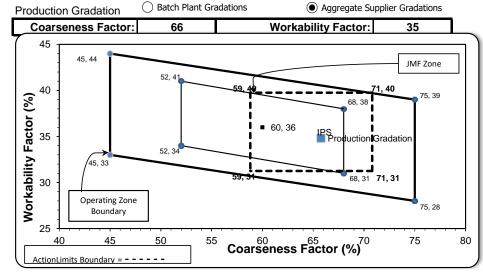
Approved By: Mart 1. Ball

PLANT #	#:	P11					Contractor:			
Sample Date	:	7/17/23			Concrete Grade:	P1M, 3500HP				
Dates Test R	epresents:	7/18/2023	through	7/24/2023			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	850	5.20	2.62	27.7				
2NS	95-013	Smelter Bay	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	00.0	100).0	100.0	100.0	0.0	0.0		
1.5"	9	95.6	100).0	100.0	98.5	1.5	1.5		
1"		43.1	100).0	100.0	81.1	17.4	18.9		
3/4"		8.3	98	.2	100.0	69.0	12.1	31.0		
1/2"		3.3	82	.8	100.0	63.1	5.9	36.9		
3/8"		2.8	61	.8	100.0	57.1	6.0	42.9	*M	
#4		2.0	13	.0	96.7	42.1	15.1	57.9	*Ar	
#8		2.0	3.	2	85.1	34.8	7.2	65.2	nom	
#16		1.8	2.	1	70.2	28.6	6.2	71.4	*%	
#30		1.8		2.0	0	50.6	20.9	7.7	79.1	nom
#50		1.7	1.	8	25.0	10.8	10.1	89.2	*%	
#100		1.6	1.	8	7.6	4.0	6.8	96.0	a 2"	
LBW		1.3	1.	4	1.3	1.3	2.7	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 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

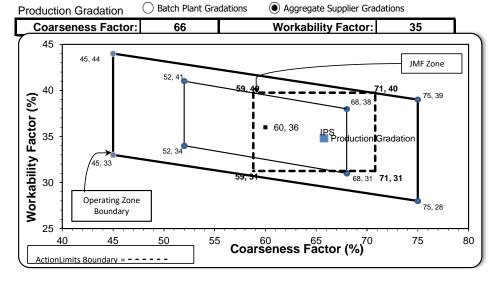
Approved By: Mary P. Ball

PLANT #	#:	P-32					Contractor:		
Sample Date	:	7/17/23			Concrete Grade:	P1M, 3500HP			
Dates Test R	epresents:	7/18/2023	through	7/24/2023			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	850	5.20	2.62	27.7			
2NS	95-013	Smelter Bay	1200	7.26	2.65	39.1			
		Total Wt	3070	18.70		100.0	< Verify this n	umber is 100%	
Sieve		CA	1/	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"		95.6	100	0.0	100.0	98.5	1.5	1.5	
1"		43.1	100	0.0	100.0	81.1	17.4	18.9	
3/4"		8.3	98	.2	100.0	69.0	12.1	31.0	
1/2"		3.3	82	8	100.0	63.1	5.9	36.9	
3/8"		2.8	61	.8	100.0	57.1	6.0	42.9	*N
#4		2.0	13	.0	96.7	42.1	15.1	57.9	*A
#8		2.0	3.	2	85.1	34.8	7.2	65.2	nor
#16		1.8	2.	1	70.2	28.6	6.2	71.4	*9
#30		1.8	2.	0	50.6	20.9	7.7	79.1	nor
#50		1.7	1.	8	25.0	10.8	10.1	89.2	*9
#100		1.6	1.		7.6	4.0	6.8	96.0	a 2
LBW		1.3	1.	4	1.3	1.3	2.7	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 8% for the 1" sieve when 2" max. size (nom. Max. 1.5") aggregate is used.



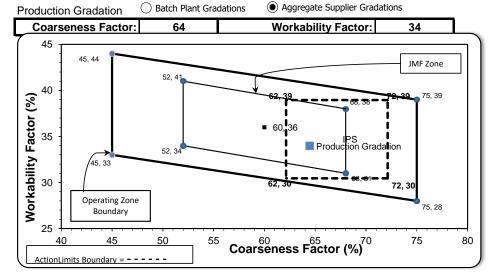
Intial Production	on Sample (IPS	5)	
Coars	eness Factor:	65	
Work	ability Factor:	36	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	99.0	0.6	0.6
1"	84.0	15.3	16.0
3/4"	73.5	10.5	26.5
1/2"	65.2	8.2	34.8
3/8"	58.2	7.1	41.8
#4	44.1	14.1	55.9
#8	35.5	8.6	64.5
#16	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		P-35					Contractor:		
Sample Date	:	7/17/23			Concrete Grade:	P1M, 3500HP			
Dates Test R	epresents:	7/18/2023	through	7/24/2023			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	1/	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"		64.0	100	0.0	100.0	84.2	15.8	15.8	
3/4"		38.9	100	0.0	100.0	73.2	11.0	26.8	1
1/2"		16.9	95	.6	100.0	62.7	10.4	37.3	
3/8"		9.4	84	.3	100.0	57.4	5.3	42.6	*N
#4		2.7	22	0	98.3	42.9	14.6	57.1	*A
#8		1.6	6.	8	83.4	34.0	8.9	66.0	nor
#16		1.4	3.	2	65.9	26.5	7.5	73.5	*%
#30		1.3	2.1		46.7	18.9	7.6	81.1	nor
#50		1.2	1.	8	23.0	9.7	9.2	90.3	*9
#100		1.1	1.	6	6.6	3.3	6.4	96.7	a 2
LBW		1.0	1.	4	1.3	1.2	2.1	98.8	1



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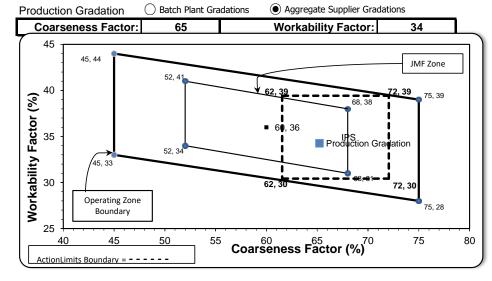
Intial Producti	Intial Production Sample (IPS)								
Coars	eness Factor:	67							
Work	ability Factor:	35							
Sieve	Cumulative	%	Cumulative						
Sieve	% Passing	Retained	% Retained						
2"	100.0	0.0	0.0						
1.5"	100.0	0.0	0.0						
1"	86.9	13.1	13.1						
3/4"	76.1	10.8	23.9						
1/2"	63.7	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	9.0	11.6	91.0						
#100	2.1	6.9	97.9						
LBW	1.0	1.1	99.0						

Approved By: Mart 1. Ball

PLANT #	#:	P-36					Contractor:		
Sample Date	:	7/17/23			Concrete Grade:	P1M, 3500HP			
Dates Test R	epresents:	7/18/2023	through	7/24/2023			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	850	5.20	2.62	27.7			
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	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"	1	00.0	100).0	100.0	100.0	0.0	0.0	
1.5"		95.6	100).0	100.0	98.5	1.5	1.5	1
1"		43.1	100).0	100.0	81.1	17.4	18.9	
3/4"		8.3	98	.2	100.0	69.0	12.1	31.0	1
1/2"		3.3	82	.8	100.0	63.1	5.9	36.9	
3/8"		2.8	61	.8	100.0	57.1	6.0	42.9	*1
#4		2.0	13	.0	97.3	42.3	14.8	57.7	*/
#8		2.0	3.	2	83.7	34.3	8.0	65.7	no
#16		1.8	2.	1	68.5	28.0	6.3	72.0	*0
#30		1.8	2.	0	48.8	20.2	7.7	79.8	no
#50		1.7	1.	8	22.2	9.7	10.5	90.3	*9
#100		1.6	1.		4.3	2.7	7.0	97.3	a 2
LBW		1.3	1.	4	0.7	1.1	1.6	98.9	1



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Intial Product	ion Sample (IPS	5)	_
Coars	seness Factor:	67	
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"	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

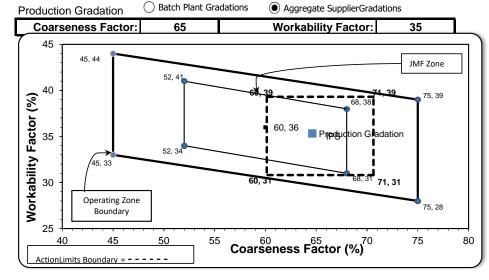
Approved By: Mart 1. Ball

PLANT :	#:	P-39					Contractor:		
Sample Date):	7/17/23			Concrete Grade:	P1M, 3500HP			
Dates Test R	epresents:	7/18/2023	through	7/24/2023			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 n	umber is 100%	
Sieve		СА	14	A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	
2"		100.0	100).0	100.0	100.0	0.0	0.0	
1.5"		95.9	100	0.0	100.0	98.6	1.4	1.4	1
1"		42.5	100	0.0	100.0	80.9	17.7	19.1	1
3/4"		10.3	98	.5	100.0	69.8	11.1	30.2	
1/2"		3.6	83	.2	100.0	63.6	6.2	36.4	
3/8"		2.7	63	.7	100.0	58.2	5.4	41.8	*Ma
#4		2.1	17	.3	95.9	44.3	14.0	55.7	*Ar
#8		1.8	4.	5	82.4	35.3	8.9	64.7	nom
#16		1.7	2.	7	68.2	29.0	6.3	71.0	*%
#30		1.7	2.	3	51.0	21.9	7.1	78.1	nom
#50		1.6	2.	1	23.0	10.4	11.5	89.6	*%
#100		1.5	1.		5.6	3.3	7.2	96.7	a 2"
LBW		1.3	1.	7	1.1	1.3	2.0	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 8% for the 1" sieve when 2" max. size (nom. Max. 1.5") aggregate is used.



Intial Producti	on Sample (IPS	5)	-
Coars	seness Factor:	65	
Work	ability Factor:	35	
Sieve	Cumulative	%	Cumulative
Sieve	% Passing	Retained	% Retained
2"	100.0	0.0	0.0
1.5"	99.6	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	3.5	9.1	96.5
LBW	1.2	2.4	98.8

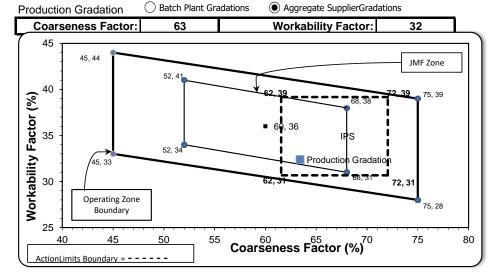
Approved By: Mart P. Ball

PLANT :	#:	P-O2					Contractor:				
Sample Date	:	7/17/23			Concrete Grade:	P1M, 3500HP					
Dates Test R	epresents:	7/18/2023	through	7/24/2023			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	850	5.20	2.62	27.7					
2NS	63-115	Ray Rd	1200	7.26	2.65	39.1					
		Total Wt	3070	18.70		100.0	< Verify this n	umber is 100%	_		
Sieve		CA	I/	4	2NS	Cumulative % Passing	% Retained	Cumulative % Retained]		
2"	1	100.0	10	0.0	100.0	100.0	0.0	0.0	1		
1.5"		95.6	100	0.0	100.0	98.5	1.5	1.5	1		
1"		43.1	100 98	-	-	0.0	100.0	81.1	17.4	18.9	1
3/4"		8.3				3.2	100.0	69.0	12.1	31.0	
1/2"		3.3	82	2.8	100.0	63.1	5.9	36.9			
3/8"		2.8	61	.8	100.0	57.1	6.0	42.9	*N		
#4		2.0	13	3.0	96.0	41.8	15.3	58.2	*/		
#8		2.0	3.	.2	78.9	32.4	9.4	67.6	no		
#16		1.8	2.	.1	62.9	25.8	6.6	74.2	*0		
#30		1.8	2.	.0	47.7	19.8	6.0	80.2	noi		
#50		1.7	1.	.8	25.8	11.1	8.6	88.9	*0		
#100		1.6	1.	.8	6.0	3.4	7.8	96.6	a 2		
LBW		1.3	1.	.4	0.7	1.1	2.3	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 Product	ion Sample (IPS	5)	_
Coars	seness Factor:	67	
Worl	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	1.6	6.5	98.4
LBW	0.7	0.9	99.3

Approved By: North, Ball