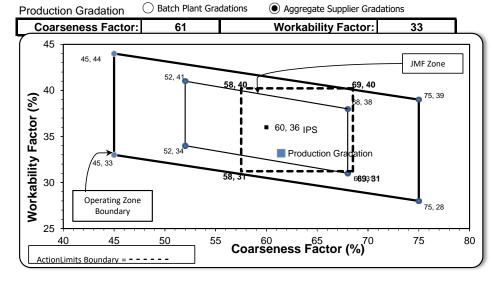
PLANT :	#:	P-102					Contractor:		
Sample Date	•:	7/12/21			Concrete Grade:	S2M			
Dates Test R	epresents:	7/13/2021	through	7/19/2021			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific	%			
					Gravity	Contribution			
6AA	58-003	Stoneco	1550	9.23	2.69	50.0			
26A	58-003	Stoneco	340	2.03	2.69	11.0			
2NS	63-114	Highland	1210	7.32	2.65	39.0			
		Total Wt	3100	18.58		100.0	< Verify this n	umber is 100%	
Sieve	e	6AA	26	6A	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"	1	00.0	10	0.0	100.0	100.0	0.0	0.0	1
3/4"	8	33.9	10	0.0	100.0	92.0	8.1	8.1	1
1/2"	4	15.3	99	9.4	100.0	72.6	19.4	27.4	1
3/8"	2	20.5	88	3.0	100.0	58.9	13.7	41.1	*
#4		3.2	9	.7	99.1	41.3	17.6	58.7	*
#8		1.3	2	.6	82.6	33.2	8.2	66.8	no
#16		1.1	1.	.8	63.1	25.4	7.8	74.6	*
#30		0.9	1.	.5	43.5	17.6	7.8	82.4	no
#50		0.7	1.	.4	19.8	8.2	9.4	91.8	*
#100		0.5	1.	.4	4.9	2.3	5.9	97.7	a 2
LBW		0.5	1.	.2	0.4	0.5	1.8	99.5	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 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

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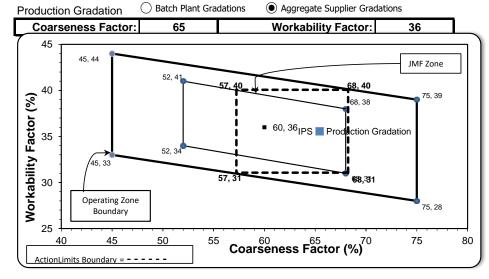
Approved By: Mart 1. Ball

PLANT #	#:	P-20					Contractor:		
Sample Date	:	7/12/21			Concrete Grade:	S2M			
Dates Test R	epresents:	7/13/2021	through	7/19/2021			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific	%			
Agg. Class		Source			Gravity	Contribution			
6AA	71-47	Presque Isle	1700	10.40	2.62	55.7			
26A	71-47	Presque Isle	100	0.61	2.62	3.3			
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	100.0	10	0.0	100.0	100.0	0.0	0.0	1
1.5"	1	100.0	10	0.0	100.0	100.0	0.0	0.0	
1"	1	96.4	10	0.0	100.0	98.0	2.0	2.0	
3/4"		81.4	10	0.0	100.0	89.6	8.4	10.4	
1/2"		47.5	96	5.6	100.0	70.6	19.0	29.4	1
3/8"	:	24.9	90).7	100.0	57.8	12.8	42.2	*
#4		4.1	27	27.9		43.4	14.4	56.6	*
#8		1.8	6.6		83.8	35.6	7.8	64.4	no
#16		1.5	2.5		67.8	28.7	6.9	71.3	*
#30		1.4	2.	.0	47.6	20.4	8.4	79.6	nc
#50		1.2	1.	.9	20.2	9.0	11.3	91.0	*
#100		1.2	1.	.8	2.9	1.9	7.1	98.1	a 2
LBW		1.0	1.	.6	0.7	0.9	1.0	99.1	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 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						

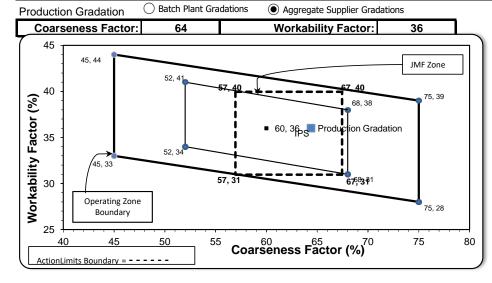
Approved By: Mart P. Ball

PLANT #	#:	P-32					Contractor:		
Sample Date	:	7/12/21			Concrete Grade:	S2M			
Dates Test R	epresents:	7/13/2021	through	7/19/2021			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	320	1.96	2.62	10.5			
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	98.1	100	0.0	100.0	99.1	0.9	0.9	1
3/4"		78.6	100	0.0	100.0	89.5	9.6	10.5	1
1/2"		37.5	97	.7	100.0	69.0	20.5	31.0	
3/8"		18.4	89	.8	100.0	58.8	10.2	41.2	
#4		3.8	29	29.6		43.9	14.9	56.1	
#8		2.5	7.9		84.2	36.0	7.9	64.0	n
#16		2.1	5.5		72.2	30.7	5.3	69.3	
#30		2.0	4.4		48.1	20.8	9.9	79.2	n
#50		1.9	3.	3.7		9.2	11.7	90.8	
#100		1.8	3.	1	4.5	3.0	6.2	97.0	а
LBW		1.5	2.	2	1.8	1.7	1.3	98.3	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.



Sieve % Passing Retained % R 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 0.0 1/2" 70.2 23.7 0.0 3/8" 59.9 10.4 0.4 #4 42.7 17.2 0.4 #8 35.5 7.2 0.0	
Sieve Cumulative % Passing % Retained Cum 2" 100.0 0.0 % 1.5" 100.0 0.0 % 1" 100.0 0.0 % 1" 100.0 0.0 % 1" 100.0 0.0 % 1" 100.0 0.0 % 3/4" 94.0 6.0 % 1/2" 70.2 23.7 % 3/8" 59.9 10.4 % #4 42.7 17.2 % #8 35.5 7.2 %	
Sieve % Passing Retained % R 2" 100.0 0.0 0.0 1.5" 100.0 0.0 0.0 1" 100.0 0.0 0.0 1" 100.0 0.0 0.0 3/4" 94.0 6.0 0.0 1/2" 70.2 23.7 0.0 3/8" 59.9 10.4 0.4 #4 42.7 17.2 0.4 #8 35.5 7.2 0.0	
% Passing Retained % R 2" 100.0 0.0 1.5" 100.0 0.0 1" 100.0 0.0 3/4" 94.0 6.0 1/2" 70.2 23.7 3/8" 59.9 10.4 #4 42.7 17.2 #8 35.5 7.2	nulative
1.5" 100.0 0.0 1" 100.0 0.0 3/4" 94.0 6.0 1/2" 70.2 23.7 3/8" 59.9 10.4 #4 42.7 17.2 #8 35.5 7.2	etained
1" 100.0 0.0 3/4" 94.0 6.0 1/2" 70.2 23.7 3/8" 59.9 10.4 #4 42.7 17.2 #8 35.5 7.2	0.0
3/4" 94.0 6.0 1/2" 70.2 23.7 23.7 3/8" 59.9 10.4 44 #4 42.7 17.2 44 #8 35.5 7.2 60	0.0
1/2" 70.2 23.7 23.7 3/8" 59.9 10.4 4 #4 42.7 17.2 4 #8 35.5 7.2 0	0.0
3/8" 59.9 10.4 4 #4 42.7 17.2 4 #8 35.5 7.2 6	6.0
#4 42.7 17.2 4 #8 35.5 7.2 0	29.8
#8 35.5 7.2	40.1
	57.3
	64.5
#16 28.4 7.0	71.6
#30 19.2 9.2	80.8
#50 8.9 10.3 9	91.1
#100 3.1 5.9 9	96.9
LBW 1.4 1.7 9	98.6

PREPARED BY: SM, LLC Technical Service

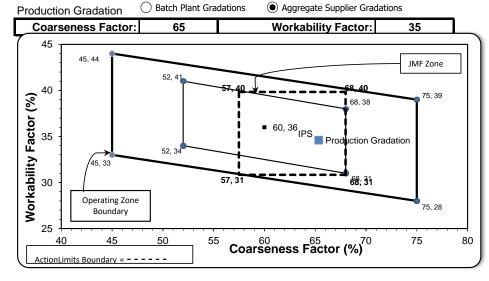
Approved By: Mart 1. Ball

PLANT #	#:	P-35					Contractor:		
Sample Date	:	7/12/21			Concrete Grade:	S2M			
Dates Test R	epresents:	7/13/2021	through	7/19/2021			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific	%			
Ayy. Class	FIL#	Source	Weight (SSD)	п	Gravity	Contribution			
6AA	58-003	Stoneco	1625	9.68	2.69	52.4			
26A	58-003	Stoneco	275	1.64	2.69	8.9			
2NS	81-093	Burmeister	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	00.0	10	0.0	100.0	100.0	0.0	0.0	1
1.5"	1	00.0	100	0.0	100.0	100.0	0.0	0.0	
1"	1	00.0	10	0.0	100.0	100.0	0.0	0.0	
3/4"	5	83.9	10	0.0	100.0	91.6	8.4	8.4	
1/2"	4	45.3	99	.4	100.0	71.3	20.3	28.7	
3/8"	2	20.5	88	8.0	100.0	57.3	14.0	42.7	*N
#4		3.2	9.	9.7		40.7	16.6	59.3	*A
#8		1.3	2.6		87.0	34.6	6.1	65.4	nor
#16		1.1	1.8		71.5	28.4	6.2	71.6	*%
#30		0.9	1.5		50.9	20.3	8.1	79.7	nor
#50		0.7	1.	1.4		7.1	13.2	92.9	*%
#100		0.5	1.	.4	2.6	1.4	5.8	98.6	a 2
LBW		0.5	1.	.2	0.7	0.6	0.8	99.4	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"	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

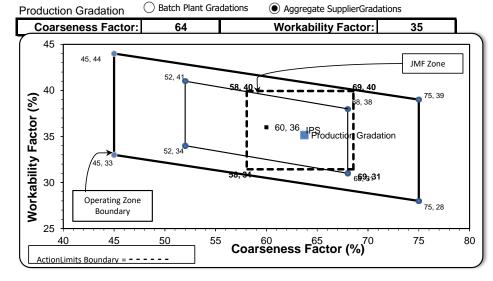
Approved By: Mart P. Ball

PLANT :	#:	P-O2					Contractor:		
Sample Date	:	7/12/21			Concrete Grade:	S2M			
Dates Test R	epresents:	7/13/2021	through	7/19/2021			MDOT No.:		
Agg. Class	Pit #	Source	Weight (SSD)	ft ³	Specific	%			
6AA	71-47	Presque Isle	1500	9.17	Gravity 2.62	Contribution 49.2			
26A	71-47	Presque Isle	300	1.83	2.62	9.8			
20A 2NS	63-115	Ray Rd	1250	7.56	2.65	41.0			
2110	00-110	Total Wt	3050	18.57	2.00	100.0	< Verify this n	umber is 100%	
Sieve		6AA	26	6A	2NS	Cumulative % Passing	% Retained	Cumulative % Retained	1
2"	1	100.0	10	0.0	100.0	100.0	0.0	0.0	1
1.5"	1	100.0	10	0.0	100.0	100.0	0.0	0.0	1
1"	1	99.2	10	0.0	100.0	99.6	0.4	0.4	
3/4"		78.5	10	0.0	100.0	89.4	10.2	10.6	
1/2"		36.5	97	7.7	100.0	68.5	20.9	31.5]
3/8"		18.0	89	9.8	100.0	58.7	9.9	41.3	*
#4		5.0	29	9.6	96.6	45.0	13.7	55.0	*,
#8		3.4	7.	.9	79.8	35.2	9.8	64.8	no
#16		2.9	5.5		63.3	27.9	7.2	72.1	*0
#30		2.4	4	.4	47.1	20.9	7.0	79.1	no
#50		2.1	3	.7	24.7	11.5	9.4	88.5	*0
#100		1.8	3	.1	5.3	3.4	8.2	96.6	a 2
LBW		1.4	2	.2	0.7	1.2	2.2	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 Producti	on Sample (IPS	5)	-
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"	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 P. Ball