

Aggregate Optimization Chart

Production Gradation Report

PLANT #: P-32

Sample Date: 6/10/19

Dates Test Represents: 6/11/2019 through 6/17/2019

Concrete Grade: P1M

Contractor: _____

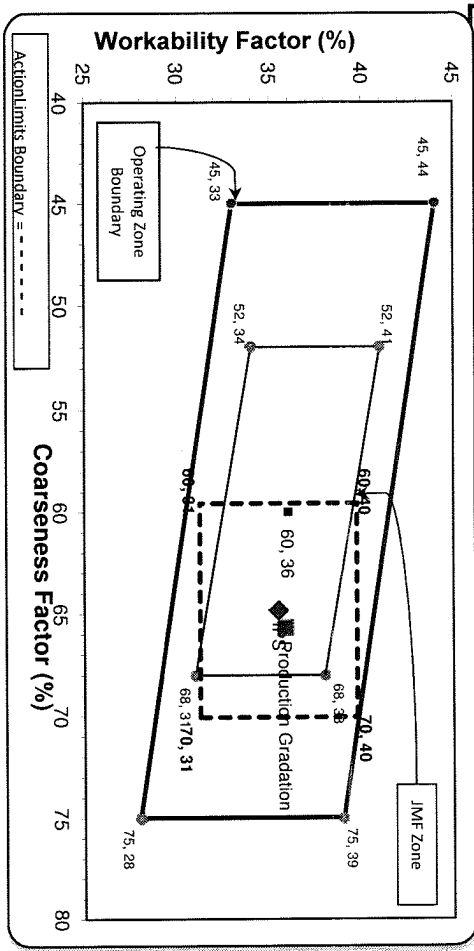
MDOT No.: _____

Agg. Class	Pit #	Source	Weight (ssd)	ft ³	Specific Gravity	Contribution %
CA	71-47	Presque Isle	870	5.32	2.62	28.3
IA	71-47	Presque Isle	1000	6.12	2.62	32.6
2NS	47-16	Burno Rd	1200	7.26	2.65	39.1
Total Wt			3070	18.70		100.0

Sieve	CA	IA	2NS	Cumulative % Passing	% Retained	Cumulative % Retained
2"	100.0	100.0	100.0	100.0	0.0	0.0
1.5"	89.2	100.0	100.0	96.9	3.1	3.1
1"	29.1	100.0	100.0	79.9	17.0	20.1
3/4"	8.1	98.1	100.0	73.3	6.6	26.7
1/2"	3.2	78.3	100.0	65.5	7.8	34.5
3/8"	2.8	55.3	99.9	57.9	7.6	42.1
#4	2.5	15.4	96.3	43.4	14.5	56.6
#8	2.1	5.1	85.9	35.8	7.5	64.2
#16	1.6	3.6	72.5	30.0	5.9	70.0
#30	1.4	3.3	52.9	22.1	7.8	77.9
#50	1.4	3.1	17.9	8.4	13.7	91.6
#100	1.3	2.9	2.6	2.3	6.1	97.7
LBW	1.1	2.3	0.7	1.3	1.0	98.7

Production Gradation Batch Plant Gradations Aggregate Supplier Gradations

Coarseness Factor: 66 Workability Factor: 36



Initial Production Sample (IPS)

Sieve	Coarseness Factor:	Workability Factor:	% Passing	% Retained	Cumulative % Retained
2"	65	35	100.0	0.0	0.0
1.5"			99.4	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



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., nom. max., #100 and #200 sieves.
*% Retained must be at least 4% for each sieve except max., nom. max., #100 and #200 sieves.
*% Retained must be at least 8% for the 1" sieve when a 2" max. size (nom. Max. 1.5") aggregate is used.

PREPARED BY:
SM, LLC Technical Service

Approved By: _____

Plant 958-JMT
 Product 7919-COARSE AGG P1M LS PI
 Period: 06/09/2019 - 06/15/2019

Name/Title Doug Storey / QC Technician
 Report Date 06/13/2019

Procedure	Sieve/Test	Result	Unit	Coarse Agg P1M LS PI Target
	2" (50mm)	100.0	%	
	1 1/2" (37.5mm)	89.2	%	
	1" (25mm)	29.1	%	
	3/4" (19mm)	8.1	%	
	1/2" (12.5mm)	3.2	%	
	3/8" (9.5mm)	2.8	%	
	#4 (4.75mm)	2.5	%	
	#8 (2.36mm)	2.1	%	
	#16 (1.18mm)	1.6	%	
	#30 (0.6mm)	1.4	%	
	#50 (0.3mm)	1.4	%	
	#100 (0.15mm)	1.3	%	
	#200 (75µm)	1.2	%	
	Wash Loss (#200/75um)	1.1	%	0-2
	Total Moisture	2.0	%	

Edw. C. Levy Co.

JMT
8911 W. Jefferson
Detroit, 48209
(313) 429-2429

Plant 958-JMT

Product 7920-INTERMED AGG P1M LS PI

Name/Title Doug Storey / QC Technician

Period: 06/09/2019 - 06/15/2019

Report Date 06/13/2019

Procedure	Sieve/Test	Result	Unit	Intermed Agg P1M LS PI Target
	2" (50mm)	100.0	%	
	1 1/2" (37.5mm)	100.0	%	
	1" (25mm)	100.0	%	
	3/4" (19mm)	98.1	%	
	1/2" (12.5mm)	78.3	%	
	3/8" (9.5mm)	55.3	%	
	#4 (4.75mm)	15.4	%	
	#8 (2.36mm)	5.1	%	
	#16 (1.18mm)	3.6	%	
	#30 (0.6mm)	3.3	%	
	#50 (0.3mm)	3.1	%	
	#100 (0.15mm)	2.9	%	
	#200 (75µm)	2.7	%	
	Wash Loss (#200/75um)	2.3	%	0-3
	Total Moisture	3.9	%	

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Plant 958-JMT
Product 1022-2NS GR
Period: 06/09/2019 - 06/15/2019

Name/Title Doug Storey / QC Technician
Report Date 06/13/2019

Procedure	Sieve/Test	Result	Unit	2NS GR Spec
	3/8" (9.5mm)	99.9	%	100-100
	#4 (4.75mm)	96.3	%	95-100
	#8 (2.36mm)	85.9	%	65-95
	#16 (1.18mm)	72.5	%	35-75
	#30 (0.6mm)	52.9	%	20-55
	#50 (0.3mm)	17.9	%	10-30
	#100 (0.15mm)	2.6	%	0-10
	#200 (75µm)	0.9	%	
	FM	2.72		2.6-3
	Wash Loss (#200/75um)	0.7	%	0-3
	Total Moisture	4.1	%	