

AIMS Stockpile Summary

Project Name:	41_Granite_1	Date:	2/5/09
Workbook:	41_Granite_1_AIMS_Stockpile_v3.6.xlsm	Technician:	mjg
Description:			

Combined Properties (weighted)			
2D Form (Fine)	7.95	Sphericity (Coarse)	
Angularity (Coarse & Fine)	3457.5	Low (≤ 0.3)	0.0%
Sphericity (Coarse)	0.67	Medium (0.3 - 0.7)	44.3%
Texture (Coarse)	387.6	High (0.7 - 1.0)	20.7%
		Flat & Elongated Ratio (Coarse)	
		L/S ≥ 1:1	65.0%
		L/S > 2:1	48.0%
		L/S > 3:1	23.3%
		L/S > 4:1	7.3%
		L/S > 5:1	2.0%
		Flat or Elongated Ratio (Coarse)	
		F or E ≥ 1:1	65.0%
		F or E > 1:2	25.7%
		F or E > 1:3	4.8%
		F or E > 1:4	0.8%
		F or E > 1:5	0.8%

Form2D													
Size	Particles in Range	Average	Standard Deviation	Low (≤ 6)			Medium (6 - 12)			High (12 - 20)			Out of Range #
				#	%	Cum. %	#	%	Cum. %	#	%	Cum. %	
2.36 (#8)	151	7.7	1.9	33	21.9%	21.9%	113	74.8%	96.7%	5	3.3%	100.0%	0
1.18 (#16)	150	7.5	1.8	32	21.3%	21.3%	116	77.3%	98.7%	2	1.3%	100.0%	0
0.60 (#30)	150	8.0	2.1	26	17.3%	17.3%	119	79.3%	96.7%	5	3.3%	100.0%	0
0.30 (#50)	151	8.0	2.2	28	18.5%	18.5%	115	76.2%	94.7%	8	5.3%	100.0%	0
0.15 (#100)	151	8.1	2.0	17	11.3%	11.3%	128	84.8%	96.0%	6	4.0%	100.0%	0
0.075 (#200)	146	8.9	2.8	19	13.0%	13.0%	104	71.2%	84.2%	23	15.8%	100.0%	5

Angularity													
Size	Particles in Range	Average	Standard Deviation	Low (≤ 3300)			Medium(3300-6600)			High(6600-10000)			Out of Range #
				#	%	Cum. %	#	%	Cum. %	#	%	Cum. %	
37.5 (1.5")													
25.0 (1.0")	50	2873.0	493.1	37	74.0%	74.0%	13	26.0%	100.0%	0	0.0%	100.0%	0
19.0 (3/4")	50	2841.5	639.0	41	82.0%	82.0%	9	18.0%	100.0%	0	0.0%	100.0%	0
12.5 (1/2")	50	3138.7	597.3	28	56.0%	56.0%	22	44.0%	100.0%	0	0.0%	100.0%	0
9.5 (3/8")	50	3251.6	694.5	27	54.0%	54.0%	23	46.0%	100.0%	0	0.0%	100.0%	0
4.75 (#4)	50	2963.7	590.8	37	74.0%	74.0%	13	26.0%	100.0%	0	0.0%	100.0%	0
2.36 (#8)	151	3454.8	918.6	71	47.0%	47.0%	79	52.3%	99.3%	1	0.7%	100.0%	0
1.18 (#16)	150	3288.5	802.0	81	54.0%	54.0%	69	46.0%	100.0%	0	0.0%	100.0%	0
0.60 (#30)	150	3642.0	949.7	58	38.7%	38.7%	90	60.0%	98.7%	2	1.3%	100.0%	0
0.30 (#50)	151	3650.0	984.1	62	41.1%	41.1%	89	58.9%	100.0%	0	0.0%	100.0%	0
0.150 (#100)	151	3451.5	1060.6	83	55.0%	55.0%	66	43.7%	98.7%	2	1.3%	100.0%	0
0.075 (#200)	151	2595.7	1241.4	126	83.4%	83.4%	24	15.9%	99.3%	1	0.7%	100.0%	0

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Texture													
Size	Particles in Range	Average	Standard Deviation	Low (≤ 260)		(≤ 260)	Medium (260 - 550)		(≤ 550)	High (550 - 1000)		(≤ 1000)	Out of Range #
				#	%	Cum. %	#	%	Cum. %	#	%	Cum. %	
37.5 (1.5")													
25.0 (1.0")	50	461.0	84.8	0	0.0%	0.0%	45	90.0%	90.0%	5	10.0%	100.0%	0
19.0 (3/4")	50	480.4	90.5	1	2.0%	2.0%	39	78.0%	80.0%	10	20.0%	100.0%	0
12.5 (1/2")	50	455.5	119.8	1	2.0%	2.0%	41	82.0%	84.0%	8	16.0%	100.0%	0
9.5 (3/8")	50	430.5	128.8	5	10.0%	10.0%	38	76.0%	86.0%	7	14.0%	100.0%	0
4.75 (#4)	50	342.5	135.2	13	26.0%	26.0%	33	66.0%	92.0%	4	8.0%	100.0%	0

Sphericity													
Size	Particles in Range	Average	Standard Deviation	Low (≤ 0.3)		(≤ 0.3)	Medium (0.3 - 0.7)		(≤ 0.7)	High (0.7 - 1.0)		(≤ 1.0)	Out of Range #
				#	%	Cum. %	#	%	Cum. %	#	%	Cum. %	
37.5 (1.5")													
25.0 (1.0")	49	0.68	0.08	0	0.0%	0.0%	30	61.2%	61.2%	19	38.8%	100.0%	1
19.0 (3/4")	49	0.62	0.09	0	0.0%	0.0%	39	79.6%	79.6%	10	20.4%	100.0%	1
12.5 (1/2")	49	0.62	0.09	0	0.0%	0.0%	37	75.5%	75.5%	12	24.5%	100.0%	1
9.5 (3/8")	50	0.61	0.10	0	0.0%	0.0%	37	74.0%	74.0%	13	26.0%	100.0%	0
4.75 (#4)	50	0.67	0.12	0	0.0%	0.0%	28	56.0%	56.0%	22	44.0%	100.0%	0

Flat and Elongated Distribution												
Size	Particles in Range	L/S ≥ 1:1		L/S > 2:1		L/S > 3:1		L/S > 4:1		L/S > 5:1		Out of Range #
		#	%	#	%	#	%	#	%	#	%	
37.5 (1.5")												
25.0 (1.0")	49	49	100.0%	33	67.3%	9	18.4%	1	2.0%	0	0.0%	1
19.0 (3/4")	49	49	100.0%	42	85.7%	20	40.8%	5	10.2%	1	2.0%	1
12.5 (1/2")	49	49	100.0%	43	87.8%	21	42.9%	6	12.2%	1	2.0%	1
9.5 (3/8")	50	50	100.0%	39	78.0%	25	50.0%	7	14.0%	1	2.0%	0
4.75 (#4)	50	50	100.0%	29	58.0%	12	24.0%	6	12.0%	3	6.0%	0

Flat or Elongated Distribution												
Size	Particles in Range	F or E ≥ 1:1		F or E >2:1		F or E >3:1		F or E >4:1		F or E >5:1		Out of Range #
		#	%	#	%	#	%	#	%	#	%	
37.5 (1.5")												
25.0 (1.0")	49	49	100.0%	12	24.5%	2	4.1%	0	0.0%	0	0.0%	1
19.0 (3/4")	49	49	100.0%	23	46.9%	4	8.2%	0	0.0%	0	0.0%	1
12.5 (1/2")	49	49	100.0%	23	46.9%	4	8.2%	0	0.0%	0	0.0%	1
9.5 (3/8")	50	50	100.0%	24	48.0%	2	4.0%	0	0.0%	0	0.0%	0
4.75 (#4)	50	50	100.0%	15	30.0%	5	10.0%	2	4.0%	2	4.0%	0