

patersongroup consulting engineers				SIEVE ANALYSIS ASTM C136	
CLIENT:	Greely Sand & Gravel	DESCRIPTION:	Sand	FILE NO:	PM0754
CONTRACT NO.:	-	SPECIFICATION:	Mantle Sand (Eljen)	LAB NO:	20431
PROJECT:	Laboratory Testing	INTENDED USE:	-	DATE RECEIVED:	23-Sep-20
		PIT OR QUARRY:	Pit	DATE TESTED:	26-Sep-20
DATE SAMPLED:	23-Sep-20	SOURCE LOCATION:	Spratt	DATE REPORTED:	1-Oct-20
SAMPLED BY:	Client	SAMPLE LOCATION:	Stockpile	TESTED BY:	R.C/D.G/D.B

Silt and Clay	Sand			Gravel		Cobble
	Fine	Medium	Coarse	Fine	Coarse	

Identification	Soil Classification				MC(%)	LL	PL	PI	Cc	Cu
									0.66	5.5
	D100	D60	D30	D10	Gravel (%)	Sand (%)	Silt (%)	Clay (%)		
	9.5	1.15	0.4	0.21	0.8	98.4		0.8		

Comments: The sample is representative of a Poorly graded fine sand with trace fines and gravel (SP) with an Estimated T Time = 6 to 8 min/cm. The percolation rate provided above is based on the gradation of the test sample submitted, and as such, is approximate only. The values chosen for design should take into account the expected density in the field. This material meets the grading requirements of Eljen Specified GFS Sand.

REVIEWED BY:	Curtis Beadov	Joe Fosyth, P. Eng.
	<i>Curtis Beadov</i>	<i>Joe Fosyth</i>

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WEIGHT BEFORE WASH	293.1
WEIGHT AFTER WASH	291.5

SIEVE SIZE (mm)	WEIGHT RETAINED	PERCENT RETAINED	PERCENT PASSING	LOWER SPEC	UPPER SPEC
150					
106					
75					
63					
53					
37.5					
26.5					
19					
16					
13.2					
9.5	0.0	0.0	100.0	100.0	100.0
6.7	0.9	0.3	99.7		
4.75	2.2	0.8	99.2	95.0	100.0
2.36	53.1	18.1	81.9	80.0	100.0
1.18	96.0	32.8	67.2	50.0	85.0
0.6	161.7	55.2	44.8	25.0	60.0
0.3	246.7	84.2	15.8	5.0	30.0
0.15	285.1	97.3	2.7	0.0	10.0
0.075	290.8	99.2	0.8	0.0	5.0
PAN	291.2				

SIEVE CHECK FINE	0.10	0.3% max.	REFERENCE MATERIAL
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OTHER TESTS		RESULT	LAB NO.	RESULT
ASTM D698	CORRECTED DRY DENSITY kg/m3	1835		
ASTM D698	CORRECTED MOISTURE CONTENT	12.6%		

REVIEWED BY:	Curtis Beadow	Joe Forsyth, P. Eng.
		