

patersongroup consulting engineers					SIEVE ANALYSIS ASTM C136	
CLIENT:	Greely Sand & Gravel	DESCRIPTION:	Sand	FILE NO:	PM0754	
CONTRACT NO.:	-	SPECIFICATION:	Mantle Sand (Eljen)	LAB NO:	11914	
PROJECT:	Laboratory Testing	INTENDED USE:	-	DATE RECEIVED:	18-Sep-19	
		PIT OR QUARRY:	Pit	DATE TESTED:	19-Sep-19	
DATE SAMPLED:	18-Sep-19	SOURCE LOCATION:	Spratt Rd.	DATE REPORTED:	20-Sep-19	
SAMPLED BY:	Client	SAMPLE LOCATION:	Stockpile	TESTED BY:	OM	

Silt and Clay		Sand			Gravel		Cobble
		Fine	Medium	Coarse	Fine	Coarse	

Identification	Soil Classification					MC(%)	LL	PL	PI	Cc	Cu
										0.88	3.9
	D100	D60	D30	D10	Gravel (%)	Sand (%)		Silt (%)		Clay (%)	
	6.8	0.78	0.37	0.2	2.7	95.4		1.9			

Comments:

The sample is representative of a Poorly graded fine to coarse 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 is acceptable for placement as Eljen Specified GFS Sand.

REVIEWED BY:	Curtis Beadow 	Joe Forsyth, P. Eng.
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WEIGHT BEFORE WASH						372.8	
WEIGHT AFTER WASH						367.0	
SIEVE SIZE (mm)	WEIGHT RETAINED	PERCENT RETAINED	PERCENT PASSING	LOWER SPEC	UPPER SPEC	3	
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	1.1	0.3	99.7				
4.75	10.1	2.7	97.3	95.0	100.0		
2.36	47.5	12.7	87.3	80.0	100.0		
1.18	103.8	27.8	72.2	50.0	85.0		
0.6	180.0	48.3	51.7	25.0	60.0		
0.3	289.5	77.7	22.3	5.0	30.0		
0.15	353.4	94.8	5.2	0.0	10.0		
0.075	365.6	98.1	1.9	0.0	5.0		
PAN	366.7						
SIEVE CHECK FINE		0.08	0.3% max.			REFERENCE MATERIAL	
OTHER TESTS					RESULT	LAB NO.	RESULT
REVIEWED BY:	Curtis Beadow			Joe Forsyth, P. Eng.			
							