

System Sand Evaluation Tool (version 3.2)

Note: Enter required information in the green cells

Data

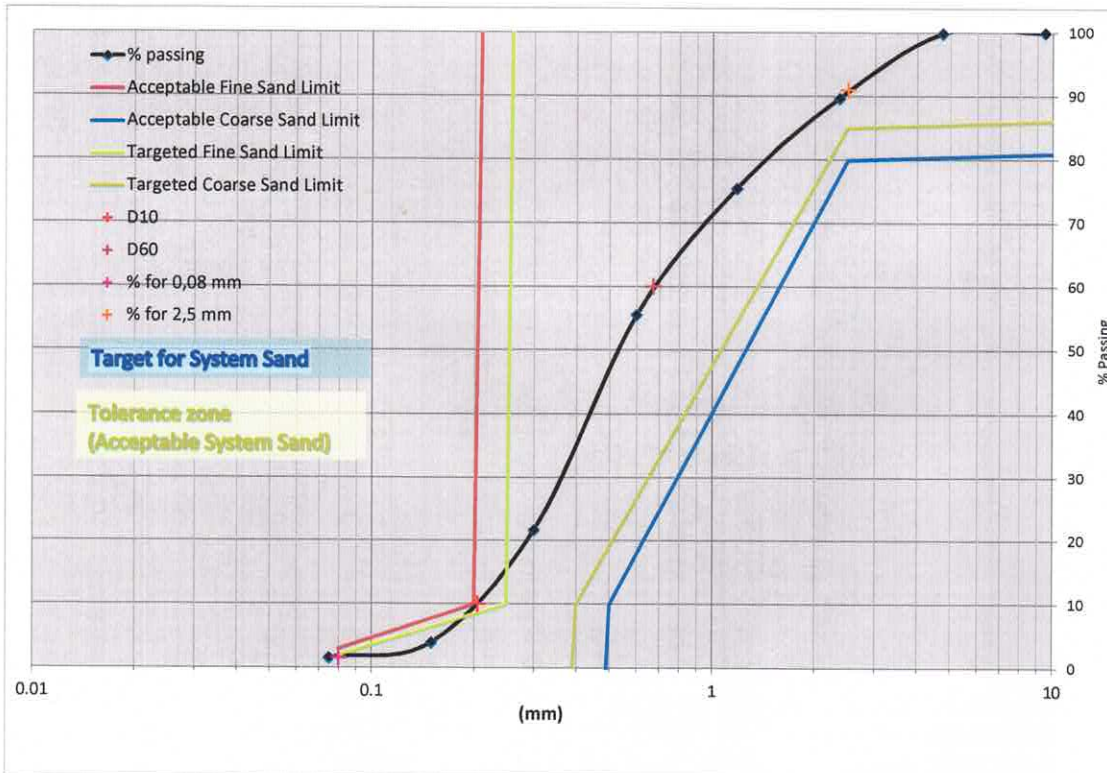
Company	Greely Sand & Gravel
Lab	Paterson Group
Sample taken by	Greely Sand & Gravel
Date of sampling	31-Aug-22
Sampled from	Eljen/Enviro-Septic sand (Mantle)

Sieve size (mm)	% passing
0.075	1.6
0.15	4
0.3	21.7
0.6	55.5
1.18	75.5
2.36	89.7
4.75	99.9
9.5	100

Evaluation Date:	2023-02-17
------------------	------------

System Sand Validation	Result	Units	Criteria	Validation
Enter D10 as shown on the graph:	0.205	mm	$0,20 \leq D10 \leq 0,5$	OK
Enter D60 as shown on the graph:	0.67	mm		
Cu (Coefficient of uniformity):	3.27		$\leq 4,5$	OK
Estimate Fine particles (< 0,08 mm):	1.6	%	$\leq 3\%$	OK
Estimate % for particles of 2,5 mm:	91			
% particles > 2,5 mm:	9.00	%	$\leq 20\%$	OK

OK



CLIENT: Greely Sand & Gravel	DESCRIPTION: Sand	FILE NO.: PM0754
CONTRACT NO.: -	SPECIFICATION: Mantle Sand (Eljen)	LAB NO.: 37274
PROJECT: Laboratory Testing	INTENDED USE: Eljen	DATE REC'D: 24-Aug-22
	PIT OR QUARRY: Pit	DATE TESTED: 25-Aug-22
DATE SAMPLED: -	SOURCE LOCATION: Spratt	DATE REP'D: 31-Aug-22
SAMPLED BY: Client	SAMPLE LOCATION: Stockpile	TESTED BY: C.P/A.L



WEIGHT BEFORE WASH 478.4

WEIGHT AFTER WASH 472.0

SIEVE SIZE (mm)	WEIGHT RETAINED	PERCENT RETAINED	PERCENT PASSING	LOWER SPEC	UPPER SPEC	REMARK
150						
106						
75						
63						
53						
37.5						
26.5						
19						
16						
13.2						
9.5				100.0	100.0	
6.7	0.0	0.0	100.0			
4.75	0.5	0.1	99.9	95.0	100.0	
2.36	49.3	10.3	89.7	80.0	100.0	
1.18	117.3	24.5	75.5	50.0	85.0	
0.6	212.8	44.5	55.5	25.0	60.0	
0.3	374.7	78.3	21.7	5.0	30.0	
0.15	459.2	96.0	4.0	0.0	10.0	
0.075	470.7	98.4	1.6	0.0	5.0	
PAN	471.6					

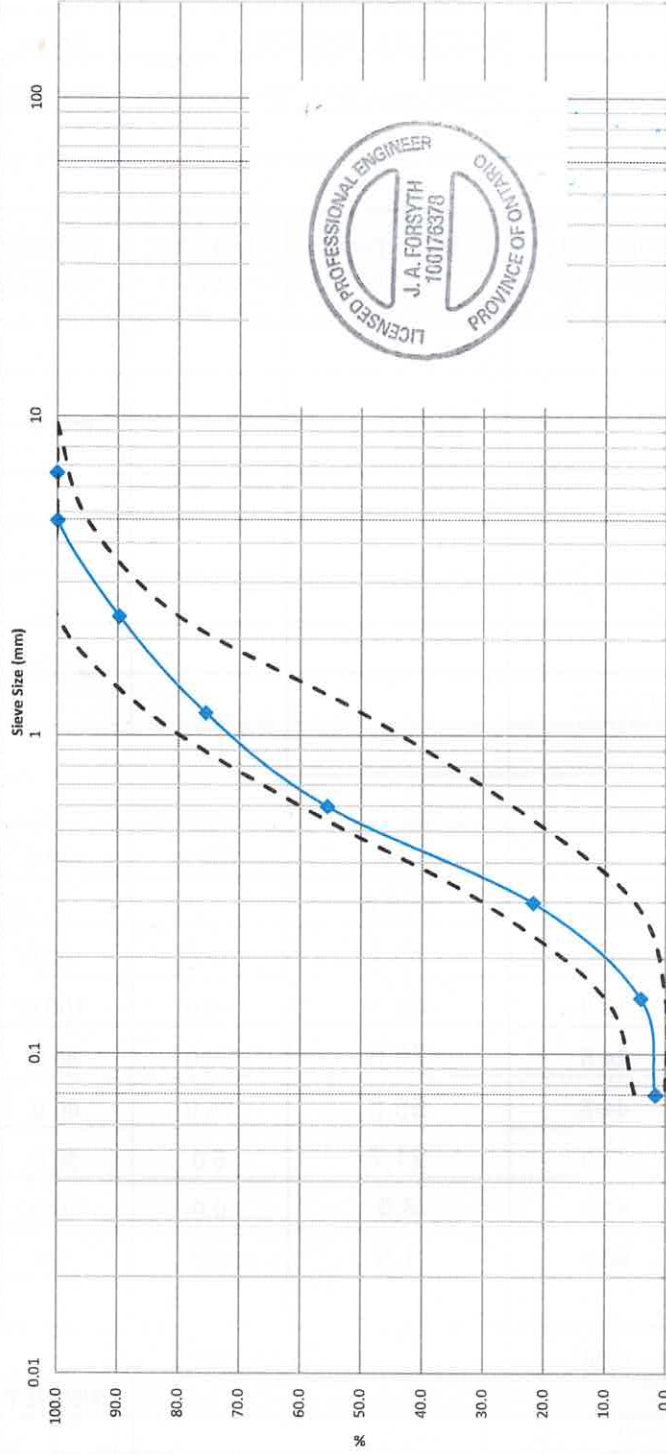
SIEVE CHECK FINE 0.08 0.3% max. **REFERENCE MATERIAL**

OTHER TESTS	RESULT	LAB NO.	RESULT

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

SIEVE ANALYSIS
ASTM C136

CLIENT:	Greely Sand & Gravel	DESCRIPTION:	Sand	FILE NO:	PM0754
CONTRACT NO.:	-	SPECIFICATION:	Mantle Sand (Eljen)	LAB NO:	37274
PROJECT:	Laboratory Testing	INTENDED USE:	Eljen	DATE RECEIVED:	24-Aug-22
DATE SAMPLED:	-	PIT OR QUARRY:	Pit	DATE TESTED:	25-Aug-22
SAMPLED BY:	Client	SOURCE LOCATION:	Spratt	DATE REPORTED:	31-Aug-22
		SAMPLE LOCATION:	Stockpile	TESTED BY:	C.P/A.L



Silt and Clay		Sand		Gravel		Cobble	
		Fine	Medium	Coarse		Coarse	
		Soil Classification		MC(%)	PI	Cc	Cu
D100	6.7	D30	0.37	D10	0.21	D60	0.88
		D75	0.25	Gravel (%)	0.1	Sand (%)	98.3
				LL		LL	
				PL		PL	
				Silt (%)		Clay (%)	
				1.6		0.96	
							3.2

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 Beadon Joe Fosyth, P. Eng.