SUPPLEMENTAL DATA

Revised Soil Classification System for Coarse-Fine Mixtures

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Revised Soil Classification System RSCS

1. Grain Size Fractions

Input: Gravel fraction F_G

Input: Sand fraction F_S

Gravel [%]	Sand [%]	Fines [%]
3	76	21

Plot the point that corresponds to the soil under consideration

2. Gravel and sand: maximum and minimum void ratios

Input: Roundness R and uniformity C_u for <u>gavel</u>

Input: Roundness R and uniformity C_u for <u>sand</u>

Gravel		Sand	
R	C_u	R	C_u
0.3	2	0.3	2

e_G^{max}	e_G^{min}	e_S^{max}	e_S^{min}
0.81	0.45	0.81	0.45

3. Fines: Estimated reference void ratios

Input: Liquid limit of fines (passing sieve #200)

Fines			
LL [%]	e_F^{LL}	e_F^{10kPa}	e_F^{1MPa}
63	1.67	1.67	0.90

Fig. S1. Needed input values—Gravel fraction F_G and sand fraction F_S. Roundness R and coefficient of uniformity C_u for both gavel and sand, and liquid limit of fines passing sieve No. 200.
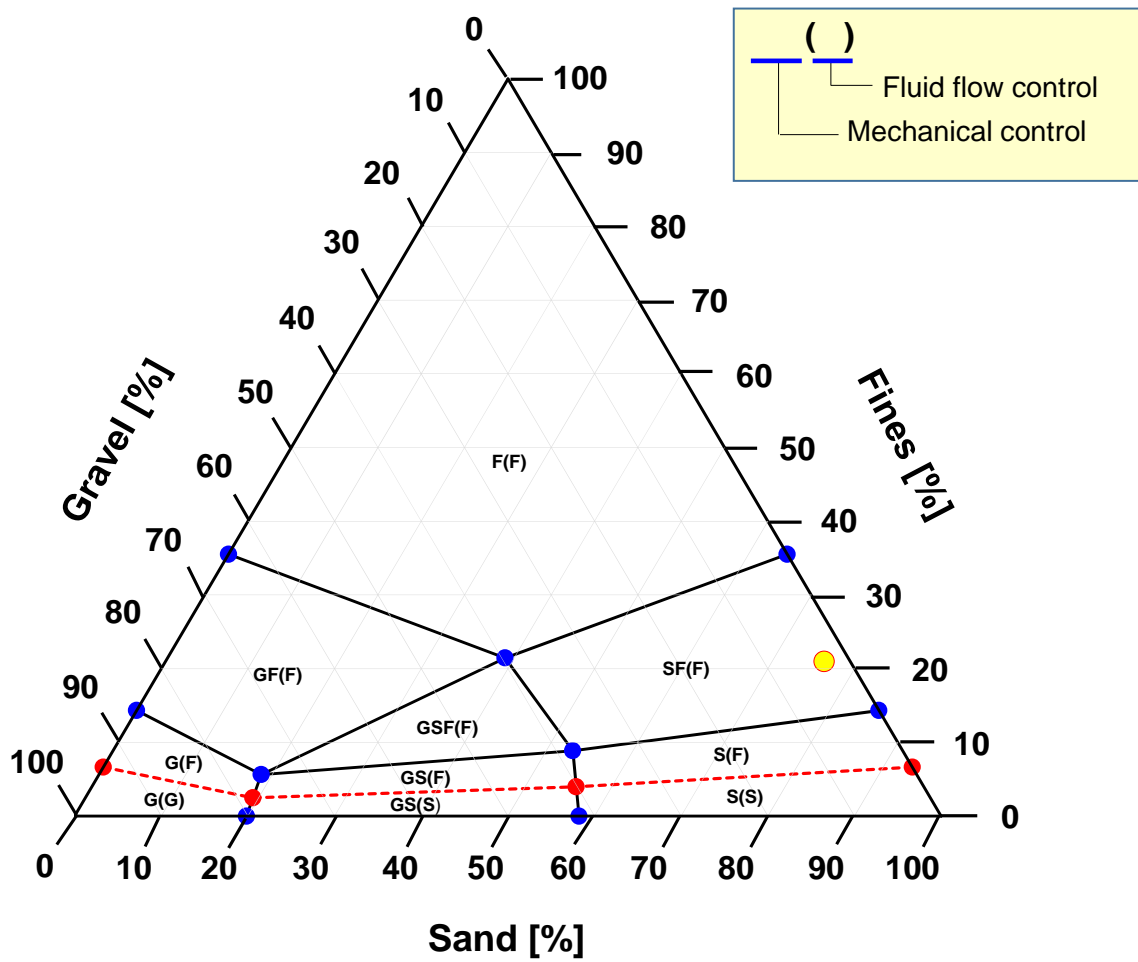
Fig. S2. Triangular textural chart—Soil classification boundaries.