



Unit; location (m) ¹	Matrix texture ²	% matrix/ gravel ³	Clasts						Consistence⁵			
			% 0.2–1cm/ 1–3cm/ >3cm	Largest/ avg size (cm)	Clast or matrix support	Sorting	Bedding	Color⁴ dry (moist)	Dry	Wet	Lower bound ⁶	Soil developm
1; 23.9, 11.0	silty loam	60/40	30/35/30	15/3	clast	moderate	massive; slope-parallel clasts	10YR5/4 (10YR4/3)	sh	ss/ps	a-c/s-w	modern A hori 10 cm depth); 25 cm)
2; 18.8, 12.4	loam	40/60	20/20/60	60/5-15	clast and matrix	poor	massive; crude cobble stratification	10YR5/4 (10YR4/4)	sh	ns- ss/ps	g/s	weak A horizo
3; 18.7, 12.1	sandy loam	40/60	25/25/50	35/5-8	clast	poor	massive; slope-parallel clasts	7.5YR6/6 (7.5YR5/6)	SO	ns/po	c/s	stripped Bw h
2-3; 24.7, 10.1	sandy loam	40/60	30/30/40	20/4-8	clast	poor	massive	7.5YR6/6 (7.5YR5/6)	SO	ns/po	c/s	weak A horizo
4a-1; 30.8, 8.2	sandy loam	30/70	25/25/50	30/4-10	clast	poor	massive	10YR6/4 (10YR5/4)	SO	ss/ps	a/s	A horizon nea end of trench
4b-1; 29.0, 8.5	fine to coarse sand	20/80	30/30/40	8/2-4	clast	moderate- well	well stratified; weak cross bedding	10YR8/4 (10YR6/6)	SO	ns/po	a/s	none
4a-2; 21.6, 10.5	sandy loam	30/70	35/35/30	30/4	clast	moderate	weakly stratified	10YR7/4 (10YR6/4)	SO	ns/ss	c/s	weak A horizo
4b-2; 21.7, 10.0	sandy loam	30/70	40/30/30	13/1-2	clast	moderate	massive	10YR7/4 (10YR6/6)	SO	ns/ss	c/s	none
4c; 21.9, 9.5	sandy loam	20/80	40/30/30	25/2-4	clast	poor	massive	10YR7/4 (10YR6/6)	SO	ns/po	c/s	none
4d; 17.3, 11.7	sandy loam	30/70	40/40/20	60/2-4	clast	mod.	massive	10YR7/4 (10YR6/6)	SO	ns/po	ne	none

⁶ Lower boundary. Distinctness: a – abrupt (1mm-2.5 cm), c – clear (2.5-6 cm), g – gradual (6-12.5 cm), i - tectonic (faulted). Topography: s – smooth, w – wavy, i – irregular. ne, base of unit not exposed. ⁷ Description of soil development

Although this product represents the work of professional scientists, the Utah Department of Natural Resources, Utah Geological Survey, makes no warranty, expressed or implied, regarding its suitability for a particular use. The Utah Department of Natural Resources, Utah Geological Survey, shall not be liable under any circumstances for any direct, indirect, special, incidental, or consequential damages with respect to claims by users of this product.

STRATIGRAPHIC AND STRUCTURAL RELATIONS AT THE KOTTER CANYON TRENCH SITE, BRIGHAM CITY SEGMENT, WASATCH FAULT ZONE

by

Christopher B. DuRoss, Stephen F. Personius, Anthony J. Crone, Greg N. McDonald, and Richard W. Briggs 2012