



Stream Condition – Site: S11

Map Grid Location: F8 Site visit date/ team): 8/31/15 / JZ Drainage Area (Sq. Mi.): 6.70
Stream name & Location: Reasonover Creek below Lake Julia
Streambed Substrate: bedrock Length (ft): +/- 630 Bankfull Width (ft): +/- 50

Stream Condition and Function: Score from 0 to 4 indicating natural stream integrity and health (circle contributing factors): *0 = very poor; 1 = poor; 2 = fair; 3 = good; 4 = excellent*

1. Site and Watershed Conditions	1
<input type="checkbox"/> stormwater input	<input checked="" type="checkbox"/> sediment input
<input checked="" type="checkbox"/> trampled banks	<input checked="" type="checkbox"/> equine/dog impacts
<input type="checkbox"/> trail crossing	<input checked="" type="checkbox"/> trail in buffer
<input checked="" type="checkbox"/> bridge/culvert/armoring	<input type="checkbox"/> utilities
2. Channel Morphology and Condition	1
<input checked="" type="checkbox"/> overwide	<input type="checkbox"/> incised
<input type="checkbox"/> straightened	<input checked="" type="checkbox"/> eroding banks
<input type="checkbox"/> head-cutting	<input checked="" type="checkbox"/> lack of bedform diversity
<input type="checkbox"/> high bed scour	<input type="checkbox"/> excessive sediment deposition
3. Floodplain Morphology	2
<input type="checkbox"/> incised channel	<input checked="" type="checkbox"/> entrenched channel
<input type="checkbox"/> floodplain fill/ levees	<input type="checkbox"/> irregular/ obstructed floodplain
4. Vegetation	1
<input type="checkbox"/> narrow buffer width	<input type="checkbox"/> invasive plants (banks/floodplain)
<input checked="" type="checkbox"/> poor overstory/tree cover	<input checked="" type="checkbox"/> bare areas/mineral soil (banks/floodplain)
5. Habitat	0
<input checked="" type="checkbox"/> lack of woody debris	<input checked="" type="checkbox"/> poor water quality (turbid, algae, temperature)
<input checked="" type="checkbox"/> lack of diverse bedform/ flow	<input checked="" type="checkbox"/> lack of fine roots, leaf packs, coarse substrate

Score (of 20) and Rating(Poor 0-7; Fair 8-12; Good 13-17; Excellent 18-20) **5**

Potential Solutions	
<input type="checkbox"/> relocate/close trail	<input type="checkbox"/> trail crossing improvement
<input checked="" type="checkbox"/> vegetation planting	<input checked="" type="checkbox"/> mechanical grading
<input checked="" type="checkbox"/> in-stream structures	<input type="checkbox"/> watershed improvements
<input type="checkbox"/> preservation/ exclusion	<input type="checkbox"/> culvert rehabilitation/ replacement
<input type="checkbox"/> maintenance	<input type="checkbox"/> signs

Comments
Stream over widened on bedrock with steep, unvegetated banks. Restoration challenging due to bedrock bed and lack of soil. Consider retrofit to Lake Julia outlet to lower water temperature.

