

### III. ASSESSMENT RESULTS

A summary of the assessed streams is presented in Table 1, sorted in order of priority for implementation of restoration efforts (High, Moderate, Low). Priorities represent best judgment based on observed conditions and the potential for improvement from restoration efforts. Commonly observed problems in the stream assessments included: trail within riparian buffer, lack of appropriate riparian vegetation, and sediment input to the stream (often from adjacent trail and/or eroding streambanks).

Table 1. Stream Assessment Summary (see Appendix E for detail about individual sites)

Site ID	Site Name	Score; Rating	Primary Concerns/Deficiencies	Major Elements of Potential Project	Priority
S02	Little River above Bridal Veil Falls	11 Fair	-sediment input -eroding streambanks -in-stream habitat	-improve/move trail -revegetation -human exclusion/signs	High
S15	Shoal Creek	7 Poor	-eroding streambanks/bed -riparian vegetation -floodplain access	-improve/move trail -revegetation -in-stream structures	High
S17	Little River at Hooker Falls Road	12 Fair	-sediment input -eroding streambanks -riparian vegetation	-improve/move trail -revegetation -human exclusion/signs	High
S05	Stream along Conservation Road	12 Fair	-clogged culvert/backwater -riparian vegetation	-culvert improvement -maintenance -revegetation	Moderate
S06	Tributary to Reasonover Creek	12 Fair	-eroding streambanks -floodplain access -in-stream habitat	-improve/move trail -revegetation -in-stream structures	Moderate
S07	Briery Fork Creek at Briery Fork Trail	10 Fair	-sediment input -eroding streambanks -riparian vegetation	-improve/move trail -revegetation -in-stream structures	Moderate
S09	Grassy Creek along Sandy Trail	11 Fair	-sediment input -eroding streambanks -riparian vegetation	-improve/move trail -revegetation -in-stream structures	Moderate
S11	Reasonover Creek below Lake Julia	5 Poor	-overwide channel -in-stream habitat -riparian vegetation	-revegetation -streambank grading -in-stream structures	Moderate
S12	Little River between High and Triple Falls	12 Fair	-sediment input -riparian vegetation -in-stream habitat	-improve/move trail -revegetation -maintenance	Moderate
S13	Little River upstream of Staton Road	11 Fair	-eroding streambanks -riparian vegetation	-improve/move trail -revegetation -human exclusion/signs	Moderate
S14	Stream along Rifle Trail	8 Fair	-sediment input -floodplain access -in-stream habitat	-improve/move trail -revegetation	Moderate

S01	Stream along Corn Mill Shoals Trail	14 Good	-sediment input -floodplain access -riparian vegetation	-improve/move trail -revegetation	Low
S03	Stream along Corn Mill Shoals Trail	14 Good	-sediment input	-improve/move trail -revegetation	Low
S04	Stream along Barn Trail	14 Good	-sediment input	-improve/move trail -revegetation	Low
S08	Tributary to Briery Fork Creek	16 Good	-sediment input	-improve/move trail -revegetation	Low
S10	Grassy Creek along Sandy Trail	13 Good	-floodplain access -riparian vegetation	-improve/move trail -revegetation -in-stream structures	Low
S16	Reasonover Creek along Reasonover Creek Trail	15 Good	-riparian vegetation	-improve/move trail -revegetation	Low

Tables 2, 3, and 4 contains a summary of the 51 areas of concern for High, Moderate, and Low priority sites, respectively. Seven sites are categorized as High priority, 15 as Moderate, and 29 as Low. Many of the areas of concern, especially the ones categorized as Low priority, are locations where a trail or road crosses a stream, resulting in sediment and stormwater input to the stream. These types of areas could be improved by relocating/closing the trail or improving the trail in the vicinity of the crossing to reduce sedimentation. Such sites should be considered as a part of future master planning for trails within DuPont SRF.

Table 2. Area of Concern Summary – High Priority Sites (see Appendix F for detail about individual sites)

Site ID	Site Name	Primary Concerns/Deficiencies	Potential Solutions	Priority
P06	Bridge/crossing near Little River	-bridge, trail/road crossing -sediment input	-crossing improvement -relocate/close trail -bridge replacement	High
P17	Airstrip Trail below Airstrip	-stormwater input -erosion -unvegetated area	-trail improvement -stormwater treatment	High
P34	Triple Falls Trail along Little River	-trail erosion -human/animal impact	-relocate/close trail -stormwater treatment -mechanical grading	High
P42	Stone Mountain Trail	-trail erosion	- revegetation -relocate/close trail -maintenance	High
P44	Stream at Switchback Trail	-erosion -unstable trail crossing	-crossing improvement -relocate/close trail -mechanical grading	High
P48	Fawn Lake	-missing vegetation -erosion -human/animal impact	- revegetation -human/animal exclusion -signs	High
P49	Power lines at Fawn Lake Road	-erosion -unvegetated area	- revegetation -mechanical grading	High

Table 3. Area of Concern Summary –Moderate Priority Sites (see Appendix F for detail about individual sites)

Site ID	Site Name	Primary Concerns/Deficiencies	Potential Solutions	Priority
P08	Drainage across Burnt Mountain Trail	-culvert, clogged and piping -streambank erosion	-crossing improvement -culvert repair	Moderate
P09	Drainage across Burnt Mountain Trail	-culvert, impaired -streambank erosion	-crossing improvement -culvert repair	Moderate
P13	Bridal Veil Falls	-erosion -human/animal impact -missing vegetation	-human exclusion - revegetation -signs	Moderate
P23	Stream at Reasonover Creek Trail	-culvert, clogged	-culvert repair -maintenance	Moderate
P29	Stream at Twin Oaks Trail	-trail crossing -sediment input -stormwater input	-crossing improvement -relocate/close trail	Moderate
P30	Briery Fork Creek at Briery Fork Creek Trail	-trail crossing -sediment input -human/animal impact	-crossing improvement -relocate/close trail - revegetation	Moderate

P31	Lake Dense	-human/animal impact -missing vegetation -water temperature	-relocate/close trail - revegetation -human/animal exclusion	Moderate
P32	Oak Tree Trail	-trail erosion	-relocate/close trail - revegetation	Moderate
P33	Grassy Creek Falls	-erosion -human/animal impact -missing vegetation	-human exclusion - revegetation -signs	Moderate
P35	Hooker Falls	-erosion -human/animal impact -missing vegetation	- revegetation -mechanical grading -human/animal exclusion	Moderate
P41	Tributary to Shoal Creek at Farmhouse Trail	-sediment input -stormwater input	-crossing improvement -relocate/close trail -maintenance	Moderate
P43	Stream at Switchback Trail	-culvert, piping -streambank erosion	-crossing improvement -culvert repair	Moderate
P45	Sky Valley Road at Jim Creek	-sediment input -stormwater input -bridge	-crossing improvement -maintenance	Moderate
P50	Stream at Cedar Rock Trail	-unstable trail crossing -sediment input -human/animal impact	-crossing improvement -relocate/close trail	Moderate
P51	Drainage at horse barn	-erosion -unvegetated area	-stormwater treatment -mechanical grading - revegetation	Moderate

Table 4. Area of Concern Summary – Low Priority Sites (see Appendix F for detail about individual sites)

Site ID	Site Name	Primary Concerns/Deficiencies	Potential Solutions	Priority
P01	Stream at Cannon Creek Trail	-trail/road crossing -sediment input	-crossing improvement - revegetation	Low
P02	Stream at Buckhorn Creek Road	-trail/road crossing -sediment input	-crossing improvement - revegetation	Low
P03	Stream at Pine Tree Trail	-trail/road crossing -sediment input -streambank erosion	-crossing improvement - revegetation	Low
P04	Drainage across Little River Trail	-trail/road crossing -sediment input	-crossing improvement	Low
P05	Drainage across Little River Trail	-trail/road crossing -sediment input	-crossing improvement	Low

P07	Culvert under Corn Mill Shoals Road	-sediment input -missing vegetation	-crossing improvement -revegetation	Low
P10	Drainage across Burnt Mountain Trail	-culvert, impaired -streambank erosion	-crossing improvement -culvert repair	Low
P11	Corn Mill Shoals Trail at Little River	-missing vegetation -human/animal impact	-crossing improvement -revegetation	Low
P12	Stream at Corn Mill Shoals Trail	-sediment input -stormwater input	-crossing improvement -maintenance	Low
P14	Stream at Shelter Rock Trail	-stormwater input -missing vegetation -human/animal impact	-human/animal exclusion -revegetation	Low
P15	Stream at Shelter Rock Trail	-stormwater input -missing vegetation -human/animal impact	-human/animal exclusion -revegetation	Low
P16	Horse watering at Barn Trail	-sediment input -missing vegetation -equine impact	-human/animal exclusion -revegetation -relocate/close trail	Low
P18	Fawn Lake outlet at Conservation Road	-culvert, impaired -sediment input	-culvert repair	Low
P19	Reasonover Creek at Reasonover Creek Trail	-erosion -human/animal impact -missing vegetation	-crossing improvement -revegetation	Low
P20	Drainage across Reasonover Creek Trail	-stormwater input -sediment input -erosion	-crossing improvement -revegetation	Low
P21	Reasonover Creek at Reasonover Creek Trail	-trail crossing -sediment input -human and equine impacts	-crossing improvement -revegetation	Low
P22	Stream at Reasonover Creek Trail	-trail crossing -human/animal impact -missing vegetation	-crossing improvement -revegetation	Low
P24	Stream at Turkey Knob Trail	-trail crossing -sediment input -erosion	-crossing improvement -relocate/close trail -revegetation	Low
P25	Tributary to Briery Fork Creek at Joanna Road	-trail crossing -sediment input -stormwater input	-crossing improvement -relocate/close trail	Low
P26	Tributary to Briery Fork Creek at Joanna Road	-trail crossing -sediment input -stormwater input	-crossing improvement -relocate/close trail	Low
P27	Stream at Grassy Meadow Trail	-trail crossing -sediment input -stormwater input	-crossing improvement	Low

P28	Stream at Joanna Road	-trail crossing -sediment input -stormwater input	-crossing improvement -relocate/close trail	Low
P36	Stream at Hickory Mountain Trail	-sediment input -stormwater input -erosion	-crossing improvement	Low
P37	Stream at Sandy Trail	-sediment input -erosion	-crossing improvement -relocate/close trail -revegetation	Low
P38	Stream at Tarkiln Branch Road	-missing vegetation	-revegetation	Low
P39	Horse watering at Tarkiln Branch Road	-sediment input -equine impact -missing vegetation	-relocate/close trail -revegetation -human/animal exclusion	Low
P40	Tributary to Shoal Creek at Shoal Creek Trail	-streambank erosion -missing vegetation	-revegetation	Low
P46	Plantation Trail at Sky Valley Road	-culvert, clogged and crushed	-relocate/close trail -culvert repair	Low
P47	Stream at Plantation Trail	-erosion -missing vegetation	-revegetation	Low