

**Alternative 1**

Under Alternative 1, the project to increase the snowmaking water storage capacity at Lake Solitude by either raising the dam and/or dredging the lake would impact 0.5 acres of wetlands (Table 4-39). These wetlands include willow and sedge-grass dominated communities. Either option would result in the loss of the existing wetlands around the lake, but it is anticipated that once the work is completed and a new water level is established, a wetland community would re-establish around the lake. The fact that the present location of the wetlands around the lake is a relatively recent product of the dam level being lowered some 4 feet in the 1980s for safety reasons would suggest that wetlands would re-establish at the new water level. The extent of the wetlands around the new pond would depend on a number of factors, including the slope of the banks. A shallow, long slope would establish a more extensive community. Because this new community would likely begin to develop within five years, the impacts to the wetland and riparian community would be relatively short-term.

**Table 4-39**  
Comparison of impacts to wetland and riparian areas between the 6 alternatives.  
All impacts are reported in acres.

	Alternative 1	Alternative 2	Alternative 3	Alternative 4	Alternative 5	Alternative 6
Resort Operations Center	0	0.3	0.3	0.3	0.3	0.3
Mountain Roads	0	0.3	0.3	0.3	0.3	0.3
Redman lift	0	1.5	1.5	0	0	0
Snowmaking system	0	0.5	0.5	0	0	0
Lake Solitude	0.5	0.5	0.5	0	0	0.5
Utah Power Utility Line	0	0.2	0.2	0	0	0
<b>Total</b>	<b>0.5</b>	<b>3.3</b>	<b>3.3</b>	<b>0.6</b>	<b>0.6</b>	<b>1.1</b>

**Solitude 4a****Alternatives 2 and 3**

Alternatives 2 and 3 would both impact 3.3 acres of wetland and riparian resources (Table 4-13). The impacts to wetlands at Lake Solitude described under Alternative 1 would also occur under these alternatives. In addition, construction of the Redman lift and trail would result in the largest wetland impact, affecting approximately 1.5 acres of wetlands at the confluence of Mill F Creek and Big Cottonwood Creek. These wetlands are dominated by willows. Construction of the lift and trail would require a combination of clearing and grading, which would eliminate or greatly diminish the functions and values in this portion of the wetland.

Four projects would impact the wetlands and riparian areas along Big Cottonwood Creek, with a similar loss of functions and values. These wetlands are also dominated by willows. The Resort Operations Center would impact approximately 0.3 acres of riparian areas along Big Cottonwood Creek north of the existing maintenance building. The mountain roads project would impact 0.3 acres of riparian area along Big Cottonwood Creek due to the realignment of the access road to