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Introduction

This section summarizes the methods used to develop the final list of natural resource (wetlands, riparian, and floodplain) restoration and/or enhancement sites. The final stage of the watershed characterization analysis combines the ecological benefits of each DAU and the environmental benefits of each natural resource site to develop a list of natural resource sites that will provide the greatest functional “lift” in the subwatershed.

Part I. What are the Landscape Conditions in the Vail Subwatershed?

Current conditions

Current land-use within the Vail sub-watershed was determined by processing Aerial photography and SPOT 10 meter satellite imagery captured in 2009. Approximately three percent of the Vail Subwatershed is covered by the built environment (see Figure 4.0 and 4.1 Classification Percent Totals for the Vail Subwatershed). The upper eastern portion of the Vail subwatershed consists predominantly of long-term commercial forestry. Lower in the subwatershed, agricultural and residential land-uses are common, which is illustrated by the "not properly functioning" DAUs located in the middle of the subwatershed.

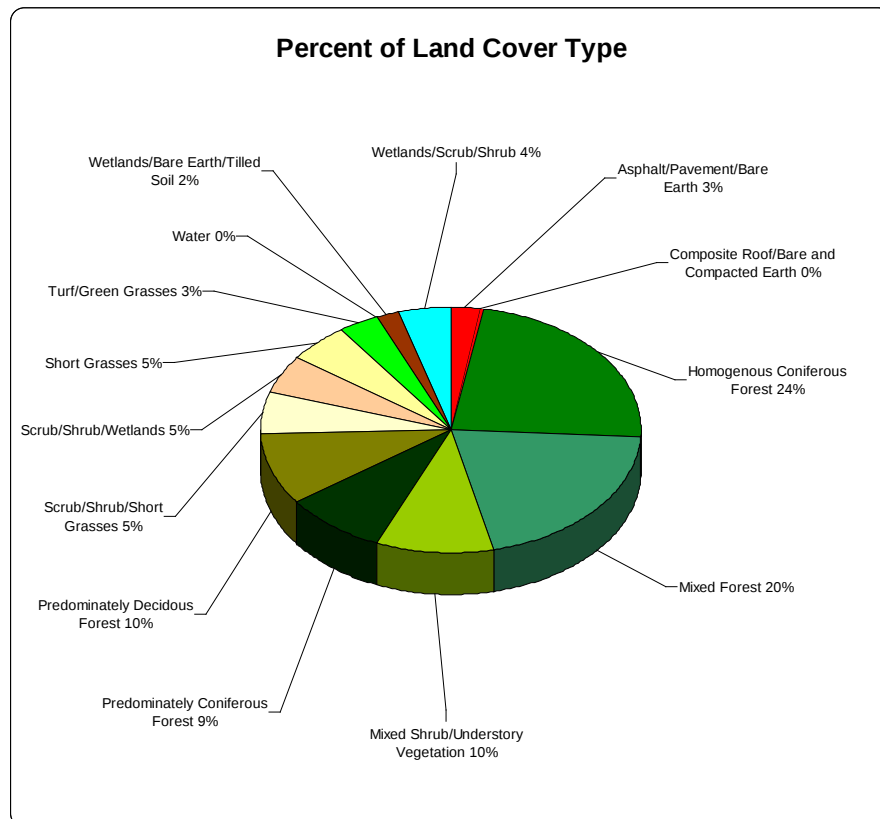
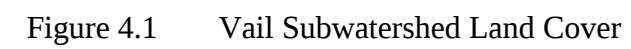


Figure 4.0 Classification Percent Totals for Vail Subwatershed
Land cover data from 2009 SPOT imagery.



Part II. Characterize Condition of Ecological Processes in Study Area

Five ecological processes and two biological elements were assessed: the delivery and movement of water, sediment, wood, pollutants, and heat. The biological elements include aquatic integrity and habitat connectivity. The Matrix of Pathways and Indicators (MPI) was used to determine the function of each ecological process and biological indicator at the DAU scale. Following the assessment of each individual ecological process and biological element, Rules and Assumptions (Tables 8-14 in the Methods document) were used to rank each DAU as Properly Functioning (PF), At Risk (AR), or Not Properly Functioning (NPF). For complete details of the values used in the MPI, please consult Table 7 in the Methods document. For complete details of the Rules and Assumptions, please consult Tables 8 through 14 in the Methods document. Appendix A of this document contains the Methods document.

There are 27 DAUs totaling 11,371 acres (18 sq miles) in the subwatershed.

Determine the Ecological Benefit of the DAU

Following the assessment of each individual ecological process and biological elements using the indicators above and the application of the Rules and Assumptions, the resulting final ranking of each DAU yields a baseline condition of ecological health for each DAU. All DAUs within the study area having ecological processes that are considered "At Risk" under current land use conditions are identified for further consideration. DAUs in the "At Risk" category for multiple key ecological processes are assumed to provide the greatest potential to maximize environmental benefits when natural resource sites are restored.

Table 4.0 includes each ecological process and biological element with the resulting function level. Subsequently, an aggregation of these processes and elements are used to provide an overall function level and ranking of the DAU.

Table 4.0 Vail Ecological Processes and Biological Elements Function

DAU Id	Acres	Sq Mi	Aquatic Integrity	Habitat Connectivity	Water	Sediment	Wood	Pollutants	Heat
173	447	0.70	N/A	AR	AR	PF	AR	N/A	AR
176	329	0.51	N/A	AR	AR	PF	AR	N/A	AR
178	186	0.29	N/A	PF	AR	PF	PF	N/A	PF
179	233	0.36	N/A	AR	PF	PF	AR	N/A	AR
180	219	0.34	N/A	AR	PF	PF	AR	N/A	AR
181	557	0.87	N/A	PF	AR	PF	N/A	N/A	N/A
182	1374	2.15	N/A	PF	PF	PF	PF	N/A	PF
183	579	0.90	N/A	AR	PF	AR	AR	AR	AR
184	192	0.30	N/A	AR	AR	AR	AR	N/A	AR
186	237	0.37	N/A	PF	AR	PF	PF	N/A	PF
187	419	0.65	N/A	AR	AR	AR	AR	N/A	AR
189	417	0.65	N/A	AR	AR	PF	AR	AR	AR
190	474	0.74	N/A	PF	PF	PF	PF	N/A	PF

DAU Id	Acres	Sq Mi	Aquatic Integrity	Habitat Connectivity	Water	Sediment	Wood	Pollutants	Heat
191	629	0.98	N/A	AR	PF	AR	AR	N/A	AR
192	170	0.27	N/A	AR	AR	PF	NPF	N/A	AR
195	327	0.51	N/A	PF	PF	AR	PF	N/A	AR
196	476	0.74	N/A	PF	PF	PF	PF	N/A	PF
199	548	0.86	N/A	AR	AR	AR	AR	N/A	AR
200	488	0.76	N/A	AR	AR	PF	AR	N/A	AR
202	335	0.52	N/A	AR	PF	PF	AR	N/A	AR
205	219	0.34	N/A	PF	PF	PF	PF	N/A	PF
206	768	1.20	N/A	AR	PF	PF	AR	N/A	AR
215	364	0.57	N/A	AR	PF	PF	AR	N/A	AR
216	219	0.34	N/A	AR	AR	PF	AR	N/A	AR
217	492	0.77	N/A	PF	PF	PF	PF	N/A	PF
219	436	0.68	N/A	AR	PF	PF	AR	N/A	AR
221	251	0.39	N/A	PF	PF	PF	PF	N/A	PF

Once the DAU ecological processes and biological function levels are ascertained, the function levels are translated to a ranking scheme. Ecological processes and biological elements which have been identified as "At Risk" are scored higher based upon the potential for enhancement from restored/rehabilitated marginal function levels. The ecological process scores are then ranked according to the weight criteria, and converted to a High, Moderate, or Low process rank.

Table 4.1 details the final ecological benefit rank of each DAU.

Table 4.1 Final DAU Ecological and Biological Benefit Rank

DAU Id	Ecological Processes					Biological Elements			Rank
	Water	Sediment	Wood	Pollutants	Heat	Aquatic Integrity	Habitat	Total Score	
184	3	1	2	0	1	0	1	8	High
187	3	1	2	0	1	0	1	8	High
189	3	0	2	1	1	0	1	8	High
199	3	1	2	0	1	0	1	8	High
173	3	0	2	0	1	0	1	7	High
176	3	0	2	0	1	0	1	7	High
200	3	0	2	0	1	0	1	7	High
216	3	0	2	0	1	0	1	7	High
183	0	1	2	1	1	0	1	6	Moderate
191	0	1	2	0	1	0	1	5	Moderate
192	3	0	0	0	1	0	1	5	Moderate
179	0	0	2	0	1	0	1	4	Moderate
180	0	0	2	0	1	0	1	4	Moderate
202	0	0	2	0	1	0	1	4	Moderate
206	0	0	2	0	1	0	1	4	Moderate
215	0	0	2	0	1	0	1	4	Moderate
219	0	0	2	0	1	0	1	4	Moderate

DAU Id	Ecological Processes					Biological Elements			Rank
	Water	Sediment	Wood	Pollutants	Heat	Aquatic Integrity	Habitat	Total Score	
178	3	0	0	0	0	0	0	3	Moderate
181	3	0	0	0	0	0	0	3	Moderate
186	3	0	0	0	0	0	0	3	Moderate
195	0	1	0	0	1	0	0	2	Low
182	0	0	0	0	0	0	0	0	Low
190	0	0	0	0	0	0	0	0	Low
196	0	0	0	0	0	0	0	0	Low
205	0	0	0	0	0	0	0	0	Low
217	0	0	0	0	0	0	0	0	Low
221	0	0	0	0	0	0	0	0	Low

The final rank is used in the identification of potential restoration and enhancement sites when the DAUs and resource sites are combined to provide a final list of natural resource sites. Vail subwatershed has 27 DAUs that have restoration potential (Figure 4.2 Vail Subwatershed Ecological Function)

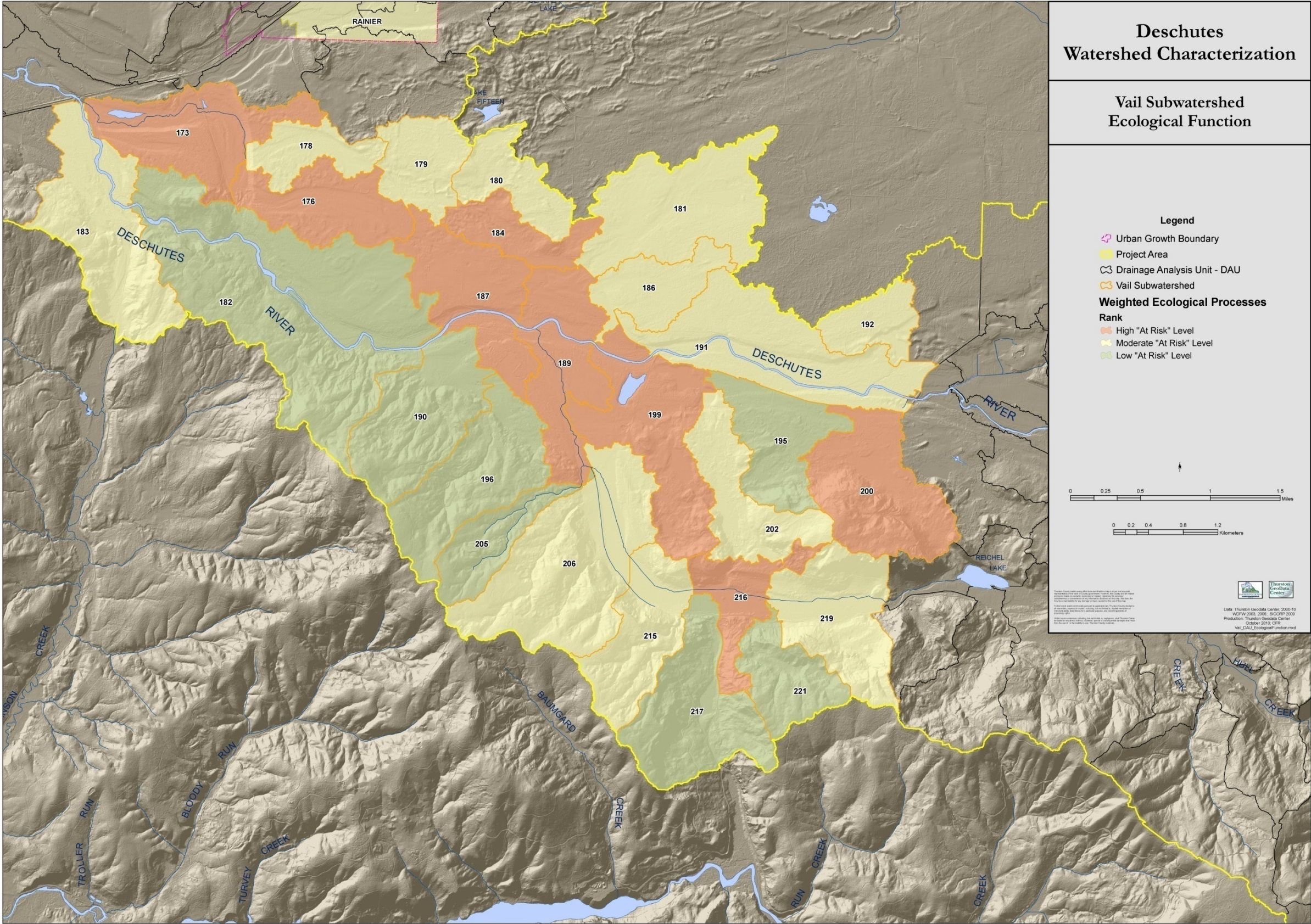


Figure 4.2 Vail Subwatershed Ecological Function

Part III. Characterize Natural Resource Sites in Study Area

This section evaluates natural resource sites within the study area. The purpose is to determine natural resource sites that can be restored or enhanced in the surrounding landscape that will provide the greatest ecological benefit. This analysis is conducted concurrently with the analyses of the ecological processes. Upon completion of the DAU analysis and the natural resource site analysis, the sites identified are ranked in the context of the DAU and subwatershed landscape.

Determine the Environmental Benefit

The natural resource sites are evaluated based on the attributes assigned during site assessment using Tables 22 to 24 in the Methods document to assign an environmental benefit final score. Once all the attributes have been evaluated, the following ranking criteria are used to rank the sites High, Moderate, and Low.

Following the conversion of natural resource sites from a score to Low, Moderate, or High rank, there were a total of 487 potential restoration or enhancement sites. Table 4.2 details the results.

Table 4.1 Vail Environmental Benefit Ranking of Natural Resource Sites

Vail Potential Restoration Sites				
Rank	Wetland	Riparian	Floodplain	Total
High	71	33	2	106
Moderate	159	14	2	173
Low	169	39	0	208

Part IV. Assess Potential Sites within the DAU

This section presents the results of a ranking process for all potential natural resource restoration sites. The ranking of a natural resource restoration site is based on the ranking of each site individually combined with the ranking of the DAU within which the restoration site is located. The result is a final combined score from 0 to 6, with a score of 6 representing those sites with the greatest potential for environmental benefit if restored.

Table 4.2 is used to score the natural resource sites in the context of the DAU. A site with a Low environmental benefit is a preservation site or completely degraded site that would provide a minimal environmental benefit if restored.

Table 4.2 Combined Ranking Score

Ecological Benefit (DAU)	Environmental Benefit (Resource Site)	Total Score
High	High	6
High	Moderate	5
Moderate	High	4

Ecological Benefit (DAU)	Environmental Benefit (Resource Site)	Total Score
Moderate	Moderate	3
Low	High	2
Low	Moderate	1
N/A	Low	0

Thus, the Ecological Benefit (DAU) and the Environmental Benefit (Resource Sites) are ranked to provide a final score from 0 to 6. Following evaluation, a total of 22 sites were ranked within the corresponding DAU.

Results of natural resource restoration site ranking for wetlands, riparian and floodplain (where present) areas are described in the following sections.

The following wetlands, riparian and floodplain sections describe the final combined ecological benefit and environmental benefit ranking of natural resource sites. The following tables include the natural resource environmental score and rank, as well as the combined score when placed in the DAU.

Wetlands sites

Table 4.3 presents the results of wetland restoration site ranking taking into account the combined wetland restoration potential and the DAU ranking. Figure 4.3 shows the location of each wetland restoration site. Wetland sites ranked Low and less than one acre are not included in the table, but are ranked and available in appendix B.

Table 4.3 Wetland Sites

Site ID	Wetlands Rank	Combined DAU Site Score	Acres
Wetland 2815	High	6	4.91
Wetland 2818	High	6	7.48
Wetland 2251	High	6	7.08
Wetland 2817	High	6	5.26
Wetland 2449	High	6	4.57
Wetland 2829	High	6	0.00
Wetland 2450	High	6	53.35
Wetland 2199	High	6	2.15
Wetland 2089	High	6	1.18
Wetland 2127	High	6	1.12
Wetland 2182	High	6	0.95
Wetland 2289	High	6	0.69
Wetland 2172	High	6	0.69
Wetland 2455	High	6	0.22
Wetland 2273	High	6	25.71
Wetland 2145	High	6	23.59
Wetland 1841	High	6	19.67
Wetland 2099	High	6	4.00

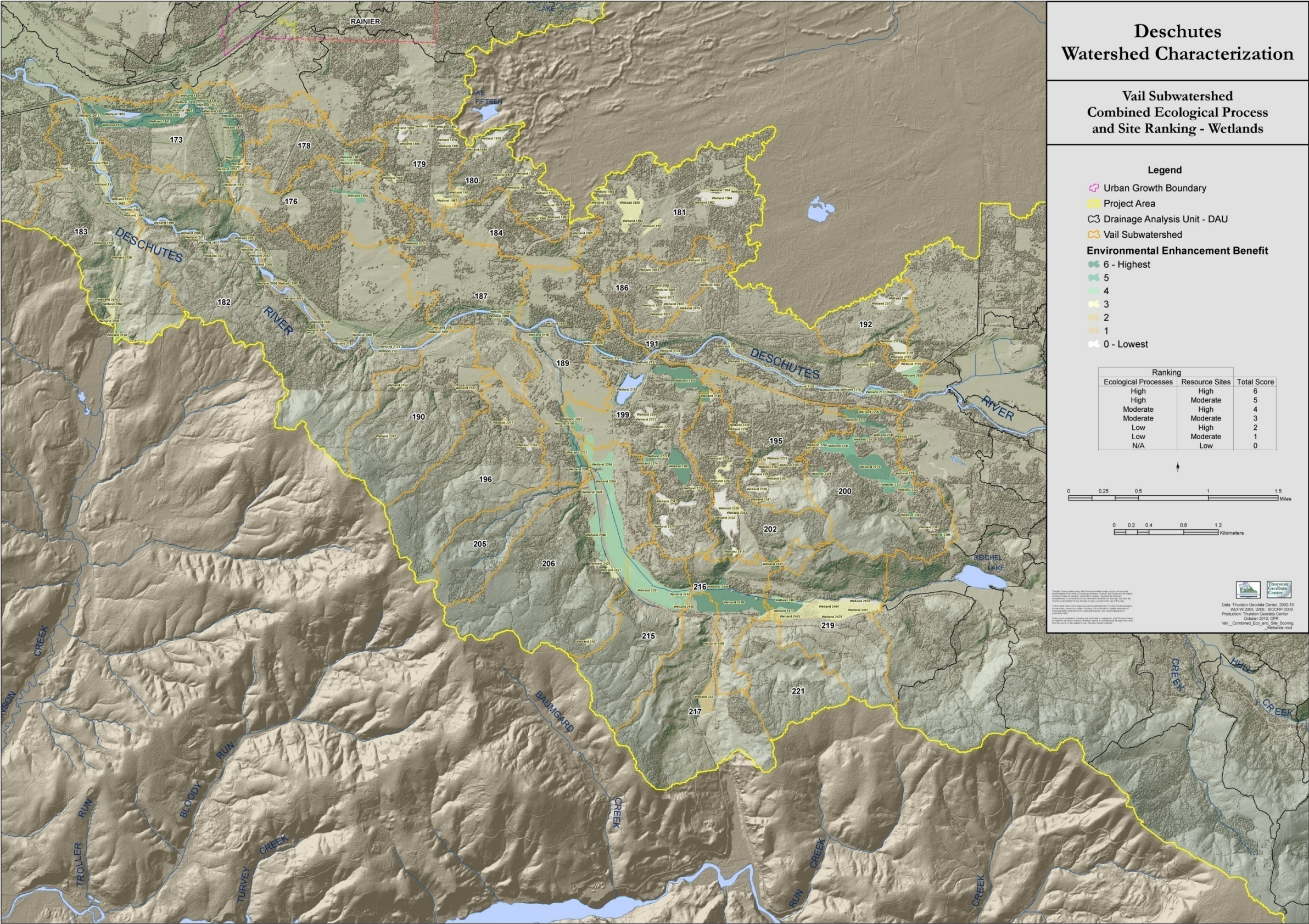
Site ID	Wetlands Rank	Combined DAU Site Score	Acres
Wetland 1839	High	6	1.30
Wetland 2094	High	6	1.25
Wetland 2100	High	6	0.97
Wetland 1850	High	6	0.94
Wetland 1886	High	6	0.85
Wetland 2885	High	6	0.76
Wetland 2128	High	6	0.75
Wetland 2151	High	6	0.67
Wetland 1883	High	6	0.43
Wetland 2139	High	6	0.19
Wetland 2105	High	6	0.18
Wetland 2096	High	6	0.12
Wetland 2261	High	6	16.27
Wetland 2225	High	6	10.38
Wetland 1859	High	6	9.56
Wetland 1852	High	6	8.78
Wetland 2272	High	6	3.38
Wetland 1845	High	6	2.74
Wetland 1837	High	6	1.96
Wetland 2097	High	6	1.54
Wetland 1853	High	6	1.35
Wetland 1855	High	6	1.16
Wetland 2816	High	6	0.94
Wetland 1846	High	6	0.79
Wetland 1907	High	6	0.57
Wetland 2281	High	6	0.53
Wetland 2138	High	6	0.52
Wetland 1894	High	6	0.26
Wetland 2141	High	6	0.21
Wetland 2245	Moderate	5	15.14
Wetland 2152	Moderate	5	12.43
Wetland 2331	Moderate	5	7.72
Wetland 2825	Moderate	5	5.92
Wetland 1824	Moderate	5	2.72
Wetland 2301	Moderate	5	2.08
Wetland 2106	Moderate	5	2.07
Wetland 2421	Moderate	5	1.89
Wetland 2240	Moderate	5	1.85
Wetland 2884	Moderate	5	1.51
Wetland 2280	Moderate	5	1.48
Wetland 2297	Moderate	5	1.42
Wetland 2205	Moderate	5	0.93
Wetland 2133	Moderate	5	0.57
Wetland 2300	Moderate	5	0.54
Wetland 1996	Moderate	5	0.37
Wetland 2302	Moderate	5	0.36
Wetland 1890	Moderate	5	0.16
Wetland 1856	Moderate	5	0.09
Wetland 1958	Moderate	5	5.26

Site ID	Wetlands Rank	Combined DAU Site Score	Acres
Wetland 2243	Moderate	5	2.30
Wetland 2322	Moderate	5	2.18
Wetland 2266	Moderate	5	1.91
Wetland 2249	Moderate	5	0.66
Wetland 1851	Moderate	5	0.57
Wetland 1943	Moderate	5	0.50
Wetland 1847	Moderate	5	0.31
Wetland 2461	Moderate	5	0.25
Wetland 1844	Moderate	5	0.24
Wetland 2356	Moderate	5	0.24
Wetland 2004	Moderate	5	0.22
Wetland 2340	Moderate	5	0.19
Wetland 1931	Moderate	5	0.14
Wetland 1959	Moderate	5	0.13
Wetland 2206	Moderate	5	4.53
Wetland 1916	Moderate	5	2.89
Wetland 2274	Moderate	5	1.62
Wetland 2396	Moderate	5	1.48
Wetland 2363	Moderate	5	1.42
Wetland 1838	Moderate	5	1.32
Wetland 2025	Moderate	5	1.02
Wetland 2241	Moderate	5	1.01
Wetland 2024	Moderate	5	0.97
Wetland 2031	Moderate	5	0.93
Wetland 1836	Moderate	5	0.65
Wetland 2399	Moderate	5	0.53
Wetland 2401	Moderate	5	0.51
Wetland 2360	Moderate	5	0.48
Wetland 1863	Moderate	5	0.41
Wetland 2188	Moderate	5	0.35
Wetland 1834	Moderate	5	0.30
Wetland 2324	Moderate	5	0.25
Wetland 2093	Moderate	5	0.12
Wetland 2408	Moderate	5	0.05
Wetland 2466	High	4	1.61
Wetland 2452	High	4	11.28
Wetland 2305	High	4	4.40
Wetland 2351	High	4	56.98
Wetland 2294	High	4	41.42
Wetland 2386	High	4	12.45
Wetland 2303	High	4	0.57
Wetland 2177	High	4	4.63
Wetland 2462	High	4	3.22
Wetland 2824	High	4	3.12
Wetland 2473	High	4	2.17
Wetland 2184	High	4	1.17
Wetland 2116	High	4	0.32
Wetland 2160	High	4	0.30
Wetland 2828	High	4	7.44

Site ID	Wetlands Rank	Combined DAU Site Score	Acres
Wetland 1902	High	4	3.39
Wetland 2104	High	4	2.57
Wetland 1903	High	4	1.14
Wetland 2416	High	4	0.62
Wetland 1901	High	4	0.24
Wetland 2463	Moderate	3	22.50
Wetland 1605	Moderate	3	22.28
Wetland 2820	Moderate	3	19.99
Wetland 2882	Moderate	3	15.70
Wetland 2479	Moderate	3	2.91
Wetland 1957	Moderate	3	1.56
Wetland 1925	Moderate	3	1.53
Wetland 1993	Moderate	3	1.51
Wetland 1930	Moderate	3	1.26
Wetland 2507	Moderate	3	1.05
Wetland 1974	Moderate	3	0.94
Wetland 1909	Moderate	3	0.57
Wetland 2874	Moderate	3	0.48
Wetland 2200	Moderate	3	0.44
Wetland 2457	Moderate	3	14.84
Wetland 2284	Moderate	3	5.16
Wetland 1954	Moderate	3	3.35
Wetland 2353	Moderate	3	2.77
Wetland 1955	Moderate	3	1.91
Wetland 2098	Moderate	3	1.85
Wetland 1992	Moderate	3	1.82
Wetland 2124	Moderate	3	1.31
Wetland 2140	Moderate	3	1.25
Wetland 2036	Moderate	3	1.07
Wetland 2149	Moderate	3	0.75
Wetland 2001	Moderate	3	0.67
Wetland 1956	Moderate	3	0.60
Wetland 1969	Moderate	3	0.48
Wetland 1910	Moderate	3	0.47
Wetland 2486	Moderate	3	0.27
Wetland 1828	Moderate	3	0.00
Wetland 2464	Moderate	3	11.32
Wetland 1967	Moderate	3	5.47
Wetland 1933	Moderate	3	5.06
Wetland 1904	Moderate	3	4.66
Wetland 2114	Moderate	3	4.59
Wetland 2064	Moderate	3	4.49
Wetland 2427	Moderate	3	3.37
Wetland 1972	Moderate	3	3.24
Wetland 1997	Moderate	3	2.94
Wetland 1952	Moderate	3	2.63
Wetland 2155	Moderate	3	2.38
Wetland 2179	Moderate	3	1.92
Wetland 1970	Moderate	3	1.33

Site ID	Wetlands Rank	Combined DAU Site Score	Acres
Wetland 1888	Moderate	3	1.30
Wetland 1948	Moderate	3	1.28
Wetland 2176	Moderate	3	1.22
Wetland 2047	Moderate	3	1.10
Wetland 1927	Moderate	3	1.09
Wetland 1887	Moderate	3	1.08
Wetland 1914	Moderate	3	0.89
Wetland 1923	Moderate	3	0.85
Wetland 2035	Moderate	3	0.74
Wetland 1976	Moderate	3	0.62
Wetland 2146	Moderate	3	0.61
Wetland 2819	Moderate	3	0.58
Wetland 2343	Moderate	3	0.56
Wetland 1981	Moderate	3	0.56
Wetland 1944	Moderate	3	0.55
Wetland 2173	Moderate	3	0.54
Wetland 2119	Moderate	3	0.47
Wetland 2175	Moderate	3	0.45
Wetland 2075	Moderate	3	0.42
Wetland 2359	Moderate	3	0.42
Wetland 1924	Moderate	3	0.35
Wetland 1934	Moderate	3	0.30
Wetland 1946	Moderate	3	0.21
Wetland 1881	Moderate	3	0.05
Wetland 2017	High	2	1.39
Wetland 2537	High	2	12.28
Wetland 1985	High	2	0.70
Wetland 2605	High	2	0.26
Wetland 2883	Moderate	1	30.76
Wetland 2877	Moderate	1	3.98
Wetland 2498	Moderate	1	3.75
Wetland 2167	Moderate	1	3.30
Wetland 2012	Moderate	1	3.09
Wetland 2095	Moderate	1	2.03
Wetland 2130	Moderate	1	0.61
Wetland 2194	Moderate	1	0.16
Wetland 2287	Moderate	1	4.41
Wetland 2085	Moderate	1	4.14
Wetland 2058	Moderate	1	3.49
Wetland 2063	Moderate	1	2.84
Wetland 2042	Moderate	1	2.81
Wetland 2032	Moderate	1	1.66
Wetland 2217	Moderate	1	1.53
Wetland 2050	Moderate	1	1.31
Wetland 2122	Moderate	1	1.13
Wetland 2061	Moderate	1	0.72
Wetland 2880	Moderate	1	0.66
Wetland 2879	Moderate	1	0.57
Wetland 2107	Moderate	1	0.42

Site ID	Wetlands Rank	Combined DAU Site Score	Acres
Wetland 2040	Moderate	1	0.36
Wetland 2500	Moderate	1	0.11
Wetland 1899	Moderate	1	0.06
Wetland 2081	Moderate	1	5.25
Wetland 2074	Moderate	1	4.39
Wetland 2123	Moderate	1	3.12
Wetland 2115	Moderate	1	2.25
Wetland 1999	Moderate	1	1.66
Wetland 2008	Moderate	1	1.34
Wetland 2347	Moderate	1	1.04
Wetland 2110	Moderate	1	0.97
Wetland 2006	Moderate	1	0.40
Wetland 2112	Moderate	1	0.39
Wetland 1987	Moderate	1	0.32
Wetland 2021	Moderate	1	0.27
Wetland 2018	Moderate	1	0.13



Riparian condition

The resulting combined score of the natural resource site within the context of the DAU were scored and displayed on Figure 4.4 Vail Subwatershed Ecological Processes and Site Ranking – Riparian. Riparian sites ranked Low are not included in the following table, but can be found in appendix B.

Table 4.4 Riparian Sites

Site ID	Riparian Rank	Combined DAU and Site Score	Acres
Riparian 3318	High	6	17.53
Riparian 413	High	6	28.40
Riparian 502	High	6	29.98
Riparian 640	High	6	24.20
Riparian 430	High	6	29.06
Riparian 572	High	6	49.99
Riparian 637	High	6	17.69
Riparian 644	High	6	35.02
Riparian 741	High	6	47.24
Riparian 3273	High	6	23.68
Riparian 3275	High	6	61.28
Riparian 458	High	6	44.82
Riparian 481	High	6	26.53
Riparian 683	High	6	21.83
Riparian 896	High	6	0.77
Riparian 3277	Moderate	5	3.13
Riparian 535	Moderate	5	57.96
Riparian 615	Moderate	5	24.73
Riparian 664	High	4	35.79
Riparian 760	High	4	196.68
Riparian 3467	High	4	24.55
Riparian 783	High	4	12.92
Riparian 3466	High	4	24.21
Riparian 555	High	4	19.56
Riparian 582	High	4	0.23
Riparian 728	High	4	11.18
Riparian 749	High	4	11.55
Riparian 415	High	4	14.74
Riparian 542	High	4	25.44
Riparian 681	High	4	34.07
Riparian 755	High	4	63.22
Riparian 825	High	4	27.41
Riparian 503	Moderate	3	63.78
Riparian 827	Moderate	3	210.46
Riparian 832	Moderate	3	68.80
Riparian 924	Moderate	3	0.68
Riparian 408	Moderate	3	5.36
Riparian 636	High	2	55.00
Riparian 894	High	2	217.35
Riparian 429	High	2	13.31

Site ID	Riparian Rank	Combined DAU and Site Score	Acres
Riparian 489	High	2	15.90
Riparian 3468	Moderate	1	28.21
Riparian 479	Moderate	1	120.28
Riparian 485	Moderate	1	37.31
Riparian 563	Moderate	1	29.01
Riparian 531	Moderate	1	28.00
Riparian 537	Moderate	1	53.70

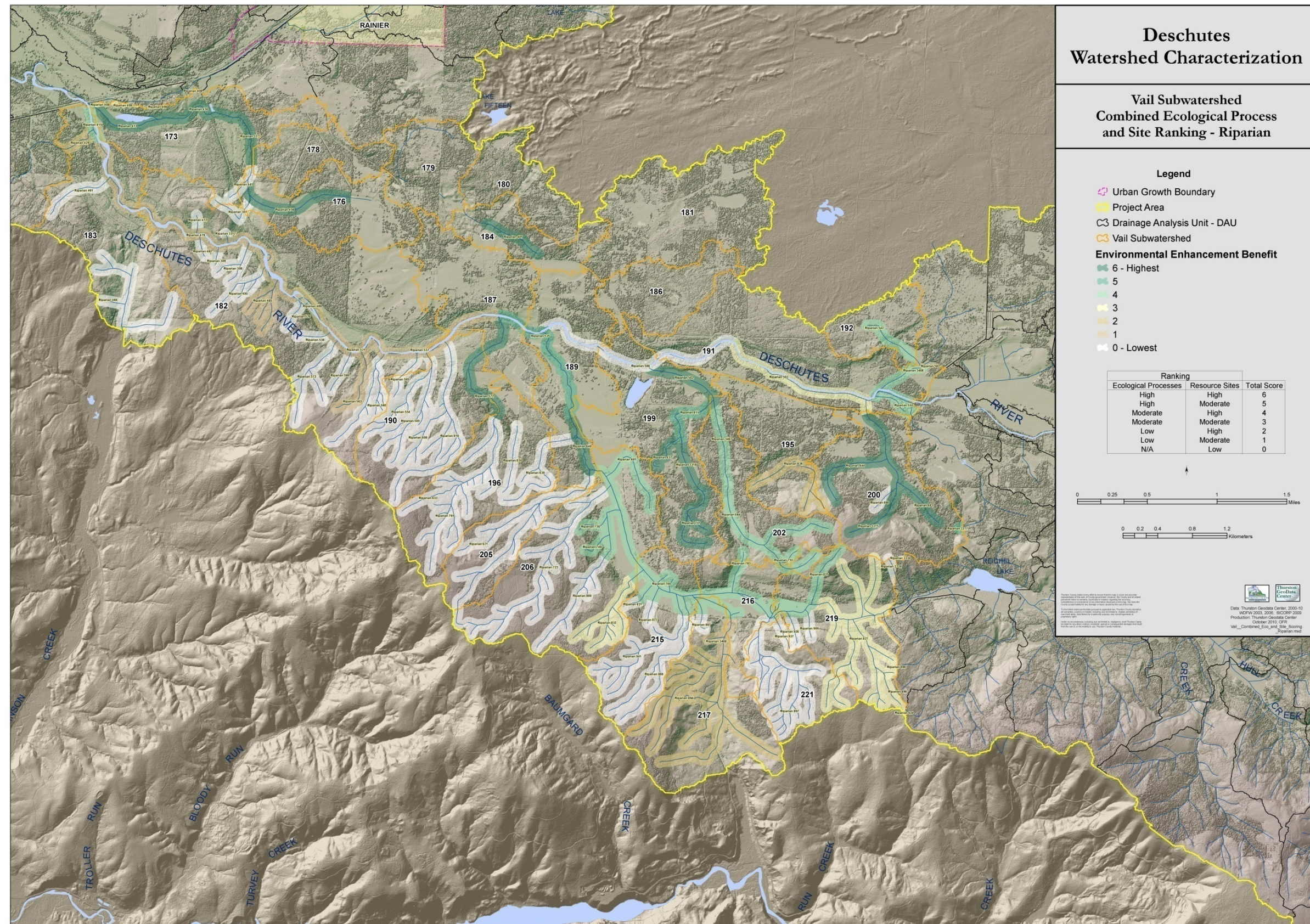


Figure 4.4 Vail Subwatershed Ecological Processes and Site Ranking - Riparian.

Floodplain Condition

The resulting combined score of the natural resource site within the context of the DAU were scored and displayed on Figure 4.5 Vail Subwatershed Ecological Processes and Site Ranking – Floodplain. Floodplain sites ranked Low are not included in the following table, but can be found in appendix B.

Table 4.5 **Floodplain Sites**

Site ID	Floodplain Rank	Combined DAU Site Score	Acres
Floodplain 31	High	6	0.00
Floodplain 28	Moderate	5	21.42
Floodplain 38	Moderate	5	10.86
Floodplain 29	High	4	4.08

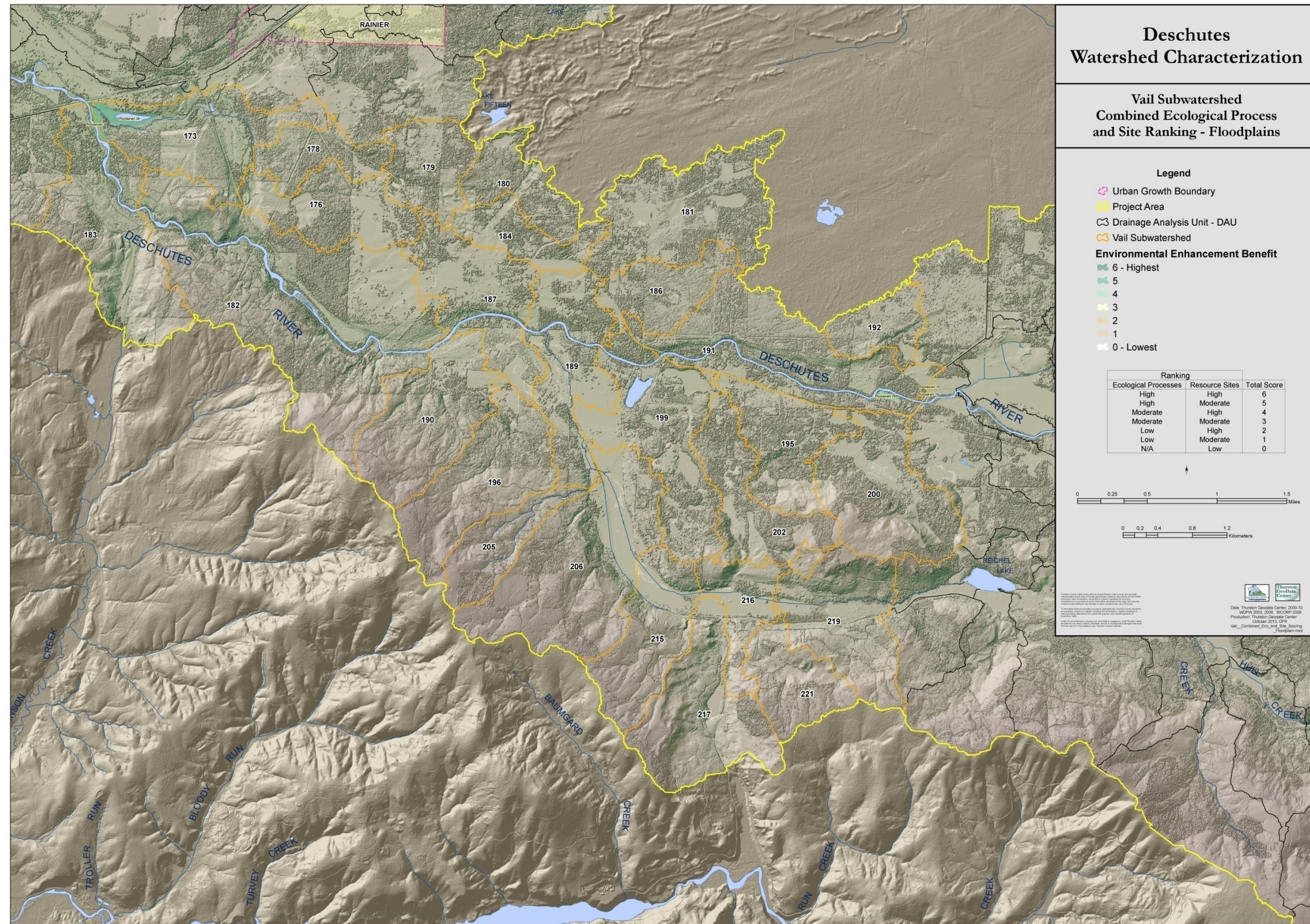


Figure 4.5 Vail Subwatershed Ecological Processes and Site Ranking - Floodplain