

Appendix 6-B-1: Projects Sorted by Project Number

Project Number	Agency/ Organization	Project Title	Project Type ^(a)	Total Score	Total Cost (Capital)
1	Town of Truckee	Aquatic Invasive Species Programs	R	22	\$ 1,000,000
2	South Tahoe PUD	BMP Implementation on STPUD Operating Sites	R	24	\$ 496,250
3	Town of Truckee	Permanant BMP Implementation, Inspection, and Maintenance Programs	SW	22	\$ 550,000
4	Town of Truckee	Truckee Coldstream Culvert Replacement Program	R	16	\$ 2,500,000
5	City of South Lake Tahoe	Bijou Area Erosion Control Project (Bijou Project)	SW	23	\$ 500,000
6	City of South Lake Tahoe	Ruby Way - Overlook Court	SW	26	\$ 150,000
7	City of South Lake Tahoe	Sierra Tract Erosion Control Project, Phase 3/4	SW	28	\$ 3,912,500
8	City of South Lake Tahoe	Sierra Boulevard	SW	25	\$ 2,500,000
9	City of South Lake Tahoe	South Lake Tahoe Integrated Roadway Management Strategy	SW	24	\$ 1,145,500
10	City of South Lake Tahoe	Tahoe Valley Stormwater Improvement Project (SWIP)	SW	27	\$ 750,000
11	El Dorado County	Meyers SEZ and Erosion Control Project	R	24	\$ 550,000
12	El Dorado County	Oflyng Erosion Control Project	SW	25	\$ 247,500
13	American Rivers	Hope Valley Meadow Restoration	R	27	\$ 850,000
14	South Tahoe PUD	Iroquois Pond SEZ Restorations	SW	20	\$ 266,250
15	California Tahoe Conservancy	Greenway Shared Use Trail	SW	27	\$ 8,443,300
16	Alpine Watershed Group	Grover Hot Springs State Park Meadow Restoration and ADA Access	R	22	\$ 627,000
17	Friends of Squaw Creek	Lower Squaw Creek Restoration Project	R	25	\$ 1,400,000
18	California Tahoe Conservancy	Upper Truckee River and Marsh Restorations	R	25	\$ 5,880,000
19	Lukins Brothers Water Company, Inc.	Meter Conversion	W	24	\$ 2,770,000
20	Lukins Brothers Water Company, Inc.	Waterline Replacement 2a	W	25	\$ 1,550,000
21	Lukins Brothers Water Company, Inc.	Waterline Replacement 7a	W	24	\$ 700,000
22	Alpine County	Markleeville Creek Floodplain Restoration Project	R	24	\$ 1,600,000
23	South Tahoe PUD	Mountain View Well Ground Water Protections	W	23	\$ 297,500
24	Town of Truckee	Town of Truckee Stormwater Management and Retrofits	SW	26	\$ 43,700,000 / 5 years
25	South Tahoe PUD	Tahoe Keys Force Main Bypass	W	23	\$ 875,000
26	Tahoe Resource Conservation District	Regional Aquatic Invasive Species Prevention, Control and Monitoring	R	25	\$ 3,850,000

Appendix 6-B-1: Projects Sorted by Project Number

Project Number	Agency/ Organization	Project Title	Project Type ^(a)	Total Score	Total Cost (Capital)
27	Tahoe Resource Conservation District	Small-scale Testing of Micro Stormwater Infiltration Systems	SW	23	\$ 375,000
28	Tahoe Resource Conservation District	Goundwater Monitoring to support nearshore management	R	20	\$ 237,500
29	Tahoe Resource Conservation District	Regional Landscape Conservation Measures for Lake Tahoe	W	26	\$ 562,500
30	Tahoe Resource Conservation District	Analyzing LiDAR data to identify Micro Stormwater Infiltration Systems (MSIS) for the whole Lake Tahoe Basin	SW	22	\$ 125,000
31	Tahoe Resource Conservation District	Regional Stormwater Monitoring Program	SW	26	\$ 1,062,500
32	Town of Truckee	Trout Creek Trail	SW	24	\$ 5,000,000
33	Town of Truckee	Trout Creek Restoration	R	23	\$ 14,200,000
34	Town of Truckee	Truckee River Legacy Trail	SW	21	\$ 4,000,000
35	Truckee River Watershed Council	Dry Creek Restorations	R	21	\$ 665,000
36	Truckee River Watershed Council	First 4 Mile Restoration Project	R	23	\$ 410,000
37	Truckee River Watershed Council	Johnson Canyon Restoration	R	23	\$ 300,000
38	Truckee River Watershed Council	Lacey Meadows Restoration	R	20	\$ 1,500,000
39	Truckee River Watershed Council	Martis Watershed Restoration Plan Implementation	R	20	\$ 1,000,000
40	Truckee River Watershed Council	Non-native Invasive Plan Species	R	21	\$ 210,000
41	Truckee River Watershed Council	Truckee River Residential Voluntary BMP Implementation	SW	26	\$ 507,500
42	Truckee River Watershed Council	TMDL Monitoring for the Truckee River	SW	23	\$ 150,000
43	Truckee River Watershed Council	Truckee Wetlands Restoration	R	20	\$ 1,250,000
44	South Tahoe PUD	Regional Water Conservation Programs	W	26	\$ 600,000
45	Town of Truckee	Water Quality Monitoring	SW	25	\$ 625,000 / 5 years
46	South Tahoe PUD	Waterlines - Sierra Tract, Brockway, Black Bart	W	25	\$ 1,875,000
47	Town of Truckee	West River Street Site Redevelopment and River Revitalization	R	22	\$ 22,325,000
48	Town of Truckee	West River Street	SW	24	\$ 3,000,000
49	Tahoe City PUD	West Lake Tahoe Regional Water Treatment Plant	W	25	\$ 8,544,911
50	North Tahoe PUD	Carnelian Woods Tanks Site EIPs	R	17	\$ 737,618

Appendix 6-B-1: Projects Sorted by Project Number

Project Number	Agency/ Organization	Project Title	Project Type ^(a)	Total Score	Total Cost (Capital)
51	North Tahoe PUD	Dolly Varden Water Main Replacement Projects	W	24	\$ 1,200,000
52	North Tahoe PUD	Kingswood West Tank Site EIPs	R	16	\$ 88,660
53	Washoe Tribe of Nevada and California	Woodfords Community Wastewater Infrastructure Upgrades	W	23	\$ 600,000
54	Washoe Tribe of Nevada and California	Woodfords Community Water Infrastructure Upgrades	W	26	\$ 600,000
55	Squaw Valley PSD	Aquifer Monitoring	W	22	\$ 65,000
56	Squaw Valley PSD	Squaw Valley Mutual Water Co. Intertie	W	22	\$ 155,000
57	Squaw Valley PSD	Squaw Creek Siphon	W	20	\$ 250,000
58	Squaw Valley PSD	Truckee River Siphon	W	21	\$ 500,000
59	Squaw Valley PSD	Well 3 Replacement	W	21	\$ 750,000
60	Squaw Valley PSD	Redundant Water Supply	W	25	\$ 3,685,000

(a) R = Restoration, SW = Stormwater/Flood Control, W = Water Supply/Wastewater

Appendix 6-B-2: Restoration Project Criteria Scores

Project Number	Agency/ Organization	Project Title	Total Score	Restoration Projects									
				Readiness to Proceed	Relevance to Plan	Other Funds	Partners	Green Technology	Relevance to SWP & Other Plans	Impact if not funded	Scientific Backing	Community Benefits	Disadvantaged Community
1	Town of Truckee	Aquatic Invasive Species Programs	22	3	3	1	3	1	3	3	3	1	1
2	South Tahoe PUD	BMP Implementation on STPUD Operating Sites	24	3	3	3	1	3	3	1	3	3	1
4	Town of Truckee	Truckee Coldstream Culvert Replacement Program	16	1	3	1	3	1	1	2	2	1	1
11	El Dorado County	Meyers SEZ and Erosion Control Project	24	2	3	1	3	3	3	3	3	1	2
13	American Rivers	Hope Valley Meadow Restoration	27	3	3	3	3	2	3	3	3	1	3
16	Alpine Watershed Group	Grover Hot Springs State Park Meadow Restoration and ADA Access	22	2	3	1	3	2	3	2	2	1	3
17	Friends of Squaw Creek	Lower Squaw Creek Restoration Project	25	3	3	1	3	2	3	3	3	1	3
18	California Tahoe Conservancy	Upper Truckee River and Marsh Restorations	25	2	3	1	3	2	3	3	3	3	2
22	Alpine County	Markleeville Creek Floodplain Restoration Project	24	3	3	1	3	2	3	3	2	1	3
26	Tahoe Resource Conservation District	Regional Aquatic Invasive Species Prevention, Control and Monitoring	25	3	3	3	3	1	3	3	3	2	1
28	Tahoe Resource Conservation District	Goundwater Monitoring to support nearshore management	20	3	3	1	2	2	3	1	2	2	1
33	Town of Truckee	Trout Creek Restoration	23	3	3	1	3	2	3	3	3	1	1
35	Truckee River Watershed Council	Dry Creek Restoration	21	3	3	1	3	2	3	1	3	1	1
36	Truckee River Watershed Council	First 4 Mile Restoration Project	23	3	3	1	3	2	3	3	3	1	1
37	Truckee River Watershed Council	Johnson Canyon Restoration	23	3	3	1	3	2	3	3	3	1	1
38	Truckee River Watershed Council	Lacey Meadows Restoration	20	2	3	1	3	2	3	1	3	1	1
39	Truckee River Watershed Council	Martis Watershed Restoration Plan Implementation	20	2	3	1	3	2	3	1	3	1	1
40	Truckee River Watershed Council	Non-native Invasive Plant Species	21	3	3	2	3	1	3	1	3	1	1
43	Truckee River Watershed Council	Truckee Wetlands Restoration	20	2	3	1	3	2	3	1	3	1	1
47	Town of Truckee	West River Street Site Redevelopment and River Revitalization	22	1	3	1	3	3	3	3	3	1	1
50	North Tahoe PUD	Carnelian Woods Tanks Site EIPs	17	3	2	1	3	1	1	1	2	1	2
52	North Tahoe PUD	Kingswood West Tank Site EIPs	16	3	1	1	3	1	1	1	2	1	2

Appendix 6-B-3: Stormwater/Flood Control Project Criteria Scores

Project Number	Agency/ Organization	Project Title	Total Score	Readiness to Proceed	Relevance to Plan	Other Funds	Partners	Green Technology	Relevance to SWP & Other Plans	Impact if not funded	Scientific Backing	Community Benefits	Disadvantaged Community	Number of Projects Submitted per Proponent
Stormwater/Flood Control Projects														
3	Town of Truckee	Permanant BMP Implementation, Inspection, and Maintenance	22	3	3	1	3	3	3	1	3	1	1	1
5	City of South Lake Tahoe	Bijou Area Erosion Control Project (Bijou Project)	23	2	3	1	3	1	3	3	3	3	3	1
6	City of South Lake Tahoe	Ruby Way - Overlook Court	26	3	3	1	3	3	3	3	3	3	3	1
7	City of South Lake Tahoe	Sierra Tract Erosion Control Project, Phase 3/4	28	3	3	3	3	3	3	3	3	3	3	1
8	City of South Lake Tahoe	Sierra Boulevard	25	2	3	1	3	3	3	3	3	3	3	1
9	City of South Lake Tahoe	South Lake Tahoe Integrated Roadway Management Strategy	24	2	3	1	2	3	3	3	3	3	3	1
10	City of South Lake Tahoe	Tahoe Valley Stormwater Improvement Project (SWIP)	27	2	3	3	3	3	3	3	3	3	3	1
12	El Dorado County	Oflyng Erosion Control Project	25	3	3	2	2	3	3	3	3	1	2	2
14	South Tahoe PUD	Iroquois Pond SEZ Restorations	20	3	3	1	2	2	3	1	3	1	1	1
15	California Tahoe Conservancy	Greenway Shared Use Trail	27	2	3	2	3	3	3	3	3	3	3	2
24	Town of Truckee	Town of Truckee Stormwater Management and Retrofits	26	3	3	3	3	3	3	3	3	1	1	1
27	Tahoe Resource Conservation District	Small-scale Testing of Micro Stormwater Infiltration Systems	23	3	3	1	3	2	3	3	3	1	1	1
30	Tahoe Resource Conservation District	Analyzing LiDAR data to identify Micro Stormwater Infiltration Systems (MSIS) for the whole Lake Tahoe Basin	22	3	3	1	3	2	3	1	3	2	2	1
31	Tahoe Resource Conservation District	Regional Stormwater Monitoring Program	26	3	3	3	3	2	3	3	3	2	2	1
32	Town of Truckee	Trout Creek Trail	24	3	3	3	3	3	3	1	3	1	1	1
34	Town of Truckee	Truckee River Legacy Trail	21	2	3	1	3	3	3	1	3	1	1	1
41	Truckee River Watershed Council	Truckee River Residential Voluntary BMP Implementation	26	3	3	3	3	3	3	3	3	1	1	1
42	Truckee River Watershed Council	TMDL Monitoring for the Truckee River	23	3	3	1	3	2	3	3	3	1	1	1
45	Town of Truckee	Water Quality Monitoring	25	3	3	3	3	2	3	3	3	1	1	1
48	Town of Truckee	West River Street	24	3	3	3	3	3	3	1	3	1	1	1

Table 6-B-4: Water Supply/Wastewater Project Criteria Scores

Project Number	Agency/ Organization	Project Title	Total Score	Criteria										
				Readiness to Proceed	Relevance to Plan	Other Funds	Partners	Green Technology	Relevance to SWP & Other Plans	Impact if not funded	Scientific Backing	Community Benefits	Disadvantaged Community	Number of Projects Submitted per Proponent
Water Supply/Wastewater Projects														
19	Lukins Brothers Water Company, Inc.	Meter Conversion	24	3	3	1	1	2	3	1	3	2	3	2
20	Lukins Brothers Water Company, Inc.	Waterline Replacement 2a	25	3	3	1	2	1	3	1	3	3	3	2
21	Lukins Brothers Water Company, Inc.	Waterline Replacement 7a	24	3	3	1	1	1	3	1	3	3	3	2
23	South Tahoe PUD	Mountain View Well Ground Water Protections	23	3	3	3	1	1	3	1	3	1	3	1
25	South Tahoe PUD	Tahoe Keys Force Main Bypass	23	3	3	3	1	1	3	1	3	1	3	1
29	Tahoe Resource Conservation District	Regional Landscape Conservation Measures for Lake Tahoe	26	3	3	3	3	3	3	1	3	1	2	1
44	South Tahoe PUD	Regional Water Conservation Programs	26	3	3	2	3	3	3	1	3	2	2	1
46	South Tahoe PUD	Waterlines - Sierra Tract, Brockway, Black Bart	25	3	3	3	1	1	3	1	3	3	3	1
49	Tahoe City PUD	West Lake Tahoe Regional Water Treatment Plant	25	3	3	1	2	2	3	1	3	2	2	3
51	North Tahoe PUD	Dolly Varden Water Main Replacement Projects	24	3	3	1	3	1	3	1	1	3	3	2
53	Washoe Tribe of Nevada and California	Woodfords Community Wastewater Infrastructure Upgrades	23	3	3	1	2	1	3	1	3	1	3	2
54	Washoe Tribe of Nevada and California	Woodfords Community Water Infrastructure Upgrades	26	3	3	1	2	3	3	1	3	2	3	2
55	Squaw Valley PSD	Aquifer Monitoring	22	3	3	3	1	2	3	1	3	1	1	1
56	Squaw Valley PSD	Squaw Valley Mutual Water Co. Intertie	22	3	3	2	2	2	3	1	3	1	1	1
57	Squaw Valley PSD	Squaw Creek Siphon	20	3	2	3	1	1	3	1	3	1	1	1
58	Squaw Valley PSD	Truckee River Siphon	21	3	3	3	1	1	3	1	3	1	1	1
59	Squaw Valley PSD	Well 3 Replacement	21	3	3	3	1	1	3	1	3	1	1	1
60	Squaw Valley PSD	Redundant Water Supply	25	3	3	3	2	3	3	1	3	2	1	1

Appendix 6-B-5: Projects Sorted by Type and Agency/Organization

Project Number	Agency/ Organization	Project Title	Total Score	Total Cost (Capital)
Restoration Projects				
22	Alpine County	Markleeville Creek Floodplain Restoration Project	24	\$ 1,600,000
16	Alpine Watershed Group	Grover Hot Springs State Park Meadow Restoration and ADA Access	22	\$ 627,000
13	American Rivers	Hope Valley Meadow Restoration	27	\$ 850,000
18	California Tahoe Conservancy	Upper Truckee River and Marsh Restorations	25	\$ 5,880,000
11	El Dorado County	Meyers SEZ and Erosion Control Project	24	\$ 550,000
17	Friends of Squaw Creek	Lower Squaw Creek Restoration Project	25	\$ 1,400,000
50	North Tahoe PUD	Carnelian Woods Tanks Site EIPs	17	\$ 737,618
52	North Tahoe PUD	Kingswood West Tank Site EIPs	16	\$ 88,660
2	South Tahoe PUD	BMP Implementation on STPUD Operating Sites	24	\$ 496,250
26	Tahoe Resource Conservation District	Regional Aquatic Invasive Species Prevention, Control and Monitoring	25	\$ 3,850,000
28	Tahoe Resource Conservation District	Goundwater Monitoring to support nearshore management	20	\$ 237,500
33	Town of Truckee	Trout Creek Restoration	23	\$ 14,200,000
1	Town of Truckee	Aquatic Invasive Species Programs	22	\$ 1,000,000
47	Town of Truckee	West River Street Site Redevelopment and River Revitalization	22	\$ 22,325,000
4	Town of Truckee	Truckee Coldstream Culvert Replacement Program	16	\$ 2,500,000
36	Truckee River Watershed Council	First 4 Mile Restoration Project	23	\$ 410,000
37	Truckee River Watershed Council	Johnson Canyon Restoration	23	\$ 300,000
35	Truckee River Watershed Council	Dry Creek Restorations	21	\$ 665,000
40	Truckee River Watershed Council	Non-native Invasive Plan Species	21	\$ 210,000
38	Truckee River Watershed Council	Lacey Meadows Restoration	20	\$ 1,500,000
39	Truckee River Watershed Council	Martis Watershed Restoration Plan Implementation	20	\$ 1,000,000
43	Truckee River Watershed Council	Truckee Wetlands Restoration	20	\$ 1,250,000
Stormwater/Flood Control Projects				
15	California Tahoe Conservancy	Greenway Shared Use Trail	27	\$ 8,443,300
7	City of South Lake Tahoe	Sierra Tract Erosion Control Project, Phase 3/4	28	\$ 3,912,500
10	City of South Lake Tahoe	Tahoe Valley Stormwater Improvement Project (SWIP)	27	\$ 750,000

Appendix 6-B-5: Projects Sorted by Type and Agency/Organization

Project Number	Agency/ Organization	Project Title	Total Score	Total Cost (Capital)
6	City of South Lake Tahoe	Ruby Way - Overlook Court	26	\$ 150,000
8	City of South Lake Tahoe	Sierra Boulevard	25	\$ 2,500,000
9	City of South Lake Tahoe	South Lake Tahoe Integrated Roadway Management Strategy	24	\$ 1,145,500
5	City of South Lake Tahoe	Bijou Area Erosion Control Project (Bijou Project)	23	\$ 500,000
12	El Dorado County	Oflyng Erosion Control Project	25	\$ 247,500
14	South Tahoe PUD	Iroquois Pond SEZ Restorations	20	\$ 266,250
31	Tahoe Resource Conservation District	Regional Stormwater Monitoring Program	26	\$ 1,062,500
27	Tahoe Resource Conservation District	Small-scale Testing of Micro Stormwater Infiltration Systems	23	\$ 375,000
30	Tahoe Resource Conservation District	Analyzing LiDAR data to identify Micro Stormwater Infiltration Systems (MSIS) for the whole Lake Tahoe Basin	22	\$ 125,000
24	Town of Truckee	Town of Truckee Stormwater Management and Retrofits	26	\$ 43,700,000 / 5 years
45	Town of Truckee	Water Quality Monitoring	25	\$ 625,000 / 5 years
32	Town of Truckee	Trout Creek Trail	24	\$ 5,000,000
48	Town of Truckee	West River Street	24	\$ 3,000,000
3	Town of Truckee	Permanant BMP Implementation, Inspection, and Maintenance Programs	22	\$ 550,000
34	Town of Truckee	Truckee River Legacy Trail	21	\$ 4,000,000
41	Truckee River Watershed Council	Truckee River Residential Voluntary BMP Implementation	26	\$ 507,500
42	Truckee River Watershed Council	TMDL Monitoring for the Truckee River	23	\$ 150,000
Water Supply/Wastewater Projects				
20	Lukins Brothers Water Company, Inc.	Waterline Replacement 2a	25	\$ 1,550,000
19	Lukins Brothers Water Company, Inc.	Meter Conversion	24	\$ 2,770,000
21	Lukins Brothers Water Company, Inc.	Waterline Replacement 7a	24	\$ 700,000
51	North Tahoe PUD	Dolly Varden Water Main Replacement Projects	24	\$ 1,200,000
44	South Tahoe PUD	Regional Water Conservation Programs	26	\$ 600,000
46	South Tahoe PUD	Waterlines - Sierra Tract, Brockway, Black Bart	25	\$ 1,875,000
23	South Tahoe PUD	Mountain View Well Ground Water Protections	23	\$ 297,500
25	South Tahoe PUD	Tahoe Keys Force Main Bypass	23	\$ 875,000
60	Squaw Valley PSD	Redundant Water Supply	25	\$ 3,685,000

Appendix 6-B-5: Projects Sorted by Type and Agency/Organization

Project Number	Agency/ Organization	Project Title	Total Score	Total Cost (Capital)
55	Squaw Valley PSD	Aquifer Monitoring	22	\$ 65,000
56	Squaw Valley PSD	Squaw Valley Mutual Water Co. Intertie	22	\$ 155,000
58	Squaw Valley PSD	Truckee River Siphon	21	\$ 500,000
59	Squaw Valley PSD	Well 3 Replacement	21	\$ 750,000
57	Squaw Valley PSD	Squaw Creek Siphon	20	\$ 250,000
49	Tahoe City PUD	West Lake Tahoe Regional Water Treatment Plant	25	\$ 8,544,911
29	Tahoe Resource Conservation District	Regional Landscape Conservation Measures for Lake Tahoe	26	\$ 562,500
54	Washoe Tribe of Nevada and California	Woodfords Community Water Infrastructure Upgrades	26	\$ 600,000
53	Washoe Tribe of Nevada and California	Woodfords Community Wastewater Infrastructure Upgrades	23	\$ 600,000

Appendix 6-B-6: Projects Sorted by Type and Total Cost

Project Number	Agency/ Organization	Project Title	Total Score	Total Cost (Capital)
Restoration Projects				
47	Town of Truckee	West River Street Site Redevelopment and River Revitalization	22	\$ 22,325,000
33	Town of Truckee	Trout Creek Restoration	23	\$ 14,200,000
18	California Tahoe Conservancy	Upper Truckee River and Marsh Restorations	25	\$ 5,880,000
26	Tahoe Resource Conservation District	Regional Aquatic Invasive Species Prevention, Control and Monitoring	25	\$ 3,850,000
4	Town of Truckee	Truckee Coldstream Culvert Replacement Program	16	\$ 2,500,000
22	Alpine County	Markleeville Creek Floodplain Restoration Project	24	\$ 1,600,000
38	Truckee River Watershed Council	Lacey Meadows Restoration	20	\$ 1,500,000
17	Friends of Squaw Creek	Lower Squaw Creek Restoration Project	25	\$ 1,400,000
43	Truckee River Watershed Council	Truckee Wetlands Restoration	20	\$ 1,250,000
1	Town of Truckee	Aquatic Invasive Species Programs	22	\$ 1,000,000
39	Truckee River Watershed Council	Martis Watershed Restoration Plan Implementation	20	\$ 1,000,000
13	American Rivers	Hope Valley Meadow Restoration	27	\$ 850,000
50	North Tahoe PUD	Carnelian Woods Tanks Site EIPs	17	\$ 737,618
35	Truckee River Watershed Council	Dry Creek Restorations	21	\$ 665,000
16	Alpine Watershed Group	Grover Hot Springs State Park Meadow Restoration and ADA Access	22	\$ 627,000
11	El Dorado County	Meyers SEZ and Erosion Control Project	24	\$ 550,000
2	South Tahoe PUD	BMP Implementation on STPUD Operating Sites	24	\$ 496,250
36	Truckee River Watershed Council	First 4 Mile Restoration Project	23	\$ 410,000
37	Truckee River Watershed Council	Johnson Canyon Restoration	23	\$ 300,000
28	Tahoe Resource Conservation District	Goundwater Monitoring to support nearshore management	20	\$ 237,500
40	Truckee River Watershed Council	Non-native Invasive Plan Species	21	\$ 210,000
52	North Tahoe PUD	Kingswood West Tank Site EIPs	16	\$ 88,660
Stormwater/Flood Control Projects				
24	Town of Truckee	Town of Truckee Stormwater Management and Retrofits	26	\$ 43,700,000 / 5 years

Appendix 6-B-6: Projects Sorted by Type and Total Cost

Project Number	Agency/ Organization	Project Title	Total Score	Total Cost (Capital)
45	Town of Truckee	Water Quality Monitoring	25	\$ 625,000 / 5 years
15	California Tahoe Conservancy	Greenway Shared Use Trail	27	\$ 8,443,300
32	Town of Truckee	Trout Creek Trail	24	\$ 5,000,000
34	Town of Truckee	Truckee River Legacy Trail	21	\$ 4,000,000
7	City of South Lake Tahoe	Sierra Tract Erosion Control Project, Phase 3/4	28	\$ 3,912,500
48	Town of Truckee	West River Street	24	\$ 3,000,000
8	City of South Lake Tahoe	Sierra Boulevard	25	\$ 2,500,000
9	City of South Lake Tahoe	South Lake Tahoe Integrated Roadway Management Strategy	24	\$ 1,145,500
31	Tahoe Resource Conservation District	Regional Stormwater Monitoring Program	26	\$ 1,062,500
10	City of South Lake Tahoe	Tahoe Valley Stormwater Improvement Project (SWIP)	27	\$ 750,000
3	Town of Truckee	Permanant BMP Implementation, Inspection, and Maintenance Programs	22	\$ 550,000
41	Truckee River Watershed Council	Truckee River Residential Voluntary BMP Implementation	26	\$ 507,500
5	City of South Lake Tahoe	Bijou Area Erosion Control Project (Bijou Project)	23	\$ 500,000
27	Tahoe Resource Conservation District	Small-scale Testing of Micro Stormwater Infiltration Systems	23	\$ 375,000
14	South Tahoe PUD	Iroquois Pond SEZ Restorations	20	\$ 266,250
12	El Dorado County	Oflyng Erosion Control Project	25	\$ 247,500
6	City of South Lake Tahoe	Ruby Way - Overlook Court	26	\$ 150,000
42	Truckee River Watershed Council	TMDL Monitoring for the Truckee River	23	\$ 150,000
30	Tahoe Resource Conservation District	Analyzing LiDAR data to identify Micro Stormwater Infiltration Systems (MSIS) for the whole Lake Tahoe Basin	22	\$ 125,000
Water Supply/Wastewater Projects				
49	Tahoe City PUD	West Lake Tahoe Regional Water Treatment Plant	25	\$ 8,544,911
60	Squaw Valley PSD	Redundant Water Supply	25	\$ 3,685,000
19	Lukins Brothers Water Company, Inc.	Meter Conversion	24	\$ 2,770,000
46	South Tahoe PUD	Waterlines - Sierra Tract, Brockway, Black Bart	25	\$ 1,875,000
20	Lukins Brothers Water Company, Inc.	Waterline Replacement 2a	25	\$ 1,550,000
51	North Tahoe PUD	Dolly Varden Water Main Replacement Projects	24	\$ 1,200,000
25	South Tahoe PUD	Tahoe Keys Force Main Bypass	23	\$ 875,000

Appendix 6-B-6: Projects Sorted by Type and Total Cost

Project Number	Agency/ Organization	Project Title	Total Score	Total Cost (Capital)
59	Squaw Valley PSD	Well 3 Replacement	21	\$ 750,000
21	Lukins Brothers Water Company, Inc.	Waterline Replacement 7a	24	\$ 700,000
44	South Tahoe PUD	Regional Water Conservation Programs	26	\$ 600,000
54	Washoe Tribe of Nevada and California	Woodfords Community Water Infrastructure Upgrades	26	\$ 600,000
53	Washoe Tribe of Nevada and California	Woodfords Community Wastewater Infrastructure Upgrades	23	\$ 600,000
29	Tahoe Resource Conservation District	Regional Landscape Conservation Measures for Lake Tahoe	26	\$ 562,500
58	Squaw Valley PSD	Truckee River Siphon	21	\$ 500,000
23	South Tahoe PUD	Mountain View Well Ground Water Protections	23	\$ 297,500
57	Squaw Valley PSD	Squaw Creek Siphon	20	\$ 250,000
56	Squaw Valley PSD	Squaw Valley Mutual Water Co. Intertie	22	\$ 155,000
55	Squaw Valley PSD	Aquifer Monitoring	22	\$ 65,000

Appendix 6-B-7: Project Descriptions

Project Number	Agency/ Organization	Project Title	Project Type ^(a)	Project Description
1	Town of Truckee	Aquatic Invasive Species Programs	R	Implementation of an Aquatic Invasive Species (AIS) program within Truckee which will include purchase of equipment to decontaminate motorized vessels, a mandatory inspection program for motorized vessels, implementation of sticker program, and education and outreach at key locations for non-motorized vehicles and recreational uses. The program will be modeled after the program currently being implemented in the Lake Tahoe basin.
2	South Tahoe PUD	BMP Implementation on STPUD Operating Sites	R	The overarching goal of the Project is to benefit the water quality of Lake Tahoe by reducing erosion, sediment flow, and surface water runoff originating from STPUD facilities. More specifically, the objectives of the Project are to:1. Reduce sediment loads and nutrients delivered to Lake Tahoe through tributary runoff, urban runoff, and groundwater;2. Install surface water best management practices (BMPs) at STPUD facilities throughout the tributary area;3. Restore existing disturbed areas to offset facility impacts; and 4. Restore SEZ's toward a proper functioning condition. These Project objectives will be pursued where feasible, appropriate, cost effective and consistent with District objectives.
3	Town of Truckee	Permanant BMP Implementation, Inspection, and Maintenance Programs	SW	Two permanent BMP programs would be implemented with this project and are required by the Phase 2 NPDES permit. The business inspection program would include certain businesses listed in the Phase 2 Permit such as vehicle repair, building trades, and other businesses with potential to contribute pollutant loads provide appropriate BMPs for their business locations. The program would be implemented by educating applicable business owners or staff through a certification program. The Town would provide technical support and conduct site inspections to assist property owners in implementation of appropriate BMPs and LID options. The grant would also provide financial assistance to owners where retrofitting was required to reduce pollutant loads from the property. The program would include a self certification program for business owners as a way of continuing the program and ensuring on-going operation and maintenance. The second program would consist of a Stormwater Treatment and Hydromodification Management Operation and Maintenance verification program, which would be required for all new construction over 5,000sf of disturbed area and current properties that have been required to participate to date. As all new construction requires permanent BMPs, education and outreach for permanent BMP operation and maintenance would be provided to all residents. Properties that are required to participate in the Stormwater Treatment and Hydromodification Management Operation and Maintenance verification program (over 5,000sf of disturbed area) would participate in a self-certification program. In addition, mapping, inventory, and condition assessment of the Stormwater Treatment and Hydromodification Measures would be implemented. A database would be developed and maintained of all properties and businesses required to participate, tracking of self certification reports, and any follow up or enforcement action taken. Water monitoring of some installed BMPs would be conducted to help guide future standard designs to determine the best design for this area and to continue to improve the effectiveness.
4	Town of Truckee	Truckee Coldstream Culvert Replacement Program	R	The Coldstream Road Culvert Project would reconstruct or replace the culvert that contains Donner Creek and travels under Coldstream Road. This culvert failed in the spring of 2012 and was temporarily reconstructed until a permanent fix could be implemented. The culvert has rusted out along the bottom and failed due to piping and erosion of soils around the outside of the culvert, causing the roadway to fail. The proposed project would fix the culvert, either by reconstructing the culvert to prevent additional piping and erosion or remove the culvert and replace it with an open bottom culvert. The replacement with an open bottom culvert is the preferred option, however, implementation of this will depend on funding.
5	City of South Lake Tahoe	Bijou Area Erosion Control Project (Bijou Project)	SW	The project includes water quality treatment for and replacement of a 50 to 60 year old stormwater outfall discharging directly to Lake Tahoe. The outfall is located within the densely developed Highway 50 commercial corridor, which discharges high pollutant load runoff directly to Lake Tahoe with no treatment.
6	City of South Lake Tahoe	Ruby Way - Overlook Court	SW	Water quality and erosion control project that will address surface runoff conditions. Existing site conditions include an undersized storm drain collection and conveyance system that is overwhelmed during high intensity storm recurrences. Project work will include adding in additional storm drain inlets, adding subsurface storm drain pipes that will connect to an under- utilized rock-lined channel, and constructing a series of linear storm drain detention basins that will also allow infiltration of stormwater. Project improvements will redirect urban stormwater runoff into existing surface and subsurface conveyance systems; thereby, removing overland surface flow that is causing significant erosion.
7	City of South Lake Tahoe	Sierra Tract Erosion Control Project, Phase 3/4	SW	The water quality improvements proposed for the project include source control, hydrologic control, and treatment controls such as parking deterrents, concrete curb and gutter, drainage inlets, sediment traps, storm drain piping, infiltration trenches, vegetated basins, infiltration basins and infiltration galleries. This project is being designed in close coordination with a Caltrans Water Quality Improvement Project that is located adjacent to the Sierra Tract Erosion Control Project, Phase 3 and 4 and shares multiple common stormwater facilities.
8	City of South Lake Tahoe	Sierra Boulevard	SW	The Sierra Boulevard Project addresses multiple classifications that include an important water quality (EIP) component. As a complete streets project, the City of South Lake Tahoe projet will address stormwater quality issues while providing bicycle and pedestrian facilities. The project area along Sierra Boulevard currently drains to the Upper Truckee River and is lined by unimproved and unprotected roadway shoulders that are frequently used by pedestrians and cyclists. Roadside shoulders consist of compacted soils that are tracked onto the pavement surface, ground into fine powder and suspended in stormwater runoff.

Appendix 6-B-7: Project Descriptions

Project Number	Agency/ Organization	Project Title	Project Type ^(a)	Project Description
9	City of South Lake Tahoe	South Lake Tahoe Integrated Roadway Management Strategy	SW	The proposed project includes includes two mobile BMP strategies through the purchase of two high efficiency sweepers and an automated spreader to reduce the use of roadway abrasives; the project also includes the construction of a sweeper cleanout facility and a brine mixing facility for roadway de-icing fluids to further reduce the use of sediment generating roadway abrasives.
10	City of South Lake Tahoe	Tahoe Valley Stormwater Improvement Project (SWIP)	SW	Tahoe Valley SWIP (Project) is a water quality treatment project designed to maximize reduction of pollutant loads discharged to the Upper Truckee River from urban stormwater runoff in the commercial area along Highway 50 in the western portion of the City of South Lake Tahoe, California. Pollutant loading estimates submitted to the Lahontan Regional Water Quality Control Board, as part of the City's TMDL compliance strategy, indicate high fine sediment particle (FSP) loads and surface runoff originate from the Tahoe Valley Project area and discharge directly to the Upper Truckee River, a direct tributary to Lake Tahoe. The Project proposes to reduce pollutant loads by designing and constructing new stormwater improvements (infiltration basins) and by modifying existing stormwater treatment and conveyance infrastructure from erosion control projects constructed from the 1980's through the early 1990's, to maximize removal of FSP in stormwater.
11	El Dorado County	Meyers SEZ and Erosion Control Project	R	Urban development in the Meyers residential area has resulted in a concentrated flow of storm water from the County of El Dorado (County) right-of-way (ROW) directed to pervious forested land as well as to the Upper Truckee River. The hydrologic connectivity between Lake Tahoe and the Meyers area results in a high to moderate potential to deliver fine sediment to Lake Tahoe. Also, within this project area, a critical large Stream Environment Zone (SEZ) meadow system was modified in the early 1960's which disconnected the meadow system from the historic Meyers Creek. A critical phase of this project will be to reconnect this creek with its historic floodplain allowing for natural filtration of storm water runoff allowing for a reduction in both pollutant concentration and volume to downstream areas. This project proposes to provide both Erosion Control and SEZ components for restoration. Infiltration improvements are proposed within the County ROW throughout the Project area as well as restoring wetland connectivity. Storm water runoff from the Project will be directed into infiltration improvements providing a direct reduction in the transport of fine sediment to Lake Tahoe. It is also anticipated that urban stormwater infrastructure will be upgraded to current design specifications with conveyance improved to allow for proper flow sizing / routing. The Project will complete/complement the previous series of erosion control and water quality project efforts within the area. The outfall points of the Project are in close proximity to the Upper Truckee River, which is connected via an ephemeral creek. Included within these areas are three Environmental Improvement Program (EIP) projects, #189, #190, and #191 for Tahoe Paradise Meadowvale, Tahoe Paradise - Mandan, and Meyers Residential, respectively.
12	El Dorado County	Oflyng Erosion Control Project	SW	Urban development in the Oflyng residential area has resulted in a concentrated flow of storm water from the County of El Dorado (County) right-of-way (ROW) directed to pervious forested land as well as the Upper Truckee River. The hydrologic connectivity between Lake Tahoe and the Oflyng area results in a high to moderate potential to deliver fine sediment to Lake Tahoe. This project proposes to provide Erosion Control Improvements to the project area. Infiltration improvements are proposed within the County ROW throughout the Project area. Storm water runoff from the Project will be directed into infiltration improvements providing a direct reduction in the transport of fine sediment to Lake Tahoe. It is also anticipated that urban stormwater infrastructure will be upgraded to current design specifications with conveyance improved to allow for proper flow sizing / routing. The Project will complete/complement the previous series of erosion control and water quality project efforts within the area. The outfall points of the Project are in close proximity to the Upper Truckee River, which is connected via an ephemeral creek. Included within these areas are three Environmental Improvement Program (EIP) projects, #189, #190, and #191 for Tahoe Paradise Meadowvale, Tahoe Paradise - Mandan, and Meyers Residential, respectively.
13	American Rivers	Hope Valley Meadow Restoration	R	Restoration of Hope Valley meadow in the upper West Fork Carson River to enhance the full range of ecosystem services this highly visible and well know meadow has potential to provide including: natural water storage, flood attenuation, cooling and filtering of water, aquatic and riparian habitat, and recreational values. Restoration activities include stabilizing high, bare streambanks using vegetation and toe stabilization techniques, creating floodplain benches, protecting a meander bend from cutting off, stabilizing headcuts on tributaries, and creating standing water depressions for improved fish and bird habitat.
14	South Tahoe PUD	Iroquois Pond SEZ Restorations	SW	A preliminary plan was completed by Northwest Hydraulic Consultants. It includes an analysis of existing conditions at the Iroquois Pond site, development and analysis of restoration options, and development of an initial restoration design. The project consists of removal of aging facilities and SEZ restoration of the Iroquois Pond site. This project helps to achieve high priority soil erosion control and water quality improvement needs under the EIP. The preliminary design includes removal of the dam and reconstruction of about 90 feet of stream channel through the pond area. The stream channel is proposed for construction at an average gradient of about 8%, and will include fabric encapsulated soil banks.

Appendix 6-B-7: Project Descriptions

Project Number	Agency/ Organization	Project Title	Project Type ^(a)	Project Description
15	California Tahoe Conservancy	Greenway Shared Use Trail	SW	The South Tahoe Greenway Shared Use Trail phases 1 and 2, is a 2.5 mile class one trail segment in the core of South Lake Tahoe, providing linkages through sensitive environments and one of the most populated portions of region. It is considered a high priority project in completing the bicycle network in South Lake Tahoe. Creating an integrated bicycle/pedestrian network is central to providing alternatives to private automobile use, resulting in decreased vehicle miles traveled and improved air quality and water quality. Specific water quality improvements result from reduced atmospheric deposition of organic and inorganic particles from automobile use, along with a reduction in sediment sources through removal of existing eroding dirt trails. In the longer term, a fully integrated bicycle/pedestrian network is seen as a foundational element to implementation of the Regional Plan, resulting in reduced coverage and improved watershed functioning.
16	Alpine Watershed Group	Grover Hot Springs State Park Meadow Restoration and ADA Access	R	The meadow within Grover Hot Springs State Park is a critical natural reservoir that sustains late season flow in the East Carson River. The park is important to the economy of Alpine County and is a popular local and tourist attraction. A poor trail system and social trailing has de watered and introduced weed into large areas of the meadow. This project will develop 1900' of elevated ADA trail along with an accessible platform, improve 1,000 of existing trails, convert 9000' of abandoned road to trail, and remove 4,400' of select trails that impact the meadow. Weeds introduced by social trailing will be removed. An ADA accessible interpretive / educational areas will be developed.
17	Friends of Squaw Creek	Lower Squaw Creek Restoration Project	R	The Squaw Creek Restoration Preliminary Design Project will improve water quality and aquatic habitat by restoring critical hydrologic, geomorphic and ecological functions and processes to develop an integrated solution for approximately 1.8 miles of Squaw Creek. The stream and meadow have been negatively impacted by past land-use and channel modifications. The project will build on existing conceptual designs to restore the channel functions to its natural condition by reconnecting relict channels, improving channel alignment, improving connectivity between the creek and floodplain; increasing water storage capacity through ponds, wetlands and floodplain storage; addressing bank erosion and failing rip-rap with biotechnical stabilization features; and developing instream aquatic habitat enhancements.
18	California Tahoe Conservancy	Upper Truckee River and Marsh Restorations	R	The California Tahoe Conservancy (Conservancy), Bureau of Reclamation (Reclamation), and Tahoe Regional Planning Agency (TRPA) are pursuing a restoration project along the most downstream reach of the Upper Truckee River (UTRM), at the mouth of Lake Tahoe. The UTRM Restoration Project is identified in TRPA's Environmental Improvement Program (EIP) as a project that is necessary to restore and maintain environmental thresholds, including water quality for the Lake Tahoe Basin. The 592-acre study area is located in South Lake Tahoe, California. It consists of parcels owned by the Conservancy and private landowners. The primary purpose of the UTRM Restoration Project is to restore natural geomorphic processes and ecological functions along this reach of river while providing recreation access. The project will reconnect the UTR to the wetlands and floodplains and so remove sediment and other suspended particles by allowing sediment-laden water to pass through densely vegetated floodplains and wetlands.
19	Lukins Brothers Water Company, Inc.	Meter Conversion	W	On October 11, 2009, the California State Assembly passed Assembly Bill (AB) 975, which among other things, requires all water companies with 500 service connections or more to convert to water meters by year 2025. The California Public Utilities Commission modified its code Section 781 to reflect this law. Of Lukins 962 current customers, only 62 have meters. Lukins meter conversion program is to install new water meters at 900 service locations. Lukins Water is a privately owned water utility. This disqualifies Lukins from the majority of available grant funding, leaving the burden of infrastructure upgrades primarily on the ratepayers.
20	Lukins Brothers Water Company, Inc.	Waterline Replacement 2a	W	Phase 1 of Lukins 11 Phase Waterline Replacement Project will be completed in summer 2014. Phase 2a is design engineering and installation of 5,521 feet of 12" water main, 915 feet of 6" waterlines, and 14 fire hydrants. Replacing existing 2" and 4" waterlines. Lukins Water is a privately owned water utility. This disqualifies Lukins from approximately 90% of available grant funding, leaving the burden of infrastructure upgrades primarily on the ratepayers. Any grant funds will relieve the burden from ratepayers.
21	Lukins Brothers Water Company, Inc.	Waterline Replacement 7a	W	Phase 1 of Lukins 11 Phase Waterline Replacement Project will be completed in summer 2014. Phase 7a includes design and engineering and construction of 5746 feet of 8" waterline. This project is in the surrounding vicinity of Phase 1, and will replace a large portion of failing infrastructure. This area has the highest recorded number of leaks in our water system. Lukins Water is a privately owned water utility. This disqualifies Lukins from approximately 90% of available grant funding, leaving the burden of infrastructure upgrades primarily on the ratepayers. Any grant funds will relieve the burden from ratepayers.
22	Alpine County	Markleeville Creek Floodplain Restoration Project	R	The project will 1) restore the natural stream channel and floodplain to improve geomorphic function and reconnect the stream to its historic floodplain, and 2) relocate and replace aging sewer infrastructure in the floodplain to reduce the threat of water quality impairments from flooding and sewer leaks, and 3) provide public access and recreations features including walking trails and interpretive signage.

Appendix 6-B-7: Project Descriptions

Project Number	Agency/ Organization	Project Title	Project Type ^(a)	Project Description
23	South Tahoe PUD	Mountain View Well Ground Water Protections	W	STPUD performed a conditions assessment in 2012 of all water infrastructure. The Mountain View Well was identified in this assessment as needing extensive wellhead protection and rehabilitation. The well structures and appurtenances have exceeded AWU Useful Life and will need to be updated. The updates would include replacement piping, casing, screens, etc. In addition, the wellhead protection necessary at this well will also protect the groundwater resources.
24	Town of Truckee	Town of Truckee Stormwater Management and Retrofits	SW	The goal of the project is to improve stormwater quality and the water quality of our rivers, streams, and lakes through installation of drainage treatment on roadway and pedestrian improvement projects along existing legacy sites along the Truckee River Corridor. The project will also incorporate public education and outreach on stormwater pollution and ways to prevent pollution. Areas located within the Truckee River Corridor watershed including the Downtown/Brickelltown area, neighborhoods and roadways that border the Truckee River were constructed prior to current stormwater drainage standards. Implementation of the Truckee River Water Quality Monitoring Plan has helped identify high priority areas and subwatersheds. Additional post-project monitoring will be included in the projects to help guide and refine future project BMP and LID standards in the area. As of 2013, the Town has 11 retrofit projects within the Truckee River Corridor that will install various stormwater improvements as part of a larger project. All of these projects can be done separately and the order of implementation does not matter. The stormwater improvements will only be done as part of the larger project as the stormwater improvements depend on other factors such as existing drainage system tie-ins or replacement or repair, re-contouring existing drainage patterns, etc. that are not efficient to be completed without the entire project being implemented. Retrofit projects include: Glenshire Drive bike lanes and reconstruction, Mousehole, Avery Hotel, West River Street Bike Lanes and Reconstruction, Donner Pass Road Safety Improvements, Brickelltown Streetscape, Annual Paving and Drainage project, Riverview Corp Yard, Old County Corp Yard, and Donner Pass Road/Bridge Street/West River Intersection.
25	South Tahoe PUD	Tahoe Keys Force Main Bypass	W	This project is the protection of natural resources by the relocation of the current Tahoe Keys Wastewater Force Main with a bypass project that will help to alleviate any sewer overflows and the resultant contamination.
26	Tahoe Resource Conservation District	Regional Aquatic Invasive Species Prevention, Control and Monitoring	R	Aquatic Invasive Species (AIS) pose an ever-increasing threat to the health of our Nation's and region's ecosystems, and in turn can have a direct negative effect on local economies. Thousands of AIS have been dispersed or transplanted across the globe by humans. These species arrive in the ballast or on the hulls of ships, through the movement of shellfish and bait, by the opening of new channels or canals, through intentional release, and other vectors. Much of the ongoing spread of AIS to inland waters throughout North America can be attributed to the overland movement of trailered watercraft. Additionally, spread of AIS can occur by way of fishing gear such as footwear, bait and tackle equipment. Once established, they can change ecosystems, reduce native biodiversity and impact local economies. This regional project will implement 3 critical components of Aquatic Invasive Species (AIS) measures. Prevention includes watercraft inspection; Control includes removal of existing AIS; and Monitoring includes status and trend detections of expanding or new infestations. All components include education and outreach. These programs and projects are implemented by a diverse partnership of entities from federal, state and local government, private citizens and business, and nonprofit organizations.
27	Tahoe Resource Conservation District	Small-scale Testing of Micro Stormwater Infiltration Systems	SW	Recent analysis of LiDAR data and other remotely sensed data has identified a potential to develop stormwater detention and infiltration areas based on small-scale patterns of land topography. This information makes it possible to identify the volume of Micro Stormwater Infiltration Systems (MSIS) achievable by small and simple modifications to existing depressions in the landscape (LID). MSIS have the potential to infiltrate urban stormwater and reduce inputs of nutrients and sediments to Lake Tahoe, a key goal of the Lake Tahoe TMDL. This project aims to identify suitable basins in two urban communities for small-scale testing, implement LID to improve urban stormwater retention on selected basins, and evaluate their ability to retain key pollutants.
28	Tahoe Resource Conservation District	Groundwater Monitoring to support nearshore management	R	This study will explore relationships between the rate of groundwater discharge, nutrient content, and the density of nuisance species including AIS, periphyton, and algae to help inform related planning activities. This project will use natural temperature fluctuations to quantify groundwater discharge at specific locations in the near-shore zone in Lake Tahoe. Vertical arrays of temperature loggers will be installed in the upper 2 meters of sediment at 10 to 20 sites. The loggers will record the temperature at 4 depths with hourly precision. Analytical models of heat transport and fluid flow will be used to calculate groundwater discharge rates. Groundwater samples will be collected at each site and analyzed for nutrient content and estimates of nutrient influx will be modeled.
29	Tahoe Resource Conservation District	Regional Landscape Conservation Measures for Lake Tahoe	W	Regional Landscape Conservation program for the Tahoe RCD that includes implementing erosion control, native and fire-wise landscaping, fertilizer management, invasive weed management, and collection of water conservation measures including water harvesting technologies. Educational materials and stewardship opportunities will be used to outreach to the California side of the Lake Tahoe Basin. Additionally, this project will work cooperatively and complementarily to the South Tahoe PUD's Regional Water Conservation Project and is intended in this way to increase water conservation efforts in the region.

Appendix 6-B-7: Project Descriptions

Project Number	Agency/ Organization	Project Title	Project Type ^(a)	Project Description
30	Tahoe Resource Conservation District	Analyzing LiDAR data to identify Micro Stormwater Infiltration Systems (MSIS) for the whole Lake Tahoe Basin	SW	Recent analysis of LiDAR data and other remotely sensed data in Incline Village, South Lake Tahoe, and Tahoma has identified a potential to develop stormwater detention and infiltration areas based on small-scale patterns of land topography. This information makes it possible to identify the volume of Micro Stormwater Infiltration Systems (MSIS) achievable by small and simple modifications to existing depressions in the landscape (LID). MSIS have the potential to infiltrate urban stormwater and reduce inputs of nutrients and sediments to Lake Tahoe, a key goal of the Lake Tahoe TMDL. This project aims to analyze LiDAR and other remotely sensed data to identify MSIS for the entire Tahoe Basin. This data can overlaid with urban stormwater infrastructure GIS layers to determine hydrologic connectivity in select urban catchments.
31	Tahoe Resource Conservation District	Regional Stormwater Monitoring Program	SW	This project was developed to provide a sound structure for a Regional Stormwater Monitoring Program (RSWMP) and perform catchment-scale stormwater monitoring, modeling validation, and load estimation to meet TMDL requirements in the Lake Tahoe Basin. Implementation of RSWMP includes an administrative structure, execution of protocols developed for effective urban stormwater monitoring in different locations, and a stormwater database to house monitoring data. These funds would be used to further develop the RSWMP program, continue much needed status and trend monitoring for the Lake Tahoe Watershed, and provided the needed funds to complete a Regional stormwater database available to researchers and the public.
32	Town of Truckee	Trout Creek Trail	SW	The Trout Creek Trail will connect the Tahoe Donner Subdivision (over 6,500 properties) in the northern side of Truckee to the Downtown urban area, provide recreational opportunities, and alternative transportation opportunities. The trail will consist of 2 phases and a connection to an existing Class 1 trail for a total trail length of over 8,000 linear feet. Both phases are currently in the design stages. Phase 1, from Bridge Street in Downtown will connect to the intersection of Euer Valley Road and includes a connection to the existing Class 1 trail to Pioneer Center. Phase 2 will include the section from Northwoods Blvd. to Euer Valley Road. The proposed trail will follow Trout Creek, provides increased opportunity for tourism and recreation. It also protects, conserves and restores physical, cultural, archaeological, historical and living resources, assists the local economy, and enhances public use and enjoyment of lands owned by the public. The trail is included in the Truckee's Trails and Bikeways Master Plan.
33	Town of Truckee	Trout Creek Restoration	R	The Trout Creek Restoration Project would restore 5 reaches of Trout Creek between the Union Pacific Railroad property located immediately north of the Truckee River and the culvert that travels under Interstate 80 north of Jibboom Street. Reaches 2 and 3 are complete. Construction of Reach 1 would remove the existing concrete channel that travels between Donner Pass Road and Jibboom Street adjacent to property owned by the Truckee Donner Recreation and Park District and the Assumption Catholic Church. Construction of the first phase of Reach 1 (between Donner Pass Road and School Street) is planned to occur in Summer 2014. Reaches 4 and 5 run primarily through land that is planned to be developed through the Railyard Master Plan and will require the relocation of the Union Pacific Railroad balloon track. Construction of these reaches (as well as Phase 2 of Reach 1) is dependent on the availability of funding.
34	Town of Truckee	Truckee River Legacy Trail	SW	The Truckee River Legacy Trail will connect Donner Lake to the Glenshire Subdivision in the eastern side of Truckee. Three phases of the trail are complete (Phase 1, 2, and 3A). Phase 3B will be complete in 2014. Phase 4 and Phase 5 are still in the preliminary planning and design stages. The project provides increased opportunity for tourism and recreation. It also protects, conserves and restores physical, cultural, archaeological, historical and living resources, assists the local economy, and enhances public use and enjoyment of lands owned by the public.
35	Truckee River Watershed Council	Dry Creek Restorations	R	The Dry Creek restoration project involves restoration of streams and meadows in the Dry Creek watershed. A watershed assessment was completed in 2013 that outlined a Restoration Plan for the Dry Creek watershed.
36	Truckee River Watershed Council	First 4 Mile Restoration Project	R	The proposed project will protect and restore 1,000 lineal feet of stream bank, riparian and wet meadow habitat (and/or totaling up to 1.5 acres) along the Truckee River adjacent to highway 89S, previously disturbed by pedestrians recreating on the river and the bike trail, through directed access, signage, and restoration. As a result of restoration activities, the project will ultimately reduce sedimentation and erosion along the Truckee River. It will provide conservation and protection for approximately 1,000 lineal feet of river.
37	Truckee River Watershed Council	Johnson Canyon Restoration	R	Johnson Canyon (formerly known as Negro Canyon) is located in the Donner Lake watershed. The naturally erosive watershed has a long history of human use which has resulted in altered hydrology. TRWC and partners will implement restoration to reduce erosion, and improve water quality and habitat. Restoration actions include re-connecting disrupted drainages to restore natural hydrology, improving drainage on existing roads and trails, and revegetation as appropriate.
38	Truckee River Watershed Council	Lacey Meadows Restoration	R	Lacey Meadows is a large meadow complex in the Upper Little Truckee River drainage. Widespread disturbance throughout the watershed has resulted in altered hydrology, habitat degradation, and water quality impacts. Through the Lacey Meadows Assessment (TRWC, 2013), eight restoration and management recommendations were made to improve watershed condition. This Project Template includes three restoration projects from the assessment.

Appendix 6-B-7: Project Descriptions

Project Number	Agency/ Organization	Project Title	Project Type ^(a)	Project Description
39	Truckee River Watershed Council	Martis Watershed Restoration Plan Implementation	R	The Martis Watershed Assessment (TRWC, 2012) was undertaken to develop a comprehensive restoration plan for the Martis Creek watershed. The Martis Watershed Restoration Plan was included in the Assessment. Land ownership in Martis is complicated, and prior to completion of the assessment, natural resource management was uncoordinated and inefficient. By conducting the assessment, TRWC brought together diverse stakeholders for meaningful restoration. One large project is underway, however approximately 20 restoration opportunities were identified. This project template describes the benefits that would be achieved through completing the entire Restoration Plan. The work can be phased in numerous ways.
40	Truckee River Watershed Council	Non-native Invasive Plant Species	R	The project will assist in continuing to meet the goals of the Coordinated Watershed Management Strategy by maintaining the collaboration between Placer-Nevada WMA, USFS and the TRWC Weed Warrior program, in addition to treating non-native invasive plant species within approximately 200 acres of native habitat, over a three year period.
41	Truckee River Watershed Council	Truckee River Residential Voluntary BMP Implementation	SW	This project implement non-point source pollution control projects, i.e. BMPs, on residential properties in the middle Truckee River watershed in targeted sub watersheds identified by the TMDL as containing "controllable" levels of non-point source pollution. The overall goal of the program is to improve water quality and support implementation of the TMDL by assisting residential property owners in voluntarily reducing or preventing soil erosion in more established neighborhoods in the Middle Truckee River watershed. This project is an extension of the Truckee River Watershed Council's successful program, River Friendly Landscaping, which has already produced over 400 residential site evaluations in three years. This project facilitates a community and watershed scale approach to implementing strategies outlined in the Middle Truckee River TMDL to reduce sediment loads through the implementation of residential BMPs. Project staff will a total of 450 site evaluations over 2 years. TRWC will then work with homeowners to implement one third of completed site plans with an average of 5 BMPs per plan. This project will benefit water quality by directly reducing sediment loads in the Middle Truckee River, reducing the contribution to the TMDL. BMPs are a proven method to manage runoff and erosion from residential properties. By implementing BMP measures in prioritized residential neighborhoods, we will significantly reduce the sediment load into the Middle Truckee River. The Tahoe Basin Natural Resource Conservation Service (NRCS) has created a set of technical guides for stormwater infiltration BMPs for the Tahoe Basin. The Truckee River Watershed Council will use these guidelines to develop site plans for homeowners to control non-point source pollution, control erosion, and infiltrate stormwater. The Tahoe Basin NRCS BMPs are tailored to the region and are suited for the Middle Truckee River watershed. As stated in the TMDL, for the Middle Truckee River, the minimum efficiency of sediment traps, mulches and vegetative stabilization is 50%; the minimum is 99%. A typical list of BMPs utilized in the design plans will include armoring drip lines, stabilizing slopes, securing bare soil and retrofitting driveways to capture, convey and infiltrate runoff. The TRWC will work directly with homeowners to develop implementation plans.
42	Truckee River Watershed Council	TMDL Monitoring for the Truckee River	SW	Conduct water quality monitoring in support of the Truckee River Sediment TMDL. Monitoring consists of sediment and turbidity monitoring on three tributaries to the Truckee River and coordination with stations on the mainstem of the Truckee River. The program is essential for tracking progress against the Truckee River Sediment TMDL.
43	Truckee River Watershed Council	Truckee Wetlands Restoration	R	By restoring and partially reconnecting approximately 16 acres of fragmented wetlands, the project will improve habitat connectivity and diversity; increase peak flow attenuation; and significantly improve wetland functioning; expand meadow and native habitats; and create educational and recreational opportunities.
44	South Tahoe PUD	Regional Water Conservation Programs	W	Regional water conservation program for STPUD, NTPUD, and TCPUD that includes implementing water conservation measures such as turf removal; water saving appliance installation (commercial and residential); interior and exterior water audits for efficiency measures; and providing outreach and educational materials.
45	Town of Truckee	Water Quality Monitoring	SW	The proposed project will design and construct LID strategies in the Truckee Downtown/Brickelltown area and along West River Street. Downtown is located just north of the Truckee River and West River Street runs through Downtown, parallel to the Truckee River. These areas are high density mixed use and include many businesses and some residential and the streets are heavily sanded for safety in the winter. This area of the watershed has also been identified as a high priority area for water quality improvements in the TRWQMP. The LID strategies will include improvements to exposed dirt areas and treatment for road runoff such as vegetated swales, filter strips, rain gardens, bio-retention, grading, and adjacent parking area improvements. These improvements will be installed in conjunction with a larger project to repave and improve West River Street, although only the drainage and LID improvements will be applicable to this grant application.
46	South Tahoe PUD	Waterlines - Sierra Tract, Brockway, Black Bart	W	Project includes replacement of approximately 3,530 linear feet of water main with new 8-inch water main and associated water services, water meters, fire hydrants, water main connections, site restoration including landscaping and paving replacement, and appurtenances. The project has two benefits: replacing aging, leaking water infrastructure to preserve water supplies and increasing the fire protection capabilities at the site.

Appendix 6-B-7: Project Descriptions

Project Number	Agency/ Organization	Project Title	Project Type ^(a)	Project Description
47	Town of Truckee	West River Street Site Redevelopment and River Revitalization	R	This two-part project includes 1) the development of a the West River Street Parkway park providing recreational components and interpretive enhancements in Historic Downtown Truckee 2) overall revitalization of the Truckee River Corridor in Downtown Truckee. The park, located directly on the Truckee River, will include recreational components such as riverfront trail, plazas, picnic and barbeque areas, outdoor amphitheater, and shaded seating areas and will offer direct public access to the Truckee River on a site owned by the Town of Truckee. The Revitalization Project will revitalize underutilized lands, abate environmental degradation and redevelop the community's neglected waterfront consistent with the 2005 Truckee Downtown River Revitalization Strategy plan.
48	Town of Truckee	West River Street	SW	In 2008, the Town of Truckee together with Placer County developed the Truckee River Water Quality Monitoring Plan (TRWQMP) and has performed water quality monitoring at outfalls along West River Street and downtown which indicate high sediment loads are entering the Truckee River during rain events, likely due to accumulated abrasives that have been placed for decades, dirt areas with direct connection to the Truckee River, and legacy issues from the historic downtown area. This project proposes improvements to reduce sediment loads entering the Truckee River which is a sediment impaired water body. LID BMPs are proposed along the shoulders of West River Street and unpaved parking areas within the downtown area. Treatment improvements will be used whenever possible and may include a combination of LID strategies such as vegetated swales, filter strips, bio-retention areas, rain gardens, and adjacent parking area improvements as well as improvements to improve water quality such as sand traps and drain inlets with sumps.
49	Tahoe City PUD	West Lake Tahoe Regional Water Treatment Plant	W	The West Lake Tahoe Regional Water Treatment Plant project is the design, permitting, and construction of a permanent surface water treatment plant on the West Shore of Lake Tahoe utilizing Lake Tahoe as the water source. Water service along the West Shore of Lake Tahoe suffers from an inefficient, ineffective, disjointed, delivery system. Separate water systems were constructed subdivision by subdivision, and most are well over 40 years old, some dating back to the early 1900's. There are seven different water systems serving approximately 2,800 connections and none are in full compliance with current California Department of Public Health (CDPH) standards. Several are in violation of primary drinking water standards and others are in violation of secondary drinking water standards. All have source capacity issues for either their primary or back-up sources and there is a lack of adequate storage to meet fire suppression standards throughout the area. Due to the small numbers of connections in each system (most are under 500) these systems are significantly undercapitalized to meet today's drinking water standards. The West Lake Tahoe Regional Water Treatment Plant project will provide adequate water source to address these water supply needs on an integrated, regional basis. The project replaces an interim seasonal water treatment plant that TCPUD constructed in 2004. The interim plant has reached its useful life and needs to be replaced. The West Lake Tahoe Regional Water Treatment Plant provides a long-term solution to water delivery needs along the West Shore of Lake Tahoe and offers an integrated, regional approach to improving water quality and water delivery. The project includes design, permitting, CEQA compliance, public outreach and construction.
50	North Tahoe PUD	Carnelian Woods Tanks Site EIPs	R	This project includes the relocation of a portion of the existing unpaved access road and water transmission for the District's Carnelian Woods Water Tanks that are partially located within an SEZ, BMPs (including asphalt grindings) and revegetation of the existing access roads to the tank sites.
51	North Tahoe PUD	Dolly Varden Water Main Replacement Projects	W	Relocate and upsize approximately 4,500 linear feet of an under-sized, mid-block water main between Cutthroat and Dolly Varden to Dolly Varden Avenue from Chipmunk to State Highway 267, Chipmunk Street from Cutthroat to Speckled, and connection of new water main in Dolly Varden to Wolf to increase system reliability and reduce leakage.
52	North Tahoe PUD	Kingswood West Tank Site EIPs	R	This project includes the relocation of the existing 285 foot long, eroding access road to the District's Kingswood West Water Tank, BMPs and revegetation of the existing access road, and paving of the new access road with AC grindings.
53	Washoe Tribe of Nevada and California	Woodfords Community Wastewater Infrastructure Upgrades	W	Project includes replacement of 1200 linear feet of wastewater main with new main and evaluation of current wastewater treatment pond liner for possible replacement.
54	Washoe Tribe of Nevada and California	Woodfords Community Water Infrastructure Upgrades	W	Project includes replacement of approximately 600 linear feet of water main with new main and associated water services, updating meters, fire hydrants, water main connections, site restoration including landscaping and appurtenances. The project has two benefits: replacing aging, leaking water infrastructure to preserve water supplies and increasing the fire protection capabilities at the site.

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55	Squaw Valley PSD	Aquifer Monitoring	W	In 2007 the District, valley pumpers, and stakeholders established the Olympic Valley Groundwater Management Plan (Hydrometrics 2007). Goal No. 1 of the Olympic Valley GMP is to "Manage the Groundwater basin in a manner that provides a sustainable supply for current and future beneficial uses." Basin Management Objectives (BMO's) were developed to implement and track each of the plans stated goals. BMO 1.1, BMO 1.2, and BMO 3.3 identify aquifer monitoring as a key element in implementing the Groundwater Management Plan's (GMP) stated goals. Aquifer monitoring is required as a key element in management of a water basin in the California Water Code Section 10753.7 (a) (4). Monitoring of all pumping wells in the Truckee River watershed is also a requirement under the Truckee River Operating Agreement (TROA), reporting under TROA is expected to begin within the near future, perhaps in several years. The goal of this project is to assess the monitoring requirements of each of the valleys pumping wells, evaluate the cost to outfit wells with metering equipment and level monitoring equipment, and ultimately to monitor pumping wells and gather that data for the purpose of populating the Olympic Valley GMP Database. Pumping wells may be retrofit with water meters that may be read by the District's Automated Meter Reading (AMR) system. Tracking pumping and aquifer level monitoring will ultimately provide data to update the basin groundwater model on a routine basis and to implement BMO 1.2 " Minimize draw down and maximize use of basin storage", and BMO3.1 to "Protect the structure and hydraulic characteristics of the groundwater basin by avoiding withdrawals that cause subsidence."
56	Squaw Valley PSD	Squaw Valley Mutual Water Co. Intertie	W	The citizens of Olympic Valley, California receive drinking water from two separate and independent water suppliers. The Squaw Valley Public Service District (SVPSD) and the Squaw Valley Mutual Water Company (SVMWC) are investigating a joint project to inter-tie the two water systems. The inter-tie, when complete, will allow the two water suppliers a backup water source in case of emergency or natural disaster. A redundant water supply is an essential and proven method of ensuring a safe and reliable water supply. Public water systems have long been encouraged to utilize inter-ties to achieve public health and resource management objectives and have become a standard among water purveyors. The interconnection of water supply systems is recommended in the California Water Code section 10631. Interconnections of public water systems through interties provide a valuable tool to ensure reliable public water supply for each agency's customers. The community benefit from water system interconnections are mutual and prepares the common constituency for emergencies. System failure of either system can easily dictate the need for one agency to support the other by supplying potable water. Other circumstance may also trigger the need to temporarily provide water, such as planned maintenance, repair, rehabilitation, relocation, power outages, convenience, and contamination. The two water suppliers in Squaw Valley both draw water from the Squaw Valley Aquifer. The SVPSD is pursuing a redundant water supply project to obtain water from another source outside the Squaw Valley Aquifer; the interconnection project when completed would give the SVMWC access to that source of supply when it becomes available.
57	Squaw Valley PSD	Squaw Creek Siphon	W	Squaw Valley PSD had in operation 3 sewage treatment plants until 1976 when the Tahoe-Truckee Sanitation Agency was formed, a regional treatment facility located in Truckee, California. A trunk pipeline was constructed along the Truckee River in 1976 to convey sewage from Tahoe City along with Squaw Valley and Alpine Springs. A leg of the pipeline, the Squaw Valley Interceptor was extended across Squaw Creek to serve the Winding Creek Subdivision eliminating the Aspens Sewer Treatment Plant. The pipeline crossing under Squaw Creek is known as the Squaw Creek Siphon which is presently 38 years old and being considered for replacement near term (2 years). The Squaw Creek Siphon is a 6" diameter ductile iron pipe approximately 310 feet in length conveying sewage from about 270 homes. The project is in the planning stage at this time with a dewatering/ television inspection and corrosion assessment phase of the pipeline project slated for fall 2014. The District did an inspection of the Truckee River Siphon in the fall of 2013 and found that segment of pipeline to be in poor condition; both siphons were installed under the same construction contract. The Squaw Creek Siphon is a highly technical project requiring extensive environmental analysis and permitting to perform a water way crossing. Squaw Creek is an impaired water body USEPA 303 (d) listing and as such will engender scrutiny from permitting agencies such as the Lahanton Region WQCB and Fish and Game. Sewer flows from 270 homes will have to be bypassed to make intertie connections to the new pipe segment and not a drop may be spilled. The District expects to be ready to construct the project in 2015 or 1016.
58	Squaw Valley PSD	Truckee River Siphon	W	The Squaw Valley Public Service District operates the sewer collection system for all of Olympic Valley. Collector lines convey sewage to the Squaw Valley Interceptor a trunk sewer that terminates at the T-TSA interceptor on the east side of the Truckee River. Prior to its terminus the Squaw Valley Interceptor crosses under the Truckee River through a 10" siphon. The Squaw Valley interceptor was installed in 1976 and is 38 years old; the line is expected to last 50 years or more, however a recent inspection shows the pipe to be heavily corroded and missing much of the interior coating. Additional investigations are being considered to determine the condition and remaining service life, however: Squaw Creek and the Truckee River are highly sensitive environmental treasures, waters of the Truckee supply drinking water to the citizens of Reno and beyond terminating at Pyramid Lake. It is imperative that these waters be protected and that every effort is expended to prevent a major pollution event from happening. Therefore, District engineers have determined it is in the best interest of the District and community at large to install a second and redundant pipeline across and under the Truckee River. The Truckee River Siphon is a 10" diameter ductile iron pipe approximately 400 feet in length conveying sewage from all of Olympic Valley. The Truckee River Siphon is a highly technical project requiring extensive environmental analysis and permitting to perform a water way crossing. The District expects to be ready to construct the project in 2015 or 1016.

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59	Squaw Valley PSD	Well 3 Replacement	W	SVPSD Well 3 was drilled in 1958 in preparation for the 1960 Winter Olympic Games and is currently 56 years old. The well was dedicated to the District in 1974 as part of the water system conveyed to the District by the State of California. Well No. 3 originally produced 340 GPM, however the well was found to produce sand when operated above 130 GPM, so for many years the well was throttled by means of a butterfly valve installed in the main well house. The well was rehabilitated in 1988 and again in 1997 due to failure of the pump and motor from sand production and corrosion. A leaking underground fuel storage tank (UST) was found adjacent to the well in 1998 and the well was monitored for contamination extensively over the following decade because it does not have a sanitary seal. In order to facilitate the District's pumping plan that is being prepared as part of the Squaw Valley Creek Aquifer Study and to meet the Squaw Valley Groundwater Management Plan practices, the well must be outfitted with a new motor that can be operated by a Variable Frequency Drive (VFD) that has already been installed as part of another project. The VFD will allow the well to be pumped in concert with other wells in the pumping plan which will ultimately minimize pumping impacts on Squaw Creek. Well 3 is in need of rehabilitation but given the age of the well and its proximity to a known contaminate plume it is deemed prudent to replace the well. A properly designed replacement well should be capable of producing at original capacity or greater without producing sand. The District has prepared plans and specifications for the project, which is shovel ready pending a source of funding.
60	Squaw Valley PSD	Redundant Water Supply	W	The Squaw Valley Public Service District (District) is actively pursuing a project to procure redundant and supplemental water supplies for future reliability and beneficial uses of our constituents. In September 2009, the District completed the Alternative/Supplemental Water Supply and Enhanced Utilities Feasibility Study. The purpose of the study was to determine potential project "fatal flaws" and it investigated the feasibility of importing water supplies from outside District boundaries. The Study concluded that the feasibility of the project was apparent based on the available water supply from the Martis Valley; desire of local water purveyors to work with the District on the project; potential transmission main corridors within the Highway 89 corridor and USFS rights of way; there being no major environmental fatal flaws; and interest from natural gas and communications providers in the area partnering with the District to create a utility corridor to provide these services to the Valley and others along the alignment. Phase II of the project titled the Preferred Alternative Analysis is currently moving forward in concert with Placer County's Truckee River Access and Bike Trail Project. Phase II will consist of an alternatives analysis, preliminary design, and updated feasibility study to include cost estimates and a public outreach program. Phase III of the project, the subject of this project description, is the environmental compliance and permitting stage of the project with construction of the terminal tank. The terminal tank will, in the short term, provide system balancing to mitigate the 3 mile distance from the West Tank and enhance fire flows in eastern Olympic Valley. The installation of a utility corridor along the Truckee River would require compliance with CEQA, Clean Water Act Section 401 and 404, Federal and California Endangered Species Act and California Fish and Game Code Section 1600A.