

Water Quality Report Card	
Regional Water Board:	Lahontan, Region 6
Beneficial Uses Affected:	COLD, SPWN, REC-1, REC-2, WILD, MIGR, and COMM
Implemented Through:	MS4 Storm Water Permit, Waste Discharge Requirements (WDRs)
Effective Date:	July 2007
Attainment Date:	2027

Sediment in Squaw Creek		
STATUS	<input type="checkbox"/> Conditions Improving <input type="checkbox"/> Data Inconclusive <input checked="" type="checkbox"/> Improvement Needed <input type="checkbox"/> Targets Achieved/Water Body Delisted	
Pollutant Type:	<input type="checkbox"/> Point Source <input checked="" type="checkbox"/> Nonpoint Source <input checked="" type="checkbox"/> Legacy	
Pollutant Source:	Erosion/Siltation	Hydromodification
	Construction/Land Development	Urban Storm Water Runoff
	Recreation and Tourism (non-boating)	

Water Quality Improvement Strategy

Squaw Creek, located in Placer County, is listed on the Clean Water Act Section 303(d) List as impaired due to sedimentation/siltation from historic and current watershed disturbance associated with land use and development. Land uses in the Squaw Creek Watershed are primarily ski facilities, commercial and residential developments, and related infrastructure. To address the sediment/siltation impairment in the Creek, the Lahontan Regional Water Board completed the [TMDL for sediment in Squaw Creek](#), which became effective in 2007. The TMDL is implemented through individual Waste Discharge Requirement (WDR) permits (regulating responsible parties: Squaw Valley Ski Corporation, Squaw Valley Neighborhood Company, and [Squaw Creek Associates](#)), and a Municipal Separate Storm Sewer System (MS4) Permit (regulating [Placer County](#)). In 2009, these responsible parties entered into a cooperative agreement to jointly pursue efforts to implement the sampling and analysis requirements of the TMDL. A Biological Condition Score (BCS) is used to track conditions in the watershed over time. Data for the TMDL is currently reported in the Placer County/Town of Truckee, [Truckee River Water Quality Monitoring Annual Reports](#) (January 2011-2018).

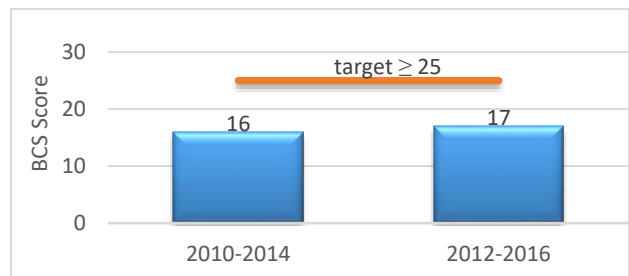
Biological Condition Score (BCS)

Biological Condition Score (BCS) is an index of the condition of aquatic communities based on seven biological metrics. It is calculated by averaging scores from three sampling locations during one sampling event on Squaw Creek (Upper, Middle, and Lower Meadow). Sampling events occur every two years, and three consecutive BCS scores are averaged to calculate each three-event rolling average. The biological condition target will be met when the rolling average for three consecutive BCS meet or exceed 25.

TMDL Targets

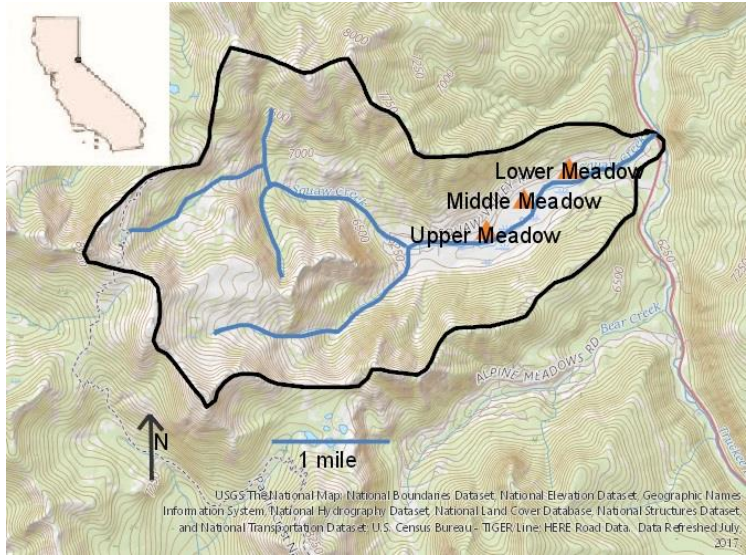
Biological Condition Score (BCS)	3-event rolling average ≥ 25
Sediment Median Particle Size	≥ 40 mm
Percent fines and sand (particle size < 2 mm)	$\leq 25\%$ fines and sand

Squaw Creek BCS



The TMDL target for BCS 3-event rolling average is to meet or exceed a score of 25 when flows are continuous.

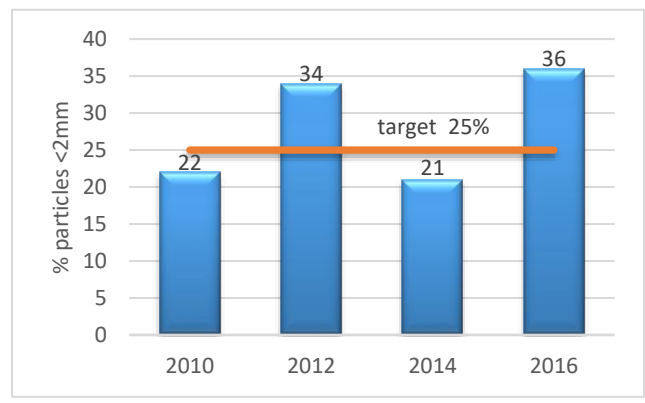
Squaw Creek Watershed



Water Quality Outcomes

- Biennial sampling started in 2010, giving only two rolling averages to assess the biological health of the watershed using BCS. The available data show continued impairment with a slight improvement (an increase from 16 to 17) which does not meet the BCS target of 25.
- There is no noticeable trend in the median particle size or the percent fine particles less than 2mm.
- Attainment of TMDL: Estimated time frame for meeting the target and achieving the TMDL is 20 years.

Percent Particles (<2mm) in Squaw Creek



The TMDL target for percent fines and sand (% particles < 2 mm) is a decreasing trend approaching 25 percent within the meadow reach.