

# King County DNRP Water Quality Index

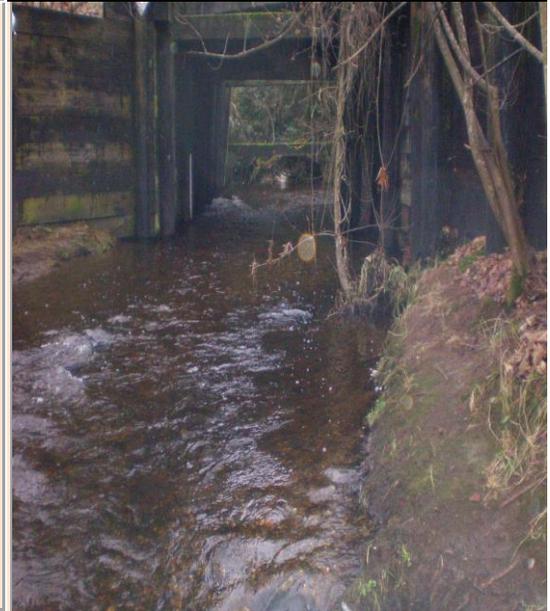
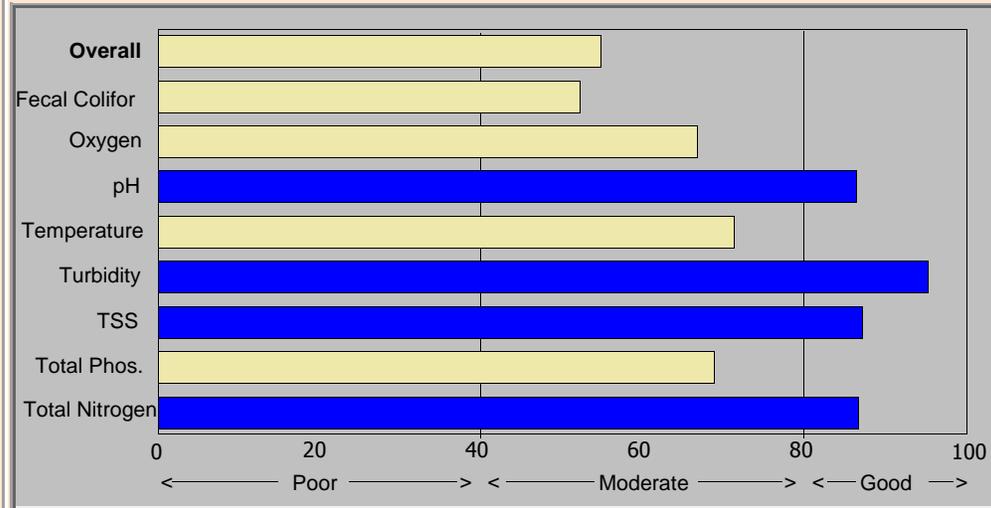
STATION **N484** WATER YEAR **2014**

**GAUGE # 02g Cottage Lake Creek at Avondale RD NE, Bear-Evans Wa Overall Index 55**

Station N484 is located on Cottage Lake Creek at the downstream side of the bridge on Avondale Road (near NE 151st Street). Monthly water quality samples were collected on Cottage Lake Creek from 1974 to 2008. In February of 2013, regular monthly monitoring resumed. The basin is 8,000 acres, with 6.7 miles of stream length which flow into Bear Creek. In 2007 King County observed statistically significant increasing trends for water temperature, conductivity, total nitrogen, nitrate nitrogen, and total phosphorous and decreasing trends for dissolved oxygen over a 34 year period. These trends are unsurprising given the dramatic development within the basin in the past 50 years and are found in most WRIA 8 streams. A significant reduction in water quality in the Cottage Lake Creek could threaten its high aquatic habitat and salmonid diversity.

## Annual Water Quality Index Scores

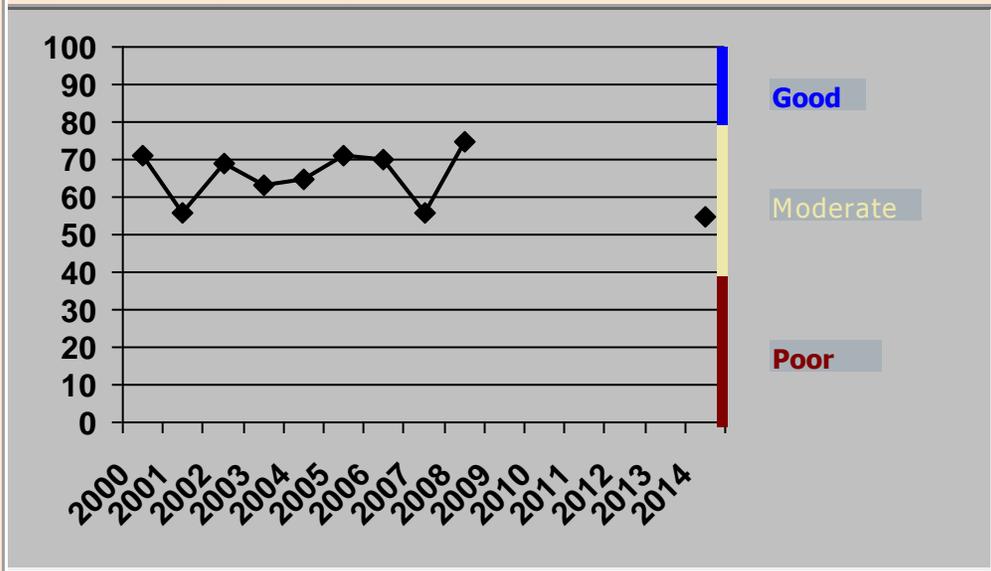
Water quality was MODERATE based on data collected 10/1/2013 to 9/30/2014.



## Monthly Scores For Water Year 2014

Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
92	84	66	88	86	71	90	70	92	65	34	79

## WQI Score Comparison By Water Year



## About The Water Quality Index:

The Water Quality Index (WQI) score is a unit-less number ranging from 10 to 100: the higher the number, the higher the water quality. Scores are calculated from data collected during the monthly routine sampling. For temperature, pH, fecal coliform bacteria, turbidity, and dissolved oxygen, the index expresses results relative to levels required to maintain beneficial uses according to criteria in Washington's Water Quality Standards, WAC 173-201A. For nutrient and sediment measures where there are no standard, results are expressed relative to guidelines for this eco-region. Results from the eight parameters are aggregated over time to produce a single score for each sample station. In general, stations scoring 80 and above did not fail water quality standards or guidelines and are of "low concern", scores 40 to 80 indicate "moderate concern", and water quality at stations with scores below 40 are of "high concern". For more information about the WQI please visit <http://green.kingcounty.gov/WLR/Waterres/StreamsData/WQI.aspx>

For more information about this creek please visit our website at <http://green.kingcounty.gov/WLR/Waterres/StreamsData/streamlist.aspx>