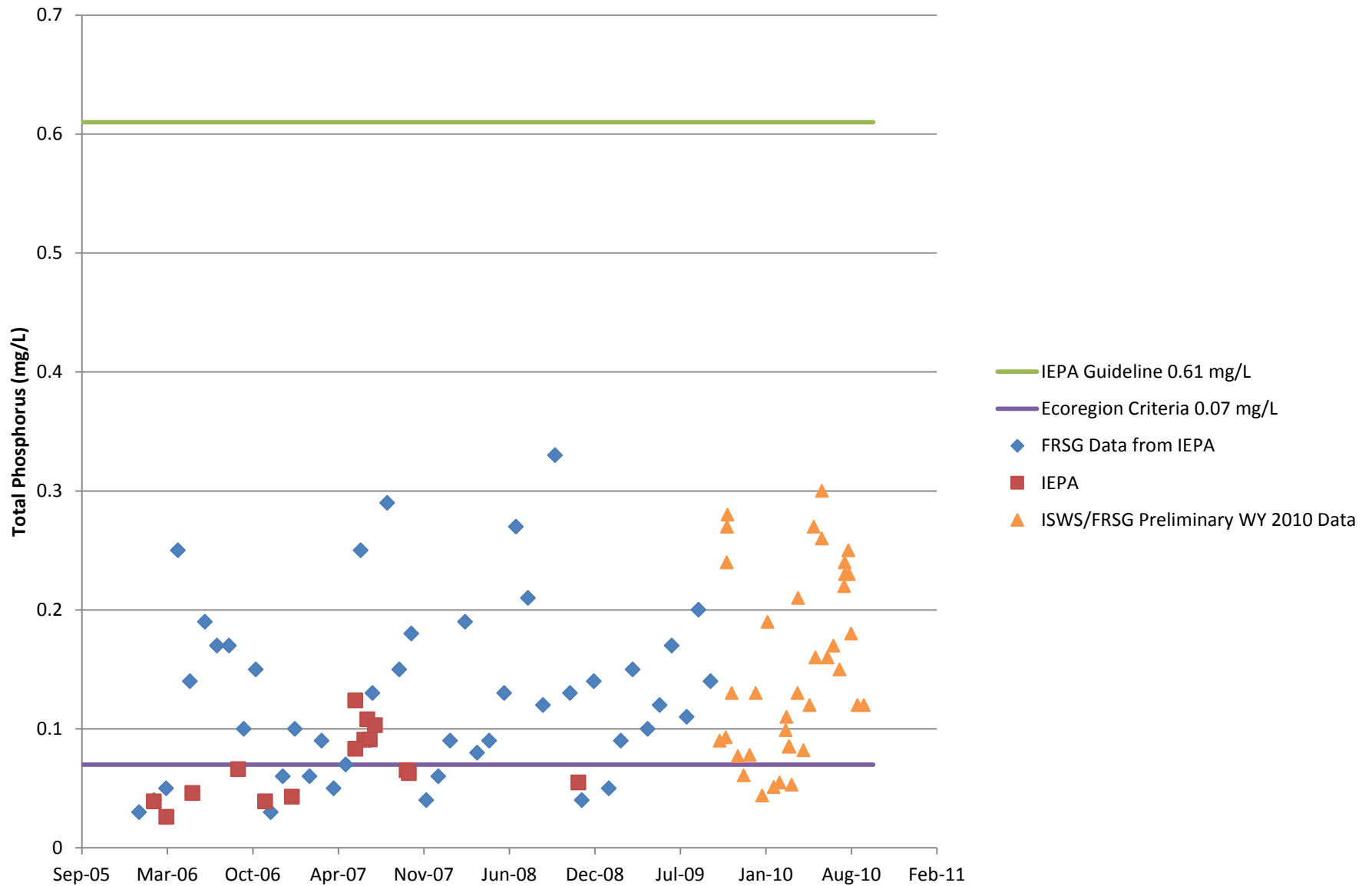
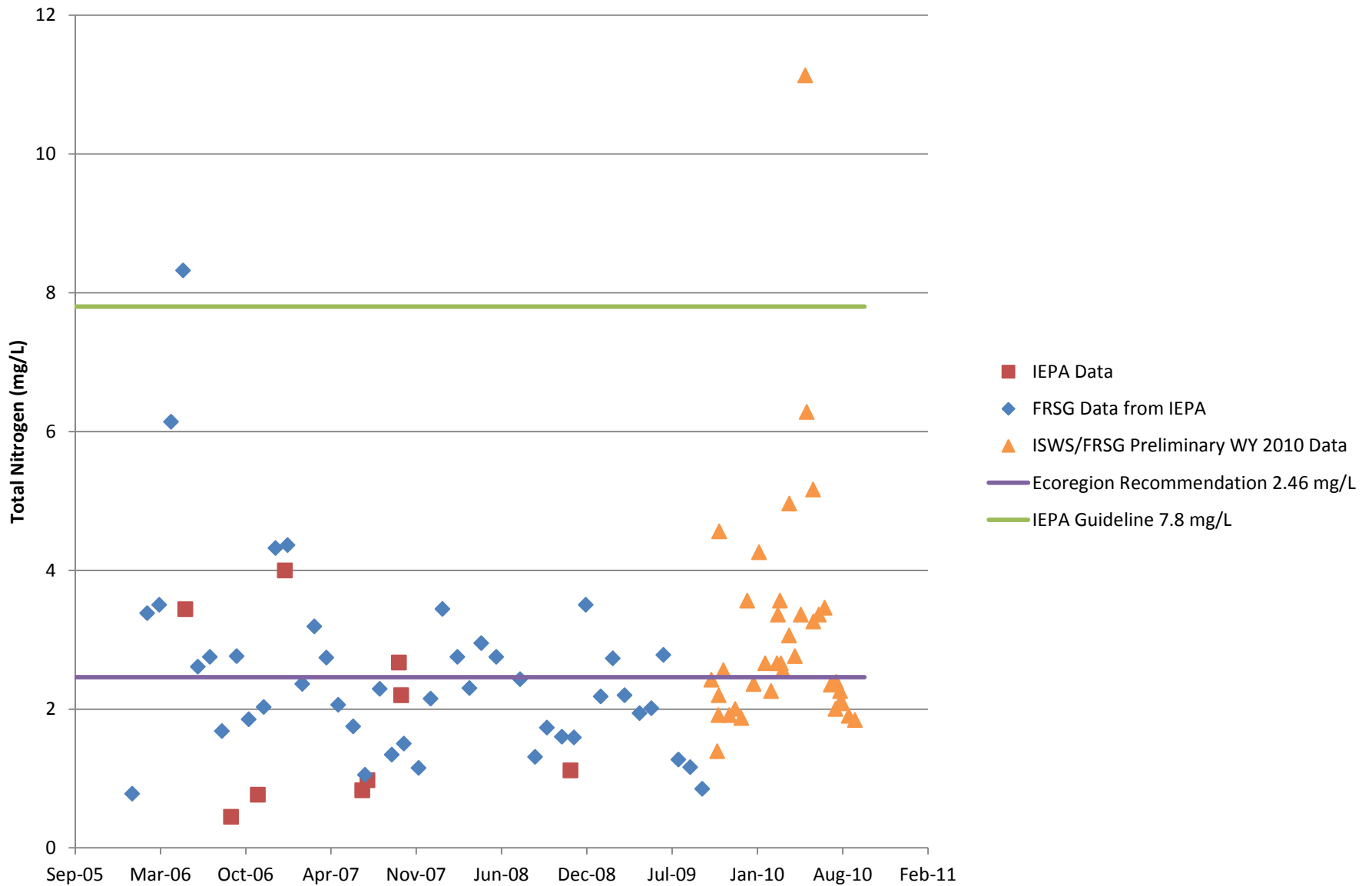


Blackberry Creek Available Data Total Phosphorus



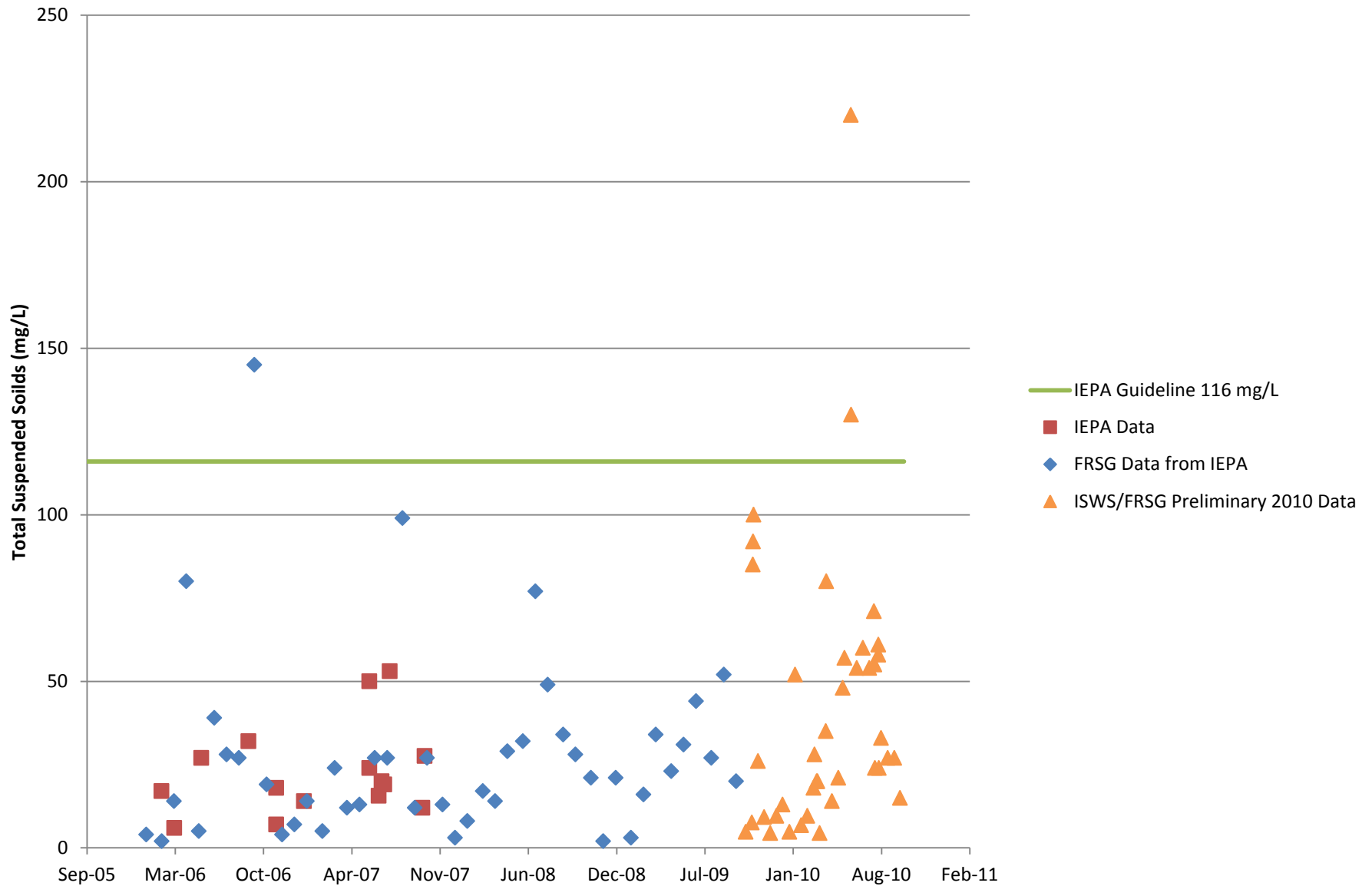
Blackberry Creek Available Data

Total Nitrogen



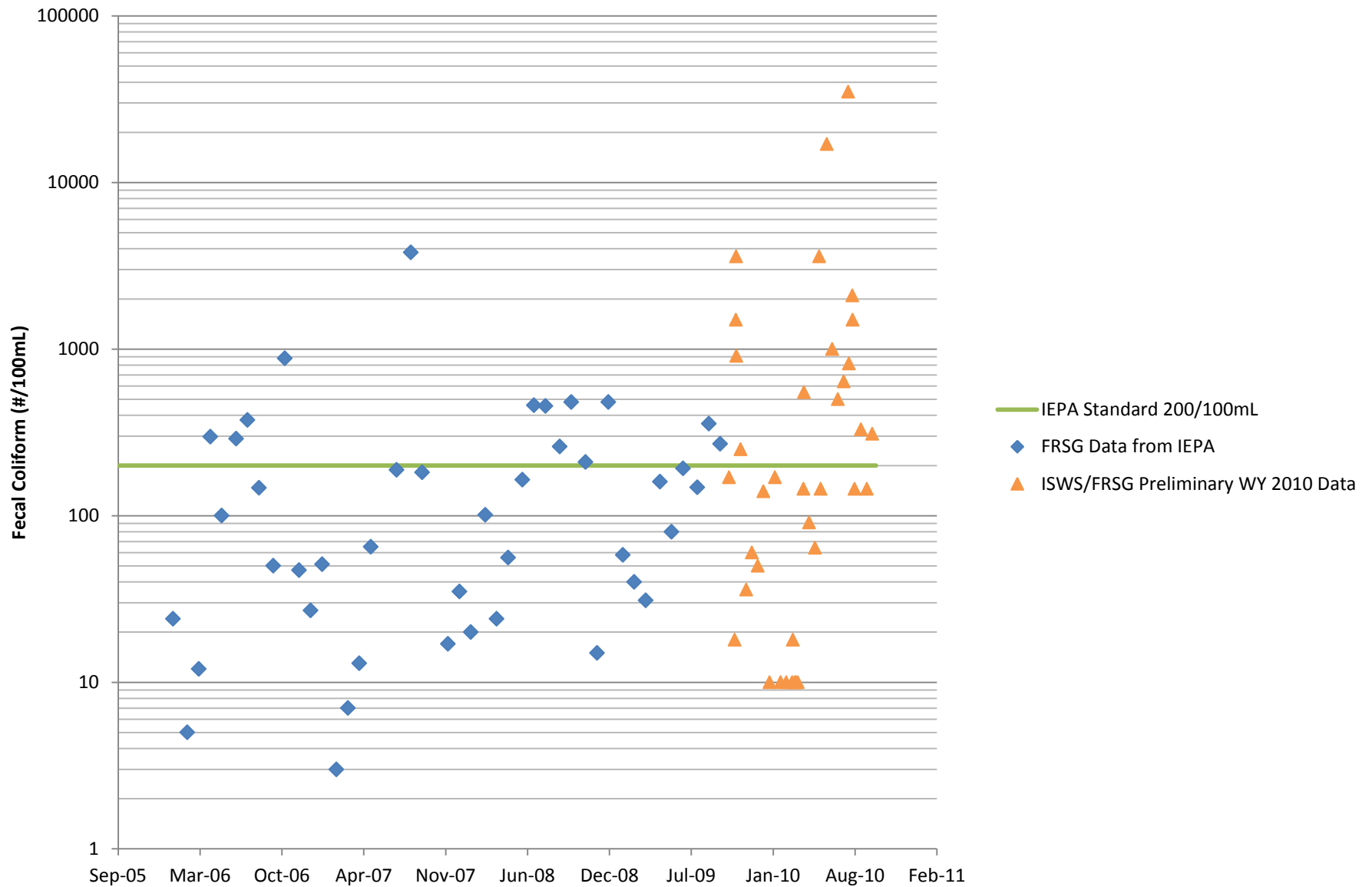
Blackberry Creek Available Data

Total Suspended Solids



Blackberry Creek Available Data

Fecal Coliform



Total Dataset

Pollutant	Flow Weighted Mean Concentration	Recommended Goal	% Reduction Needed
TN	2.82 (mg/L)	2.46 (mg/L)	13%
TP	0.19 (mg/L)	0.61 (mg/L)	-----
TSS	32.12 (mg/L)	116 (mg/L)	-----

Fecal Coliform, 2010 Designation

Table C-17. Guidelines for Identifying Potential Causes of Impairment of Primary Contact (Swimming) Use in Illinois Streams and Inland Lakes.

Potential Cause	Basis for Identifying Cause - Numeric Standard ¹
Fecal Coliform	Geometric mean of at least five fecal coliform bacteria observations collected over not more than 30 days during May through October >200/100 ml or > 10% of all such fecal coliform bacteria observations exceed 400/100 ml or Geometric mean of all fecal coliform bacteria observations (minimum of five samples) collected during May through October >200/100 ml or > 10% of all fecal coliform bacteria observation exceed 400/100 ml.

1. The applicable fecal coliform standard (35 Ill. Adm. Code, 302, Subpart B, Section 302.209) requires a minimum of five samples in not more than a 30-day period. However, because this number of samples is seldom available in this time frame the criteria are also based on a minimum of five samples over the most recent five-year period.

	Actual	IEPA Impairment Standard	Reduction Needed
Geometric Mean	242	200	17%
% of Samples > 400/100 mL	24%	10%	58%

Regression Analysis

Pollutant	r^2
Total Nitrogen	0.03
Total Phosphorus	0.22
Total Suspended Solids	0.02
Fecal Coliform, May thru October, All Available Data	0.002
Fecal Coliform, May thru October, samples over 400/100mL	0.01

Flow-Weighted vs. Time-Weighted Mean Concentrations

Pollutant	Flow Weighted Mean Concentration (mg/L)	Time Weighted Mean Concentration (mg/L)
Total Nitrogen	2.82	2.53
Total Phosphorus	0.19	0.12
Total Suspended Solids	32.12	28.35

If the Flow-Weighted Mean Concentration is greater than the Time-Weighted Concentration, that pollutant, on average, increases with increasing flow.