log10 TKN (mg/L) 1.0 MDC = 18% MDC = 26% MDC = 19% 1.5 % Var Exp = 24 0.5 Observed Values 1.0 Residuals 0.0 0.5 -0.5 0.0 0.5 0.6 0.7 1.0 1.1 before 0.4 8.0 0.9 after after (corn) after (alfalfa) Fitted Values 0.8 0.8 9.0 9.0 0.4 0.4 0.2 0.2 Residuals Residuals 0.0 0.0 -0.2 -0.2 4.0--0.4 9.0-9.0-0.4 2012 0.5 0.6 0.7 8.0 0.9 1.0 1.1 2013 2014 2015 2016 2017

Year

Fitted Values