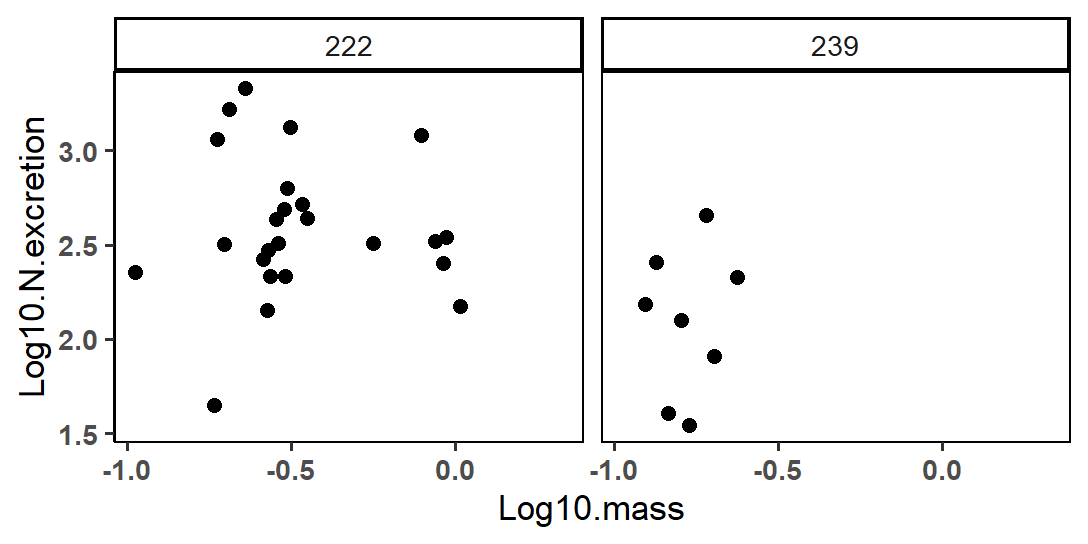
**Question: Do AgNPs have an effect on yellow perch N, P and C excretion?**

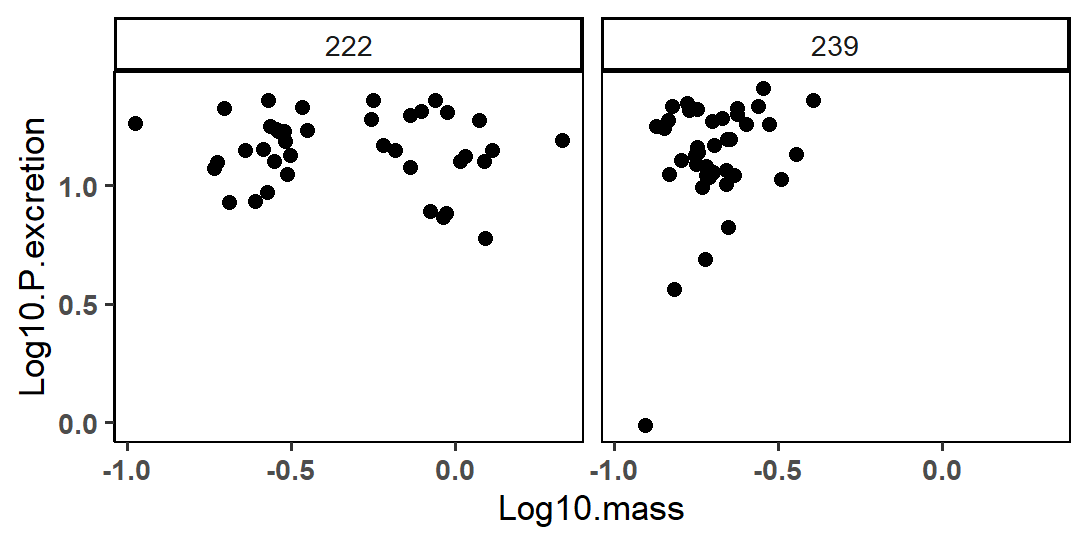
**Answer: AgNPs increase N excretion, decrease DOC excretion, and have no effect on P excretion (see Anovas)**

**log10 N excretion vs. Log10 mass for all the data by lake**

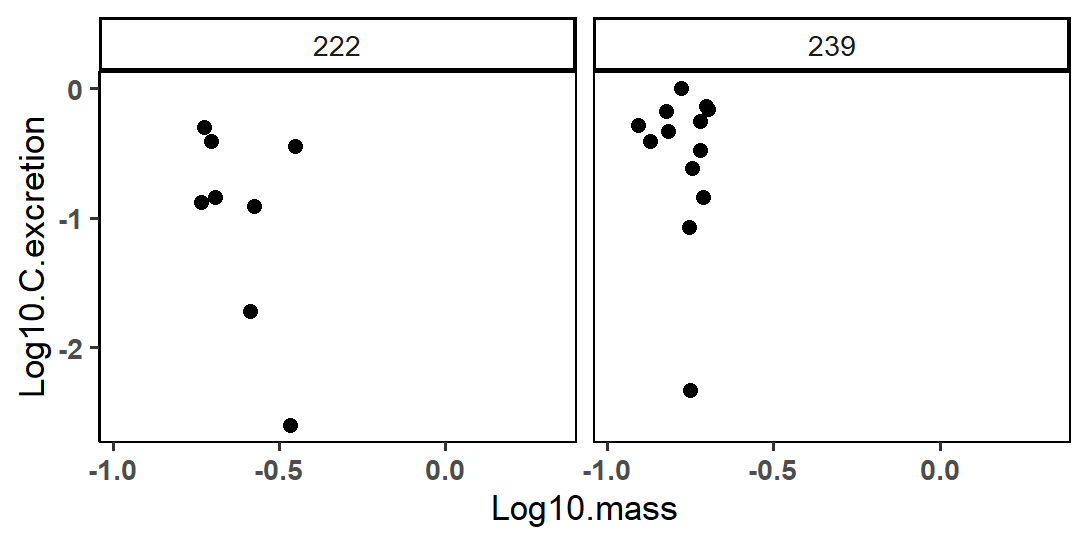


B coeff L222 = -0.06; b coeff L239 = 0.58 ; b coeff both lakes = 0.40

**Log10 mass vs log10 P excretion for all the data by lake**



B coeff L222 = -0.06; b coeff L239 = 0.75; b coeff both lakes = 0.06



b coeff L222 = -3.54; b coeff L239 = -1.34

**Anova: Log TDN excretion ~ Lake**

summary(aov.N)

Df Sum Sq Mean Sq F value Pr(>F)

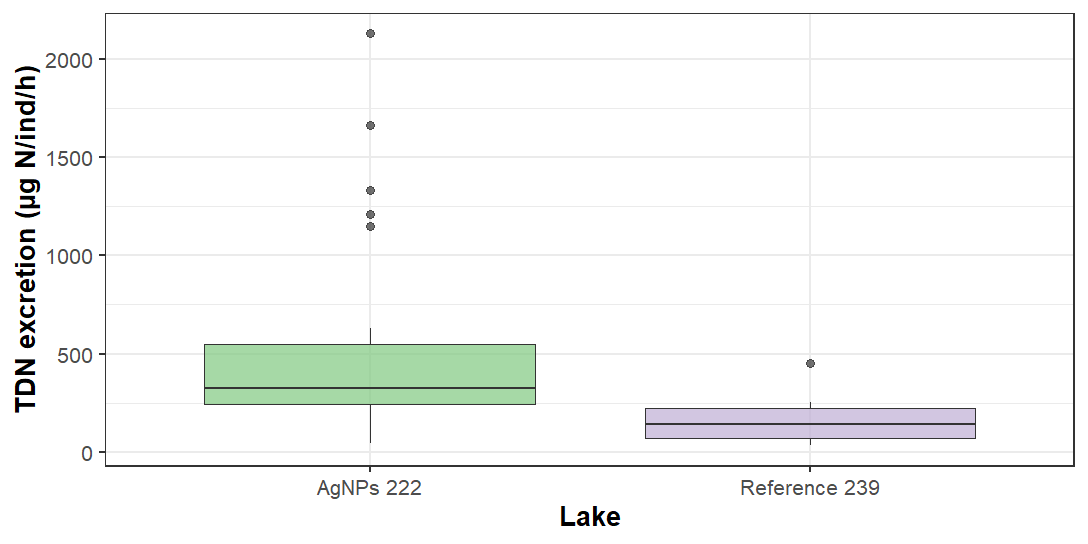
Lake 1 7.921 7.921 10.27 0.0032 \*\*

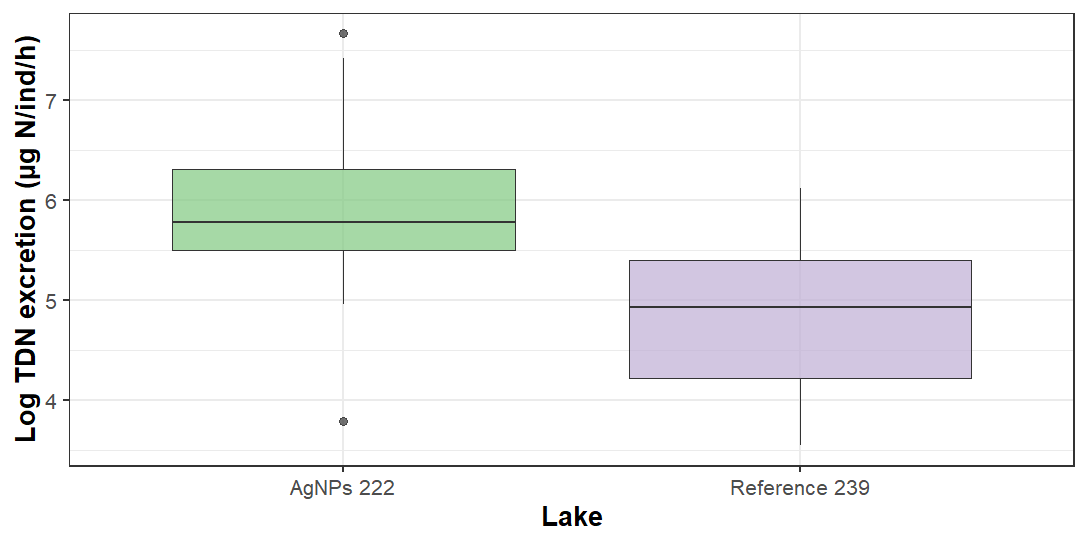
Residuals 30 23.135 0.771

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

68 observations deleted due to missingness





**Anova: TDP excretion ~ Lake**

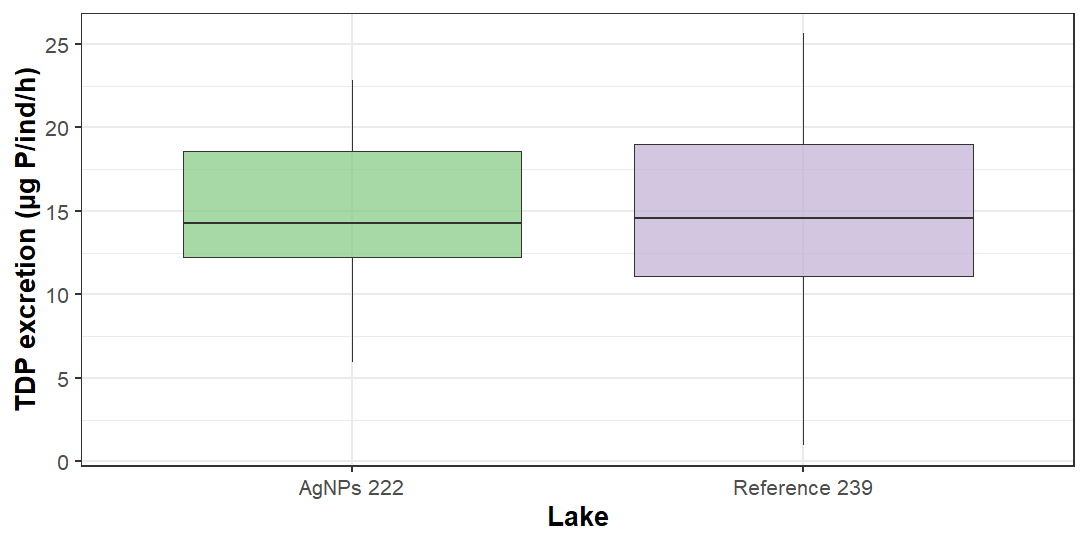
summary(aov.Pnx)

Df Sum Sq Mean Sq F value Pr(>F)

Lake 1 0.5 0.501 0.019 0.892

Residuals 76 2048.0 26.948

22 observations deleted due to missingness



**Anova: TDP excretion ~ Lake\*Year**

summary(aov.Px)

Df Sum Sq Mean Sq F value Pr(>F)

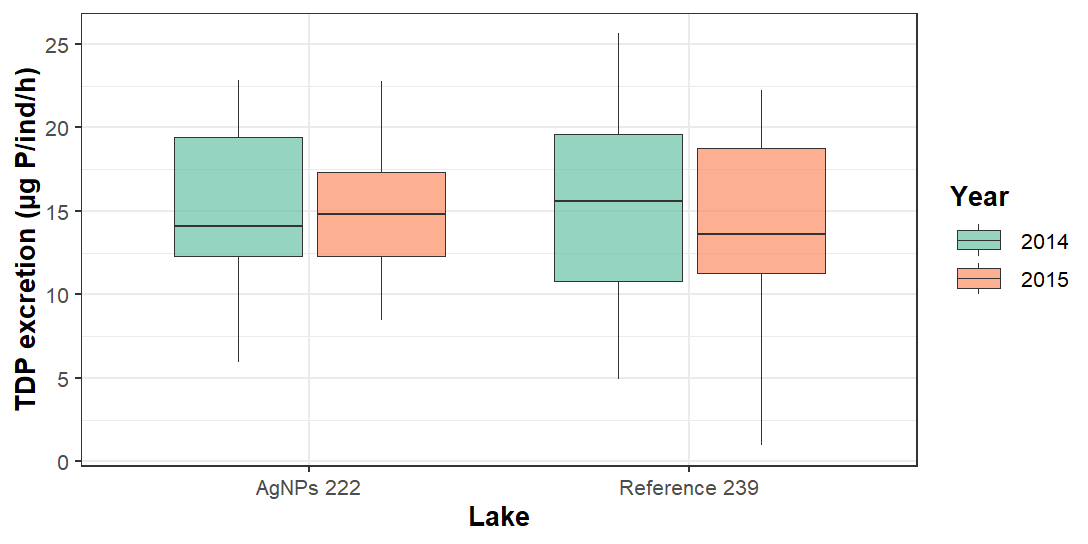
Lake 1 0.5 0.501 0.018 0.893

Year 1 2.8 2.825 0.103 0.750

Lake:Year 1 7.2 7.163 0.260 0.612

Residuals 74 2038.0 27.541

22 observations deleted due to missingness



**Anova: DOC excretion ~ Lake**

summary(aov.C)

Df Sum Sq Mean Sq F value Pr(>F)

Lake 1 0.2811 0.28111 4.41 0.0493 \*

Residuals 19 1.2112 0.06375

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

79 observations deleted due to missingness

