

## ATTACHMENT 1. Corrections to draft TSD Table 2-2 (updated May 30, 2017)

**Table 2-2. Correlations of field variables with wild rice and porewater sulfide.** For sites where multiple samples were collected, the site is represented by the closest sample to mid-August, 2012-2013 (termed the “Class B” data set; N=108). The variables are ordered by the significance of the variable’s correlation with the presence or absence of wild rice, as measured by binary logistic regression. (PW=porewater; SW=surface water; Sed=Sediment; WMW = Wilcoxon-Mann-Whitney non-parametric test; \*= $P < 0.05$ ; \*\*= $P < 0.01$ ; \*\*\*= $P < 0.001$ ).

Ramboll Environ Corrections		Spearman Correlation with Field Variable				Binary Logistic Regression for the presence/absence of wild rice		WMW Test for the presence/absence of wild rice	
Field Variable		Porewater sulfide Correlation (rho)	PW sulfide Correlation significance	Wild rice density Correlation (rho)	Wild Rice Density correlation significance	Regression P value	Regression significance	WMW test P value	WMW test significance
PW K		0.46	***	-0.36	***	0.0008	***	0.002	**
PW sulfide		1.00		-0.35	***	0.0012	**	0.007	**
Water Depth (m)		0.11	not sig	-0.24	*	0.0028	**	0.002	**
Transparency (cm)		-0.07	not sig	0.24	*	0.0031	**	0.017	*
SW TN		0.22	*	-0.23	*	0.0054	**	0.022	*
Sed Se % dry		0.08	not sig	-0.22	*	0.0059	**	0.007	**
SW Temp		0.17	not sig	-0.17	not sig	0.0077	**	0.017	*
PW Fe		-0.58	***	0.21	*	0.0109	*	0.116	not sig
SW pH		0.28	**	-0.24	*	0.0200	*	0.027	*
SW TP		0.05	not sig	-0.50	not sig	0.0353	*	0.048	*
Latitude		-0.06	not sig	0.19	*	0.0376	*	0.015	*
Sed TS % dry		0.40	***	-0.21	*	0.0483	*	0.081	not sig
PW Na		0.33	***	-0.25	**	0.0670	not sig	0.052	not sig
PW Zn		-0.08	not sig	-0.09	not sig	0.0746	not sig	0.043	*
SW Cl		0.29	**	-0.18	not sig	0.0783	not sig	0.091	not sig
SW K		0.29	**	-0.08	not sig	0.0922	not sig	0.470	not sig
Sed Cu % dry		0.00	not sig	-0.14	not sig	0.0940	not sig	0.081	not sig

From: Draft TSD: Refinements to Minnesota’s Sulfate WQ Standard to Protect Wild Rice • July 2016 • MPCA