

METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO

**Appendix 12**

**Estimated Percent Exceedances of Forthcoming Chloride Water Quality Standards**

**During Winter Months Between January 2011 - April 2017**

**Based on Hourly Conductivity Readings in Chicago Area Waterway System**

	$R^2$ *	Estimated percent > 500 mg/L	Estimated percent > 990 mg/L	Estimated percent > 620 mg/L (4-day avg. Chronic)
North Shore Channel at Foster Avenue	0.95	6.7%		
North Branch Chicago River at Addison Street	0.83	8.6%		
Chicago River at Clark Street	0.96	3.2%		
South Branch Chicago River at Loomis Street	0.97	6.4%		
Chicago Sanitary and Ship Canal at Cicero Avenue	0.96	8.6%	0.02%	3.5%
Chicago Sanitary and Ship Canal at B&O Railroad	0.96	8.4%	0.17%	2.8%
Chicago Sanitary and Ship Canal at Lockport	0.92	5.2%	0.01%	1.8%
Little Calumet River at Halsted Street	0.95	0.8%		
Cal-Sag Channel at Cicero Avenue	0.90	1.2%		

\* $R^2$  of Linear Relationship between Conductivity and Chloride