

TABLE S1 Sampling locations, sampling dates, study design, and turbidity values for recovery and field deployment experiments, 2010-11

| Site Number | Site Name | Latitude and longitude | Study dates | Study design ^a | Turbidity (NTRU) | Initial pH |
|-------------|---|------------------------------|----------------------------------|---------------------------|---------------------|-----------------------|
| 1 | Crystal Beach at Buckeye Lake, Ohio | 39 55' 57"N, 082 28' 38"W | 7/27 and 7/29/10 | single | 22 and 21 | 8.4 and 8.5 |
| 2 | Lake Erie at Edgewater, Cleveland, Ohio | 41 29' 21"N, 081 44' 24"W | 10/12, 11/3, 11/8/10; 8/10/10 | variability; field | 19, 8.8, 19; 6.0 | 8.3, 8.0, 8.2; 8.8 |
| 3 | Lake Erie at Vermillion West, Vermillion, Ohio | 41 25' 31"N, 082 21' 58"W | 4/19/11 | single | 240 | 8.2 |
| 4 | Lake Erie at Villa Angela, Cleveland, Ohio | 41 35' 09"N, 081 34' 02"W | 5/9, 5/11/11; 8/10/10 | variability, field | 6.3, 11; 2.9 | 8.1; 8.8 |
| 5 | Lake Erie at Woodlawn Beach State Park, Hamburg, NY | 42 47' 22"N, 078 51' 09"W | 6/13/11 | single | 110 | 8.3 |
| 6 | Lake Erie at Maumee Bay State Park, Oregon, Ohio | 41 41' 11"N, 083 22' 32"W | 7/17, 7/19/11 | variability | 19 and 25 | 8.6 |
| 7 | Lake Huron at Lakeside Park, Port Huron, Michigan | 43 01' 13"N, 082 25' 44"W | 8/2/11 | single | <5 | 8.6 |
| 8 | Lake Michigan at Red Arrow Park Beach, Manitowoc, Wis | 44 04' 34"N, 087 39' 20"W | 9/6/10 | field | 100 | 8.3 |
| 9 | Lake Michigan at Hika Park Beach, Cleveland, Wis. | 43 54' 57"N, 087 43' 24"W | 9/6 and 9/7/10 | field | 280 and 220 | 8.3 and 8.4 |
| 10 | Lake Michigan at Point Beach State Forest Concession Area Beach, Wis. | 44 13' 23"N, 087 30' 24"W | 9/8/10 | field | 20 | 8.4 |
| 11 | Lake Michigan at YMCA, Manitowoc, Wis. | 44 05' 41"N, 087 39' 05"W | 9/9/10 | field | 8.0 | 8.1 |
| 12 | Lake Michigan at Neshota Beach, Two Rivers, Wis. | 44 09' 03"N, 087 33' 10"W | 9/9/10 | field | 13 | 8.1 |

^a Single studies included one filtration for each filter type; variability studies included triplicate or quadruplicate filtrations for each filter type; field was the field deployment of the automatic ultrafiltration method