

Supplemental Information

Table S.1 – Sample identification and bulk water quality characteristics from 10 WWTPs

Facility ID #	Bulk water quality of wastewater effluents					
	COD mg/L as O ₂	DOC mg/L as C	TDN mg/L as N	Ammonia mg/L as N	Nitrate-N mg/L as N	Nitrite-N mg/L as N
1	19	6.7	3.0	0.1	2.9	0.1
2	9	8.6	5.9	<0.1	5.3	<0.1
3	19	8.6	4.8	1.5	1.7	0.4
4	16	8.0	5.6	0.3	4.1	0.1
5	18	7.3	15.5	1.0	11.6	0.4
6	40	10.7	36.7	20.6	9.3	12.8
7	34	8.6	3.4	0.2	3.1	0.1
8	29	9.8	34.3	25.6	3.6	0.6
9	18	7.2	5.2	0.4	3.9	0.1
10	21	6.7	4.8	1.3	4.1	0.1

Table SI-2 Analysis of HCl-colloids and HCl-HF colloids

Facility ID #	HCl-colloids				HCl-HF colloids			
	Isolated mass mg	Yield mg/L	Moisture %	Ash %	Isolated mass mg	Yield mg/L	Moisture %	Ash %
1	354.5	15.3	6.3	73.3	50.0	2.2	5.4	13.5
2	655.3	24.9	5.0	89.2	30.6	1.2	7.3	5.2
3	669.1	26.6	36.7	50.6	54.1	2.2	5.4	10.8
4	620.0	23.0	10.1	66.9	103.6	3.8	4.0	36.4
5	862.1	34.4	1.9	76.1	229.1	9.1	4.2	22.8
6	1522.2	57.4	6.2	65.5	286.4	10.8	3.3	33.8
7	2547.5	79.6	12.8	78.8	744.5	23.3	2.7	80.1
8	1364.1	51.1	4.5	77.5	299.6	11.2	2.9	29.8
9	291.7	11.4	3.4	82.2	24.6	1.0	19.4	0.0
10	433.2	14.0	12.3	79.9	24.3	0.8	7.6	31.8