SUPPLEMENTARY MATERIAL

Table SI. Data on micro- and nanoplastics occurrence in agricultural groundwater systems.

MP Concentration (MP/L)	MP type/shape	MP Composition	MP size (micro m)	Season	Aquifer Depth (m)	Sample volume (L)	Reference
0.15 - 6.58	fragments (predominant), fibers	PP, PE, PS, PET, PVC	20 - 50 (predominant), 50 - 5000	Rainy	52.6	100	(Cha et al. 2024)
0.04 - 17.77	fragments (predominant), fibers	PP, PE, PET, PVC	20 - 50 (predominant), 50 - 5000	Rainy	5.51	100	(Cha et al. 2024)
0.08 - 1.05	fragments (predominant), fibers	PP, PE, PS, PET, PVC	20 - 50 (predominant), 50 - 300	Rainy	75.1	100	(Cha et al. 2024)
0.01 - 0.56	fragments (predominant), fibers	PP, PE, PVC	50 - 100 (predominant), 20 - 50 e 100 - 5000	Dry	52.6	100	(Cha et al. 2024)
0.01 - 0.13	fragments (predominant), fibers	PE, PVC	50 - 100 (predominant), 20 - 50 e 100 - 5000	Dry	5.51	100	(Cha et al. 2024)
0.00 - 0.03	fragments (predominant), fibers	PP, PE, PA	50 - 100 (predominant), 20 - 50	Dry	75.1	100	(Cha et al. 2024)
0 - 63.0	fibers (55,5%), fragments (23,2%), films (16,4%)	PP (34,1%), PE (29,7%), PS (10%), PET (10%)	< 100 (30,6%) , 0,1 - 5000 (69,4%)	-	Shallow	-	(He et al. 2024)
0 - 6832.0	fibers (45,3%), fragments (37,6%)	PP, PA, PET, PE	<100 (80%), 1000 - 5000 (20%)	-	Deep	-	(He et al. 2024)
0 - 6832.0	fragments (56,7%), fibers (39,3%), films (3,8%), pellets (0,1%)	PP (46,7%), PE (24,3%), PET (13,1%)	0 - 100 (90%)	-	Deep	-	(He et al. 2024)
9.6 +- 1.3 (4.9 a 13.4)	fibers (predominant), fragments and films	PP, PS, PE	< 1000 (predominant), 1000 - 5000	Rainy	-	50	(Wei et al. 2024)
8.5 +- 2.1 (0.53 a 49.4)	fibers (predominant), fragments and films	PP, PS, PE	< 1000 (predominant), 1000 - 5000	Dry	-	50	(Wei et al. 2024)
0.02 - 0.15	fragments (predominante), fibers	PP (75%), PE, PVC, PS, PA	50 - 100 (predominante)	Dry	5.1 - 80.1	300	(Cha et al. 2023)
513	fragments (predominante), fibers	PP, PE, PET, PVC, PS	< 500 (predominante)	Dry	46	500	(Jeong et al. 2023)
276	fragments (predominant), fibers	PP, PE, PETPVC, PMMA	< 500 (predominant)	Dry	8	500	(Jeong et al. 2023)
162	fragments (predominant), fibers	PP, PE, PET, PVC, PS, PA, ABS	< 500 (predominant)	Dry	7	500	(Jeong et al. 2023)
43	fragments (predominant), fibers	PP, PE, PET, PS, PA	< 500 (predominant)	Dry	3	500	(Jeong et al. 2023)
54	fragments (predominant), fibers	PP, PE, PET, PVC	< 500 (predominant), 500 - 1000	Dry	120	500	(Jeong et al. 2023)

Table SI. Continuation.

MP Concentration (MP/L)	MP type/shape	MP Composition	MP size (micro m)	Season	Aquifer Depth (m)	Sample volume (L)	Reference
36	fragments (predominant), fibers	PP, PET	< 500 (predominant), 500 - 1000	Dry	80	500	(Jeong et al. 2023)
21	fragments (predominant), fibers	PP, PE, PET, PS, PA	< 500 (predominant), 500 - 1000	Dry	15	500	(Jeong et al. 2023)
272	fragments (predominant), fibers	PP, PE, PET	< 500 (predominant)	Rainy	46	500	(Jeong et al. 2023)
21	fragments (predominant), fibers	PP, PET	< 500 (predominant)	Rainy	8	500	(Jeong et al. 2023)
51	fragments (predominant), fibers	PP, PET, PVC	< 500 (predominant)	Rainy	7	500	(Jeong et al. 2023)
38	fragments (predominant), fibers	PP, PET	< 500 (predominant)	Rainy	3	500	(Jeong et al. 2023)
276	fragments (predominant), fibers	PP, PE, PET, PVC, PA	< 500 (predominant)	Rainy	9	500	(Jeong et al. 2023)
15	fragments (predominant), fibers	PP, PE, PET	< 500 (predominant)	Rainy	120	500	(Jeong et al. 2023)
13	fragments (predominant), fibers	PP, PET, PA	< 500 (predominant)	Rainy	80	500	(Jeong et al. 2023)
7	fragments (predominant), fibers	PP, PET, PS	< 500 (predominant)	Rainy	15	500	(Jeong et al. 2023)
38 +- 8	fragments, fibers	PE, PP, PS, PVC, PA, PET, PMMA, PC	89 +- 55	-	1.81 - 14.8	1	(Samandra et al. 2022)
23 +- 11	fragments, fibers	PE, PP, PVC, PA, PET, PS	91 +- 68	-	14.8	1	(Samandra et al. 2022)
30 +- 25	fragments, fibers	PE, PP, PVC, PA, PET, PS, PMMA	101 +- 58	-	3.5	1	(Samandra et al. 2022)
40 +- 24	fragments, fibers	PE, PP, PVC, PA, PET, PS, PMMA	-	-	14.6	1	(Samandra et al. 2022)
35 +- 13	fragments, fibers	PE, PP, PVC, PA, PET, PS, PMMA	-	-	27	1	(Samandra et al. 2022)
3.3 +- 0.6	fibers (62%), films (34%), fragments (4%)	PS (51.21%), PET (23.11%), PP (25.68%)	0 - 150 (60.9%), 150 - 280 (14.7%), 280 - 500 (11.9%), 500 - 5000 (12.5%)	dry	-	1	(Shu et al. 2023)
1.3 +- 0.6	fibers (62%), films (34%), fragments (4%)	PS (51.21%), PET (23.11%), PP (25.68%)	1 - 150 (60.9%), 150 - 280 (14.7%), 280 - 500 (11.9%), 500 - 5000 (12.5%)	dry	-	1	(Shu et al. 2023)

Table SI. Continuation.

MP Concentration (MP/L)	MP type/shape	MP Composition	MP size (micro m)	Season	Aquifer Depth (m)	Sample volume (L)	Reference
3.3 +- 0.6	fibers (62%), films (34%), fragments (4%)	PS (51.21%), PET (23.11%), PP (25.68%)	2 - 150 (60.9%), 150 - 280 (14.7%), 280 - 500 (11.9%), 500 - 5000 (12.5%)	dry	-	1	(Shu et al. 2023)
3.3 +- 0.6	fibers (62%), films (34%), fragments (4%)	PS (51.21%), PET (23.11%), PP (25.68%)	3 - 150 (60.9%), 150 - 280 (14.7%), 280 - 500 (11.9%), 500 - 5000 (12.5%)	dry	-	1	(Shu et al. 2023)
2.3 +- 0.6	fibers (62%), films (34%), fragments (4%)	PS (51.21%), PET (23.11%), PP (25.68%)	4 - 150 (60.9%), 150 - 280 (14.7%), 280 - 500 (11.9%), 500 - 5000 (12.5%)	dry	-	1	(Shu et al. 2023)
828	-	PET (predominant), PU (predominant), polyacetal, Alkyd Varnish, silicone, PP, PVC, PFTE, EVA, PMMA, Polysulfones	< 100 (~90%), 100 - 500	-	4	0.6	(Mu et al. 2022)
6832	-	PET (predominant), PU (predominant), polyacetal, Alkyd Varnish, silicone, PP, PFTE, PS, PC, Acrylates	< 100 (~90%), 100 - 500	-	7.8	0.2	(Mu et al. 2022)
2680	-	PET (predominant), PU (predominant), polyacetal, Alkyd Varnish, silicone, PVC, PE	< 100 (~90%), 100 - 500	-	3.7	0.2	(Mu et al. 2022)
0,467	-	PVC, PS	-	-	8	4	(Heerey et al. 2023)
0,761	-	PVC	-	-	13.4	4	(Heerey et al. 2023)
0,998	-	PP, POM	-	-	11	4	(Heerey et al. 2023)
1,001	-	PP, PVC	-	-	7	4	(Heerey et al. 2023)
0,249	-	PET	-	-	6	4	(Heerey et al. 2023)
1,009	-	PE, PP, PVC, PET	-	-	10	4	(Heerey et al. 2023)

Table SI. Continuation.

MP Concentration (MP/L)	MP type/shape	MP Composition	MP size (micro m)	Season	Aquifer Depth (m)	Sample volume (L)	Reference
0,780	-	POM	-	-	5	4	(Heerey et al. 2023)
1,016	-	PE, PVC	-	-	3.5	4	(Heerey et al. 2023)
0,264	-	-	-	-	10	4	(Heerey et al. 2023)
5,267	-	PP, PVC, PS	-	-	8	4	(Heerey et al. 2023)
0,271	-	-	-	-	10	4	(Heerey et al. 2023)
0,798	-	PP, PET	-	-	6	4	(Heerey et al. 2023)
0,279	-	-	-	-	6	4	(Heerey et al. 2023)
2,492	-	PE, PP, PET, PA6	-	-	8	4	(Heerey et al. 2023)
2,786	-	PE, PVC	-	-	10	4	(Heerey et al. 2023)
25,173	-	PE, PP	-	-	6	4	(Heerey et al. 2023)
2.7	-	-	10 - 100 (84%), 150 - 500 (15%), > 500 (1%)	-	-	-	(Heerey et al. 2023)
0.3	fibers (100%)	-	250 - 1000	dry/rainy	-	10.51	(Heerey et al. 2023)
1.6	fibers (89%) and fragments (19%)	-	250 - 1000	dry/rainy	-	20	(Heerey et al. 2023)
8.62	fibers (100%)	-	<1500	low flow conditions	-	2	(Severini et al. 2022)
7.98	fibers (100%)	-	<1500	low flow conditions	-	2	(Severini et al. 2022)
11.2	fibers (100%)	-	<1500	low flow conditions	-	2	(Severini et al. 2022)
7.46	fibers (100%)	-	<1500	low flow conditions	-	2	(Severini et al. 2022)
0	fibers (100%)	-	<1500	low flow conditions	-	2	(Severini et al. 2022)
4.39	fibers (100%)	-	<1500	low flow conditions	-	2	(Severini et al. 2022)

Table SI. Continuation.

MP Concentration (MP/L)	MP type/shape	MP Composition	MP size (micro m)	Season	Aquifer Depth (m)	Sample volume (L)	Reference
3.51	fibers (100%)	-	<1500	low flow conditions	-	2	(Severini et al. 2022)
6.06	fibers (100%)	-	<1500	low flow conditions	-	2	(Severini et al. 2022)
0.86	fibers (100%)	-	<1500	low flow conditions	61	2	(Severini et al. 2022)
4.35	fibers (100%)	-	<1500	low flow conditions	45	2	(Severini et al. 2022)
3.07	fibers (100%)	-	<1500	low flow conditions	21	2	(Severini et al. 2022)
6.36	fibers (100%)	-	<1500	low flow conditions	-	2	(Severini et al. 2022)
5.83	fibers (100%)	-	<1500	low flow conditions	-	2	(Severini et al. 2022)
12.8	fibers (100%)	-	<1500	low flow conditions	-	2	(Severini et al. 2022)
13.3	fibers (100%)	PE	<1500	low flow conditions	-	2	(Severini et al. 2022)
15.2	fibers (100%)	PE	<1500	low flow conditions	-	2	(Severini et al. 2022)
7.39	fibers (100%)	-	<1500	low flow conditions	-	2	(Severini et al. 2022)
26.88 +- 24.37	-	-	-	-	-	5	(Severini et al. 2022)
45	fragments, fibers	iPP, HEC, PVC, PDPE	63 - 1002	-	0.99	1	(Alvarado-Zambrano et al. 2023)
63	fragments, fibers	iPP, HEC, PVC, PDPE	63 - 1002	-	0.66	1	(Alvarado-Zambrano et al. 2023)
39	fragments, fibers, foam	iPP, HEC, PVC, PDPE	63 - 1002	-	1.61	1	(Alvarado-Zambrano et al. 2023)
58	fragments, fibers, foam	iPP, HEC, PVC, PDPE	63 - 1002	-	1.52	1	(Alvarado-Zambrano et al. 2023)
52	fragments, fibers	iPP, HEC, PVC, PDPE	63 - 1002	-	0.16	1	(Alvarado-Zambrano et al. 2023)
73	fragments, fibers	iPP, HEC, PVC, PDPE	63 - 1002	-	0.64	1	(Alvarado-Zambrano et al. 2023)

Table SI. Continuation.

MP Concentration (MP/L)	MP type/shape	MP Composition	MP size (micro m)	Season	Aquifer Depth (m)	Sample volume (L)	Reference
1.21	fragments (predominant), fibers	PP, PE	20 - 50 (predominant), 50 - 5000	Rainy	5.1 - 80.1	500	(Cha et al. 2023)
0.91	fragments (predominant), fibers	PP, PE, PS	20 - 50 (predominant), 50 - 5000	Rainy	5.1 - 80.1	500	(Cha et al. 2023)
0.02	fragments (predominant), fibers	PP, PE	20 - 50 (predominant), 50 - 5000	Rainy	5.1 - 80.1	500	(Cha et al. 2023)
0.09	fragments (predominant), fibers	PP, PE, PET, PS	20 - 50 (predominant), 50 - 5000	Rainy	5.1 - 80.1	500	(Cha et al. 2023)
0.25	fragments (predominant), fibers	PP, PE, PET	20 - 50 (predominant), 50 - 5000	Rainy	5.1 - 80.1	500	(Cha et al. 2023)
0.27	fragments (predominant), fibers	PP, PE, PVC, PA	20 - 50 (predominant), 50 - 5000	Rainy	5.1 - 80.1	500	(Cha et al. 2023)
2.56	fragments (predominant), fibers	PP, PE, PVC	20 - 50 (predominant), 50 - 5000	Rainy	5.1 - 80.1	500	(Cha et al. 2023)
0.35	fragments (predominant), fibers	PP, PE, PET, PVC, PS	20 - 50 (predominant), 50 - 5000	Rainy	5.1 - 80.1	500	(Cha et al. 2023)
0.25	fragments (predominant), fibers	PP, PE, PVC, PMMA	20 - 50 (predominant), 50 - 5000	Rainy	5.1 - 80.1	500	(Cha et al. 2023)
0.71	fragments (predominant), fibers	PP, PE, PVC, PU	20 - 50 (predominant), 50 - 5000	Rainy	5.1 - 80.1	500	(Cha et al. 2023)
0.02	fragments (predominant), fibers	PP, PE, PVC, PA	20 - 50 (predominant), 50 - 5000	Rainy	5.1 - 80.1	500	(Cha et al. 2023)
0.52	fragments (predominant), fibers	PP, PE, PET	20 - 50 (predominant), 50 - 5000	Rainy	5.1 - 80.1	500	(Cha et al. 2023)
1.36	fragments (predominant), fibers	PP, PE	20 - 50, 50 - 100 (predominant), 100 - 5000	Dry	5.1 - 80.1	500	(Cha et al. 2023)
1.19	fragments (predominant), fibers	PP, PE, PET	20 - 50, 50 - 100 (predominant), 100 - 5000	Dry	5.1 - 80.1	500	(Cha et al. 2023)
0.2	fragments (predominant), fibers	PP, PE, PET	20 - 50, 50 - 100 (predominant), 100 - 5000	Dry	5.1 - 80.1	500	(Cha et al. 2023)
0.97	fragments (predominant), fibers	PP, PE, PET, PVC, PMMA	20 - 50, 50 - 100 (predominant), 100 - 5000	Dry	5.1 - 80.1	500	(Cha et al. 2023)

Table SI. Continuation.

MP Concentration (MP/L)	MP type/shape	MP Composition	MP size (micro m)	Season	Aquifer Depth (m)	Sample volume (L)	Reference
2.36	fragments (predominant), fibers	PP, PE, PET, PVC, PU	20 - 50, 50 - 100 (predominant), 100 - 5000	Dry	5.1 - 80.1	500	(Cha et al. 2023)
0.27	fragments (predominant), fibers	PP, PE, PET, PVC, PA	20 - 50, 50 - 100 (predominant), 100 - 5000	Dry	5.1 - 80.1	500	(Cha et al. 2023)
2.5	fragments (predominant), fibers	PP, PE, PET, PVC	20 - 50, 50 - 100 (predominant), 100 - 5000	Dry	5.1 - 80.1	500	(Cha et al. 2023)
3.48	fragments (predominant), fibers	PP, PE, PET, PVC	20 - 50, 50 - 100 (predominant), 100 - 5000	Dry	5.1 - 80.1	500	(Cha et al. 2023)
0.69	fragments (predominant), fibers	PP, PE, PET, PVC	20 - 50, 50 - 100 (predominant), 100 - 5000	Dry	5.1 - 80.1	500	(Cha et al. 2023)
0.33	fragments (predominant), fibers	PP, PE, PET, PVC	20 - 50, 50 - 100 (predominant), 100 - 5000	Dry	5.1 - 80.1	500	(Cha et al. 2023)
0.04	fragments (predominant), fibers	PP, PET, PVC	20 - 50, 50 - 100 (predominant), 100 - 5000	Dry	5.1 - 80.1	500	(Cha et al. 2023)
0.41	fragments (predominant), fibers	PP, PE, PET, PA, PU	20 - 50, 50 - 100 (predominant), 100 - 5000	Dry	5.1 - 80.1	500	(Cha et al. 2023)
3.83 +- 0.94	film, fiber, fragment, foam, pellet	PE, PS, PET, PP, PA, PVC, other	1 - 3000, 3000 - 5000 (predominant)	March 30, precipitation: 10.4 mm	-	2	(An et al. 2022)
3.00 +- 2.83	film, fiber, fragment, foam, pellet	PE, PS, PET, PP, PA, PVC, other	1 - 3000, 3000 - 5000 (predominant)	March 30, precipitation: 10.4 mm	-	2	(An et al. 2022)
2.67 +- 1.89	film, fiber, fragment, foam, pellet	PE, PS, PET, PP, PA, PVC, other	1 - 3000, 3000 - 5000 (predominant)	March 30, precipitation: 10.4 mm	-	2	(An et al. 2022)
2.33 +- 2.49	film, fiber, fragment, foam	PE, PS, PET, PP, PA, PVC, other	1 - 3000, 3000 - 5000 (predominant)	March 30, precipitation: 10.4 mm	-	2	(An et al. 2022)
4.17 +- 2.49	film, fiber, fragment, foam, pellet	PE, PS, PET, PP, PA, PVC, other	1 - 3000, 3000 - 5000 (predominant)	March 30, precipitation: 10.4 mm	-	2	(An et al. 2022)
9.50 +- 1.63	film, fiber, fragment, foam, pellet	PE, PS, PET, PP, PA, PVC, other	1 - 3000, 3000 - 5000 (predominant)	June 30, precipitation: 238.1 mm	-	2	(An et al. 2022)
6.17 +- 2.49	film, fiber, fragment, foam, pellet	PE, PS, PET, PP, PA, PVC, other	1 - 3000, 3000 - 5000 (predominant)	June 30, precipitation: 238.1 mm	-	2	(An et al. 2022)
5.00 +- 3.27	film, fiber, fragment, foam, pellet	PE, PS, PET, PP, PA, PVC, other	1 - 3000, 3000 - 5000 (predominant)	June 30, precipitation: 238.1 mm	-	2	(An et al. 2022)

Table SI. Continuation.

MP Concentration (MP/L)	MP type/shape	MP Composition	MP size (micro m)	Season	Aquifer Depth (m)	Sample volume (L)	Reference
4.33 +- 4.99	film, fiber, fragment, foam, pellet	PE, PS, PET, PP, PA, PVC, other	1 - 3000, 3000 - 5000 (predominant)	June 30, precipitation: 238.1 mm	-	2	(An et al. 2022)
6.83 +- 5.25	film, fiber, fragment, foam, pellet	PE, PS, PET, PP, PA, PVC, other	1 - 3000, 3000 - 5000 (predominant)	June 30, precipitation: 238.1 mm	-	2	(An et al. 2022)
4.67 +- 4.99	film, fiber, fragment, foam, pellet	PE, PS, PET, PP, PA, PVC, other	1 - 3000, 3000 - 5000 (predominant)	October 31, precipitation: 68.0 mm	-	2	(An et al. 2022)
3.83 +- 0.94	film, fiber, fragment, foam, pellet	PE, PS, PET, PP, PA, PVC, other	1 - 3000, 3000 - 5000 (predominant)	October 31, precipitation: 68.0 mm	-	2	(An et al. 2022)
3.50 +- 1.63	film, fiber, fragment, foam, pellet	PE, PS, PET, PP, PA, PVC, other	1 - 3000, 3000 - 5000 (predominant)	October 31, precipitation: 68.0 mm	-	2	(An et al. 2022)
2.67 +- 1.89	film, fiber, fragment, foam, pellet	PE, PS, PET, PP, PA, PVC, other	1 - 3000, 3000 - 5000 (predominant)	October 31, precipitation: 68.0 mm	-	2	(An et al. 2022)
5.00 +- 1.63	film, fiber, fragment, foam, pellet	PE, PS, PET, PP, PA, PVC, other	1 - 3000, 3000 - 5000 (predominant)	October 31, precipitation: 68.0 mm	-	2	(An et al. 2022)
0.15	fiber, fragment	PS, PE, PET (predominants); nylon, PP, PES/ epoxy, silicone rubber, poly(a-methylstyrene)	<= 500	-	184	20	(Esfandiari et al. 2022)
0.6	fiber, film, fragment	PS, PE, PET (predominants); nylon, PP, PES/ epoxy, silicone rubber, poly(a-methylstyrene)	<= 500	-	150	20	(Esfandiari et al. 2022)
0.35	fiber, film	PS, PE, PET (predominants); nylon, PP, PES/ epoxy, silicone rubber, poly(a-methylstyrene)	<= 500	-	201	20	(Esfandiari et al. 2022)

Table SI. Continuation.

MP Concentration (MP/L)	MP type/shape	MP Composition	MP size (micro m)	Season	Aquifer Depth (m)	Sample volume (L)	Reference
1.3	fiber, film, fragment	PS, PE, PET (predominants); nylon, PP, PES/ epoxy, silicone rubber, poly(a-methylstyrene)	<= 500	-	44	20	(Esfandiari et al. 2022)
0.5	fiber, fragment	PS, PE, PET (predominants); nylon, PP, PES/ epoxy, silicone rubber, poly(a-methylstyrene)	<= 500	-	69	20	(Esfandiari et al. 2022)
0.65	fiber, fragment	PS, PE, PET (predominants); nylon, PP, PES/ epoxy, silicone rubber, poly(a-methylstyrene)	<= 500	-	31	20	(Esfandiari et al. 2022)
0.25	fiber, fragment	PS, PE, PET (predominants); nylon, PP, PES/ epoxy, silicone rubber, poly(a-methylstyrene)	<= 500	-	1	20	(Esfandiari et al. 2022)
0.1	fiber	PS, PE, PET (predominants); nylon, PP, PES/ epoxy, silicone rubber, poly(a-methylstyrene)	<= 500	-	7	20	(Esfandiari et al. 2022)
0.65	fiber, film, fragment	PS, PE, PET (predominants); nylon, PP, PES/ epoxy, silicone rubber, poly(a-methylstyrene)	<= 500	-	21	20	(Esfandiari et al. 2022)
0.25	fiber	PS, PE, PET (predominants); nylon, PP, PES/ epoxy, silicone rubber, poly(a-methylstyrene)	<= 500	-	85	20	(Esfandiari et al. 2022)
0.13	fragments, fibers	PP, PE, ABS	20 - 50 (74%), 50 - 100 (21%), 100 - 1000	-	67	500	(Kim et al. 2023)
0.02	fragments	PP, PE, PVC, ABS	20 - 50 (74%), 50 - 100 (21%), 100 - 1000	-	84	500	(Kim et al. 2023)
0.18	fragments, fibers	PP, PE, PET, PVC, PA	20 - 50 (74%), 50 - 100 (21%), 100 - 1000	-	60	500	(Kim et al. 2023)

Table SI. Continuation.

MP Concentration (MP/L)	MP type/shape	MP Composition	MP size (micro m)	Season	Aquifer Depth (m)	Sample volume (L)	Reference
0.01	fragments	PP, PET	20 - 50 (74%), 50 - 100 (21%), 100 - 1000	-	110	500	(Kim et al. 2023)
0.03	fragments	PP, PE, PET	20 - 50 (74%), 50 - 100 (21%), 100 - 1000	-	60	500	(Kim et al. 2023)
0.04	fragments, fibers	PP, PE, PET, PA	20 - 50 (74%), 50 - 100 (21%), 100 - 1000	-	240	500	(Kim et al. 2023)
0.01	fragments	PP, PE, PET, PS	20 - 50 (74%), 50 - 100 (21%), 100 - 1000	-	170	500	(Kim et al. 2023)
0.09	fragments, fibers	PP	20 - 50 (74%), 50 - 100 (21%), 100 - 1000	-	80	500	(Kim et al. 2023)
0.02	fragments	PP, PE	20 - 50 (74%), 50 - 100 (21%), 100 - 1000	-	152	500	(Kim et al. 2023)
0.02	fragments, fibers	PP, PET	20 - 50 (74%), 50 - 100 (21%), 100 - 1000	-	145	500	(Kim et al. 2023)
0.03	fragments, fibers	PP, PET	20 - 50 (74%), 50 - 100 (21%), 100 - 1000	-	72	500	(Kim et al. 2023)
0.16	fragments, fibers	PP, PE, PET	20 - 50 (74%), 50 - 100 (21%), 100 - 1000	-	-	500	(Kim et al. 2023)
0.17	fragments, fibers	PP, PE, PET	20 - 50 (74%), 50 - 100 (21%), 100 - 1000	-	-	500	(Kim et al. 2023)
0.19	fragments, fibers	PP, PE, PET, PA, ABS	20 - 50 (74%), 50 - 100 (21%), 100 - 1000	-	85	500	(Kim et al. 2023)
0.02	fragments, fibers	PP, PE, PET	20 - 50 (74%), 50 - 100 (21%), 100 - 1000	-	85	500	(Kim et al. 2023)
0.04	fragments, fibers	PP, PE, PET, PA	20 - 50 (74%), 50 - 100 (21%), 100 - 1000	-	130	500	(Kim et al. 2023)
0.03	fragments, fibers	PP, PE, PET, PA	20 - 50 (74%), 50 - 100 (21%), 100 - 1000	-	102	500	(Kim et al. 2023)
0.02	fragments, fibers	PP, PE, PET, ABS	20 - 50 (74%), 50 - 100 (21%), 100 - 1000	-	80	500	(Kim et al. 2023)
0.05	fragments, fibers	PP, PE, PET, PA	20 - 50 (74%), 50 - 100 (21%), 100 - 1000	-	100	500	(Kim et al. 2023)

Table SI. Continuation.

MP Concentration (MP/L)	MP type/shape	MP Composition	MP size (micro m)	Season	Aquifer Depth (m)	Sample volume (L)	Reference
0.11	fragments, fibers	PP, PE, PET, PA, PU	20 - 50 (74%), 50 - 100 (21%), 100 - 1000	-	100	500	(Kim et al. 2023)
0.09	fragments, fibers	PP, PE, PET, PA	20 - 50 (74%), 50 - 100 (21%), 100 - 1000	-	-	500	(Kim et al. 2023)