

# Supplementary Information

## Optimization and Validation of FTIR Method with Tetrachloroethylene for Determination of Oils and Grease in Water Matrices

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**Table S1.** Occurrence of OG in water samples received by LALA in 2011

Matrix	Total of samples	Positive	Positive / %	Minimum / (mg L <sup>-1</sup> )	Maximum / (mg L <sup>-1</sup> )	Median / (mg L <sup>-1</sup> )	LOQ-0.05 / (mg L <sup>-1</sup> )	0.05-0.10 / (mg L <sup>-1</sup> )	0.1-0.20 / (mg L <sup>-1</sup> )	0.20-1.0 / (mg L <sup>-1</sup> )	1.0-5.0 / (mg L <sup>-1</sup> )	5.0-15 / (mg L <sup>-1</sup> )	> 15 / (mg L <sup>-1</sup> )
Groundwater	69	15	22	0.014	0.085	0.030	12	3	n.a.	n.a.	n.a.	n.a.	n.a.
Surface water	50	15	30	0.010	0.49	0.033	9	3	2	1	n.a.	n.a.	n.a.
Bathing water	90	26	29	0.011	0.23	0.029	16	7	2	1	n.a.	n.a.	n.a.
Industrial water	179	109	45	0.010	26	0.16	13	25	24	30	12	2	3
Industrial effluent	51	51	100	3.4	4200	33	0	0	0	51	1	5	45
WWTP (influent)	196	190	97	0.12	180 × 10 <sup>3</sup>	35	0	0	2	3	19	22	144
WWTP (effluent)	196	129	65	0.014	870	16	11	11	13	36	22	15	21

n.a.: not applicable.

**Table S2.** Occurrence of total petroleum hydrocarbons in water samples received by LALA in 2011

Matrix	Total of samples	Positive	Positive / %	Minimum / (mg L <sup>-1</sup> )	Maximum / (mg L <sup>-1</sup> )	Median / (mg L <sup>-1</sup> )	LOQ-0.05 / (mg L <sup>-1</sup> )	0.05-0.10 / (mg L <sup>-1</sup> )	0.1-0.20 / (mg L <sup>-1</sup> )	0.20-1.0 / (mg L <sup>-1</sup> )	1.0-5.0 / (mg L <sup>-1</sup> )	5.0-15 / (mg L <sup>-1</sup> )	> 15 / (mg L <sup>-1</sup> )
Groundwater	68	4	5.9	0.18	2.0	0.85	0	0	2	0	2	n.a.	n.a.
Surface	32	2	6.3	0.023	0.025	0.024	2	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Industrial effluent	71	70	99	0.86	3000	9.2	0	0	0	1	21	23	25

n.a.: not applicable.