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Tested Materials	Parameter	Method	Protection Measure	Storage Container Type	Sample Quantity (minimum)	Maximum Storage Time	Referenced Standard	Special Note	
Water, Waste water, Seawater	Alkalinity	SM 2320 B	Cold Protection	Plastic or Glass (The bottle is completely filled and contact with air is avoided.)	250 mL	1 d	SM 2310 B		
	Acidity	SM 2310 B	Cold Protection	Plastic or Glass (The bottle is completely filled and contact with air is avoided.)	250 mL	1 d	SM 2310 B		
	Suspended Solids	SM 2540 D	Cold Protection (max 6°C)	Plastic or Glass	250 mL	7 d	SM 2540 A		
	Ammonium/ Ammonium Nitrogen	SM 4500-NH ₃ B , SM 4500-NH ₃ C, SM 4500-NH ₃ F	4°C Cold Protection	For preservation for up to 28 d, freeze at -20°C unacidified, or preserve samples by acidifying to pH <2 and storing at 4°C.	Plastic or Glass	1 L	1 d	SM 4500-NH ₃ A TS EN ISO 5667-3	If acid preservation is used, it must be neutralized with NaOH or KOH before analysis.
			28 d						
	Biological Oxygen Demand (BOD ₅)	SM 5210 B	Cold Protection (max 6°C)	Plastic or Glass	1 L	1 d	SM 5210 B		
	Turbidity	SM 2130 B	4°C Cold Protection	Plastic or Glass (Dark Color)	100 mL	1 d	SM 2130 B		
	Settleable Solids	SM 2540 F	Cold Protection (max 6°C)	Plastic or Glass	250 mL	7 d	SM 2540 A		
	Dissolved Oxygen	SM 4500 O G	In Situ Measurement	Plastic or Glass	-	1 d	SM 4500 O G		
	Phenol	SM 5530 B,C	4°C Cold Protection	Acidification with 2 ml of concentrated H ₂ SO ₄	Glass	1 L	4 h	SM 5530 A TS EN ISO 5667-3	
28 d									
Phenols	EPA 3535 A EPA 3630 C EPA 8041 A	It is acidified to pH<4 with H ₃ PO ₄ or H ₂ SO ₄ .	Glass (Dark Color)	1 L	21 d	EPA 3535 A TS EN ISO 5667-3			



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Water, Waste water, Seawater	Fluoride	SM 4500-F B,D	4°C Cold Protection	PE	100 mL	1 m	SM 4500-F A SM 4110 B TS EN ISO 5667-3	A dechlorinating protection measure should never be used for the SPADNS method.
		SM 4110 B						
	Phosphate / Phosphate Phosphorus	SM 4500-P E	It must be filtered in the field. -10°C frozen sample or 40 mg HgCl ₂ /L should be added	Plastic or Glass	250 mL	1 m	SM 4500-P A TS EN ISO 5667-3	Acid or chloroform protection should not be done.
		SM 4110 B	4°C Cold Protection					
	Hydrocarbons, Tar and Oils of Petroleum Origin	TS EN ISO 9377-2	The pH is brought to around 2 with HCl. (If there is a yellowish-brown color, the sample should not be acidified.)	Glass	1 L	Acid added - 1 m acid free- 5 d	TS EN ISO 9377-2 TS EN ISO 5667-3	
	Conductivity	SM 2510 B	-	-	-	1 d	TS EN ISO 5667-3	In Situ Measurement
	Chlorophyll-a	EPA 446.0	4°C Cold Protection	Glass (Dark Color)	4 L	1 d	EPA 446.0 TS EN ISO 5667-3	
	Calcium and Calcium Hardness	SM 3500-Ca B	The pH is brought to between 1-2 with HNO ₃ or HCl.	PP, PFA, FEP, PE-HD, PTFE (at low concentrations)	250 mL	1 m (should be shaken before analysis.)	TS EN ISO 5667-3 SM 3500-Ca B	
			The pH is brought to around 3 ± 0.5 with HNO ₃ .	PE				
	Chemical Oxygen Demand (COD)	SM 5220 B	The pH is brought to around 2 with H ₂ SO ₄ . (10 ml H ₂ SO ₄ per 1 liter)	Glass	500 mL	5 d	SM 5220 B TS 2789	
TS 2789								
Chloride	SM 4500-Cl ⁻ B	4°C Cold Protection	Plastic or Glass	100 mL	1 m	SM 4500-Cl ⁻ A SM 4110 B TS EN ISO 5667-3		
	SM 4110 B							

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Water, Waste water, Seawater	Chromium (VI)	SM 3500-Cr B	If Dissolved Chromium is to be looked at, it is filtered in the field. After filtration, 600 µL of 5 N NaOH is added to 100 mL of sample at pH <9.3-9.7 (4°C Cold Protection) If protection could not be done in the field, the pH should be adjusted within 24 hours.	Plastic or Borosilicate Glass Bottle	100 mL	28 d	SM 3500-Cr A TS EN ISO 5667-3	
			If Total Chromium is to be measured in the sample, 600 µL of 5 N NaOH is added to the 100 mL sample without filtering. (at pH <9.0) (4°C Cold Protection) If protection could not be done in the field, the pH should be adjusted within 24 hours.					
	Metals	EPA 200.7	If dissolved metal is to be looked for, the sample is filtered on site with a 0.45 µm membrane filter. The sample container is washed with the filtered sample. Then the bottle is filled with the sample and acidified (to pH<2 (1+1)) with HNO ₃ .	PE	250 mL	6 m	EPA 200.7 TS EN ISO 5667-3	Only plastic materials should be used to avoid silica interference.
		EPA 6020 B, TS EN ISO 17294-1/2	If total metal is to be measured in the sample, the sample is acidified with HNO ₃ without being filtered. (Estimated 3 ml per 1 L (1+1) HNO ₃ at pH<2 (1+1))					If mercury is to be analyzed, it should be acidified with HCl until pH<1.
	Nitrate/ Nitrate Nitrogen	EPA 352.1	4°C Cold Protection Acidify 1 L sample with 2 ml of H ₂ SO ₄ . It is stored with 4°C Cold Protection.	Plastic or Glass	250 mL	1 d	EPA 352.1 TS EN ISO 5667-3	
		SM 4110 B	4°C Cold Protection			2 d		SM 4110 B TS EN ISO 5667-3
	Nitrite/ Nitrite Nitrogen	SM 4500-NO ₂ ⁻ B	4°C Cold Protection	Plastic or Glass	250 mL	1 d	TS EN ISO 5667-3	
		SM 4110 B	4°C Cold Protection			2 d		SM 4110 B TS EN ISO 5667-3



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Water, Waste water, Seawater	PAH (Polycyclic Aromatic Hydrocarbons)	EPA 3510 C EPA 3620 C EPA 8270 E	4°C Cold Protection	Glass	1 L	It is extracted within 7 days. After extraction, there is a period of 40 days.	EPA 3620 C TS EN ISO 5667-3	If naphthalene analysis is to be done, the storage period will be 4 days.
	Permanganate Index	TS 6288 EN ISO 8467	Acidify 1 L sample with 5 ml of H ₂ SO ₄ . It is stored with 4°C Cold Protection.	Glass (Dark Color)	100 mL		2 d	TS 6288 EN ISO 8467 TS EN ISO 5667-3
	Pesticides (Chlorinated)	EPA 3510 C EPA 3620 C EPA 8081 B In-House Method-ENC.LABTL.LCP.17 6-Rev01/28.09.2017 (EPA 538,5990-4253 EN Adapted from Agilent Application Notes)	4°C Cold Protection	Glass (Dark Color)	1 L	7 d	EPA 3510 C TS EN ISO 5667-3	
	pH	SM 4500-H ⁺ B	-	-	-	1 d	TS EN ISO 5667-3	On-Site Measurement
	Polychlorinated Biphenyls (PCBs)	EPA 3510 C EPA 3665 A EPA 8082 A	4°C Cold Protection	Glass	1 L	7 d	EPA 8082 A TS EN ISO 5667-3	Glass materials are rinsed with distilled water. Then they are placed in the oven at 130 degrees. After removing from the oven, they should be cleaned with methanol.
	Redox Potential	SM 2580 B	-	-	-	1 d	SM 2580 B	On-Site Measurement
	Color	SM 2120 C	4°C ± 2°C Cold Protection	Plastic or Dark Glass Bottle (washed with 2 mol/L HCl and distilled water)	100 mL	1 d	SM 2120 C	
	Color (3 waves)	TS EN ISO 7887 B	4°C ± 2°C Cold Protection	Plastic or Dark Glass Bottle (washed with 2 mol/L HCl and distilled water)	100 mL	5 d	TS EN ISO 7887 B	



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Water, Waste water, Seawater	Free, Bound, Total Chlorine	SM 4500 Cl ⁻ G	4°C Cold Protection	Plastic or Dark Glass Bottle	100 mL	1 d	SM 4500 Cl ⁻ A	The sample container should not be shaken.
	Free CO ₂	SM 4500-CO ₂ C	Cold Protection	Plastic or Glass (The bottle is completely filled and contact with air is avoided.)	250 mL	1 d	SM 4500-CO ₂ C	
	Free Cyanide	SM 4500-CN E	NaOH is added until the pH is 11± 0,1	Plastic or Dark Glass Bottle	100 mL	6 d	TS EN ISO 5667-3	
	Hardness	SM 2340 C	pH, Nitric acid or Hydrochloric Acid brought to the range of 1-2 with.	PP,PFA, FEP,PE-HD, PTFE (at low concentrations)	250 mL	1 m	TS EN ISO 5667-3	
			The pH is brought to around 3 ± 0.5 with nitric acid.	PE				
	Temperature	SM 2550 B	-	-	-	1 d	-	On-Site Measurement
	Sulfate	SM 4500-SO ₄ ²⁻ E	4°C Cold Protection	Plastic or Glass	250 mL	1 m	SM 4500-SO ₄ ²⁻ A TS EN ISO 5667-3	
		SM 4110 B						
	Sulphide	SM 4500 SO ₃ ²⁻ B	1 ml of EDTA protection is added to 100 ml of sample.	Plastic or Glass	250 mL	2 d	SM 4500 SO ₃ ²⁻ C TS EN ISO 5667-3	
		SM 4500 SO ₃ ²⁻ C						
	Sulfur	SM 4500-S ²⁻ F	Add 2 ml of 2 M zinc acetate protection to 100 ml of sample. NaOH should be added so that the final pH read is 9.	Plastic or Glass (The bottle must be completely filled.)	250 mL	7 d	SM 4500-S ²⁻ A TS EN ISO 5667-3	Air contact should be minimal while sampling. Zinc acetate protection must be added to the bottle before sampling.
		SM 4500-S ²⁻ D						
Total Dissolved Matter	SM 2540 C	Cold Protection (max 6°C)	Plastic or Glass	250 mL	7 d	SM 2540 A		
Total Phosphorus	SM 4500-P B,E	Should the sample be frozen at -20°C or acidified to pH <2 with H ₂ SO ₄ /HCl. 4°C Cold Protection	Plastic or Glass	250 mL	1 m	SM 4500-P A TS EN ISO 5667-3		



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Water, Waste water, Seawater	Total Solids	SM 2540 B	Cold Protection (max 6°C)	Plastic or Glass	250 mL	7 d	SM 2540 A	
	Total Kjeldahl Nitrogen	SM 4500-N _{org} B	The sample is acidified with H ₂ SO ₄ . (pH in the range of 1.5-2.0) 4°C Cold Protection	Plastic or Glass	1 L	30 d	SM 4500-Norg A TS EN ISO 5667-3	
	Total Cyanide	SM 4500-CN C,E	NaOH is added until the pH is 12.	Plastic or Dark Glass Bottle	100 mL	14 d	TS EN ISO 5667-3	
	Salinity	SM 2520 B	-	-	-	1 d	-	On-Site Measurement
	Volatile Solids	SM 2540 E	Cold Protection (max 6°C)	Plastic or Glass	250 mL	7 d	SM 2540 A	
	VOCs (Volatile Organic Compounds)	EPA 5021 A EPA 8260 D	4°C Cold Protection	Glass	100 mL	5 d	EPA 5035 A TS EN ISO 5667-3	The bottle will be completely filled airtight.
		EPA 5030 C EPA 8260 D						
	Oil and Grease	SM 5520 B	The pH should be lowered below 2 with (1:1) HCl or (1:1) H ₂ SO ₄ . It should be transported with cold protection.	Wide mouth glass bottle washed with soap, rinsed with water and solvent (hexane). (The sample container should not be filled to the brim.)	1 L	Acid added 1 m Acid free 2 h	SM 5520 B	Separate samples should be taken for oil and grease.
	Surface Active Agent (MBAS)	SM 5540 C	4°C Cold Protection	Glass	250 mL	3 d	TS EN ISO 5667-3	
			Protection with formaldehyde			4 d		
-18°C frozen sample			1 m					
Weak Acid Soluble Cyanide	SM 4500 CN I,E	NaOH is added until the pH is 12.	Plastic or Dark Glass Bottle	100 mL	7 d	TS EN ISO 5667-3		
Elemental Sulfur	In house method- "ENC.LABTL:K KRT.223	4°C Cold Protection EDTA Protection	-	-	10 ml	-	-	



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Water, Waste water, Seawater	TOC/ DOC	TS 8195 EN 1484	2-5°C Cold Protection, The sample is acidified with H ₂ SO ₄ .	Plastic or Glass	100 ml	7 d 7 days for 2-5°C, 7 days for 2-5, -18 °C 1 month	-	
	Phenols	EPA 3510 C EPA 8270 E	The sample is acidified with H ₂ SO ₄ .	Glass	1 L	7 d It is extracted within 7 days. After extraction, there is a period of 40 days.	-	
	Bromate, Chlorate, Chlorite	SM 4110 D	-	Plastic or Glass	100 ml	28 d	-	

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