MBAS
Monterey Bay Analytical Services
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Analyses Reference List Revised 6/25/2026

Analyses	Method	Hold	Container(s)	Preservative(s)	Storage	MDL	RL (PQL)	Units
1,2,3-Trichloropropane** (collect w/o air bubbles)	SRL 524M	14 Days	(4) 40ml Amber VOA	HCl	4°C ± 2°C	0.0012	0.0050	µg/L
Acrolein & Acrylonitrile**	EPA 624	3 Days	(2) 40ml VOA	None	4°C ± 2°C	**	**	µg/L
Alkalinity	SM 2320B	14 Days	250mL Plastic	None	4°C ± 2°C	2	10	mg/L
Aluminum – Al	EPA 200.8	2 weeks	250mL Plastic	HNO_3 pH<2		5	15	µg/L
Ammonia – NH_3-N (SFA)	EPA 350.1	28 Days	250ml Plastic	H_2SO_4 pH<2	4°C ± 2°C	0.05	0.15	mg/L
Anions - (Cl, F, Br, NO_3, NO_2, SO_4, PO_4)	EPA 300.0	**48 Hours**	250ml Plastic	None	4°C ± 2°C	See	Analyte	mg/L
Antimony - Sb	EPA 200.8	2 weeks	250mL Plastic	HNO_3 pH<2		0.1	0.5	µg/L
Arsenic – As	EPA 200.8	2 weeks	250mL Plastic	HNO_3 pH<2		0.5	1	µg/L
Arsenic, Speciation (III/V) **	IC-ICPMS	28 days	250 Plastic	EDTA, Acetic Acid	4°C ± 2°C	**	**	µg/L
Asbestos**deliver to lab day of collection*	EPA 100.2	**48 Hours**	1L Plastic	None	4°C ± 2°C	**	**	mF/L
Barium – Ba	EPA 200.8	NP: 2 weeks	250mL Plastic	HNO_3 pH<2: 6 mos HT		0.5	5	µg/L
Beryllium – Be	EPA 200.8	NP: 2 weeks	250mL Plastic	HNO_3 pH<2: 6 mos HT		0.1	0.5	µg/L
Bacteria – Coliform QT or P/A	SM 9223 B	**30 Hours**	100ml Sterile Plastic	$Na_2S_2O_3$	4°C ± 2°C		1	MPN/100mL
Bacteria – Coliform MTF	SM 9221	**8 Hours**	100ml Sterile Plastic	$Na_2S_2O_3$	4°C ± 2°C		2	MPN/100mL
Bacteria – Heterotrophic Plate Count - HPC	SimPlate	**8 Hours**	100ml Sterile Plastic	$Na_2S_2O_3$	4°C ± 2°C	0.2	2	MPN/mL
**BioAssay ****Requires Advanced Notification*	EPA-821-R-02-012	**36 Hours**	10L cubitainer	None	4°C ± 2°C	**	**	TU
Biochemical Oxygen Demand - BOD	SM 5210B	**48 Hours**	1L Plastic	None	4°C ± 2°C	2	2	mg/L
Boron – B	EPA 200.7	NP: 2 weeks	250mL Plastic	HNO_3 pH<2: 6 mos HT		0.05	0.1	mg/L
Bromate - BrO_3 **	EPA 317.0	28 Days	250ml Amber Glass	EDA	4°C ± 2°C		**	mg/L
Bromide – Br	EPA 300.0	28 Days	250mL Plastic	None	4°C ± 2°C	0.02	0.1	mg/L
Cadmium – Cd	EPA 200.8	NP: 2 weeks	250mL Plastic	HNO_3 pH<2: 6 mos HT		0.1	0.25	µg/L
Calcium – Ca	EPA 200.7	NP: 2 weeks	250mL Plastic	HNO_3 pH<2: 6 mos HT		0.5	1	mg/L
Cam 17 Metals**	EPA 200.8	NP: 2 weeks	250mL Plastic	HNO_3 pH<2: 6 mos HT		**	**	µg/L
Cations - (B, Ca, Cu, Fe, Mn, Mg, K, Si, Na, Zn)	EPA 200.7	NP: 2 weeks	250mL Plastic	HNO_3 pH<2: 6 mos HT		See	Analyte	Varies
Carbamates**	EPA 531.1	28 Days	40ml VOA	MCAA Buffer	4°C ± 2°C	**	**	µg/L

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Carbonaceous Biological Oxygen Demand -	SM 5210B	**48 Hours**	1L Plastic	None	4°C ± 2°C	2	2	mg/L
Chemical Oxygen Demand - COD	SM5220 D	28 Days	250mL Plastic	H_2SO_4 pH<2	4°C ± 2°C	5	5	mg/L
Chloramines	SM 4500-Cl G	**24 Hours**	250mL Plastic	None	4°C ± 2°C		0.05	mg/L
Chloride – Cl	EPA 300.0	28 Days	250mL Plastic	None	4°C ± 2°C	0.2	1	mg/L
Chlorinated Herbicides**	EPA 515.1	14 Days	250ml Amber Glass	Na_2SO_3	4°C ± 2°C	**	**	µg/L
Chlorine Residual (Free or Total)	SM 4500-Cl G	**15 minutes**	250mL Plastic	None	4°C ± 2°C	0.05	0.05	mg/L
Chromium (total) – Cr	EPA 200.8	NP: 2 weeks	250mL Plastic	HNO_3 pH<2: 6 mos HT		5	10	µg/L
Chromium VI - Cr^{+6} ** DW/WW	DW: EPA 218.7 WW: EPA 218.6	14 days 28 days	250mL Plastic	Field Filtered + Buffer	4°C ± 2°C	**	**	µg/L
Chromium VI - Cr^{+6} (FIA) Wastewater	SM3500 Cr B	28 Days	250mL Plastic	pH 9.3-9.7	4°C ± 2°C	1	3	µg/L
Cobalt – Co	EPA 200.8	NP: 2 weeks	250mL Plastic	HNO_3 pH<2: 6 mos HT		0.1	1	µg/L
Color	SM 2120 B/C	**24 Hours**	250mL Amber Glass	None	4°C ± 2°C	3	3	Color
Conductivity – SEC	SM 2510B	28 Days	250mL Plastic	None	4°C ± 2°C	5	10	µmhos/cm
Copper – Cu	EPA 200.7 EPA 200.8	NP: 2 weeks	250mL Plastic	HNO_3 pH<2: 6 mos HT		7 1	20 2	µg/L
Corrosivity - Langlier Index *(Includes Ca, Alk, pH, & TDS)*	SM 2330B	**15 minutes**	500mL Plastic 125mL Plastic	HNO_3 pH<2	4°C ± 2°C	See	Analyte	
Cyanide – CN, Total	ASTM D7511-12	14 Days	250mL Amber Glass	NaOH pH>12	4°C ± 2°C	2	5	µg/L
Cyanide – CN (SFA), Available in DW	OIA-1677-09	14 Days	250mL Amber Glass	NaOH pH>12	4°C ± 2°C	2	4	µg/L
Dioxin 2,3,7,8 TCDD**	EPA 1613	28 Days	2 X 1L Amber Glass	None	4°C ± 2°C	**	**	pg/L
Dioxin plus TCDD equivalents Cl4-Cl8**	EPA 1613	28 Days	2 X 1 L Amber Glass	None	4°C ± 2°C	**	**	pg/L
Dissolved Organic Carbon - DOC	SM 5310C	28 Days	Collect in 250 ml amber glass	H_3PO_3*Filtered prior to preservation	4°C ± 2°C	0.1	0.3	mg/L
Dissolved Oxygen - DO	SM 4500-O G	**15 minutes**	500mL Plastic	None	None	0.5	0.5	mg/L
Diquat/Paraquat**	EPA 549	7 Days	1L Brown Plastic	$Na_2S_2O_3$	4°C ± 2°C	**	**	µg/L
Diuron**	EPA632	7 Days	(2) 1L Amber Glass	None	4°C ± 2°C	**	**	µg/L
EDB, DBCP**	EPA 504.1	14 Days	(3) 40ml VOA	$Na_2S_2O_3$	4°C ± 2°C	**	**	µg/L

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Endothall**	EPA 548	7 Days	250ml Amber Glass	$Na_2S_2O_3$	4°C ± 2°C	**	**	µg/L
Formaldehyde**	EPA 556	7 days	(2) 40 ml VOA	NH4CL/CuSO4	4°C ± 2°C	**	**	µg/L
Fluoride – F	EPA 300.0	28 Days	250mL Plastic	None		0.04	0.12	mg/L
Glyphosate**	EPA 547	14 Days	40ml VOA	$Na_2S_2O_3$	4°C ± 2°C	**	**	µg/L
Gross Alpha**	EPA 900.0	2 weeks	3 Liter Plastic	None	4°C ± 2°C	**	**	pCi/L
Haloacetic Acids – HAA-5**	EPA 552.2	14 Days	250mL Glass	NH_4Cl	4°C ± 2°C	**	**	µg/L
Hardness - (Includes Ca & Mg)	SM 2340B	NP: 2 weeks	250mL Plastic	HNO_3 pH<2: 6 mos HT	4°C ± 2°C	1	5	mg/L
Iodide**	EPA 331.0M	14 days	250mL Plastic	None	4°C ± 2°C	**	**	µg/L
Iron – Fe	EPA 200.7 EPA 200.8	NP: 2 weeks	250mL Plastic	HNO_3 pH<2: 6 mos HT		10 10	30 30	µg/L
Iron-Related Bacteria	BART Test	N/A	100mL Sterile Plastic	None	4°C ± 2°C			
Lead – Pb	EPA 200.8	NP: 2 weeks	250mL Plastic	HNO_3 pH<2: 6 mos HT		0.1	1	µg/L
Lead & Copper Rule - (Includes Pb, Cu & Turbidity)	EPA 200.8	NP: 2 weeks	250mL Plastic	HNO_3 pH<2: 6 mos HT		See	Analyte	µg/L
Lithium – Li	EPA 200.8	NP: 2 weeks	250mL Plastic	HNO_3 pH<2: 6 mos HT		0.1	0.5	µg/L
Magnesium – Mg	EPA 200.7	NP: 2 weeks	250mL Plastic	HNO_3 pH<2: 6 mos HT		0.1	0.5	mg/L
Manganese – Mn	EPA 200.7 EPA 200.8	NP: 2 weeks	250mL Plastic	HNO_3 pH<2: 6 mos HT		5 1	10 5	µg/L
MBAS (Detergents/Surfactants)	SM 5540C	**48 Hours**	500mL Plastic	None	4°C ± 2°C	0.02	0.05	mg/L
Mercury – Hg	EPA 200.8	28 days	250mL Plastic	HNO_3 pH<2		0.1	0.3	µg/L
Mercury by Cold Vapor **	EPA 245.1	28 days	250mL Plastic	HNO_3 pH<2		**	0.05	µg/L
Metals	EPA 200.8	NP: 2 weeks	250mL Plastic	HNO_3 pH<2: 6 mos HT		See	Analyte	µg/L
Methane** - CH_4	RSK175	14 Days	3X40 ml VOA	HCL	4°C ± 2°C	**	**	µg/L
Methanol **	EPA 8260	14 Days	3X40 ml VOA	HCL	4°C ± 2°C	**	**	µg/L
Molybdenum – Mo	EPA 200.8	NP: 2 weeks	250mL Plastic	HNO_3 pH<2: 6 mos HT		0.5	1.5	µg/L
Nickel – Ni	EPA 200.8	NP: 2 weeks	250mL Plastic	HNO_3 pH<2: 6 mos HT		0.5	5	µg/L
Nitrate – NO_3-N	EPA 300.0	**48 Hours**	250mL Plastic	None	4°C ± 2°C	0.04	0.1	mg/L
Nitrite – NO_2-N	EPA 300.0	**48 Hours**	250mL Plastic	None	4°C ± 2°C	0.03	0.1	mg/L

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Odor	SM 2150B	**24 Hours**	250mL Amber Glass	None	4°C ± 2°C		1	TON
Oil & Grease – O&G, Polar & Non-Polar	EPA 1664B	28 Days	1L Amber Glass	HCl pH <2	4°C ± 2°C	5	5	mg/L
Oil & Grease – O&G, Polar & Non-Polar *less volume for **high solids content**	EPA 1664B	28 Days	1L Amber Glass filled ~300mL or ~1/3 bottle	HCl pH <2	4°C ± 2°C	5	5	mg/L
Organochlorine Pesticides & PCBS **	EPA 505	7 Days	(3) 40ml VOA	$Na_2S_2O_3$	4°C ± 2°C	**	**	µg/L
Organochlorine Pesticides & PCBs **	EPA 608	7 days	(2) 1L Amber Glass	None	4°C ± 2°C	**	**	µg/L
Organophosphorus Pesticides**	EPA 8141	7 days	(2) 1L Amber Glass	None	4°C ± 2°C	**	**	µg/L
Phenolics	EPA 420.4	28 days	250ml Amber Glass	H_2SO_4 pH<2	4°C ± 2°C			ug/L
Perchlorate	EPA 314.0	28 Days	250mL Plastic	None	4°C ± 2°C	1	2	µg/L
PFAS DW**	DW: EPA 533	28 days	3 x 250mL Plastic (FB required)	Ammonium Acetate	4°C ± 2°C	**	**	ng/L
PFAS WW**	WW: DOD QSM	10 days	2 x 250mL HDPE	None	4°C ± 2°C	**	**	ng/L
pH	SM 4500-H B	**15 minutes**	250mL Plastic	None	4°C ± 2°C	0.1	0.1	pH Units
Phosphate (ortho) – PO_4-P	EPA 300.0	**48 Hours**	250mL Plastic	None	4°C ± 2°C	0.04	0.1	mg/L
Phosphate (ortho) – PO_4-P	EPA 365.1	**48 Hours**	250mL Plastic	None	4°C ± 2°C	0.01	0.02	mg/L
Phosphorus, Total as PO4-P	EPA 365.1	28 Days	250mL Plastic	H_2SO_4 pH<2	4°C ± 2°C	0.02	0.06	mg/L
Potassium – K	EPA 200.7	2 weeks	250mL Plastic	HNO_3 pH<2		0.3	0.5	mg/L
Radium 226**	EPA 903.0	6 Months	1L Plastic	None	4°C ± 2°C	**	**	pCi/L
Radium 228**	Ra - 05	6 Months	(2) 1L Plastic	None	4°C ± 2°C	**	**	pCi/L
Selenium –Se	EPA 200.8	NP: 2 weeks	250mL Plastic	HNO_3 pH<2: 6 mos HT		0.5	1	µg/L
Silica	EPA 200.7	NP: 2 weeks	250mL Plastic	HNO_3 pH<2: 6 mos HT		0.25	1	mg/L
Silver – Ag	EPA 200.8	NP: 2 weeks	250mL Plastic	HNO_3 pH<2: 6 mos HT		0.5	1.5	µg/L
Sodium – Na	EPA 200.7	NP: 2 weeks	250mL Plastic	HNO_3 pH<2: 6 mos HT		0.5	1	mg/L
Strontium - Sr	EPA 200.8	NP: 2 weeks	250mL Plastic	HNO_3 pH<2: 6 mos HT		0.1	0.5	µg/L
Sulfide, Dissolved – S^{2-}**	SM 4500-S2D	**7 days**	250ml Plastic	NaOH	4°C ± 2°C	2	2	µg/L
Sulfide, Total – S^{2-}**	SM 4500-S2D	**7 days**	250ml Plastic	$ZnAc_2$ + NaOH	4°C ± 2°C	2	2	µg/L

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Sulfate – SO_4	EPA 300.0	28 Days	250mL Plastic		4°C ± 2°C	0.4	2	mg/L
Semi-Volatile Organic Compounds** DW	EPA 525	14 Days	(2) 1L Amber Glass	Ascorbic, EDTA,KH2CT	4°C ± 2°C	**	**	µg/L
Semi-Volatile Organic Compounds**	EPA 625	7 Days	(2) 1L Amber Glass	$Na_2S_2O_3$	4°C ± 2°C	**	**	µg/L
Solids, Settleable – SS	SM 2540F	**48 Hours**	2L Plastic	None	4°C ± 2°C	0.1	0.1	mL/L
Solids, Total Dissolved – TDS	SM 2540C	7 Days	500ml Plastic	None	4°C ± 2°C	5	10	mg/L
Solids, Total Suspended – TSS	SM 2540D	7 Days	2L Plastic	None	4°C ± 2°C	2	2	mg/L
Nitrogen, Total Kjeldahl – TKN (SFA)	EPA 351.2	28 Days	500ml Plastic	H_2SO_4 pH<2	4°C ± 2°C	0.2	0.5	mg/L
Nitrogen, Total	Calculation	**48 Hours**	500 ml Plastic	*Preserved Upon Arrival (H_2SO_4 pH<2)*	4°C ± 2°C	0.2	0.5	mg/L
Thallium- Tl	EPA 200.8	NP: 2 weeks	250mL Plastic	HNO_3 pH<2: 6 mos HT		0.1	0.5	µg/L
Total Organic Carbon – TOC	SM 5310C	28 Days	(3) 40ml VOA	H_3PO_3 pH<2	4°C ± 2°C	0.1	0.3	mg/L
Total Trihalomethanes – TTHMs** method varies by matrix	EPA 551.1 EPA 524/624	DW: 14 days WW: 7 days	(4) 40ml VOA	Na2SO3** **varies by method	4°C ± 2°C	**	**	µg/L
TPH**–Multi-Range Organics (Gas, Diesel, Motor Oil)	EPA 8015B	14 Days	3X40ml VOA	HCL pH<2	4°C ± 2°C	**	**	mg/L
Turbidity	EPA 180.1	**48 Hours**	250mL Plastic	None	4°C ± 2°C	0.1	0.1	NTU
Uranium	EPA 200.8	NP: 2 weeks	250mL Plastic	HNO_3 pH<2: 6 mos HT		0.1	0.5	µg/L
Urea	Mulvenna & Savidge	28 Days	50mL Plastic	None	Freeze	8	10	µg/L
UV_{254}	SM 5910B	48 Hours	250mL Amber Glass	None	4°C ± 2°C			Abs/Trans
Vanadium- V	EPA 200.8	NP: 2 weeks	250mL Plastic	HNO_3 pH<2: 6 mos HT		3	8	µg/L
Volatile Org. Compounds ** DW	EPA 524.2	14 Days	(3) 40ml VOA	HCl pH<2	4°C ± 2°C	**	**	µg/L
Volatile Org. Compounds** WW	EPA 624	7 Days	(3) 40ml VOA	HCl pH<2	4°C ± 2°C	**	**	µg/L
Volatile Suspended Solids - VSS	SM 2540G	7 Days	2L Plastic	None	4°C ± 2°C	5	5	mg/L
WET TEST** for STLC values			1L liquid	None	4°C ± 2°C	**	**	
Zinc – Zn	EPA 200.7 EPA 200.8	NP: 2 weeks	250mL Plastic	HNO_3 pH<2: 6 mos HT		10 5	30 10	µg/L

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