Parameter	Matrix	Prep Method	Analytical Method	Holding Time[5]	Minimum Volume	Sampling Container	Sampling Preservative[7]
TPH/Diesel [3]	Water	EPA 3520C	EPA 8015B	14/ 40 [6]	500 mL	1L G	None
	Soil	CA LUFT[4]	EPA 8015B	14/ 40 [6]	50 g		
		EPA 3550C	EPA 8015B	14/ 40 [6]	50 g		
TPH/Gasoline [2]	Water	EPA 5030B	EPA 8015B	14 days	40 mL	2 x 40mL VOA	HCL[8]
		EPA 5030B	EPA 8260B-m	14 days	40 mL	2 x 40mL VOA	HCL[8]
	Soil	EPA 5030B	EPA 8015B	14 days	5 g		
		EPA 5035	EPA 8015B	7 days	5 g	'Encore' or similar	frozen
Alcohols (Methanol, Ethanol)	Water	Direct Inject	EPA 8015B	14 days	40 mL	2x40mL VOA	None
BTXE [1]	Water	EPA 5030B	EPA 8021B	14 days	40 mL	2 x 40mL VOA	HCL[8]
	Soil	EPA 5030B[9]	EPA 8021B	14 days	5 g		
Carbon Dioxide (dissolved)	Water	METHOD[4]	RSK-175	14 days	40 mL	3x40mL VOA	None
Creosote, coal tar	Water	EPA 3520C	EPA 8270C	7/ 40 [6]	1 L	1L G	None[8]
	Soil	EPA 3550C	EPA 8270C	14/ 40 [6]	30 g		
1,4-Dioxane	Water	EPA 3520C	EPA 8270-SIM	7/ 40 [6]	1 L	1L G	None[8]
	Soil	EPA 3550C	EPA 8270-SIM	14/ 40 [6]	30 g		
Dioxins & Furans	Water	METHOD[4]	EPA 8280A	30/ 45 [6]	1 L	1L G	None[8]
	Soil	METHOD[4]	EPA 8280A	30/ 45 [6]	10 g		
Dioxins & Furans (Low Concentration)	Water	METHOD[4]	EPA 8290	30/ 45 [6]	1 L	1L G	None[8]
	Soil	METHOD[4]	EPA 8290	30/ 45 [6]	10 g		
Dissolved Gasses (except CO_2)	Water	METHOD[4]	RSK-175	14 days	40 mL	3x40mL VOA	HCL
Dissolved Gasses (CO_2)	Water	METHOD[4]	RSK-175	14 days	40 mL	3x40mL VOA	None
Explosives (Nitroaromatics & Nitramines)	Water	EPA 3535	EPA 8330	7/ 40 [6]	1 L	1L G	None[8]
	Soil	METHOD[4]	EPA 8330	14/ 40 [6]	10 g		
Gasoline Oxygenates	Water	EPA 5030B	EPA 8260B	14 days	40 mL	2x40mL VOA	HCL[8]
	Soil	EPA 5030B[9]	EPA 8260B	14 days	5 g		
Halogenated VOCs (old 8010 list)	Water	EPA 5030B	EPA 8260B	14 days	40 mL	2x40mL VOA	HCL[8]
	Soil	EPA 5030B[9]	EPA 8260B	14 days	5 g		
MTBE (Methyl tert-Butyl Ether)	Water	EPA 5030B	EPA 8021B	14 days	40 mL	2x40mL VOA	HCL[8]
		EPA 5030B	EPA 8260B	14 days	40 mL	2x40mL VOA	HCL[8]
	Soil	EPA 5030B[9]	EPA 8021B	14 days	5 g		
		EPA 5030B[9]	EPA 8260B	14 days	5 g		
Nitroaromatics & Nitramines (Explosives)	Water	EPA 3535	EPA 8330	7/ 40 [6]	1 L	1L G	None[8]
	Soil	METHOD[4]	EPA 8330	14/ 40 [6]	10 g		
Organochlorine Herbicides	Water	METHOD[4]	EPA 8151A	7/ 40 [6]	1 L	1L G	None
	TCLP Leachate	EPA 3520C	EPA 8270C	7/ 40 [6]	1 L	1L G	None
	Soil	METHOD[4]	EPA 8151A	14/ 40 [6]	30 g		
Organochlorine Pesticides	Water	EPA 3520C	EPA 8081A	7/ 40 [6]	1 L	1L G	None
		EPA 608	EPA 608	7/ 40 [6]	1 L	1L G	None
	TCLP Leachate	EPA 3520C	EPA 8270C	7/ 40 [6]	1 L	1L G	None
	Soil	EPA 3550C	EPA 8081A	14/ 40 [6]	30 g		
		EPA 3545	EPA 8081A	14/ 40 [6]	15 g		
PCBs (Polychlorinated Biphenyl)	Water	EPA 3520C	EPA 8082	7/ 40 [6]	1 L	1L G	None
		EPA 608	EPA 608	7/ 40 [6]	1 L	1L G	None
	TCLP Leachate	EPA 3520C	EPA 8270C	7/ 40 [6]	1 L	1L G	None

Parameter	Matrix	Prep Method	Analytical Method	Holding Time[5]	Minimum Volume	Sampling Container	Sampling Preservative[7]
	Soil	EPA 3550C	EPA 8082	14/ 40 [6]	30 g		
		EPA 3545	EPA 8082	14/ 40 [6]	15 g		
PCB Congeners	Water	EPA 3520C	EPA 8082	7/ 40 [6]	1 L	1L G	None
	Soil	EPA 3550C	EPA 8082	14/ 40 [6]	30 g		
		EPA 3545	EPA 8082	14/ 40 [6]	15 g		
Pentachlorophenol	Water	EPA 3520C	EPA 8270C	7/ 40 [6]	1 L	1L G	None[8]
	Soil	EPA 3550C	EPA 8270C	14/ 40 [6]	30 g		
Phenols (including cresols)	Water	EPA 3520C	EPA 8270C	7/ 40 [6]	1 L	1L G	None[8]
	Soil	EPA 3550C	EPA 8270C	14/ 40 [6]	30 g		
Phthalates	Water	EPA 3520C	EPA 8270C	7/ 40 [6]	1 L	1L G	None[8]
	Soil	EPA 3550C	EPA 8270C	14/ 40 [6]	30 g		
Polynuclear Aromatic Hydrocarbons	Water	EPA 3520C	EPA 8270C	7/ 40 [6]	1 L	1L G	None[8]
		EPA 3520C	EPA 8270-SIM	7/ 40 [6]	1 L	1L G	None[8]
		EPA 3520C	EPA 8310	7/ 40 [6]	1 L	1L G	None[8]
	Soil	EPA 3550C	EPA 8270C	14/ 40 [6]	30 g		
		EPA 3550C	EPA 8270-SIM	14/ 40 [6]	30 g		
		EPA 3550C	EPA 8310	14/ 40 [6]	30 g		
Semivolatile Organics	Water	EPA 3520C	EPA 8270C	7/ 40 [6]	1 L	1L G	None[8]
		EPA 625	EPA 625	7/ 40 [6]	1 L	1L G	None[8]
	TCLP Leachate	EPA 3520C	EPA 8270C	7/ 40 [6]	1 L	1L G	None
	Soil	EPA 3550C	EPA 8270C	14/ 40 [6]	30 g		
TCLP Extraction for Semivolatiles	Soil	EPA 1311	various	14 days	100 g [10]		
TCLP-ZHE Extraction for Volatiles	Soil	EPA 1311	various	14 days	25 g		
Volatile Organics	Water	EPA 5030B	EPA 8260B	14 days	40 mL	2x40mL VOA	HCL[8]
		EPA 624	EPA 624	14 days	40 mL	2x40mL VOA	HCL[8]
	TCLP Leachate	EPA 5030B	EPA 8260B	14 days	40 mL		None
	Soil	EPA 5030B	EPA 8260B	14 days	5 g		
		EPA 5035	EPA 8260B	7 days	5 g	'Encore' or similar	Frozen

NOTES:

1.) Benzene, toluene, ethylbenzene, and xylenes: MTBE (methyl tert-butyl ether) may be added upon request.

2.) Total Petroleum Hydrocarbons as Gasoline: JP-4, Mineral spirits, or Stoddard solvent may be added upon request. Reporting limits may be higher for fuels other than gasoline.

3.) Total Petroleum Hydrocarbons as Diesel: motor oil, commercial jet fuel, JP-5, hydraulic oil, transformer oil, or Bunker C may be added upon request. Reporting limits may be higher for fuels other than diesel.

4.) CA LUFT: California Department of Health Services Leaking Underground Fuel Tank Manual, October 1989. "Method" indicates that the prep method is an integral part of the analytical method.

5.) Holding times specified in 40CFR 136.3 Table 2 (Clean Water Act/ NPDES) and SW-846 Table 2-36 Revision 3, December 1996.

LEGEND:

VOA: amber VOA vial

G: amber glass

P: Polyethylene

6.) X/Y: X days from sample collection to extraction, then Y days from extraction to analysis.

7.) Samples should be kept at 4^0C from time of collection until analysis. Preserved containers can be supplied by C&T.
HCL (hydrochloric acid) to pH < 2, H_2SO_4 (sulfuric acid) to pH < 2, NaOH (sodium hydroxide) to pH > 12

8.) Free chlorine should be neutralized with 0.008% $Na_2S_2O_3$.

9.) Prep method EPA 5035, using Encore (or equivalent) sampling devices, may be used in place of EPA 5030. Contact lab for details.

10.) 100g minimum for TCLP Extraction. 50g required for each analysis.