

UNDERGROUND STORAGE TANK SYSTEM CLOSURE SAMPLING AND LABORATORY ANALYSES REQUIREMENTS

For Use By All Jurisdictions, Cities and County, Within the Limits of Santa Clara County

This document describes required analyses for closure of underground storage tank (UST) systems and associated remediation (soil excavation) activities occurring anywhere within Santa Clara County.

- This table incorporates known contaminants associated with the specific SUBSTANCE (minimally referenced to the State Water Resources Control Board's [LUFT Guidance Manual](#)).
- It is subject to change at any time and can be modified by the regulator for any specific SUBSTANCE based on site-specific circumstances.
- Soil samples shall be collected in stainless steel or brass sleeves and sealed with Teflon® sheets and plastic end caps. Alternatively, En Core® or Terra Core-type samplers are acceptable. The use of glass jars for soil sampling is not acceptable. Groundwater should also be sampled if present and analyzed according to the requirements below.

If you have any questions regarding these requirements, please contact the Santa Clara County Environmental Health's Local Oversight Program (LOP) at (408) 918-3400.

SUBSTANCE STORED	ANALYTES	ANALYTICAL METHOD
Gasoline	Total Petroleum Hydrocarbons (TPH) as Gasoline	EPA 8015 or 8260B/C/D
	BTEX ¹ , Fuel Oxygenates, ² and Naphthalene	EPA 8260B/C/D
	Lead Scavengers ³ (only if pre-1992 tanks are present)	EPA 8260B/C/D
Diesel, Jet Fuel, Kerosene, or Fuel/Heating Oil (Excluding Bunker Fuel)	TPH as specific to known fuel (e.g., TPH as Diesel) ⁴	EPA 8015
	BTEX ¹ , Fuel Oxygenates ² , and Naphthalene	EPA 8260B/C/D
Unknown Substance, Waste Oil, or Bunker Fuel	TPH as Gasoline, Diesel, and Oil Range Organics ⁴	EPA 8015 (quantified to standard that best matches)
	Volatile Organic Compounds, including chlorinated hydrocarbons (full scan) ⁵	EPA 8260B/C/D
	Metals: Cd, Cr, Ni, Pb, and Zn (soil only)	EPA 6010/6020 or 7000
	Polycyclic Aromatic Hydrocarbons (PAHs) ⁶	EPA 8270C SIM

¹. BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes (Total)

². Fuel Oxygenates includes: Methyl Tertiary Butyl Ether (MTBE), Tert Butyl Alcohol (TBA), Tert Amyl Ether (TAME), Di-Isopropyl Ether (DIPE), and Ethyl T-Butyl Ether (ETBE).

³. Lead Scavengers = 1,2-Dibromomethane [Ethylene Dibromide (EDB)] and 1,2-Dichloroethane [Ethylene Dichloride (EDC)] only if release is pre-1992. If age of release is unknown, analyze for both Fuel Oxygenates and Lead Scavengers.

⁴. Silica gel cleanup is allowed for diesel analysis when a companion run is made without silica gel cleanup.

⁵. The analysis for PAHs must include Naphthalene, Acenaphthene, Acenaphthylene, Anthracene, Chrysene, Fluorine, Fluoranthene, Phenanthrene, Pyrene, Benzo(b)fluoranthene, Benzo(a)pyrene, Benzo(k)fluoranthene, Benzo(a)anthracene, Indeno(1,2,3-c,d)pyrene, Dibenz(a,h)anthracene, and Benzo(g,h,i)perylene.