



**SANTA BARBARA COUNTY ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION / CUPA**

Laboratory Analyses for Samples Collected at UST Sites

CURRENT & HISTORIC UST CONTENTS	LABORATORY ANALYSES		DETECTION LIMITS	
	Contaminant	Soil / Groundwater	Soil	Groundwater
GASOLINE	TPH(C ₅ -C ₁₂) or TPPH	8015 _(GRO) or 8260B	5.0 ppm	50 ppb
	VOCs ¹	8260B (full scan) + oxygenates	5 ppb BTXE, MTBE 10 ppb ETBE, DIPE, TAME 50 ppb TBA 1 ppm Ethanol All other VOCs - Lowest detections possible	0.5 ppb BTXE 1 ppb MTBE 5 ppb ETBE, DIPE, TAME 10 ppb TBA 1 ppm Ethanol All other VOCs - Lowest detections possible
	Total Lead ²	SW-846 Methods	5 ppm	5.0 ppb
DIESEL	TPH(C ₁₀ -C ₂₄)	8015 _(DRO)	10.0 ppm	0.5 ppm
	VOCs ¹	8260B (full scan) + MTBE	5 ppb BTXE & MTBE All other VOCs - Lowest detections possible	0.5 ppb BTXE 1 ppb MTBE All other VOCs - Lowest detections possible
Mixed or Unknown Fuels	TPH(C ₅ -C ₄₀)	8015(carbon chain)	5.0 ppm	50 ppb
	VOCs ¹	8260B (full scan) + oxygenates	5 ppb BTXE, MTBE 10 ppb ETBE, DIPE, TAME 50 ppb TBA 1 ppm Ethanol All other VOCs - Lowest detections possible	0.5 ppb BTXE 1 ppb MTBE 5 ppb ETBE, DIPE, TAME 10 ppb TBA 1 ppm Ethanol All other VOCs - Lowest detections possible
	Total Lead ²	SW-846 Methods	5 ppm	5.0 ppb
Waste Oil	TPH(C ₂₄ -C ₄₀)	8015 _(ORO)	10.0 ppm	0.5 ppm
	VOCs ¹	8260B (full scan)	Lowest detections possible	Lowest detections possible
	PAHs ³	8270	Lowest detections possible	Lowest detections possible
	Title 22 Metals: Cd, Cr, Pb, Zn, Ni ³	SW-846 Methods	Specific to Analysis - Lowest detections possible	Specific to Analysis - Lowest detections possible

¹ Analyze for all 8260B compounds (full scan) - approximately 45 compounds. Report & identify all peaks on chromatographs.

² Lead shall be analyzed at all UST sites dispensing fuel prior to 1992 and at non-fuel UST sites. Analyze all samples with TPH detections for lead. If no TPH detections, analyze a minimum of one sample per tank for lead.

³ Analyze all TPH detections for these compounds.

TPPH = Total Purgeable Petroleum Hydrocarbons
 GRO = Gasoline range organics (C₅-C₁₂)
 DRO = Diesel range organics (C₁₀-C₂₄)
 ORO = Oil range organics (C₂₄-C₄₀)
 VOCs = Volatile organic compounds
 PAHs = Polynuclear aromatic hydrocarbons

Santa Barbara County does not require field sample preparation/preservation using EPA method 5035 (Encore).

*Document available in an alternate format upon request