

NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES RECOMMENDED ANALYTICAL METHODS FOR PETROLEUM CONTAMINATED SITES (see note 1)

PETROLEUM PRODUCT	WATER MATRIX			SOIL MATRIX (see note 2)		
		Recommended Analytical Methods			Recommended Analytical Methods	
	Analytes	Initial Round	All Other Samples (see notes 3 & 9)	Analytes	Initial Round	All Other Samples (see note 3)
Gasoline and similar weight product	VOC (see note 4)	Full VOC List	Full VOC List	VOC (see note 4) TPH-as Gasoline	Full VOC List (see note 8) 8015B-GRO (see note 8)	Full VOC List (see note 8) 8015B-GRO (see note 8)
No. 2, 4, 6 Fuel Oil Diesel Waste Oil (see note 5) and similar weight product	VOC (see note 4) PAH (see notes 6 & 10)	Full VOC List 8310 or 525 or 8270 (see note 7)	Full VOC List 8310 or 525 or 8270 (see note 7)	VOC (see note 4) PAH(see note 6), TPH-as Fuel Oil As, Ba, Cd, Cr, Pb, Hg, Se, Ag (waste oil only- see note 5)	Full VOC List (see note 8) 8270 or 8310, 8015B-DRO 6010 or 7060, 7080, 7130, 7190, 7420, 7470, 7740 cold vapor, 7760	Full VOC List (see note 8) 8270 or 8310 8015B-DRO 6010 or 7060, 7080, 7130, 7190, 7420, 7470, 7740 cold vapor, 7760
TPH: Total Peti DRO: Diesel Ra GRO: Gasoline	Drganic Compounds roleum Hydrocarbons ange Organics Range Organics latic Hydrocarbons	TCI AG	LP: Toxicity Characteris QS: Ambient Groundwa	tic Leaching Procedure Iter Quality Standards	hy / Flame Ionization Detec zation and Management Po	

NOTES: (1) EPA method results must be reported to DES according to SW 846 current edition.

(2) Soils destined for off-site treatment must be analyzed in accordance with Env-Or 611.

(3) For the purpose of site closure, the analytical method shall be capable of detecting concentrations at or below the regulatory cleanup level.

(4) For VOC analytical methods and reporting requirements, see the footnotes in the "NHDES Waste Management Division Full List of Analytes for Volatile Organics"

(5) Metals analysis must be performed on waste oil contaminated soils. Soil standards in the NHDES RCMP (Appendix E) are based on total metals.

Analysis for soils destined for off-site treatment is based on TCLP.

(6) PAH analysis shall be completed on all sampling locations during the initial round of sampling for soil and water.

(7) DES may require multiple dilution runs or compound specific analysis for selected compounds to reach the required VOC standard.

(8) Soil samples collected for VOC analysis shall use EPA 5035 (methanol preservation) as required in the NH DES Soil Policy.

(9) DES may require additional field testing and laboratory analysis of geochemical indicators on a site-specific basis.

(10) All groundwater samples for PAH analysis shall be field-filtered.