siteLAB
Petroleum Hydrocarbon Solutions

Sitelab Corporation
Visit: site-lab.com
USA: 978-363-2299

No. 6 Fuel Oil Sites

No. 6 fuel oils (heavy fuel oil, bunker C oil) is often used in industry for heat, steam or power generation. A consultant used Sitelab to investigate two different spill sites contaminated with subsurface plumes of NAPL resulting from leaking underground storage tanks (USTs).

Soils were collected from borings using a drill rig and field screened for their EPH aromatic content. Split samples were then carefully homogenized and sent to an off-site laboratory for confirmation analysis.


EXTR010-20

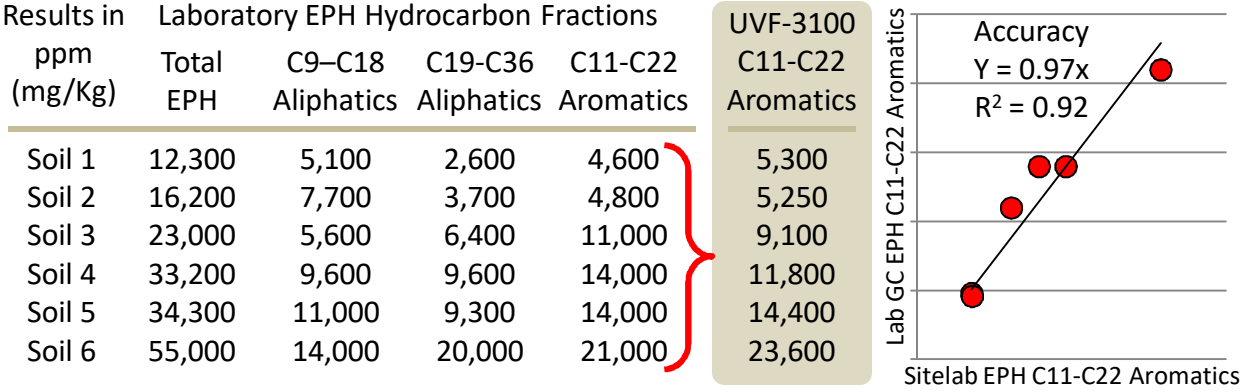

UVF-3100


CAL-060

Samples are extracted in methanol using test kits and then measured on the UVF analyzer's EPH optics calibrated to Sitelab's PAH Calibration Kit. Results correlate well to the Mass DEP's EPH method by GC-FID.

Site 1: Wire Factory in Connecticut Testing Soils for EPH C11-C22 Aromatics

Results in ppm (mg/Kg)	Laboratory EPH Hydrocarbon Fractions				UVF-3100
	Total EPH	C9–C18 Aliphatics	C19-C36 Aliphatics	C11-C22 Aromatics	C11-C22 Aromatics
Soil 1	12,300	5,100	2,600	4,600	5,300
Soil 2	16,200	7,700	3,700	4,800	5,250
Soil 3	23,000	5,600	6,400	11,000	9,100
Soil 4	33,200	9,600	9,600	14,000	11,800
Soil 5	34,300	11,000	9,300	14,000	14,400
Soil 6	55,000	14,000	20,000	21,000	23,600

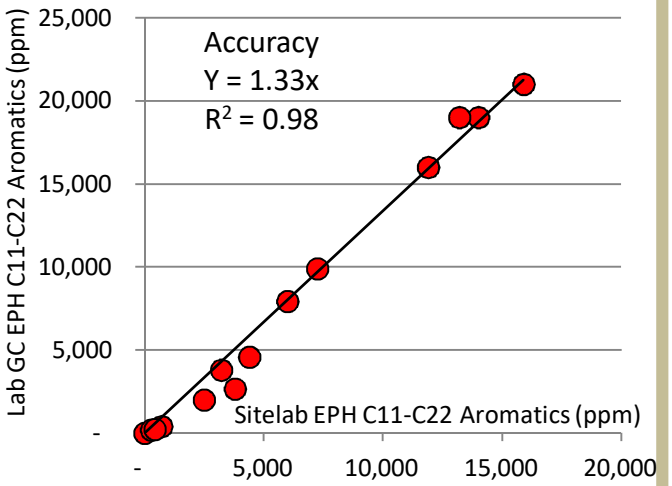



Soil boring contaminated by No. 6 fuel showing NAPL seam

Subsurface Environmental Solutions, LLC
Contact our customer for details
www.subenviro.com (781) 608-6119

Site 2: Paper Mill in Massachusetts Testing Soils for EPH C11-C22 Aromatics

Results in ppm (mg/Kg)	Lab EPH C11-C22 Aromatics	UVF-3100 C11-C22 Aromatics
Soil 1	7	12
Soil 2	200	287
Soil 3	240	440
Soil 4	410	720
Soil 5	2,000	2,500
Soil 6	2,670	3,800
Soil 7	3,800	3,220
Soil 8	4,580	4,400
Soil 9	7,930	6,000
Soil 10	9,900	7,250
Soil 11	16,000	11,900
Soil 12	19,000	13,200
Soil 13	19,000	14,000
Soil 14	21,000	15,900



con-test ANALYTICAL LABORATORY
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Choosing a good certified laboratory can make a big difference! Con-Test was used by client for both sites

