



Petroleum Hydrocarbon Solutions

Sitelab Corporation

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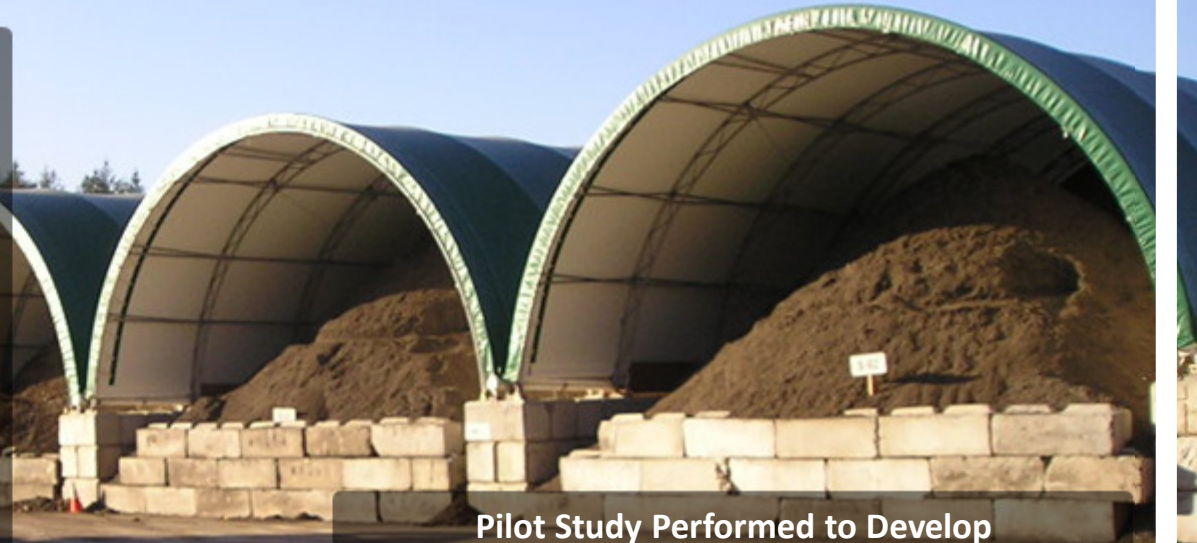
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Testing Benzo[a]Pyrene using TD-500D Analyzer at Bioremediation Facility

King County Department of Transportation in Seattle monitors PAHs to help determine if their bioremediated soil meets or exceeds state cleanup levels for Benzo[a]Pyrene. The Street Waste Alternative Program (SWAP), manages 10,000 to 15,000 cubic yards of material a year, generated from road maintenance operations. The soils consist of catch basin sediments and street sweepings which are composted and treated. The processed soils are tested to ensure that any pollutant levels are within acceptable concentrations prior to reuse for on-site low risk applications.



Engineer tests soil samples on location to check concentrations of PAHs and Benzo[a]Pyrene



Pilot Study Performed to Develop PAH Response Factor for Benzo[a]Pyrene:

Samples Collected From	TD-500D PAH Results	Certified Lab Benzo[a]Pyrene Results	Response Factor (RF)	Estimated Benzo[a]Pyrene Results*
Four Stockpiles				
Soil 1	28 ppm	0.81 ppm	35	0.55 ppm
Soil 2	32 ppm	0.65 ppm	49	0.63 ppm
Soil 3	29 ppm	0.45 ppm	64	0.57 ppm
Soil 4	31 ppm	0.57 ppm	54	0.61 ppm

Avg RF = 51



*Benzo[a]Pyrene is estimated by dividing the TD-500D PAH results by 51. Good correlation was exhibited when compared to the certified laboratory using EPA Method 8270, indicating this compound is fairly proportionate, providing reliable estimated values.