# Jet Fuel Identification

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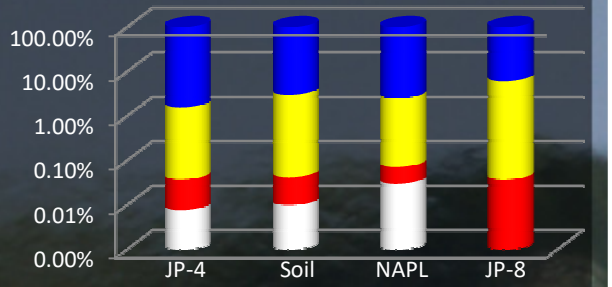
Jet fuels contain mostly kerosene. JP-4 and JP-8 were once used for military aircraft. JET-A is now used and is used for all commercial airliners. AVGAS is used for small engine planes. Examples shown here are from two sites contaminated by different types of jet fuel. Soils and NAPLs collected from monitoring wells were analyzed. Samples from the air force base have signatures similar to JP-4, while the signatures in the samples from the airport in Alaska match well to a JET-A release.

GRO (BTEX)
Total PAHs
Target PAHs
Heavy PAHs

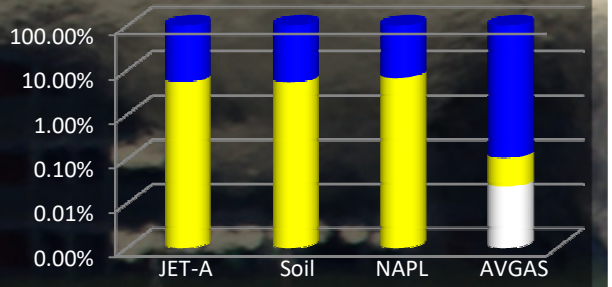
UVF-3100D Analyzer

TD-500D Analyzer

| Westover Air Force Base ppm (mg/Kg) | GRO (BTEX): | Total PAHs: | Target PAHs: | Heavy PAHs: |
|---|---|---|---|---|
| Soil Result | 6,900 | 210 | 2.3 | 0.7 |
| NAPL Result | 260,000 | 6,500 | 110 | 80 |




| Anchorage Int'l Airport ppm (mg/Kg) | GRO (BTEX): | Total PAHs: | Target PAHs: | Heavy PAHs: |
|---|---|---|---|---|
| Soil Result | 2,080 | 115 | 0.0 | 0.0 |
| NAPL Result | 225,000 | 16,500 | 0.0 | 0.0 |




Note: Since PAH content in jet fuels are so low, graphs displayed here are in logarithmic scale

Sitelab correlates well to certified laboratory methods. The results below show the accuracy testing "TPH" in soils from Westover Air Force Base in Massachusetts