

# COMPOSITION OF PETROLEUM MIXTURES (TOTAL PETROLEUM HYDROCARBON CRITERIA WORKING GROUP SERIES) pdf

## 1: RTDF Phytoremediation Action Team Field Study Protocol, July

*The overlying theme to this series is the importance of exposure potential when defining human health risk. The fate and transport of a chemical or mixture defines the exposure route, and in conjunction with receptor properties, concentrations at receptors.*

This table has been developed for specific purposes. It is intended to provide conservative cleanup levels for drinking water beneficial uses at sites undergoing routine cleanup actions or those sites with relatively few hazardous substances. This table may not be appropriate for defining cleanup levels at other sites. For these reasons, the values in this table should not automatically be used to define cleanup levels that must be met for financial, real estate, insurance coverage or placement, or similar transactions or purposes. Exceedances of the values in this table do not necessarily mean the groundwater must be restored to those levels at all sites. The level of restoration depends on the remedy selected under WAC through Cleanup level based on background concentrations for state of Washington. Cleanup level based on applicable state and federal law WAC and 40 C. If other carcinogenic PAHs are suspected of being present at the site, test for them and use this value as the total concentration that all carcinogenic PAHs must meet using the toxicity equivalency methodology in WAC 8. Cleanup level based on concentration derived using Equation for hexavalent chromium. Cleanup levels based on concentration derived using Equation Cleanup level based on concentration derived using Equation , adjusted for the practical quantitation limit. Cleanup level based on applicable state and federal law 40 C. Cleanup level based on concentration derived using Equation This is a total value for naphthalene, 1-methyl naphthalene and 2-methyl naphthalene. This cleanup level is a total value for all PCBs. Cleanup level based on applicable state law WAC TPH cleanup values have been provided for the most common petroleum products encountered at contaminated sites. Examples are aviation and automotive gasoline. The cleanup level is based on protection of groundwater for noncarcinogenic effects during drinking water use. Two cleanup levels are provided. The higher value is based on the assumption that no benzene is present in the groundwater sample. If any detectable amount of benzene is present in the groundwater sample, then the lower TPH cleanup level must be used. No interpolation between these cleanup levels is allowed. The groundwater cleanup level for any carcinogenic components of the petroleum [such as benzene, EDB and EDC] and any noncarcinogenic components [such as ethylbenzene, toluene, xylenes and MTBE], if present at the site, must also be met. See Table for the minimum testing requirements for gasoline releases. Examples are diesel, kerosene, and 1 and 2 heating oil. The cleanup level is based on protection from noncarcinogenic effects during drinking water use. The groundwater cleanup level for any carcinogenic components of the petroleum [such as benzene and PAHs] and any noncarcinogenic components [such as ethylbenzene, toluene, xylenes and naphthalenes], if present at the site, must also be met. See Table for the minimum testing requirements for diesel releases. Examples are 6 fuel oil, bunker C oil, hydraulic oil and waste oil. The cleanup level is based on protection from noncarcinogenic effects during drinking water use, assuming a product composition similar to diesel fuel. The groundwater cleanup level for any carcinogenic components of the petroleum [such as benzene, PAHs and PCBs] and any noncarcinogenic components [such as ethylbenzene, toluene, xylenes and naphthalenes], if present at the site, must also be met. See Table for the minimum testing requirements for heavy oil releases. Sites using this cleanup level must analyze groundwater samples for PCBs and meet the PCB cleanup level in this table unless it can be demonstrated that: See Table for the minimum testing requirements for mineral oil releases. Cleanup level based on xylene not exceeding the maximum allowed cleanup level in this table for total petroleum hydrocarbons and on prevention of adverse aesthetic characteristics. This is a total value for all xylenes.

## 2: Total Petroleum Hydrocarbon Criteria Working Group [WorldCat Identities]

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*This document describes the chemical composition and characteristics of petroleum fuel mixtures. It presents the salient features of petroleum chemistry, describes petroleum fuel mixture production, and displays composition data tables that are summaries from many sources for each of the petroleum fuel mixtures.*

### 3: API | Resource Center for Risk-Based Methodologies

*TPH Working Group Series, Volumes The overlying theme to this series is the importance of exposure potential when defining human health risk. The fate and transport of a chemical or mixture defines the exposure route, and in conjunction with receptor properties, concentrations at receptors.*

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