

REFERENCE 1

Chemicals of Concern Tennessee Division of Underground Storage Tanks Effective December 1, 2005

Product Released	Chemicals To Sample Drinking Water	Chemicals To Sample Non-Drinking Water	Chemicals To Sample Surface Drinking Water***	Chemicals To Sample Surface Non-Drinking Water***
Gasoline	Benzene Ethylbenzene Toluene Total Xylenes MtBE Naphthalene	Benzene Ethylbenzene Toluene Total Xylenes MtBE Naphthalene	Benzene Ethylbenzene Toluene Total Xylenes	Benzene Ethylbenzene Toluene
Diesel* Jet Fuel Kerosene	Benzene Ethylbenzene Toluene Total Xylenes MtBE PAHs	Benzene Ethylbenzene Toluene Total Xylenes MtBE Naphthalene	Benzene Ethylbenzene Toluene Total Xylenes Benzo(a)pyrene	Benzene Ethylbenzene Toluene Modified PAHs*****
Waste Oil* Used Oil	PAHs Cadmium Chromium, Total Lead, Total Silver Zinc	Naphthalene	Benzo(a)pyrene Cadmium Chromium, Total Lead, Total	Modified PAHs*****
Aviation Fuel*	Benzene Ethylbenzene Toluene Total Xylenes MtBE EDB***** EDC PAHs Lead, Total	Benzene Ethylbenzene Toluene Total Xylenes MtBE Naphthalene EDB EDC Lead, Total	Benzene Ethylbenzene Toluene Total Xylenes EDB***** EDC Benzo(a)pyrene Lead, Total	Benzene Ethylbenzene Toluene EDC Modified PAHs***
Unknown**	Aviation + Waste Oil	Aviation + Waste Oil	Aviation + Waste Oil	Aviation + Waste Oil

*EPH to be sampled only during closure and analyzed by TN Extractable Petroleum Hydrocarbons (EPH) Method

**Tanks with unknown contents will be required to analyze all COCs

***Chemicals to be sampled **only** at the surface water receptor

****Modified PAHs - Reference 2 list minus Acenaphthylene, Benzo(g,h,i)perylene, Naphthalene, and Phenanthrene

*****EDB drinking water samples shall be analyzed by EPA method 8011

BTEX, MtBE, Naphthalene, EDB and EDC shall be analyzed by EPA method 8260b

PAHs shall be analyzed by either EPA method 8270c SIM **or** EPA method 8310

Metals shall be analyzed by EPA method 200.7 for water and EPA method 6010/3050 for soil