

Wisconsin Cleanup Standards for Hydrocarbon Contaminated Groundwater

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Cleanup Level ¹
Gasoline	GRO	DNR WI Modified GRO	*	any amount	site specific
	VOC(2)	EPA 5030/8021	*	any amount	compound specific
	PVOC(3)	EPA 5030/8021 or 5030/8020	*	any amount	compound specific
	Benzene	EPA 5030/8021 or 5030/8020	*	any amount	5µg/L
	Toluene	EPA 5030/8021 or 5030/8020	*	any amount	1mg/L
	Xylenes	EPA 5030/8021 or 5030/8020	*	any amount	10mg/L
	Ethylbenzene	EPA 5030/8021 or 5030/8020	*	any amount	700µg/L
	MTBE(2)	EPA 8021	*	any amount	60µg/L
	Trimethylbenzene(s)**	EPA 8021	*	any amount	480µg/L
	Lead(2)	EPA 3020/7421	*	any amount	15µg/L
Diesel	GRO, VOC(2), PVOC(3)	same as above for gasoline	*	none	
	PAHs	EPA 8310	*	any amount	Compound specific
	BTEX & MTBE	same as above for gasoline	*		
Waste Oil	PCBs	EPA 3510/8080 or 3520/8080	*	any amount	0.03µg/L
	DRO,VOC(2), PVOC	same as above for gasoline	*	none	
	Lead(2)	EPA 3020/7421	*		15µg/L
	Cd	EPA 3020/7131	*	any amount	5µg/L

	Benzo(a)pyrene	EPA 8310	*	any amount	0.2µg/L
	Fluorene	EPA 8310	*	any amount	400µg/L
	Naphthalene	EPA 8310	*	any amount	40µg/L
	Other PAHs	proposed site specific	*		

Note: Wisconsin's groundwater quality standards are based on a two-tiered system and response actions vary depending on the tier level exceeded. The two tiers are the Preventive Action Limit, the more stringent, and Enforcement Standards, both per Wisconsin Administrative Code NR140.

* Test Specific.

** 1,2,4- and 1,3,5-Trimethylbenzene, combined.

(1) Wisconsin Administration, Code NR 140 Enforcement Standard (ES), is the enforceable cleanup level. The Preventive Action Level (PAL), the cleanup goal, is a lesser concentration of the ES. The PAL must also be achieved unless it is not a technically and economically feasible to do so. The PAL is 10% of the ES for carcinogens, mutagens and teratogens. The PAL is 20% of the ES for all other substances of health concern.

(2) Sample at least once.

(3) Petroleum Volatile Organic Compounds defined in analytical guidance.

Contact: Will (Woody) Myers, Team Leader, Bureau of Remediation and Redevelopment, Wisconsin Department of Natural Resources. 608-273-5613.

Email: Will.Myers@Wisconsin.gov

Web Site: <http://www.legis.state.wi.us/rsb/code/>

Wisconsin Cleanup Standards for Hydrocarbon Contaminated Soil

Product	Parameter/ Constituent	Lab Test Protocol & Number	Detection Level	Notification Level	Cleanup Level
Gasoline	GRO	WI DNR Modified GRO	*	any amount	100 mg/kg, or site specific
	VOC	EPA 5030/8021 or 8260	*	any amount	compound specific
	PVOC	EPA 5030/8021 or 8260	*	any amount	compound specific
	Benzene	EPA 5030/8021 or 8260	*	any amount	5.5 µg/kg, or site specific
	Toluene	EPA 5030/8021 or 8260	*	any amount	1500 µg/kg, or site specific
	Xylenes	EPA 5030/8021 or 8260	*	any amount	4100 µg/kg, or site specific
	Ethylbenzene	EPA 5030/8021 or 8260	*	any amount	2900 µg/kg, or site specific
	MTBE	EPA 8260	*	any amount	site specific
	Trimethylbenzene(s)	EPA 5030/8021 or 8260	*	any amount	site specific
	Lead	EPA 3050/7421	*	any amount	50 mg/kg, or site specific
Diesel	DRO	WI DNR Modified DRO	*	any amount	100 mg/kg, or site specific
	VOC	EPA 8260 or 5030/8021	*	any amount	compound specific
	PAH	EPA 8310, 3540/8270 or 3550/8270	*	any amount	site specific
Waste Oil	PAH	EPA 8310, 3540/8270 or 3550/8270	*	any amount	site specific
	DRO	WI DNR Modified DRO	*	any amount	100 mg/kg, or site specific
	VOC	EPA 5030/8021 or 8260	*	any amount	compound specific

	PCB	EPA 3540/8082 or 3550/8082	*	any amount	site specific
	Pb	EPA 3050/7420 or 3050/7421 or 3050/6010	*	any amount	50 mg/kg, or site specific
	Cd	EPA 3050/7130 or 3050/7131 or 3050/6010	*	any amount	8 mg/kg or site specific

* Test Specific.

Site specific - may require investigation, may require Cleanup.

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