



OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY
Underground Storage Tank Program

**SOIL MATRIX CHECKLIST AND
SOIL MATRIX SCORESHEET**

- 1. The release of petroleum has been reported to the DEQ (0220).
- 2. The matrix score sheet has been completed for this site, unless the site is cleaned up to the most stringent cleanup level (0320).
- 3. The required hydrocarbon identification test (NWTPH-HCID) has been performed (0335(3)), and, if detectable levels were found, the appropriate analytical method or methods have been used to measure the levels of contamination (0218).
- 4. A sketch has been made of this site (0345(1)) which clearly shows:
 - a. The location of all buildings and other key features, both man-made and natural;
 - b. The names of adjacent streets and properties;
 - c. The location of all excavations including those that were for the removal of tanks and associated piping as well as those that were strictly for the removal of contaminated soils;
 - d. The location of all product storage tanks, lines and dispensers, including those that were decommissioned as well as those that remain on the site; and
 - e. All soil and water sample locations.
- 5. If any contaminated soil exceeding matrix limits has been left on site, the reason for leaving this soil has been explained and the requirements of 0340(1)(f) and 0355(4) have been met.
- 6. If water was present in the tank pit, the Department was notified, the water was pumped from the pit, and the requirements of 0340(4) have been met.
- 7. All soil and/or water samples have been collected, coded, stored and shipped as specified in the rules, and proper chain-of-custody forms have been filled out (0345).
- 8. If a release from a waste oil tank was discovered, at least one sample has been analyzed by the methods specified in 0218(1)(b)(D).
- 9. If a tank was decommissioned in place, the Department gave prior approval for a site-specific sampling plan (0340(5)).
- 10. A report has been prepared which includes a detailed description of everything that was observed and performed at the site, contains all of the information required by the rules (0360), and presents findings and recommendations which are consistent with Department regulations.

SOIL MATRIX SCORE SHEET

1.	Depth to Groundwater		
	< 25 feet	(10)	
	25 - 50 feet	(7)	
	51 - 100 feet	(4)	
	> 100 feet	(1)	
2.	Mean Annual Precipitation		
	> 45 inches	(10)	
	20 - 45 inches	(4)	
	< 20 inches	(1)	
3.	Native Soil Type		
	Course sands, gravels	(10)	
	Silts, fine sands	(5)	
	Clays	(1)	
4.	Sensitivity of Uppermost Aquifer		
		(10)	
	Sole Source	(7)	
	Current Potable	(4)	
	Future Potable	(1)	
	Non-potable		
5.	Potential Receptors		
	Many, near	(10)	
	Medium	(5)	
	Few, far	(1)	
TOTAL SCORE		=	
MATRIX SCORE		Cleanup Level (ppm TPH)	
		Gasoline	Diesel
Level 1: > 40 pts.		40	100
Level 2: 25 - 40 pts.		80	500
Level 3: < 25 pts.		130	1000