



## Hazardous waste management in Turkey: current legislative requirements and future challenges

Cisem Yigit<sup>a</sup>, Gulnur Maden<sup>a</sup>, Nur Disa<sup>a</sup>, Ozge Yilmaz<sup>a</sup>, Abdullah Ogutverici<sup>a</sup>, Emre Alp<sup>a</sup>, Kahraman Unlu<sup>a</sup>, Celal F. Gokçay<sup>a</sup>, Filiz B. Dilek<sup>a</sup>, Ozgur Dogan<sup>b</sup>, Tanju Karanfil<sup>c</sup>, Ulku Yetis<sup>a,\*</sup>

<sup>a</sup>Middle East Technical University, Department of Environmental Engineering, Ankara 06531, Turkey  
Tel. +90 312 2105868; email: uyetis@metu.edu.tr

<sup>b</sup>TÜBİTAK Marmara Research Center, Environment Institute, 41470 Gebze, Kocaeli, Turkey

<sup>c</sup>Clemson University, Environmental Engineering & Earth Sciences, Anderson, SC 29625, USA

Received 4 December 2009; Accepted 9 March 2010

---

### ABSTRACT

Turkey being a candidate country to European Union (EU) is in need of achieving approximation with EU Environmental Acquis including the Hazardous Waste Management. Alignment with the Waste Framework Directive (2006/12/EC) is already accomplished and the Hazardous Waste Directive (HWD) (91/689/EEC) has been almost fully transposed into National Legislation. Yet, there are still some discrepancies regarding the provisions needed for the EU's reporting requirements. This study aims at providing a detailed description of the information requested by reporting requirements in EU Hazardous Waste Legislation related to the implementation of the HWD in Turkey. Firstly, a comparison of the EU and Turkish hazardous waste legislations is done and discrepancies in Turkish Hazardous Waste legislations are identified. Then, the current state of implementation tools of the transposed reporting requirements is evaluated. Finally, a roadmap for the full and precise transposition and implementation of EU's Hazardous Waste Management Acquis is developed.

*Keywords:* Hazardous waste; Hazardous waste directive; Reporting requirements; Turkey

---

---

\*Corresponding author.