

Deponinin Çevresel Etkileri ve Tespiti

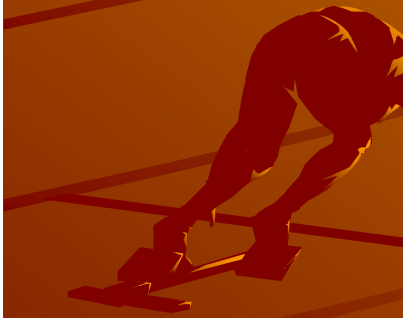
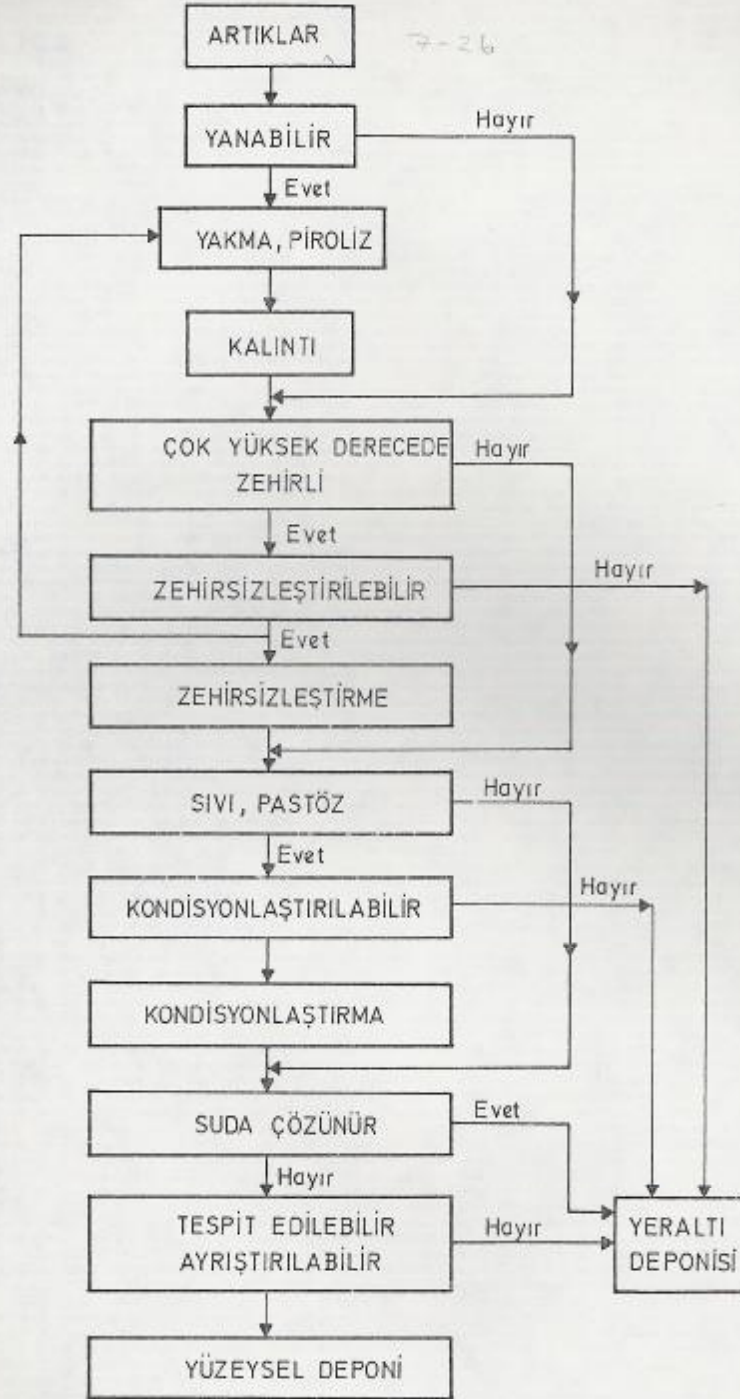
Prof. Dr. Ertugrul ERDİN
Dokuz Eylül Üniversitesi Mühendislik Fakültesi Çevre Mühendisliği Bölümü

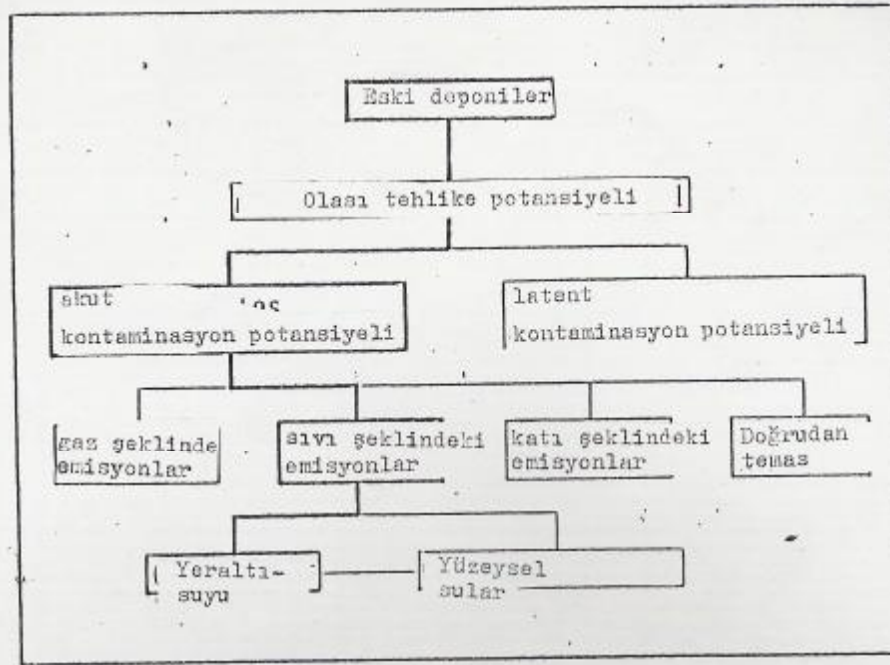
3160 BUCA- IZMIR TÜRKİYE
0090.232. 4127120; Fax: 0090.232. 3887864; 0090.232. 4531143

E-Mail: eerdin@deu.edu.tr;
ertugrul.erdin@deu.edu.tr; eerdin@izmir.eng.deu.edu.tr
erdin@itu104.ut.tu-berlin.de

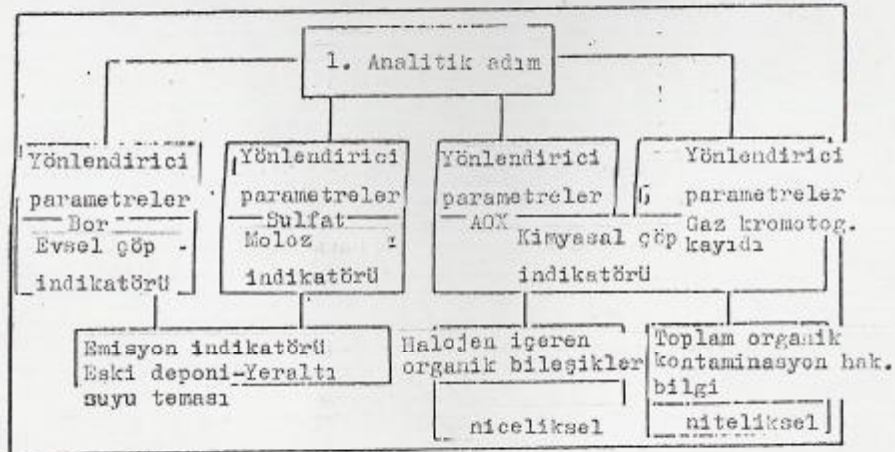
WEB : <http://web.deu.edu.tr/erdin>



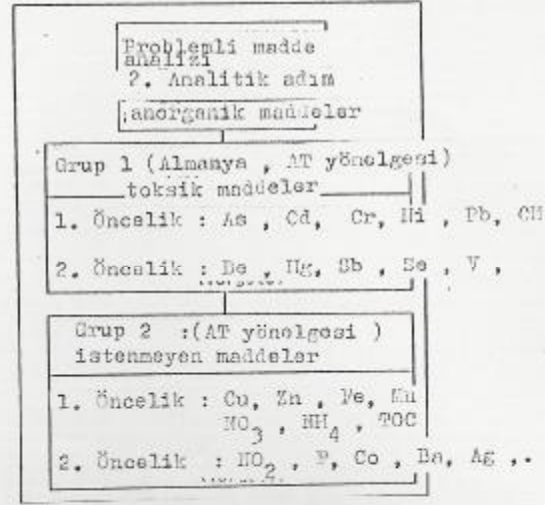




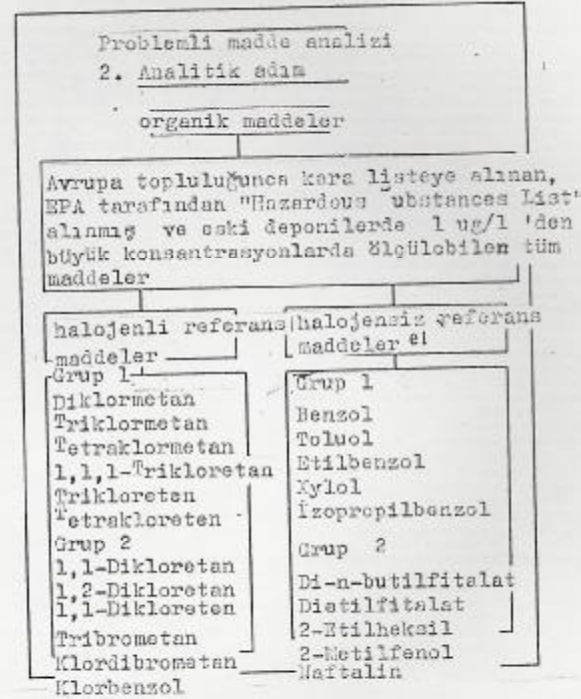
Şekil : Eski deponilerin kontaminasyon , tehlike ve emisyon potansiyeli



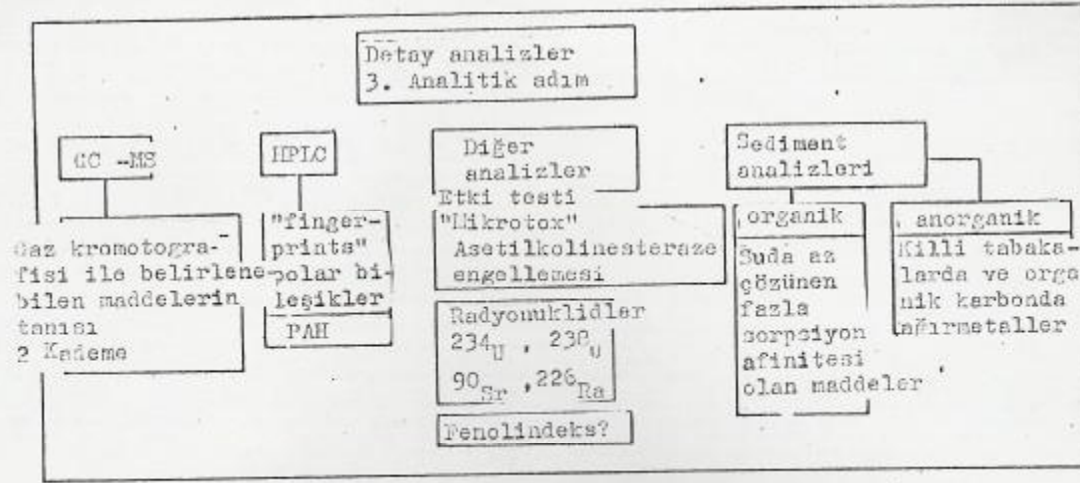
Şekil : İlk eleme adımlarının hedefi ve yönlendirici parametreler



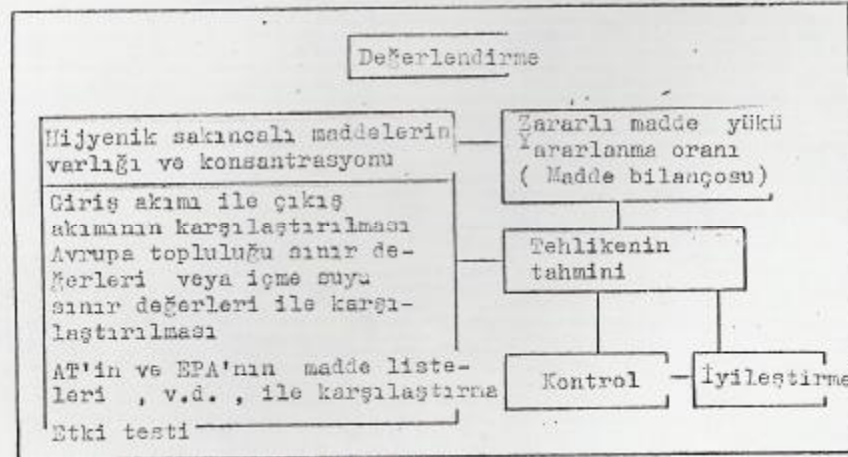
Şekil : Anorganik analizlerin kapsamı



Şekil : Organik analizlerin kapsamı

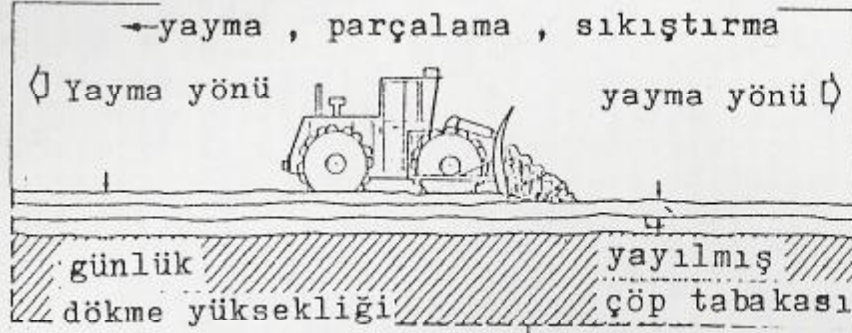


Şekil 1 : Eski deponilerden kontamine olmuş yeraltısularının detaylı analizleri

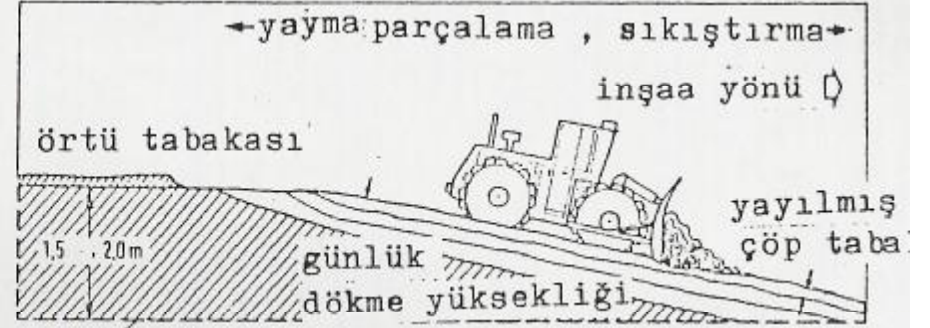


Şekil 2 : Kontamine olmuş yeraltısularının yorumlanması , değerlendirilmesi değerlendirilmesi

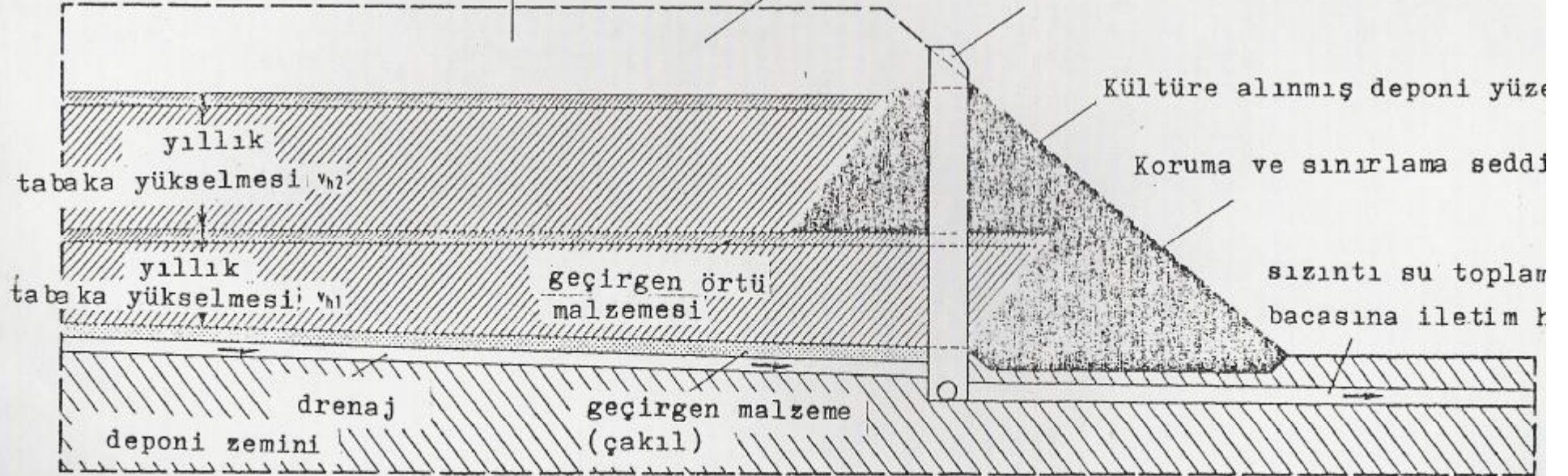
Yatay tabakalar halinde çöp yayılması



Meyilli tabakalar halinde çöp yayılması

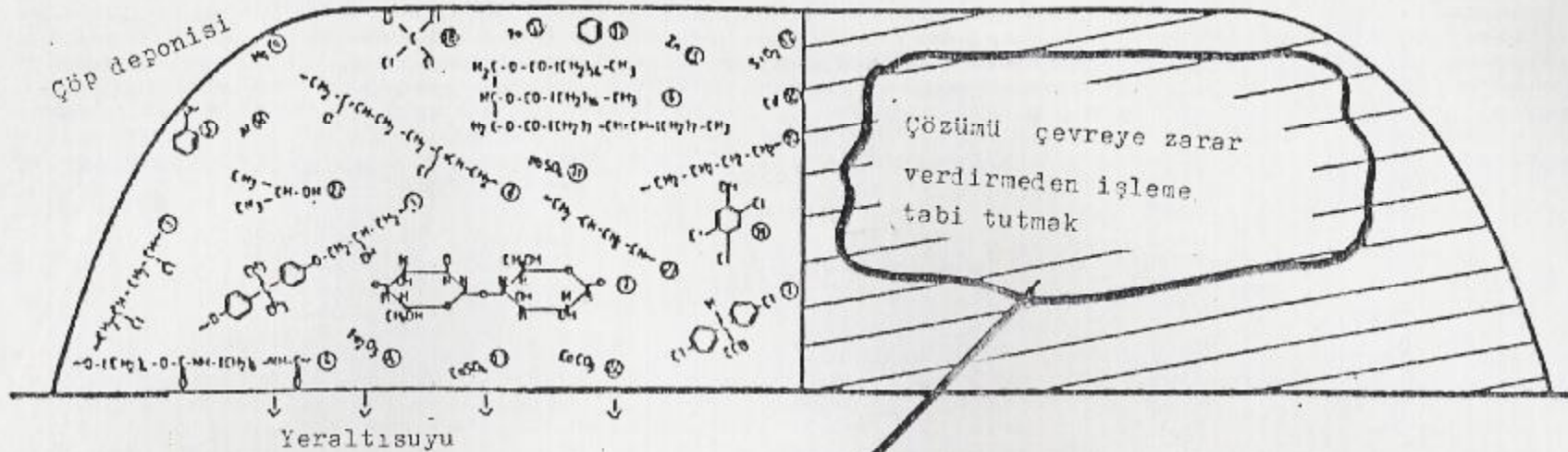


Düzenli Deponi



Şekil 3 : Düzenli deponi şeması ve çöp inşaa tekniği

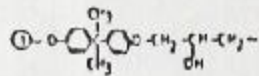
Çöp deponisi



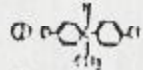
Çözümü çevreye zarar verdirmeden işleme tabi tutmak

Yeraltısuyu

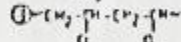
ERLÄUTERUNG



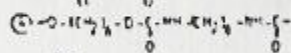
Epoxharze (Kleber, Lacke)



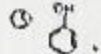
DDT (Insektizid, PCB)



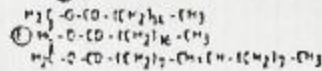
Polystyrolharze (PVC, Plastik)



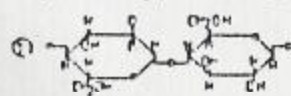
Polyurethan (Schaumstoffe, Thermoplaste)



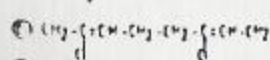
Phenol (Ausgangsmaterial für die Chemie)



Polymilch (Milch)



Polysaccharide, Stärke (Cellulose, Papier, Holz)



Polychlorbutadien (Kleber, synth. Kautschuk, Gummi, Harze)



Eisen
Eisen(III)-oxid (Rost)
Zink
Aluminium



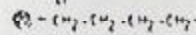
Benzol (Lösungsmittel)



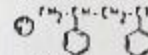
Tetrachloräthylen (Hochdruckwasserstoff, Lösungsmittel)



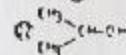
2,4-Dinitrophenol (Ausgangsmaterial für die Umwandlung von Nitrobenzol in Anilin bei der Nitroreduktion)



Polymilch (Milch, Kasein)



Polystyrol (Plastik, Styropor)

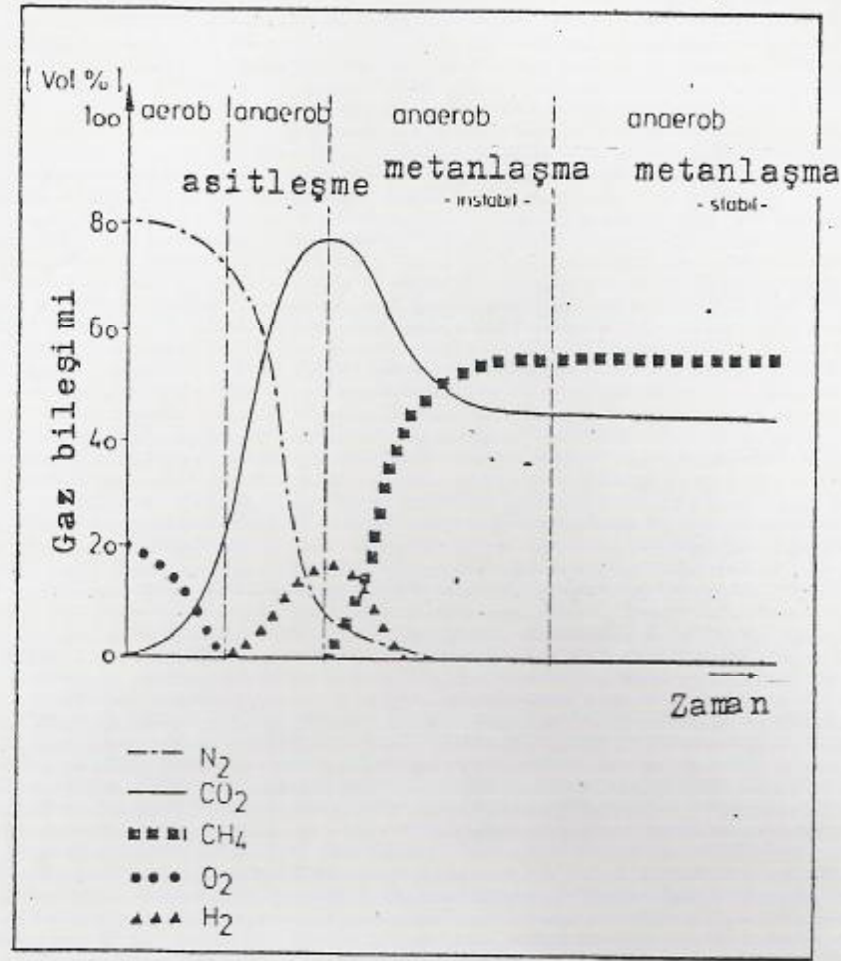


Acetocrolein (Lösungsmittel, Reinigungsmittel)

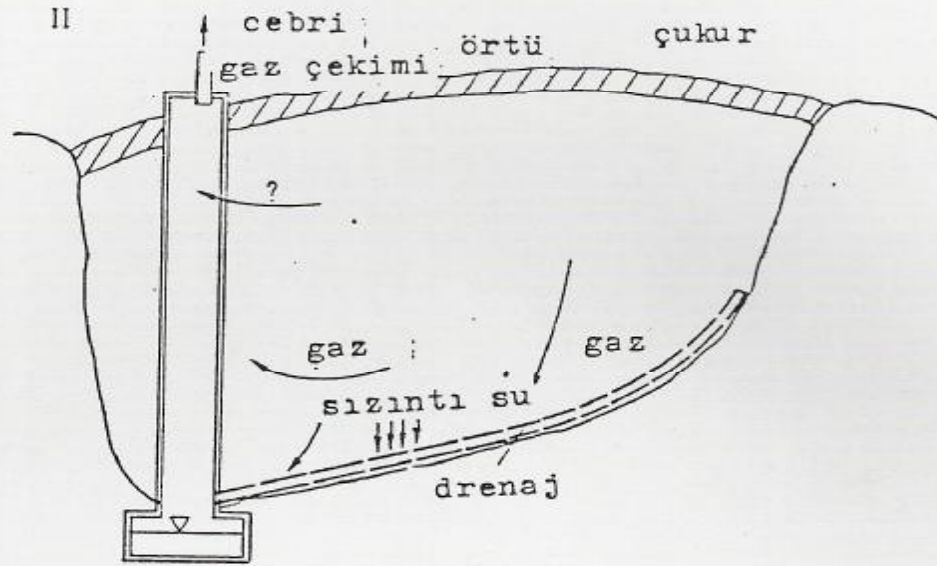
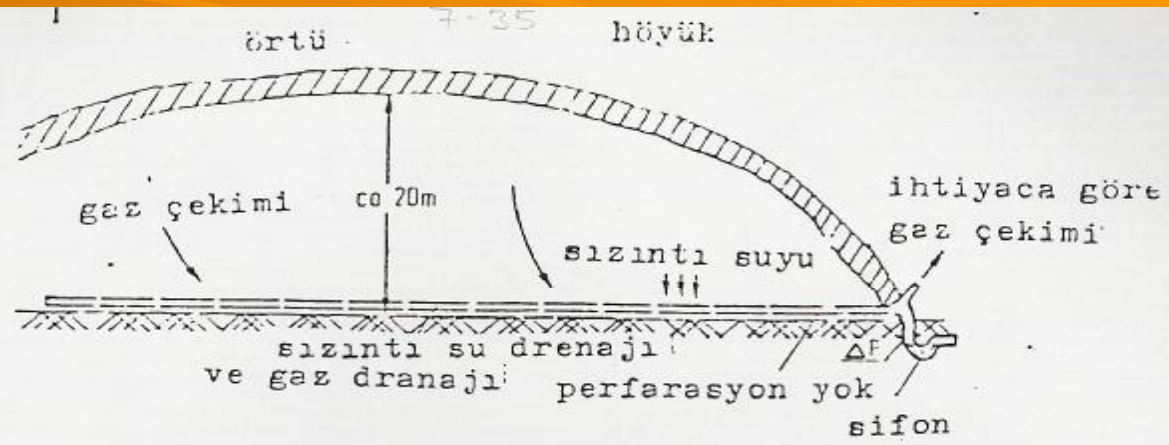


Selen
Kalk, Kreide

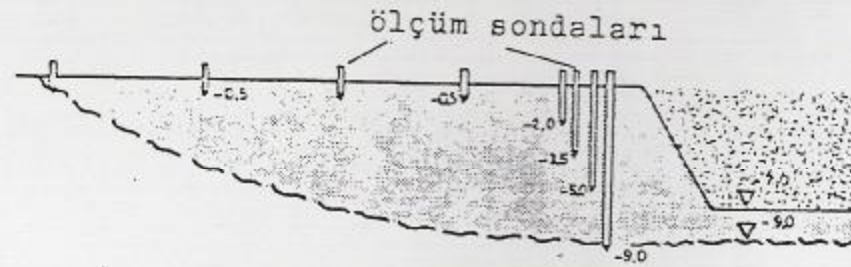
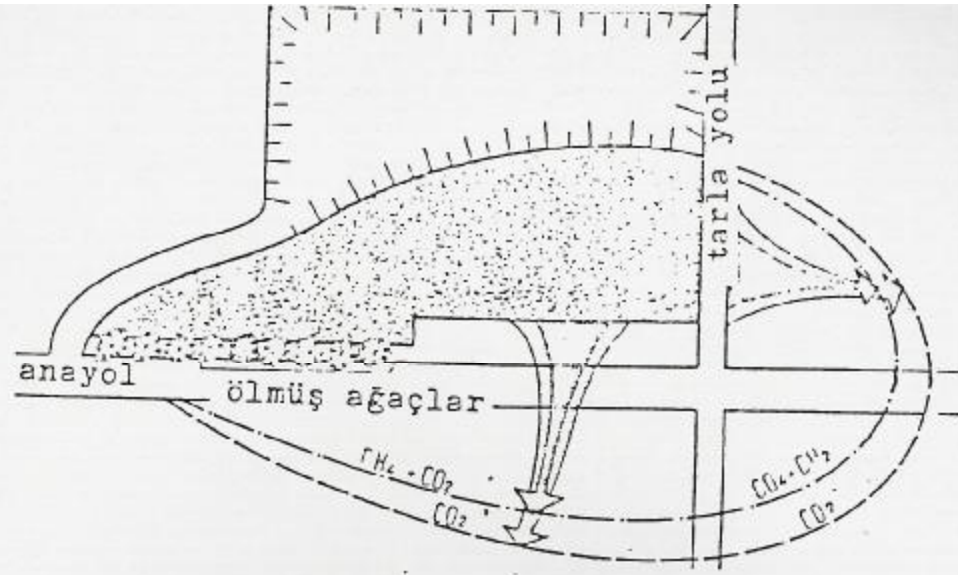
Şekil : Deponinin çevreye olası etkileri



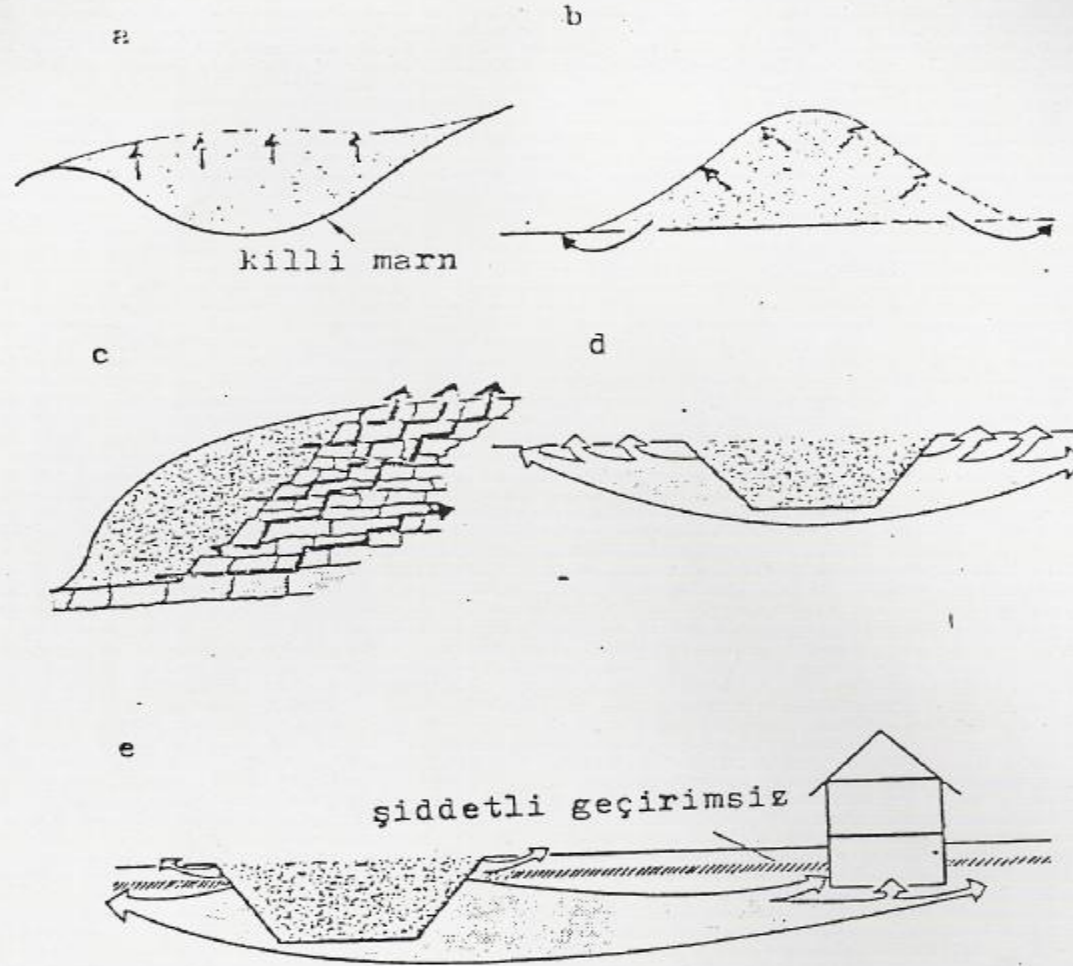
Şekil 2 : Deponinin yaşını bağlı olarak gaz bileşiminin değişimi



Şekil 4 : Sızıntı su drenajı ile birlikte gaz çekimi (giderilmesi)



Şekil 1 : Gaz zararlarının saptanması ve korunma önlemleri



Şekil 6 :Gaz zararlarının saptanması ve korunma önlemleri