US EPA ARCHIVE DOCUMENT
GAS COLLECTION FROM BIOREACTOR LANDFILLS

Eric Peterson, P.E.

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INTRODUCTION

- Gas Collection Challenges
- Gas Collection Options
- Regulatory Issues
GAS COLLECTION CHALLENGES

- Higher Gas Temperatures
- Higher Gas Production Rate (more gas more quickly)
- Higher Liquid Levels
Drill Cuttings from gas well with temps > 150º F
LEACHATE FILLED EXTRACTION TRENCH
GAS COLLECTION OPTIONS

- Vertical Wells
- Horizontal Collectors
- Interconnection with leachate system
- Common Conduit - HYEX® System
DUAL CONDUIT

- Common trench or piping for gas collection and liquids addition
- HYEX® System uses common carrier drain pipe for separate liquid injection and gas collection pipes.
- Demonstration at Ste. Sophie Landfill, Quebec and Fauquier County, VA
Interior of HYEX reinforced landfill conduit; 12 inch ID