

US EPA ARCHIVE DOCUMENT

Post Closure Care and Monitoring

Intermediate Closure Considerations

Session 5

US EPA Work Shop on Bioreactor Landfills

February 27–28, 2003

Arlington, VA

By: Robert J. Phaneuf, P.E.

New York State Department of Environmental Conservation

Division of Solid & Hazardous Materials

Bureau of Solid Waste & Corrective Action

625 Broadway

Albany, New York 12233-7258

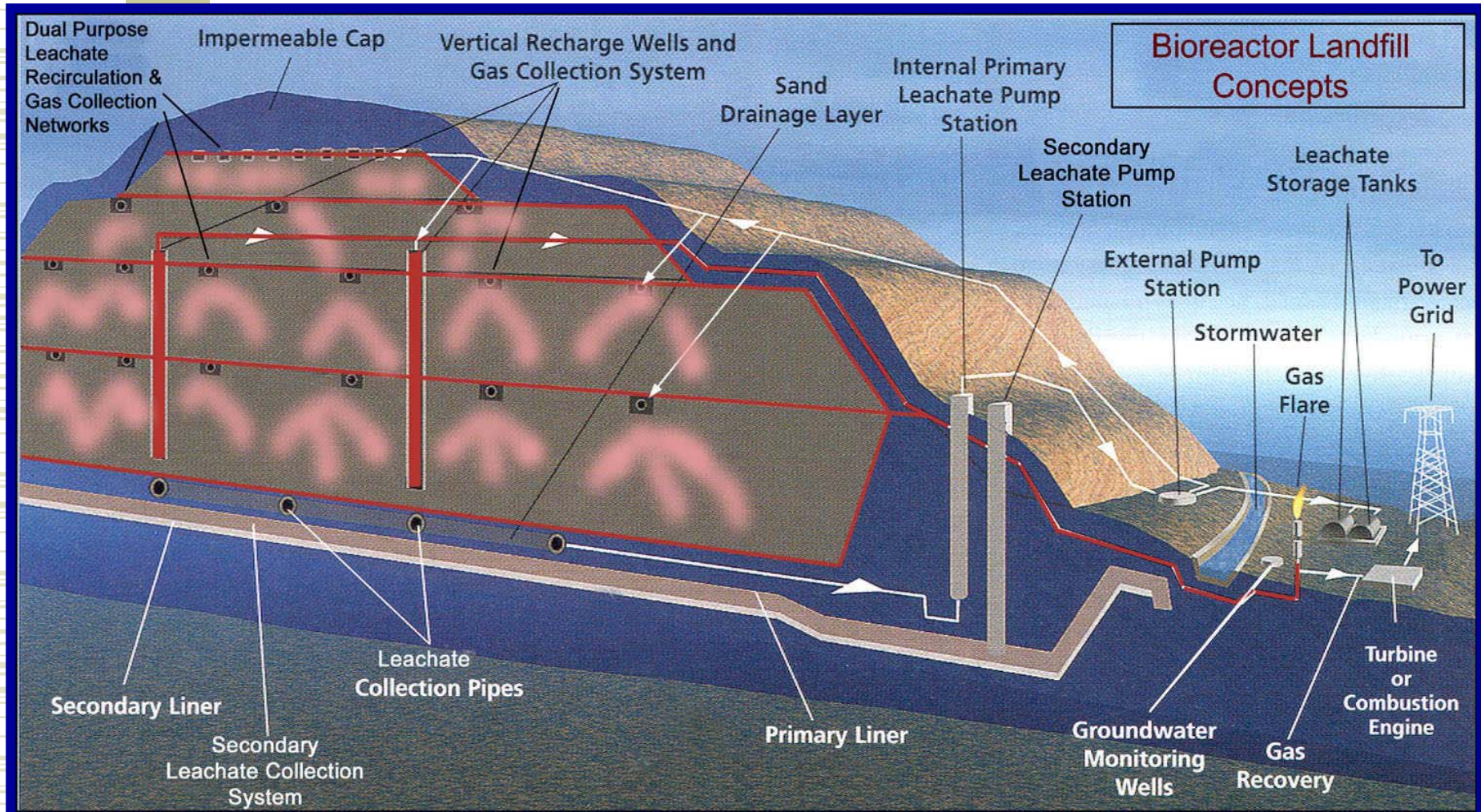
Phone: (518) 402-8694

E-Mail: rjphaneu@gw.dec.state.ny.us



Intermediate Closure Considerations

How Do We Get To This Point ?



Intermediate Closure Considerations

Regulatory Compliance

Bioreactor Landfill Operational Concepts will drive/promote the need for enhanced intermediate closure/operational concepts to ensure adequate odor, air emission and surface seep controls.

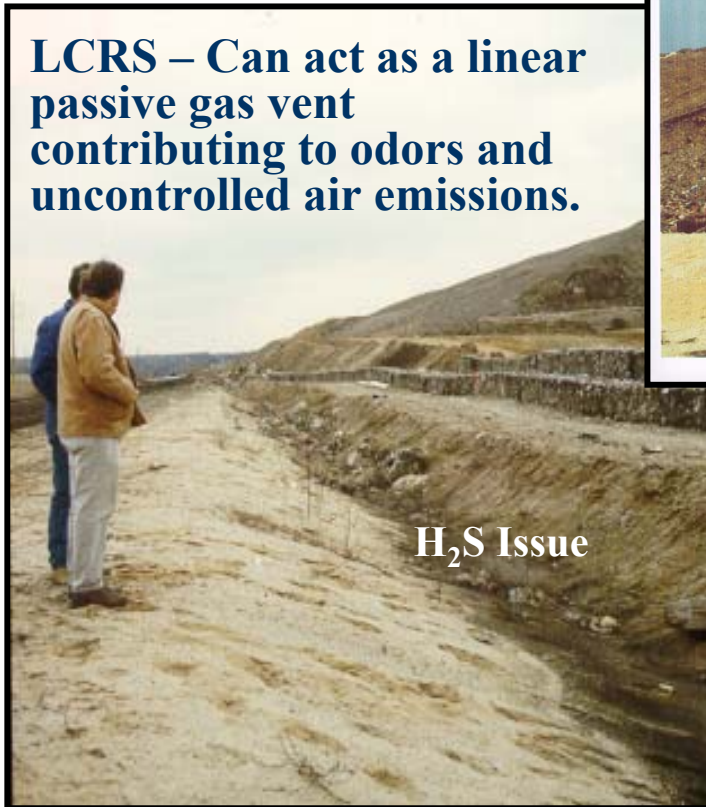
Odors can generate adverse public opinions which can directly impact/jeopardize current operations and future expansion permits.



Active gas collection and use of effective gas barriers at the surface will likely be needed to maintain regulatory compliance.

Intermediate Closure Considerations

LCRS – Can act as a linear passive gas vent contributing to odors and uncontrolled air emissions.



H₂S Issue



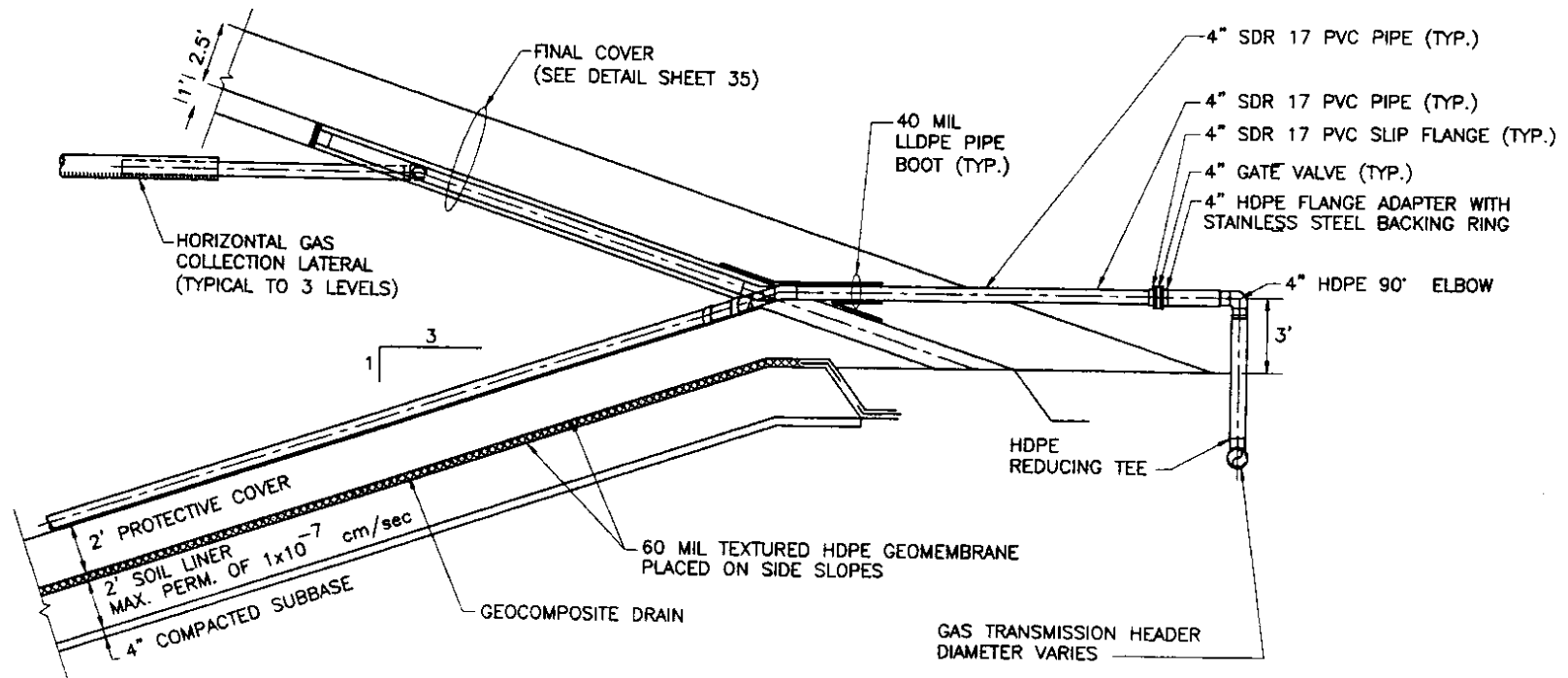
Interim slopes can be a source of odors and uncontrolled gas emissions.



Intermediate Closure Considerations

Design Details Need Ensure Intermediate Operational Compliance

Connection of Active Gas Collection System to LCRS & Horizontal Gas Collector



SECTION A-A

Intermediate Closure Considerations

Active Gas Collection Systems

