US ERA ARCHIVE DOCUMENT

Clinton Landfill Inc Chemical Waste Landfill PCB Disposal

Presentation to DeWitt County Land Use Committee April 7, 2009 at 7:00PM, Clinton, IL

Steve Johnson, TSCA Permits, Geologist Gary Cygan, Senior Geologist Rafael Gonzalez, Community Involvement Coordinator

Agenda

- Status of Permit
- 2) Process for Decision
- 3) Schedule
- 4) Factual Information

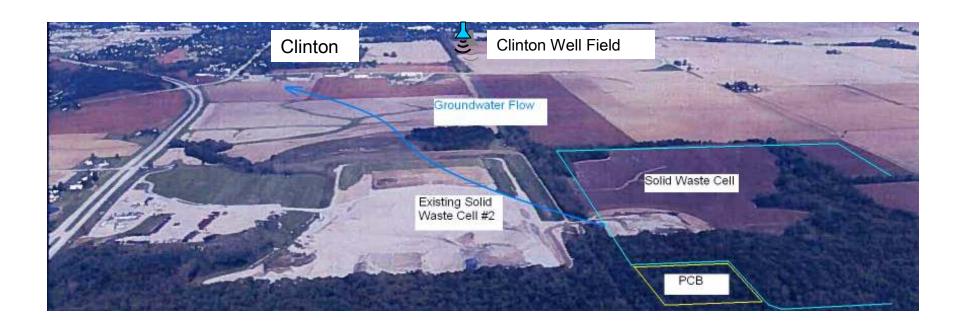
Process Steps

- "IN REVIEW"... Which means the decision to approve the application has not been made.
- "Post Draft-Approval"...Which means we have enough information to support going public with the results
- "Pre-Public Comment"...Which means we have not put together or made public an Administrative Record, the documents we considered in our review.

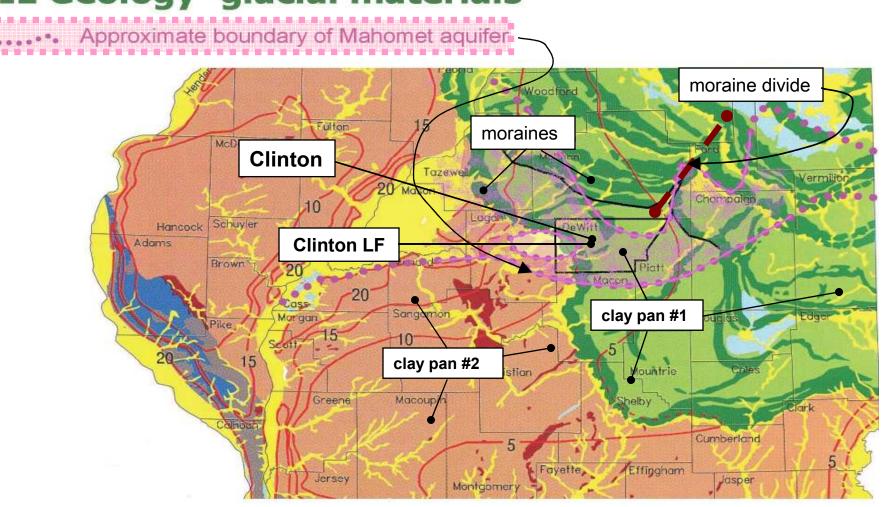
Process	<u>Schedule</u>	<u>Status</u>
Receive Application	Oct. 2007, begin Jun. 2008	Completed
Current activity Review of application	180 days	Completed 1/09
EPA Notice of Deficiencies Clinton response to NOD	120 days	Preliminary 9/08 Final 12/09 Response 3/09
EPA review of response to NOD	30 days	Completed 3/09
Preparing preliminary decision (i.e. draft permit approval or denial)	30 days (3/09)	Rough Draft 3/19/09
Public Meeting	Late April-Early May	Not determined
Public comment period	30 days (6/09) originally	Apr-May/09 planned
Addressing comments from public meeting	30 days (8/09) Originally	May-June/09 planned
Final decision (i.e. final approval or denial of permit)	30 days (9/09) originally	June-July planned

Factual Information:

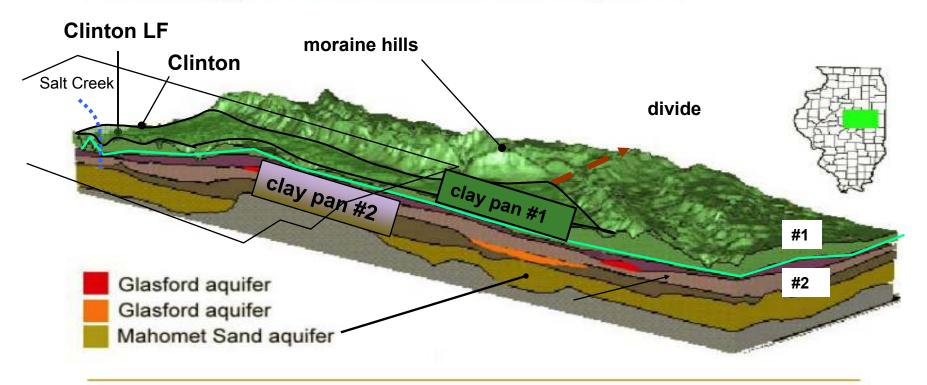
- Proposed PCB Cell
- Mahomet Aquifer Regional Flow Direction



IL Geology-glacial materials

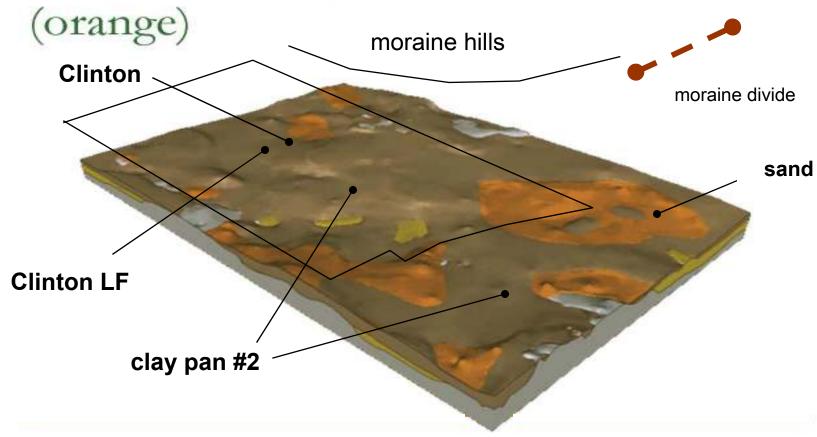


Geology of the Mahomet Aquifer



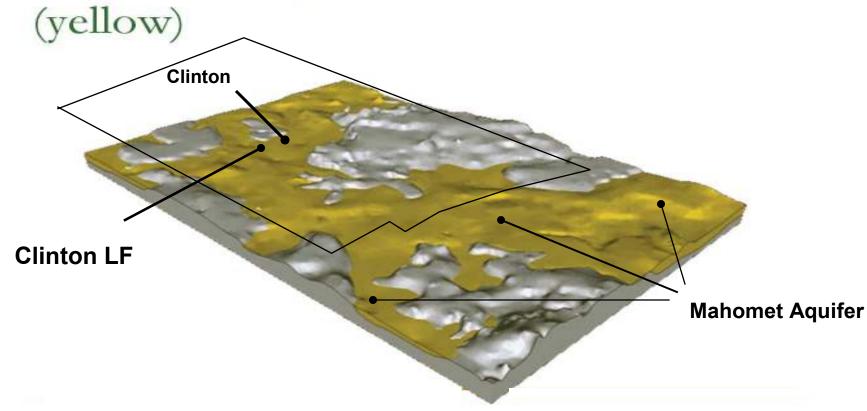
After Mahomet Aquifer Consortium

Early Illinois Episode basal sand



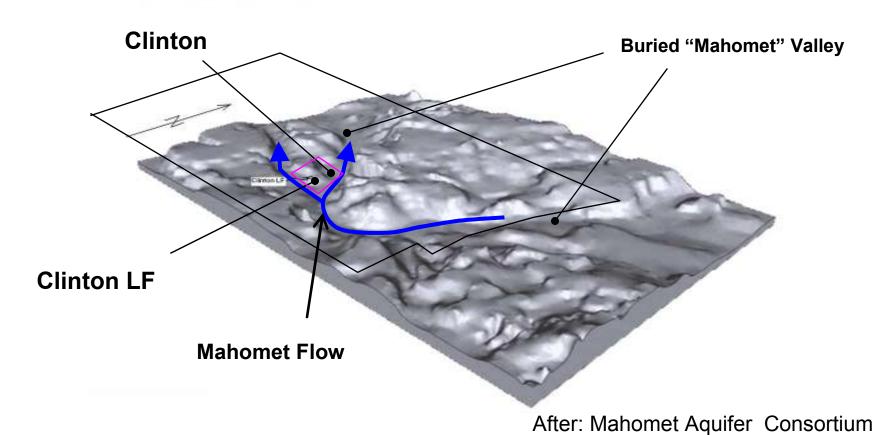
After Mahomet Aquifer Consortium

Pre-Illinois Episode Mahomet Sand

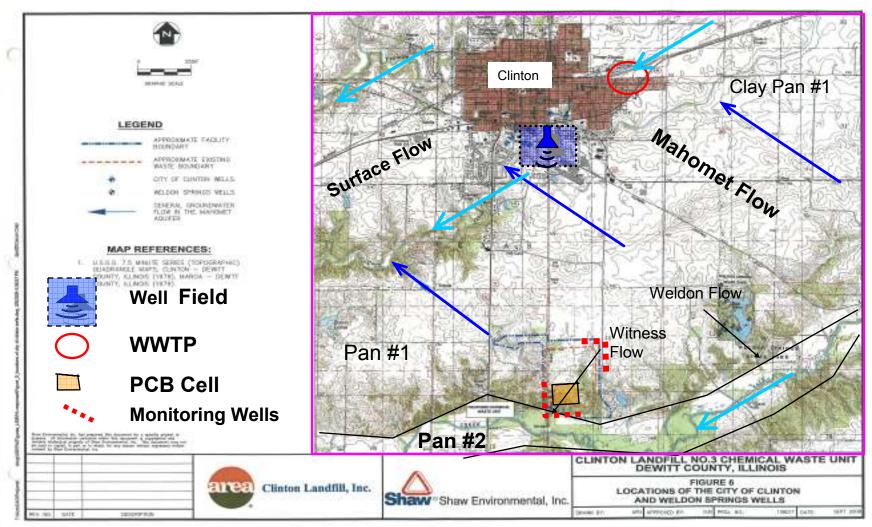


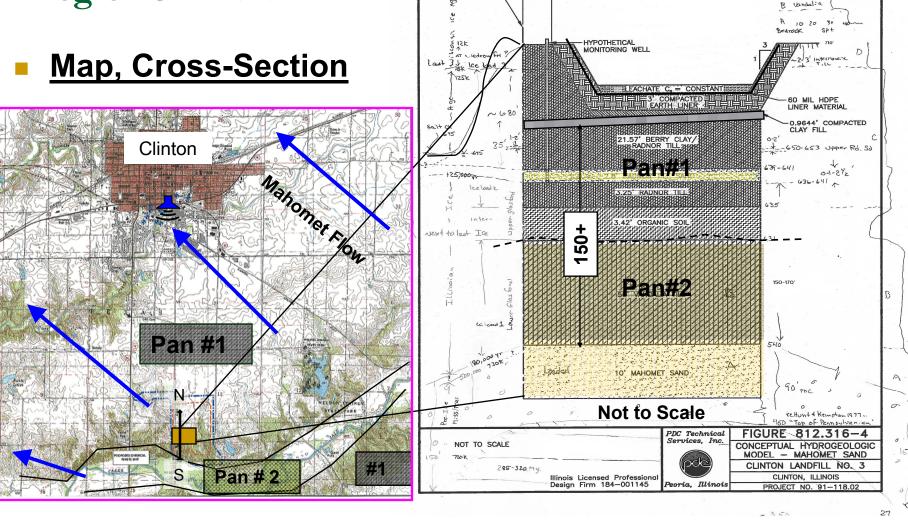
After Mahomet Aquifer Consortium

Topography of the Bedrock Surface



Factual Information: Topography & Water





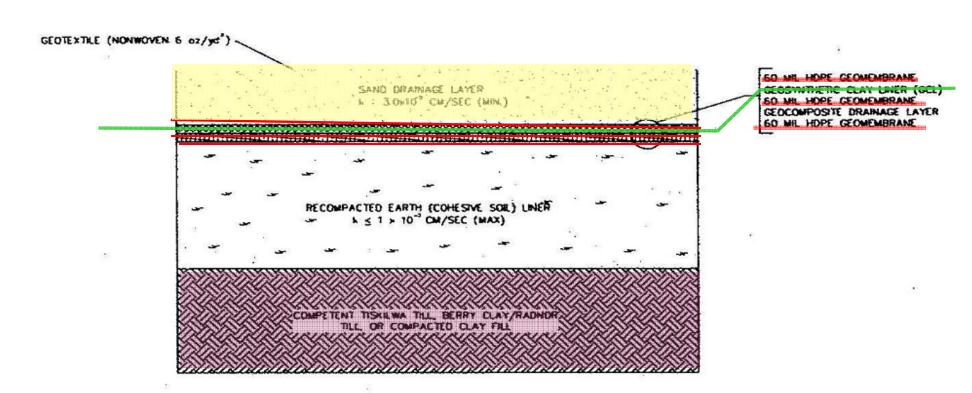
CAD DWG NO:911181136

EMPLOYEE NO: 9834

ZONE OF ATTENUATION

preconsolidation loading

Factual Information: Landfill Engineering X-Section

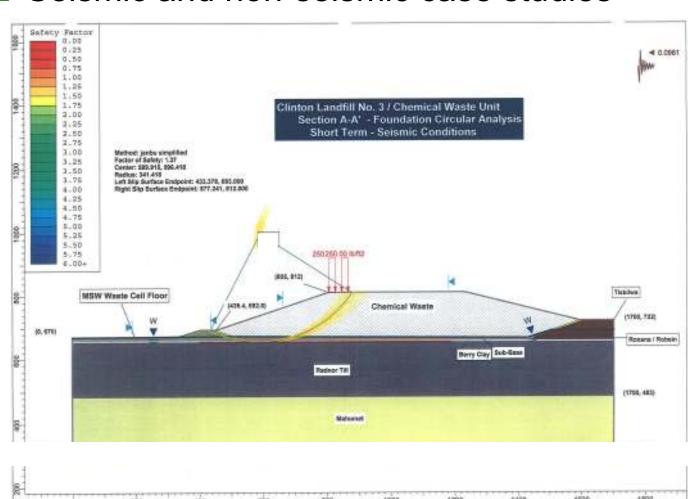


TYPICAL FLOOR LINER SECTION (CHEMICAL WASTE UNIT) NOT TO SCALE

NOTES

T. ALL GEOMEMBRANES SHALL BE DOUBLE-SIDED TEXTURED

- Factual Information: Landslides
 - Seismic and non-seismic case studies



4/7/09

Factual Information:

Search for Earthquake Evidence



Quaternary geologist, David Grimley, examining exposures along a streambed during Grant Fork Quadrangle mapping east of St. Louis.

Relevant Regulations, in part

- Toxic Substances Control Act-PCB
 - Resource Conservation and Recovery Act-IL
 - Department of Transportation-Roads, Trains
 - Clean Water Act-Salt Creek
 - Endangered Species Act-Mussels
 - Data Quality Act-engineering

Application

- Initial Application-4 volumes
- Groundwater Impact Assessment 1 volume
- Response to Notice of Deficiency 1 volume
- Coordinate with IEPA RCRA Subtitle D modification Review

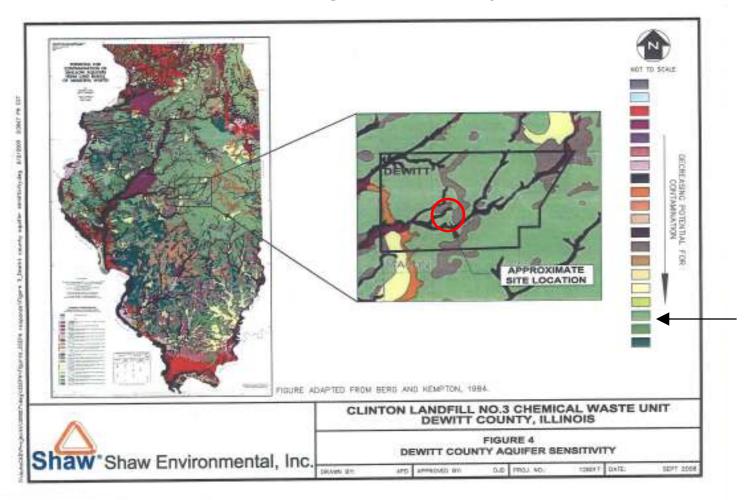
Sources of Information

- Mahomet Aquifer Consortium: Aquifer Character
- Illinois Water Survey Publications: Water supply
- Illinois Geological Survey Publications: Coal evaluation
- Illinois Department of Agriculture: Leaching vulnerability
- U.S. Army/EPA: Landfill Performance
- U.S. EPA Research and Development, Cincinnati Office:
 Containment and degradation of PCBs
- Professional Publication: Groundwater modeling
- U.S. Geological Survey: Topography, seismic maps
- Federal Emergency Management Agency: Fire safety

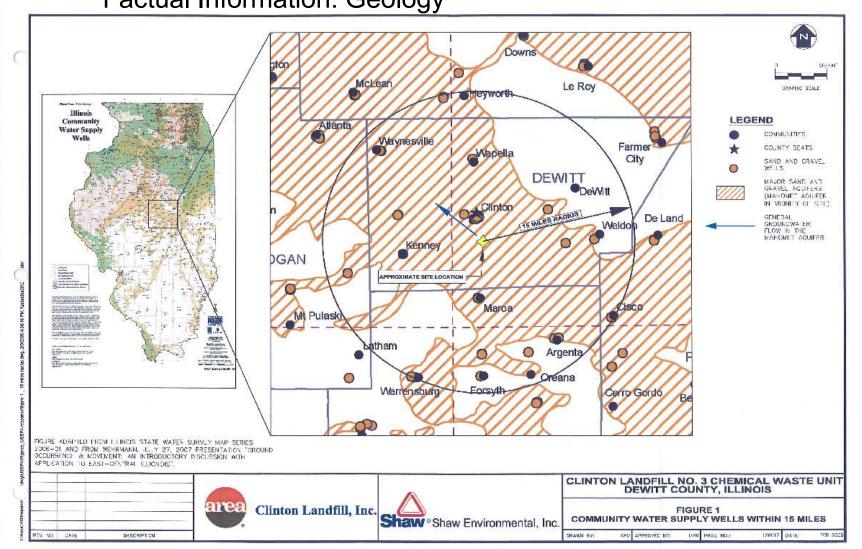
Summary

- Application Review is complete
- Evaluation of technical merits of application is complete
- TSCA Notice of Deficiencies Issued
- Applicant's Response to Notice reviewed
- Findings support going public

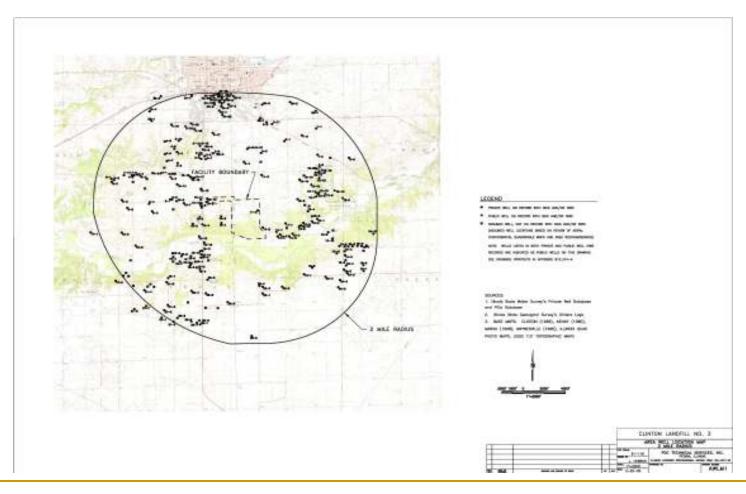
Geological Suitability



Factual Information: Geology



Water Well Locations-2 Mile Radius



Impacts of pumping on water levels (artesian head)

Mahomet aquifer

