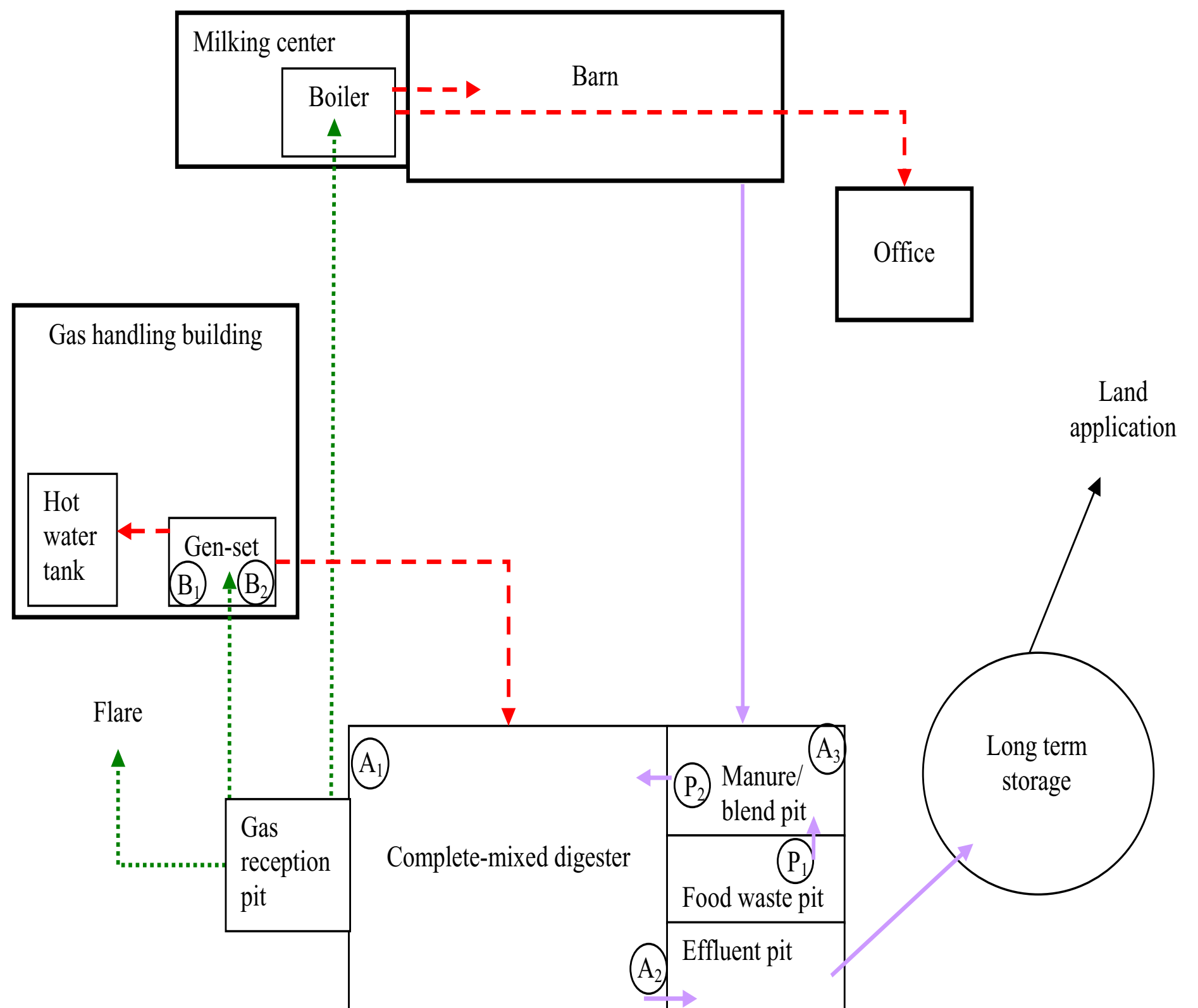


Process Description

The digester was built at the middle of a slope, using gravity to transfer manure from the barn collection system to the digester, and from the digester to the long-term storage.



Gas utilization building with flare to left



Influent, food waste and effluent pits covered by plywood



Long-term storage

Previous monitoring results

The following data was taken from a 2007 interim monitoring report. The complete report is available online at:

www.manuremanagement.cornell.edu

Waste stabilization results: Samples of digester influent and effluent were collected monthly from 5/2001 - 6/2002 and 7/2003 - 4/2005

Constituent (Average values)	Influent	Effluent	Reduction by AD
Total Solids (%)	15.5	5.6	63.9%
Total Volatile Solids ¹ (%)	14.3	4.4	69.6%
MAP pathogen (Johnes) (cfu/gram)	300	2.0	94.8%
Fecal Coliform bacteria (cfu/gram)	540	3.4	98.4%

¹The more TVS consumed, the higher the biogas production

- Ortho Phosphorus concentration decreased by 2%
- Ammonia (NH₃-N) concentration increased by 12.7%

