

Disposal and Disposal Capacity Sub-Committee

April 2, 2003

Central Landfill Disposal Capacity

Rhode Island Statewide Planning requirements call for the development of solid waste disposal capacity adequate for a 20-year time frame. The disposal and disposal capacity sub-committee has been tasked with providing recommendations to address the expected 7-8 year shortfall between the existing disposal capacity at the Central Landfill and the State required 20-year disposal capacity. The table below summarizes the existing and projected disposal capacity at the Central Landfill.

<u>Landfill Phase</u>	<u>Acres</u>	<u>Disposal Status</u>	<u>Started Filling</u>	<u>Projected Completion</u>
Phase II	24	Not in use	June 1993	Piggyback completed August 2002
Phase III	10	Not in use	March 1995	Piggyback completed August 2002
Phase IV	45	On-going	Area 1 & 2: Sept 2000 Area 3: Sept 2002 Area 4: March 2003	Phase IV will be filled by June 2004
Phase V	32	In permitting	May 2004	June 2012
Phase VI	28+/-	Future	Expect 4 year capacity	June 2016

Notes:

1. No more filling expected in Phase II or III.
2. Piggyback is completed for Phases II and III from the Phase IV landfill.
3. The waste disposal rate at Central Landfill ranges from 1.05 to 1.1 million tons per year. These are the same rates used in permitting when determining the capacity of a landfill phase.

Proposed Sub-Committee Recommendations

1. Enforce the ban on out-of-state waste disposal.
 - What constitutes in-state waste?
 - Who and how to enforce.
 - Research other State/municipal models.
2. Investigate the (widespread?) disposal of mixed residential/commercial loads.
 - Perform municipal cap analyses to help municipalities identify and quantify the problem.

- Provide shared experiences from municipalities currently enforcing against the practice of combining residential and commercial waste (E. Providence following trucks, etc.).
- Corporation could assist municipalities in enforcing against this practice (as mixed loads are identified, the truck responsible is tracked to the associated municipality).

3. Enhanced Capacity Management:

- Evaluate available capacity, and look at methods to increase settlement/compaction techniques, etc., in an effort to increase capacity.
- Look at innovative disposal technologies, such as re-injection of leachate (bioreactor), and other technologies currently being implemented successfully in the US to lengthen the life of existing solid waste landfills.

4. Increase Capacity

- Out of state disposal
 - Calculate the volume of waste required to be shipped out of state to bridge the 7-8 year shortfall in capacity.
 - Divert commercial waste only out of state.
 - Bail all waste (or a calculated volume of waste) at RIRRC and transport to a bail fill.
- New landfill(s)
- Consideration of incinerator(s)