

Long Term Landfill Capacity Planning

Existing Disposal Capacity

Available licensed capacity at Central Landfill currently exists only in Phase IV, including that portion of Phase IV which piggybacks up the southern slopes of Phases II and III. Landfilling in Phase II started in April 1992, in Phase III in April of 1996 and in Phase IV, Areas 1 & 2 (22 acres) in October 2000. The overall capacity of Phase IV is expected to be exhausted in 3.5 to 4 years, or approximately in March 2004. However, with the additional capacity developed that extended the life of Phases II and III, it is expected that Phase IV capacity will be extended until approximately August 2004. The increments of extended life of Phases II and III have now been fully utilized. Construction of the baseliner for Phase IV Area 3 (11 acres) was completed in June 2002 and construction of the baseliner for Area 4 (11 acres), the last permitted cell in Phase IV, was completed in the fall of 2002. Waste placement in Area 3 began in July 2002 and in November 2002 for Area 4.

Disposal Capacity in the Permitting Process

The proposed Phase V landfill will be a 32-acre cell located on the southeast side of the existing licensed area and will "piggyback" on Phases I and IV when it is filled. At present filling rates of approximately 1,050,000 tons annually, a seven-year lifespan is expected, with precise life projections dependant on the extent of settlement of the Phase I and Phase IV slopes. Work began on the process of permitting Phase V in September 1998 with the preparation of a hydrogeological study of the area. The hydrogeological study was submitted to DEM in November 2001. The license/permit application for Phase V was prepared and submitted to RIDEM in April 2002.

A wetland alteration application was submitted in July 2001 in support of the Phase V landfill license application. The alteration application entails relocating the second phase of Cedar Swamp Brook, completing its separation from Sedimentation Pond 2, to the south of the proposed Phase V cell.

In order to prepare for the construction of the proposed Phase V landfill, the Corporation began the construction work necessary for the relocation of Cedar Swamp Brook in August 2002. The brook relocation is expected to take approximately 9 to 12 months to complete and we anticipate completion by the spring of 2003. The Phase V landfill will be divided into two areas for construction, comprised of 26 and 6 acres. The subgrade for Phase V, Area 1 is to be constructed in the spring of 2003 with completion expected in the Summer/Fall of 2003. The corresponding baseliner system will need to begin construction in concurrence with the subgrade construction, beginning in the early Summer of 2003 and be completed by the end of the 2003 Construction

Season. This aggressive schedule will allow for placement of the first lift of municipal-only waste in Area 1 in the winter of 2003/2004 while filling in Phase IV continues to capacity (July/August 2004). Phase V, Area 2 subgrade will be constructed in the Summer/Fall of 2007. Its baseliner system will be built in the 2008 Construction Season.

At present filling rates, the capacity of Phase V is expected to be exhausted by April 2012.

Planned Future Disposal Capacity

Pre-planning for the construction of a proposed Phase VI landfill on the east side of Phase I and piggybacking up the east slope of Phase I was underway in 2003. It is estimated that Phase VI would cover approximately 43 acres, depending upon its configuration. A Phase VI landfill proposal has not yet been submitted to DEM for licensure review. In order to license and construct Phase VI, approval from the EPA Superfund Division will be required due to the proposed piggyback conditions on the Phase I Cap, a situation similar to the EPA review of the Phase V permit. Licensure of Phase VI will also require landfill site-certification by the State Planning Council. Construction of Phase VI may also require relocation of the existing landfill gas-powered electric generating facility, again depending upon the configuration of Phase VI. The capacity of the proposed Phase VI landfill is projected to be approximately 6.5 million tons with a life expectancy of six years at a loading rate of about one million tons annually. The addition of Phase VI according to pre-planning concepts being considered by the Corporation in 2003 would extend landfill life to November 2017.

The Corporation has also initiated preliminary conceptual discussions of other landfill expansion options which were in the first stages of rough outline in 2003.