

## **SECTION 4**

# **FLOODPLAIN ASSESSMENT**



## FLOODPLAIN ASSESSMENT

### Regulatory Requirements

Criterion 4 of Section 39.2 of the Illinois Environmental Protection Act and of the City of Zion Pollution Control Facility Siting Ordinance requires the Facility (landfill or waste disposal site) to be located outside the boundary of the 100-year floodplain or if the Facility is a facility described in subsection (b) of Section 22.19 (a), the site is flood-proofed. The facilities described in subsection (b) of Section 22.19 (a) are:

1. a sanitary landfill or waste disposal site initially permitted for development or construction by the Agency before the effective date of this amendatory Act of 1997;
2. a sanitary landfill or waste disposal site for which local siting approval has been granted before the effective date of this amendatory Act of 1997; or
3. the area of expansion beyond the boundary of a currently permitted sanitary landfill or waste disposal site, provided that the area of expansion is, on the effective date of this amendatory Act of 1997, owned by the owner or operator of the currently sited or permitted sanitary landfill or waste site to which the area of expansion is adjacent.

### Facility Location

The most recent flood maps for the proposed Facility are two Flood Insurance Rate Maps for Lake County, Illinois, prepared by the Federal Emergency Management Agency (FEMA). These maps include Panel 17097C0057 G, revised effective date September 7, 2000 and Panel 17097C0076 F, effective date September 3, 1997. A copy of the maps are provided in Appendix F. No portion of the proposed Facility is located within the three-dimensional area of the 100-year regulatory floodplain, as determined by the FEMA Flood Insurance Rate Maps. The landfill development is permissible under Section 39.2(a)(4)(b) of the Illinois Environmental Protection Act.

The proposed Facility will not restrict the flow of a 100-year flood from off-site areas, reduce the temporary water storage capacity, or result in washout of solid waste. Additionally, the stormwater management plan described in Section 2.4 of this application will help reduce the likelihood of flooding by providing stormwater detention for stormwater runoff from the landfill. Therefore, the proposed Facility satisfies Criterion 4.

