

6.0 CONCLUSIONS AND RECOMMENDATIONS

The purpose of this study was to develop a groundwater, surface water, and leachate monitoring plan, in accordance with the latest revisions to Chapter 17-701, Florida Administrative Code (FAC). More specifically, the information provided in this report addresses Section 17-701.510, FAC (Water Quality and Leachate Monitoring Requirements).

Based on the groundwater elevation contour maps developed for this study, the direction of shallow groundwater flow at the landfill is from west to east-northeast. Since the landfill cells are concentrated in the northeast and southeast corners of the site, and the direction of groundwater flow is basically west to east, the western portion of the property is considered upgradient (background) and the eastern portion is downgradient (detection).

In summary, it is proposed that 26 new surficial aquifer monitoring well pairs (4 background well pairs and 22 detection/compliance well pairs) be installed at the site. All of the shallow and intermediate monitoring wells, the two surface water monitoring stations, and the two leachate monitoring points will be sampled semi-annually and analyzed for indicator parameters. The deep monitoring wells will be used to monitor only groundwater elevations on a semi-annual basis. The monitoring wells will be installed in phases to coincide with the construction of the landfill cells.