

LIST OF TABLES

Table		Page
3.1	List of wavelengths and detection limits of ions determined with the use of AAS (Vela et al. 1993).....	25
5.1	The average monthly values of rainfall (mm) at Dibba meteorological station for the period 1979-2006 (Hydrology Year Book, 2005 and ALHOGARATY).....	60
5.2	Ranking of annual rainfall (mm) at Dibba meteorological station during the period 1979-2006 (ALHOGARATY).....	61
5.3	Monthly rainfall (mm) and maximum flood discharge (m ³ /s) for Wadi Wurayah basin during the period 1981-1990 (Hydrology Year Book, 2005).	62
8.1	Main groundwater recharge dams constructed in the Eastern Region, and capacities of their reservoirs in million cubic meters (MCM) (Rizk and Alsharhan, 2003)	113
8.2	Estimated parameters of the Quaternary alluvial aquifer in the eastern coastal area in the UAE (Rizk and Alsharhan, 2003).....	134
9.1	Results of chemical analysis of water samples collected from the Wurayah dam reservoir and the surrounding observation wells. Concentrations are in mg/l (Almatari, 2010).	142
9.2	Minimum, maximum and average values of stable isotopes (¹⁸ O and ² H) of water samples collected from Wadi Wurayah Basin (Almatari, 2010).....	146
9.3	Percentage (%) Contribution Wurayah dam reservoir to aquifer recharge, using isotopic mass balance (Almatari, 2010).....	147
9.4	Information of water wells sampled for the present study during 2005 and 2009 ALHOGARATY	147
9.5	Results of chemical analysis of groundwater samples collected from the eastern gravel aquifer in 2005. Concentrations are in milligrams per liter (mg/l) (ALHOGARATY)	148
9.6	Results of chemical analysis of groundwater samples collected from the eastern gravel aquifer in 2009. Concentrations are in milligrams per liter (mg/l) (ALHOGARATY)	148
9.7	Classification of the groundwater types based on total concentration of dissolved solids (Fetter, 2001).....	150
9.8	Calculated major dissolved salts (%) groundwater in the Eastern Coast Region of the UAE in 2009 (ALHOGARATY).....	174
9.9	Calculated main hydrochemical ratios for groundwater in the Eastern Coast Region of the UAE in 2009 (ALHOGARATY).....	182
9.10	Table showing the use of hydrochemical ratios used for identification of the possible sources of groundwater in the study area (ALHOGARATY).....	187