

LIST OF TABLES

Table 2-1 – Design Life.....	5
Table 3-1 - Summary of rainfall-runoff methods.....	9
Table 3-2 – Design storm standard for various facilities	10
Table 3-3 – Priorities and time of concentration multipliers used to determine design storm durations	10
Table 3-4 - Recommended IDF table for use in DMAT	15
Table 3-5 – Recommended IDF equations for use in DMAT	15
Table 3-6 - Typical Urban Run-Off Coefficients.....	17
Table 3-7 - Typical Rural Run-Off Coefficients.....	18
Table 3-8 - Soil characteristics and hydrological soil groups	20
Table 3-9 - Curve numbers for hydrological soil groups and cover complexes	21
Table 4-1 - Roughness Coefficients	29
Table 4-2 - Approved Pipe Materials for Gravity Pipelines.....	31
Table 4-3 - Use of Inlets and Catchbasins	33
Table 4-4 - Manhole Cover Levels	34
Table 4-5 - Tide Levels	36
Table 4-6 - Potential Hazards in a Storm Water Network	38
Table 5-1 – Typical Soil Permeability	42
Table 5-2 - Guideline Depths of Infrastructure and Minimum Groundwater Levels	43
Table 5-3 – Phases of Subsurface Drainage Project Design	43
Table 5-4 – Reconnaissance Data	44
Table 5-5 – Soil Properties and Pipe Spacing.....	46
Table 5-6 - Approved Drainage Pipe parameters.....	48
Table 5-7 – Design Criteria for Gravel Envelopes	50
Table 5-8 – Well Screen Materials	55
Table 5-9 – Other Well Design Considerations	56
Table 5-10 – Autonomous and Design Factors Affecting Design Discharge Rates.....	57
Table 6-1 – Commonly used types of pumping stations in DMAT jurisdiction	59
Table 6-2 – Pump types and applications	59
Table 6-3 - Suction Piping Design Considerations	63
Table 6-4 – Discharge Line Design Considerations	64
Table 6-5 – Motor Specification	66
Table 6-6 – Motor Control Centre Specification	68
Table 6-7 – Lighting Design.....	69
Table 6-8 - Level Sensor Application.....	71
Table 6-9 – Methods of Flow Measurement.....	72
Table 6-11 – Pump Protection Measures:	74
Table 6-12 – Minimum PLC and RTU Requirements	75
Table 7-1 - Pumping Main Design Factors	77
Table 7-2 – Hazen Williams C Coefficients for Types of Pipe	79
Table 7-3 – K_s Coefficients for velocity of flow	80
Table 7-4 – K Values for Type of Fittings	81
Table 7-5 – Minimum Thrust Safety Factors	81
Table 7-6 – Manual vs Power Operated Valves	84
Table 7-7 - Air Valve Nominal Sizes v Main (DN)	85
Table 7-8 – Washout Nominal Sizes vs Main (DN)	85
Table 7-9 – Valve Chamber Design Criteria.....	86