## Support Tables

## A-1 Condition Assessment

Condition Rating	Description	Maintenance Level	Description
1	New or Excellent Condition	Normal PM	
2			
3	Minor Defects Only	Normal PM, Minor CM	
4			
5	Moderate Deterioration	Normal PM, Major CM	
6			
7	Significant Deterioration	Major repair, rehabilitate	
8			
9	•	Rehab unlikely	
10	Unserviceable	Replace	

## A-2 Performance

Performance Rating	Description
1	Exceeds / Meets all Performance Targets
2	Minor Performance Deficiencies
	Considerable Performance Deficiencies
	Major Performance Deficiencies Does not meet any Performance Targets

A-3 Reliability

Reliability Rating	Description	Failure Timing
1	As Specified by Manufacturer	Never
2	Random Breakdown	Every 20 Years
3		Every 5 Years
4	Periodic Breakdown	Every 2 Years
5	Continuous Breakdown	= 1 year

B-1 Effective Lives (Years)

Class	Asset Type	Exp Life
1	Civil	75
2	Pressure Pipework	60
3	Sewers	100
4	Pumps	40
5	Valves	30
6	Motors	35
7	Electrical	35
8	Controls	25
9	Building Assets	60
10	Land	300

onditon - Residual Life Factors Condition/Residual Life										
Effective Lives	1	1 2 3 4 5 6 7 8 9 10								
Civil	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0
Pressure Pipework	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0
Sewers	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0
Pumps	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0
Valves	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0
Motors	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0
Electrical	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0
Controls	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0
Building Assets	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0
Land	1	1	1	1	1	1	1	1	1	1

Condition Based Effective Lives	Condition/Residual Life									
Effective Lives	1	2	3	4	5	6	7	8	9	10
Civil	67.5	60	52.5	45	37.5	30	22.5	15	7.5	0
Pressure Pipework	54	48	42	36	30	24	18	12	6	0
Sewers	90	80	70	60	50	40	30	20	10	0
Pumps	36	32	28	24	20	16	12	8	4	0
Valves	27	24	21	18	15	12	9	6	3	0
Motors	31.5	28	24.5	21	17.5	14	10.5	7	3.5	0
Electrical	31.5	28	24.5	21	17.5	14	10.5	7	3.5	0
Controls	22.5	20	17.5	15	12.5	10	7.5	5	2.5	0
Building Assets	54	48	42	36	30	24	18	12	6	0
Land	300	300	300	300	300	300	300	300	300	300

C-1 Consequence of Failure

<b>CoF Rating</b>	Description	% Affected	Level
1	Minor Component Failure	0-25%	Asset
2	Major Component Failure	25-50%	Asset
3	Major Asset	0-25%	Asset
4	Multiple Asset Failure	25-50%	Facility / Sub-System
5	Major Facilty Failure	50-100%	Facility
6	Minor Sanitory System Failure	20-40%	Total System
7	Medium	40-60%	Total System
8	Intermediate	60-80%	Total System
9	Significant	80-90%	Total System
10	Total	90-100%	Total System

D-1 Probability of Failure

% of Effective Life Consumed	PoF Rating
0%	1
10%	2
20%	3
30%	4
40%	5
50%	6
60%	7
70%	8
80%	9
90%	10

D-2 Don't Forget Redundancy!

Level of Redundancy	Reduce PoF by:
50% Backup	50%
100% Backup	90%
200% Secondary Backup	98%

E-1 Renewal Strategies

Option	Description	Type
1	Do nothing	Non-Capital
2	Continue with Status Quo	Non-Capital
3	Maintain differently	Non-Capital
4	Operate differently	Non-Capital
5	Repair	Capital
6	Refurbish/rehabilitate	Capital
7	Replace asset with similar	Capital
8	Replace with improved asset	Capital
9	Reduce Levels of Service	Non-Asset