

CITY OF SWAN

ENGINEERING ASSET MANAGEMENT PLAN STREET FURNITURE

Section 1: Executive Summary

1.1 The Purpose of the Plan

The table below details the City of Swan asset groups that have current Asset Management Plans.

	Asset Groups
1	Land
2	Building
3	Parks & Landscaping - Active Facilities
4	Parks & Landscaping - Passive Reserves
5	Parks & Landscaping - Verges/Medians/Roundabouts
6	Parks & Landscaping - Buildings
7	Natural Environment
8	Engineering - Roads
9	Engineering - Footpaths
10	Engineering - Bridges, Jetties
11	Engineering - Street Furniture
12	Engineering - Drainage
13	Engineering - Carparks

1.2 Asset Description

This AMP considers the majority of street furniture within the City of Swan.

Asset Hierarchy

To view the asset hierarchy for Suburb Roads see Supporting Documents – **Asset Hierarchy Suburb Roads .pdf** on this WebPage.

To view the asset hierarchy for Arterial Roads see Supporting Documents – **Asset Hierarchy Arterial Roads .pdf** on this WebPage.

To view the asset hierarchy for Suburb Parks & Reserves see Supporting Documents– **Asset Hierarchy Suburb Parks & Reserves .pdf** on this WebPage.

To view the asset hierarchy for Buildings see Supporting Documents – **Asset Hierarchy Buildings .pdf** on this WebPage.

To view the asset hierarchy for Miscellaneous see Supporting Documents – **Asset Hierarchy Miscellaneous .pdf** on this WebPage.

Asset List

Item	Number of
Metal Halide Lights	250
Decorative Lights	527
Park Lights	2997
Solar Lights	253
Signs	4575
Bus Shelters	180

To view the City's Metal Halide Light register see Supporting Documents – **Metal Halide.xls** on this WebPage.

To view the City's Decorative Light register see Supporting Documents – **Decorative Lighting.xls** on this WebPage.

To view the City's Park Light register see Supporting Documents – **Park Lighting.xls** on this WebPage.

To view the City's Solar Light register see Supporting Documents – **Solar Lights.xls** on this WebPage.

To view the City's Sign register see Supporting Documents – **Swan Signs.xls** on this WebPage.

Note :

- The City is responsible for the provision of street lighting. Western Power maintains the majority of the poles and luminaries on behalf of the City, for an annual fee. The Decorative Lights listed above are located in road reserves, and are maintained by the City of Swan.
- City's Bus Shelter register will be available April 2006.

There has been previous work completed to collect locations and data against all of the above assets. The City has become increasingly aware of the need to not exhaust large amounts of resources on the collection and maintenance of non-essential asset information. Assets such as signs and other furniture fall into this category. Therefore the only asset areas which have maintained asset lists are lighting and bus shelters.

1.3 Levels of Service

The level of service for Street Furniture that Council provides is a well lit environment that is safe for the community to use with ancillary furniture that is safe and functional. This includes all activities from driving vehicles to participating in walking, jogging, socialising and generally relaxing.

1.4 Future Demand**1.5 Lifecycle Management Plan****1.6 Financial Summary****1.7 Asset Management Practices****1.8 Monitoring and Improvement Programme**

All information contained herein is correct as of **1st March 2006**. If you have any comments or queries on this AMP then please contact the Asset Systems Officer, Maria Chau, on 9267 9194.

For component weighting and % complete of the 13 Asset Management Plans see Supporting Documents – **AMP WEIGHTING - PERCENTAGE COMPLETE.xls** on this WebPage.

Section 2: Introduction**2.1 Background**

The purpose of this plan is to provide a central location for information regarding locality, type, size and condition of street furniture that the City Of Swan is responsible.

2.2 Goals and Objectives of Asset Ownership

The City of Swan's objective is to provide to the community adequate lighting and street furniture for recreational purposes that will enhance the quality of life of residents and to increase leisure, cultural and social opportunities that meet the lifestyle needs of the community.

2.3 Plan Framework

This plan looks at the major elements within the street environment and provides a view of the condition of each, replacement cost and the proposed timeline for replacement. This will help identify and prioritise which items are to be replaced first and provide a tool for projecting the budgets required to meet this demand.

2.4 Basic and Advanced AM

This plan takes a high level view of the collective assets in this group. The information that has been collected is luminaire, luminaire type, asset code and year of manufacture etc. and this information is recorded onto the respective spreadsheets, for a link to the spreadsheets see **Asset List in 1.2**.

Section 3: Levels of Service

3.1 Customer Research and Expectations

3.2 Strategic and Corporate Goals

The City of Swan Strategic Plan 2003 – 2005, provides direction for this Asset Management Plan. The Council is committed to achieving sustainable development and maintaining assets that enhance and increase the safety of the local environment, the leisure, cultural and social opportunities that meet the lifestyle needs of the community.

3.3 Legislative Requirements

3.4 Current Level of Service

The City of Swan is responsible for lighting and ancillary street furniture within the local road network, to provide a safe environment for the public use.

All luminaires are inspected at night on a 3-4 month cycle; any works that are identified are programmed for repairs and forwarded to Council's tendered contractor.

Any requests received from customers are responded to in 24-48 hours. The work is then forwarded to Council's tendered contractor for action within 20 days as per Council's level of service.

3.5 Desired Level of Service

Section 4: Future Demand

4.1 Demand Forecast

4.2 Changes in Technology

4.3 Demand Management Plan

Section 5: Lifecycle Management Plan

5.1 Background Data

Physical Parameters

i.

Asset List

Item	Number of
Metal Halide Lights	250
Decorative Lights	527
Park Lights	2997
Solar Lights	253
Signs	4575
Bus Shelters	180

Assets such as signs and other furniture are considered to be of a minor nature and no specific data has been collected. The only asset areas where data is maintained are the lighting and bus shelters asset lists.

Asset Attributes

Lighting Assets – There are currently up to 15 fields of data being held against each light.

To view the City's Metal Halide Light register see Supporting Documents – **Metal Halide.xls** on this WebPage.

To view the City's Decorative Light register see Supporting Documents – **Decorative Lighting.xls** on this WebPage.

To view the City's Park Light register see Supporting Documents – **Park Lighting.xls** on this WebPage.

To view the City's Solar Light register see Supporting Documents – **Solar Lights.xls** on this WebPage.

To view the City's Sign register see Supporting Documents – **Swan Signs.xls** on this WebPage.

The sign inventory is several years old now and is not currently maintained.

ii. Asset Capacity/Performance

iii. Asset Condition

Condition

No measurement of condition currently exists for the lights in this AMP, but in March 2006 a consultant is checking and amending the bus shelter table in MapInfo, which includes some condition checking.

iv. Asset Valuations

Item	Current Replacement Cost
Street Furniture	\$7,039,000

v. Historical Data

5.2 Routine Maintenance Plan

i. Maintenance Plan

All luminaires are inspected at night on a 3-4 month cycle; any works that are identified are programmed for repairs and forwarded to Council's tendered contractor.

Any requests received from customers are responded to in 24-48 hours. The work is then forwarded to Council's tendered contractor for action within 20 days as per Council's level of service.

ii. Standards and Specifications

iii. Summary of Future Costs

5.3 Renewal/Replacement Plan

i. Renewal Plan

Currently the asset condition and degradation curve is based on a life expectancy measured in years that each component is expected to last. This then produces an annual quantity that should be replaced and this then generates the expected financial cost.

ii. Renewal Standards

iii. Summary of Future Costs

5.4 Creation/Acquisition/Augmentation Plan

i. Selection Criteria

ii. Standards and Specifications

iii. Summary of Future Costs

5.5 Disposal Plan

5.6 Risks

Effective risk management practices play an important role in the management of local government assets, many of which have inherent risks associated with them. In recognition of this, the City of Swan has undertaken a risk assessment of all major asset groups to ensure that appropriate levels of risk control are incorporated into whole of life management strategies.

Definitions

Asset risk management - "the systematic identification, analysis and control of the broad range of risks which threaten an asset or users of that asset and the asset manager's ability to achieve asset management objectives".

Hazard - "a situation or condition with the potential to cause injury or damage."

Risk - "the probability of a hazard resulting in injury or damage; together with the seriousness of the injury or damage."

Risk Assessment

The process adopted for the assessment of risks was based on AS/NZS 4360 and involved identification of major adverse contingency situations, measuring their potential effect

and then defining that potential in terms of likelihood, consequence and variability from the expected. Risk was assessed on the basis of “raw risk”, that is the risk associated with the identified event when considered in absence of all risk control.

Risk Control

The process then identified existing risk control initiatives through review of existing policies, procedures and mechanisms for responding to contingency situations. Where necessary, additional proposed strategies to improve risk control were also identified. Risk was then reassessed to determine “residual risk”, that is the risk that remains after all identified risk control initiatives are implemented.

Criteria

The City of Swan has adopted qualitative criteria for the assessment of risk generally in keeping with the recommended criteria as outline in AS/NZS 4360.

The criteria used for assessing risk may be viewed by seeing Supporting Documents – **Risk Management Criteria.doc** on this WebPage.

Register

The results of the risk assessment have been incorporated into a risk register which details the significant risks associated with this asset group.

The risk register may be viewed by see Supporting Documents – **Engineering - Street Furniture Risk Register.doc** on this WebPage.

Section 6: Financial Summary

6.1 Financial Statements and Projections

10 Year Capital and Maintenance Programs

The table below details the current **Maintenance Budgets** available for spending on the assets considered within this AMP.

Item	2005 / 2006 Maintenance Budget
Street Lighting	\$1,010,000
Signage	\$57,340
Bus Shelters	\$24,300

The table below outlines draft **Capital Programs** planned for 2006/2007 on all the assets considered within this AMP.

Item	2006 / 2007 Capital Budget
Street Lighting	\$200,000
Park Lighting	\$100,000
Signage Plan	\$55,000
Bus Shelters	\$75,000

6.2 Funding Strategy

6.3 Valuation Forecasts

6.4 What Are the Key Assumptions Made in Financial Forecasts?

Section 7: Asset Management Practices

7.1 Accounting/Financial Systems

The City of Swan's financial system is Peoplesoft Enterprise One (E1). This provides a complete integrated system that captures the financial costs against each asset by raising works orders (job number) for specific repair/maintenance, renewal and new capital.

Definitions;

Repair/maintenance is maintaining an asset at its current level of service.

Renewal is replacing an asset to its original state with no increase in the level of service.

New capital is the construction of completely new asset.

7.2 Asset Management Systems

The City's GIS system, MAPINFO, is used to record the location, size, type and area of all assets. This then produces data on the quantities of the major components that the city spends money maintaining. The Asset Portfolio lists that have been generated from MAPINFO are 90% accurate and have been placed into Excel spreadsheets. The lists are stored in a central file in T Operations.

The Maloney Asset Management Services "Asset Renewal Gap" software is used to gauge the funding gap that currently exists for Council. This provides information on the

financial shortfall that Council faces and provides an opportunity to adequately plan to meet the financial demands of asset management.

7.3 Information Flow Requirements and Processes

E1 also integrates work requests from the public and internal sources through the Pathway module, which generates work requests describing the required action; this is directly linked to the specific asset automatically. This allows all work that is carried out against an asset to be tracked to provide information relating to time frames, costs and compliance with the prescribed level of service.

7.4 Standards and Guidelines

Section 8: Plan Improvement and Monitoring

8.1 Performance Measures

8.2 Improvement Programme

8.3 Monitoring and Review Procedures

Section 9: References

Section 10: Appendices