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ASSET MANAGEMENT PLAN STORMWATER DRAINAGE

INTEGRATED **PLANNING** AND
REPORTING FRAMEWORK

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EXECUTIVE SUMMARY

The Stormwater Drainage Asset Management (AMP) outlines all the tasks and resources required to manage and maintain Council's stormwater drainage to an agreed standard. The AMP sets out a detailed overview of all Council's stormwater drainage (valued at approximately $360 million).

Council currently has an adopted level of service to resource the maintenance/ renewal of its stormwater drainage to ensure that they are not in poor condition.

This AMP forecasts the resourcing to meet that level of service for Council's next Delivery Program.

This is Councils third Delivery Program (4 years). In 2011/12 Council investment in stormwater drainage maintenance/renewal was $247,000 dollars. Council's first AMP calculated a shortfall of $0.4 million per annum to maintain its stormwater drainage at the current condition.

The successful application for a Special Rate Variation (SRV) and injection of these funds has enabled Council to maintain its level of service.

Since then the Department of Local Government has introduced key performance measures as part of Special Schedule 7 annual reporting. To achieve these performance targets Council is committed to ensuring that its assets do not fall into Condition 4 (poor) or Condition 5 (very poor).

This AMP identifies the financial investment by Council to meet the Department of Local Government key performance indicators (Special Schedule 7) for Councils Delivery Program 2021/22 – 2024/25.

1. INTRODUCTION

Fairfield City Council is responsible for the management of stormwater drainage assets valued at approximately $360 million built up over many generations. This presents significant challenges as many assets were constructed many decades ago, some of these are approaching the end of their useful asset life. The cost of maintaining and renewing these depreciating assets is likely to be a significant impact on scarce financial resources over the coming decades.

1.1 Fairfield City Plan Link

The Fairfield City Plan goals and objectives in this Asset Management Plan are:

Table 1.1 Council Goals and how these are addressed in this Plan

Broad Theme	Goal	Outcomes	How objectives are addressed in AMP
Theme 3 - Environmental Sustainability	Goal a: A sustainable natural environment	2 Resilience to natural hazards such as floods and fires	Improve stormwater drainage to reduce the impact of floods
Theme 4 – Strong and Resilient Economy	Goal b: Attractive and lively City	1 A unique and energetic city as a destination for food and leisure activities	Upgrade/improve - engaging with local community for input

1.2 Scope of this Plan

Fairfield City Council is responsible for the management of stormwater drainage assets as shown in Table 1.1 with a replacement value of $360 million.

Table 1.1

Asset Category	Quantity	Replacement Cost (,000)
Detention Basin*	11 items (Major)	$2,020
Gross Pollutant Trap (GPT)*	25 items (Major)	$1,722
Channel	11km	$10,815
Pipe	478km	$304,569
Drainage Pit	14372 items	$40,299
Headwalls	580 items	$471
Rain Garden	22 items	$102
	Total	**$359,999**

Distribution of Drainage assets covered by this Asset Management Plan (AMP) are shown in Figure 1.1

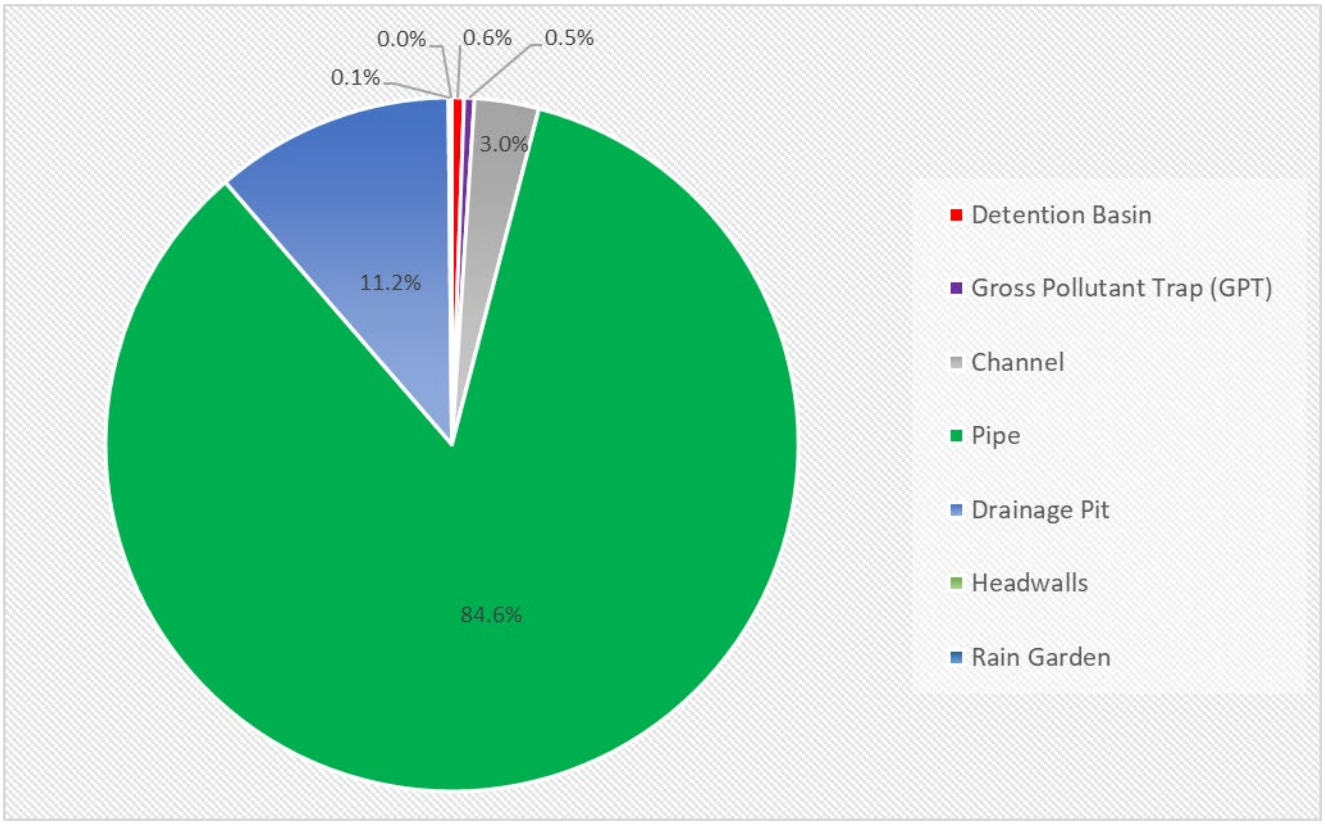


Figure1.1 - Distribution of Drain Assets

2. LEVELS OF SERVICE

2.1 Legislative Requirements

Council has to meet many legislative requirements including Australian and State legislation and State regulations. These include:

Legislation	Requirement
Local Government Act	Sets out role, purpose, responsibilities and powers of local governments including the preparation of a long term financial plan supported by asset management plans for sustainable service delivery.
The Australian Accounting Standards	The Australian Accounting Standards Section 27 (AAS27) requires that assets be valued, and reported in the annual accounts, which also includes depreciation value (i.e. how fast are these assets wearing out).
Road Act 1993	Sets out the extent of Council responsibilities and powers in the road reserve.
Water Management Act 2000	The objects of this Act are to provide for the sustainable and integrated management of the water sources of the State for the benefit of both present and future generations and, in particular: (a) to apply the principles of ecologically sustainable development, and (b) to protect, enhance and restore water sources, their associated ecosystems, ecological processes and biological diversity and their water quality, and (c) to recognise and foster the significant social and economic benefits to the State that result from the sustainable and efficient use of water, including: (i) benefits to the environment, and (ii) benefits to urban communities, agriculture, fisheries, industry and recreation, and (iii) benefits to culture and heritage, and (iv) benefits to the Aboriginal people in relation to their spiritual, social, customary and economic use of land and water, (d) to recognise the role of the community, as a partner with government, in resolving issues relating to the management of water sources, (e) to provide for the orderly, efficient and equitable sharing of water from water sources, (f) to integrate the management of water sources with the management of other aspects of the environment, including the land, its soil, its native vegetation and its native fauna, (g) to encourage the sharing of responsibility for the sustainable and efficient use of water between the Government and water users, (h) to encourage best practice in the management and use of water.

Legislation	Requirement
Local Government (General) Amendment (Stormwater) Regulation 2006 under the Local Government Act 1993	The object of this Regulation is to amend the Local Government (General) Regulation 2005: (a) to prescribe the maximum amount that may be charged by a council for the provision of stormwater management services, and (b) to provide that certain information regarding stormwater management services is to be included in a council's draft management plan, and (c) to provide that a council's annual report is to include certain information relating to the provision of stormwater management services. This Regulation is made under the Local Government Act 1993, including sections 403 (1), 428 (2) (r), 496A and 748 (the general regulation-making power).
Environmental Planning and Assessment Act 1979	Sets out guild lines for land use planning and promotes sharing of responsibilities between various levels of government in the state.
Environmental Planning and Assessment Amendment Act 2008	Sets out guild lines for land use planning and promotes sharing of responsibilities between various levels of government in the state.
Protection of the Environment Operations Act 1997	Sets out Council responsibility and powers of local area environment and its planning functions.

2.2 Adopted Levels of Service

The adopted Levels of Service that are considered appropriate to Fairfield City Council are scheduled in Table 2.2.1.

Table 2.2.1

Key Performance Indicator	Level of Service	Target Performance	Performance Measure Process
Social Needs	Ensure that drainage assets are fully functional for community needs	Importance and satisfaction levels are considered	Community Survey Results
Appearance	Stormwater drainage systems and associated assets in clean and presentable condition	Maximum 5 requests/ complaints per month regarding cleanliness	Customer Service requests
Legislative Compliance	Council has a legal right to drain through an easement, drainage reserve or water course.	100% compliance	All drainage assets mapped in Council's GIS system
Health and Safety	Provide stormwater system that is low risk to the community	<5 per year Incident Reports	Incident reports
		<5 per year request related to safety	Customer service requests

Key Performance Indicator	Level of Service	Target Performance	Performance Measure Process
Quality	Ensure that stormwater assets undergo appropriate maintenance to minimise disruption to service delivery	<20 complaints per annum	Number of customer complaints per annum
Quantity	Adequate capacity to accommodate flow rates generated by 1 in 5 year storms	20 storm water blockages per 100 km pipe per annum.	Customer Service Requests Australian Rainfall Runoff technical specifications and guidelines
Reliability and Performance	Percentage of customer request actioned within twenty eight days	100%	Audit of Work Orders generated Customer Request Management statistics
Responsiveness	All works relating to drainage assets are completed with agreed timeframes depending on task and rating as specified in risk register and maintenance plan	90% of work identified completed within designated response times	Audit of Work Orders generated Customer Request Management statistics
Condition	Average Asset Condition	Average condition will fall to maximum 2.1 in 20 years	Condition Data Analysis
	Overall Asset Condition	Maximum 3.2 % of assets will be in condition 4 & 5 in 20 years with current level of funding	Condition Data Analysis
Capacity	New stormwater drainage pipes are designed for 5 years storm events	95%	Council Policy compliance
Financial Sustainability	Drainage assets are managed for future generations	Asset Renewal Funding Ratio 40%	Annual Budget Expenditure Review
	Projects are delivered within budget	100%	Percentage of projects completed within 5% of commit to build budget

3. FUTURE DEMAND

3.1. Demand Forecast

3.1.1 Technological Change

Table 3.1.1.1 Changes in Technology and Forecast effect on Service Delivery

Technology Change	Effect on Service Delivery
Integrated asset management system including electronic recording of asset condition and performance linked to GIS	Improve the efficiency and effectively measure the performance of asset management plan and delivery of service
Affordable continuous water quality measuring devices	More frequent measurement of water quality and level of pollutants
Improvements to pollutant control devices	Higher level of pollution capture and treatment of stormwater.
Alternative pipe materials and equipment	Reduce pipe laying costs
Further development of urban stormwater water sensitive devices and techniques	Reduce stormwater run-off and increase reuse
Affordable pipe liners	Cost effective method of retaining existing asset

3.1.2 Increased demand for asset renewal and maintenance

The table below shows the variance over the last 3 years in terms of the value of new stormwater drainage assets.

Financial Year	Asset Value ('000)
2019/2020	$360
2020/2021	$297
2021/2022	$196

Council has mapped its stormwater drainage assets to a high level of confidence. Currently, there is not an accepted methodology for condition assessment of stormwater drainage assets. For this reason their life cycle is determined by the age of the asset.

3.1.3 Change in Community Expectation

Community Expectations	Effect on Service Delivery
There is a strong desire from the community for increased environmental responsibility and the reuse of stormwater runoff	Existing networks are not suitable for the purpose

3.1.4 Environmental Considerations

Environment and Climate Change (Sea Level Change)	Effect on Service Delivery

It is widely accepted that climate is changing	The stormwater network may be impacted by climate/rainfall and severe events.

3.4 Demand Management

Opportunities identified to date for demand management are shown in Table 3.1.3.1.

Table 3.1.3.1 Demand Management Strategies Summary

Service Activity	Demand Management Strategies
All Drainage Assets	WSUD – more overland flow, green swales, local detention basins, less impervious areas on new developments.
	Greater compliance for surface water runoff pollution particularly on new developments to reduce the silting up of pits, pipes and other water ways.
	Greater cleaning and flushing of the underground system to ensure full capacity is realised.
	Clearing and widening of natural waterways to increase capacity and therefore their role in the stormwater drainage network.
	More use of GPTs on private property to arrest pollutants before they reach the Council network.

4. RISK MANAGEMENT

In order to establish those risks that will be covered by the risk management program a table has been developed showing sources of risk, their potential impacts, current controls and action plans (refer to Table 4.1). The risk register has established the responsibilities of the relevant departments (City Assets and Operations) and person.

Table 4.1: Drainage Asset Risk Register (to use this sheet refer to Generic Asset Management Plan - Section 1: Table 4.1, 4.2, 4.3 and 4.4)

Hazards	Risk (what can happen?)	Likelihood	Consequence	Risk Score	Controls	Action	Responsibility
Asset Condition	Ongoing deterioration of drainage assets	4	3	12	Repaired after receiving request from resident	1. Regular condition inspections 2. Asset modelling 3. Annual allocation of sufficient funding and resources	Asset Management
Asset Condition	Poor asset condition causes damage and injury to staff and community member	3	4	12	Repaired after receiving request from resident	1. Prioritise capital and maintenance works based on condition 2. Submit appropriate funding requests for Drainage inspections (CCTV camera) and maintenance	Asset Management
Insufficient Maintenance	Insufficient maintenance over the years increases the risk of injury to users	3	3	9	Reactive type	Prepare program work as per AMP for budget consideration	Asset Management
Natural Events (flooding, bushfire, earthquake etc)	Significant asset loss due to Natural events	3	3	9		Organise inspection immediately after flooding.	Asset Management
Restricted flow	Damage and injury caused by restricted flow	3	3	9	Repaired after receiving request from resident	Asset inspections as set out in AMP and maintenance program development	Asset Management

Hazards	Risk (what can happen?)	Likelihood	Consequence	Risk Score	Controls	Action	Responsibility
Overflow due to blockage of pipes and pits	Damage and injury caused by restricted flow	3	3	9	Repaired after receiving request from resident	Asset inspections as set out in AMP and maintenance program development	Asset Management
OHS Practices	Injury due to poor WHS practices	2	3	6		WHS controls trained	Operations
Inappropriate works	Damage and injury caused by inappropriate works	2	3	6		Need to ensure that works are carried out in accordance with specification.	Operations
Poor Design and Construction	Injury caused by poor design and construction	4	3	12	Design review	Rigorous design to ensure that standards are achieved and documented. Implement quality control & quality assurance processes in construction. Establish post construction review with design	Asset Management

5. LIFE CYCLE MANAGEMENT PLAN

5.1 Objective

The objective of the drainage network is to transport stormwater from the point of collection to its point of discharge.

5.2 Asset Inclusions and Exclusions

5.2.1 Inclusions

The assets covered by this plan are shown below:

- Piped drainage
- Gross Pollutant Traps
- Drainage pits
- Headwalls
- Piped drainage
- Detention Basins
- Litter baskets
- Concrete lined channels
- Open earth channels
- Rain Garden

5.2.2 Exclusions

Other assets are not covered by this plan:

- Bridges

This is covered in the Roads and Transport Asset Management Plan.

5.3 Life Cycle Issues

Some of the key life-cycle issues relating to drainage assets are:

- The quality of road reinstatement by service authorities and other organisations has a significant effect on drainage quality.

- The emphasis on predictive modelling of concrete pipe and pits deterioration needs to be continued to enable understanding of drainage useful life and planned increases in rehabilitation expenditure.

5.4 Hierarchy

The hierarchy for this asset class has been created to assist maintenance and renewal planning. All assets fall within a unified guideline with regard to design, operation, maintenance and renewal.

Road & Drainage Reserve	Description
Regional	Drainage system on the regional road
Collector	Drainage system on the collector
Local	Drainage system on the local road
Cul-De-Sac	Drainage system on the cul-de-sac
Drainage Reserve	Drainage system on the drainage reserve (not on the road)

5.5 Asset Description

Fairfield City Council manages 470 kilometres of stormwater pipe and 14,025 stormwater pits. Drainage assets have been identified for valuation purposes into the following assets components:

Drainage Assets	Asset Components
Stormwater Pits	Grated Gully Pit Kerb Inlet Pit Grated Pit with Kerb Inlet Junction Pit Letterbox Pit Median Pit Grated Surface Inlet Pit in Open Space
Stormwater Pipe	Class 2 Pipe (225mm to 2100mm)
Open Channel	Concrete
Detention Basin	Structures
Gross Pollutant Traps (GPT)	Structures

5.6 Physical Parameters

5.6.1 Asset Capacity, Performance and Compliance

Most of the drainage system was built in Fairfield over the last several decades. The theoretical design capacity of drainage in some areas may no longer effectively manage higher stormwater runoff from additional development, infill housing and other increases in impervious areas (i.e. increased residential concrete surfaces).

The capacity analysis of stormwater pipes in Fairfield is carried out by the Council's Catchment Branch.

5.6.2 Asset Condition

Results included in the following table were gathered through an audit of the drainage assets by Council staff.

Condition is measured using a 1-5 rating system as defined in the Table 5.6.2.1 below:

Level	Condition	Description	% Life Consumed
1	Excellent	No work required (normal maintenance)	0
2	Good	Only minor work required	25
3	Average	Some work required	50
4	Poor	Some renovation needed within I year	75
5	Very Poor	Urgent renovation/upgrading required	100

Examples of stormwater pits are shown below:

Condition 1:
No work required (normal maintenance)

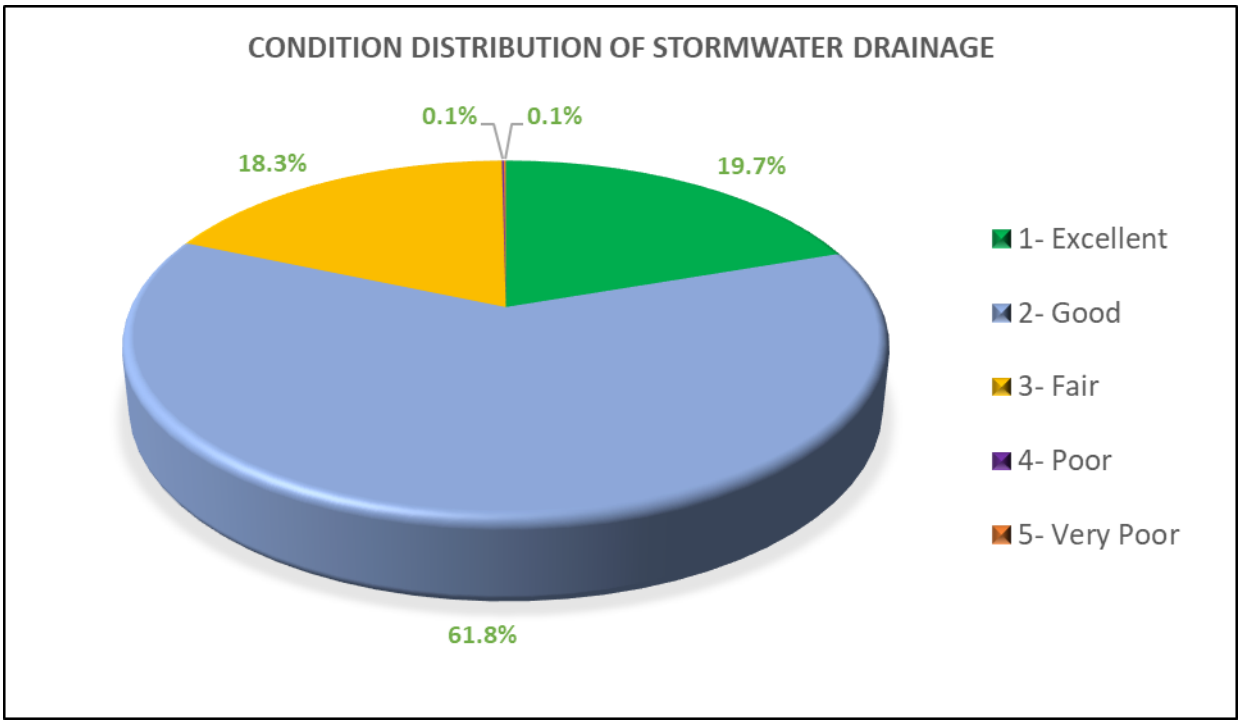
Condition 2:
Only minor work required

Condition 3:
Some work required

Condition 4:
Some renovation needed within 1 year

Condition 5:
Urgent renovation/upgrading required

Audit results for all Council Drainage assets result in the condition profile shown below:



5.7 Asset Valuation

Quality Management QMPOL-AMS-012 Valuation Report Infrastructure Assets – Stormwater Drainage provides the revaluation documentation for this asset portfolio.

Valuation of Council's Road and Transport assets is undertaken every 5 years and is externally audited by the NSW Office of Audit. The Replacement Costs and the Written Down Value

A summary of replacement cost and written down value at 31 March 2020 is detailed in Table 5.1.1 below.

Table 5.1.1: Asset Valuation

Asset Group	Replacement Cost ($000)	Accumulated Depreciation ($000)	Depreciated Replacement Cost ($000)
Stormwater Drainage	$355,954,938	$88,853,992	$267,100,946

5.7.1 Asset Useful Life

The useful life of an asset is defined as a period over which an asset is expected to be fully utilised.

The useful life used in this Asset Management Plan is detailed in the below table and was derived from the following sources:

- International Infrastructure Management Manual (IPWEA, 2006)
- Council's experience with similar assets
- Other Councils' Road Asset Management Plans

Drainage Assets	Type	Useful Life (years)
Stormwater Pit	Grated Gully Pit Kerb Inlet Pit Grated Pit with Kerb Inlet Junction Pit Letterbox Pit Median Pit Grated Surface Inlet Pit in Open Space	150 150 150 150 150 150 150
Stormwater Pipe	Class 2 Pipe (225mm to 2100mm) PVC Pipe	150 40
Open Channel	Concrete	100
Detention Basin	Structures	100
Gross Pollutant Traps (GPT) Storm/Sand Filter Wire Basket/Pit Trap Bank Treatment Rain Garden Structures Net Traps	Structure	100 50 50 20 40 15

5.8 Renewal Expenditure

Council's Stormwater Drainage Renewal Program budget allocation over the last three years is detailed in 5.1.2.

Table 5.1.2: Renewal Expenditure

	2019/2020	2020/2021	2021/2022
Renewal	$325,437	$355,698	$1,079,000

5.9 Life Cycle Activities

5.9.1 Operations

Operational activities keep the asset utilised but have no effect on condition. Typical operational activities can include but are not limited to the pit cleaning, asset inspection, asset management software maintenance

5.9.2 Maintenance

Maintenance activities are those routine works which keep assets operating to the required service levels. They fall into two broad categories:

1. *Planned Maintenance (proactive)*
   Maintenance works carried out in response to reported problems or defects. Typical planned maintenance activities include:
   - Re-grading Table Drains

2. *Unplanned Maintenance (reactive)*
   Maintenance works unplanned to prevent asset failure and deterioration. Typical planned maintenance activities include:
   - Repair of damaged pit lid, grate, end wall etc 3

5.9.2.1 Maintenance Standards

Stormwater Drainage asset maintenance standards are a set of performance criteria to the agreed service standard and future maintenance. They form the basis of the minimum level of service for a particular asset.

These standards allow the development of a plan that determines the level of maintenance needed based on the agreed service standard for all drainage assets.

Each asset is allocated a hierarchy to identify the maintenance standard that is required. Maintenance standards, condition auditing and frequency of servicing/maintenance varies depending on the importance of the asset.

The actual asset condition will be compared against the desired maintenance standard, or in the case of legislation the required maintenance standard. Variations from the standard that are identified will form part of the maintenance plan.

5.9.2.2 Maintenance Strategy

Maintenance strategies include:

- Prevent premature deterioration or failure of stormwater drainage assets.
- Deferring minor maintenance work if drainage assets are due for rehabilitation/renewal.
- Ensuring all assets are maintained to deliver the desired levels of service.

Maintenance works are prioritised based on the following factors:

- The safety of asset users
- It is likely that the area of distress may expand
- Renewal work depends on the planned maintenance works

- Asset hierarchy
- Statutory regulation
- Executive priority

Maintenance Specifications

Maintenance work is carried out in accordance with the Council's Specification, including the Auspec – standards and specifications.

5.9.2.3 Maintenance Program

Both planned and unplanned maintenance is undertaken as a result of either proactive inspection by Council staff or after receiving a request from customers.

A maintenance plan (**Appendix 1**) is a part of this Asset Management Plan.

The plan describes the timing of activities such as inspection and other works to be undertaken on a stormwater drainage asset.

5.9.2.4 Maintenance Service Provision

Fairfield City Council currently uses a mixture of its own staff and external contractors for the provision of road and transport asset maintenance services.

5.10 Renewal Plan

Renewal

Renewal work is the replacement of an asset or a significant component to restore its original size and capacity. Typical drainage renewal works include replacement of existing:

- Stormwater Pits
- Stormwater Pipes

5.10.1 Renewal Strategy

Renewal/replacement strategies are determined on the basis of:

- **Risk** – where the risk of failure and associated safety, financial and commercial impact justifies action;
- **Asset performance** – when the asset fails to meet the required level of service; and
- **Economics** – when it is no longer economic to continue repairing the asset (that is, the annual cost of repairs exceeds the annualised cost of renewal).

This asset management plan enables Council to holistically manage its stormwater drainage assets through the development of an annual Major Program.

It is notable that the replacement of stormwater pipe is undertaken at failure as the most cost effective and least disruptive methodology for this capital work.

All renewal works are prioritised based on the following criteria:

- Asset hierarchy
- Maintenance standard
- WHS obligations
- Statutory obligations
- Overall condition
- Environment impacts
- Future impact on other asset
- Costs

Renewal Specifications

Maintenance work is carried out in accordance with the Council's Specification, Auspac including Australian Service Standards and Specifications

5.10.3 Renewal Expenditure Forecasts

Council's Asset Management System (Conquest) maintains all of the data and information relating to Councils Stormwater Renewal Program.

This data informs financial planning and using an approved (industry standard) software (MyPredictor), Council is able to model the deterioration of the assets in order to determine the renewal needs over the longer term.

5.9 New/Upgrade Works

New/upgrade works involve the extension or upgrade of assets required to cater for growth or additional levels of service. New works create an asset that did not exist or extend an asset beyond its original size or capacity

5.9.1 New/Upgrade Works Strategy

Most of any new stormwater drainage assets in Fairfield are created as part of subdivisional activity. The constructions of new assets within new subdivisions are generally funded by the developers and must be constructed in accordance with the Council's Subdivisional Standards.

On completion, provided the assets comply with the Subdivisional Standards, they are vested in the Council (i.e. Council takes over ownership). There are few capital expenditure implications with this type of asset creation, the more significant implications are maintenance and renewal related.

Other proposals for extension or new assets require the development of a Business Case. Fairfield City Council has developed a format for the submission of Business Cases to demonstrate alignment to the City Plan, life cycle costs, impacts on existing services/infrastructure, forecasted usage rates and analysis as to the need for the service.

Business Cases enable Council to prioritise projects and provide the necessary information to decide whether to proceed to construct a drainage project.

All stormwater drainage assets undergo a whole of life analysis that will consider the impact of longer term renewal, maintenance as well as operating costs.

5.10 Asset Disposal

Asset disposal involves assessment of strategic goals and the recognition that some assets may be underperforming or surplus to operating requirements. Disposal of assets may be recommended when:

- The asset is under utilised and surplus to Council service delivery
- Community consultation identifies that the asset is not providing a value for money service
- The asset is not aligned with corporate goals or the City Plan

No assets have been identified for possible decommissioning and disposal in this asset class.

6. FINANCIAL FORECAST

6.1 10 Year Financial Forecasts

The results are presented as "*what if*" scenarios for the expenditure required for renewal, operation, maintenance and new/upgrade works over a ten (10) year period.

This assessment also incorporates Council's long term financial plan projections and assumptions about asset performance, rates of deterioration and funding requirements.

Scenario 1: Maintain current expenditure

With a current level of funding, the average stormwater drainage condition will fall to 2.1 and the asset base will rise to 0.4% at conditions 4 and 5 in 10 years.

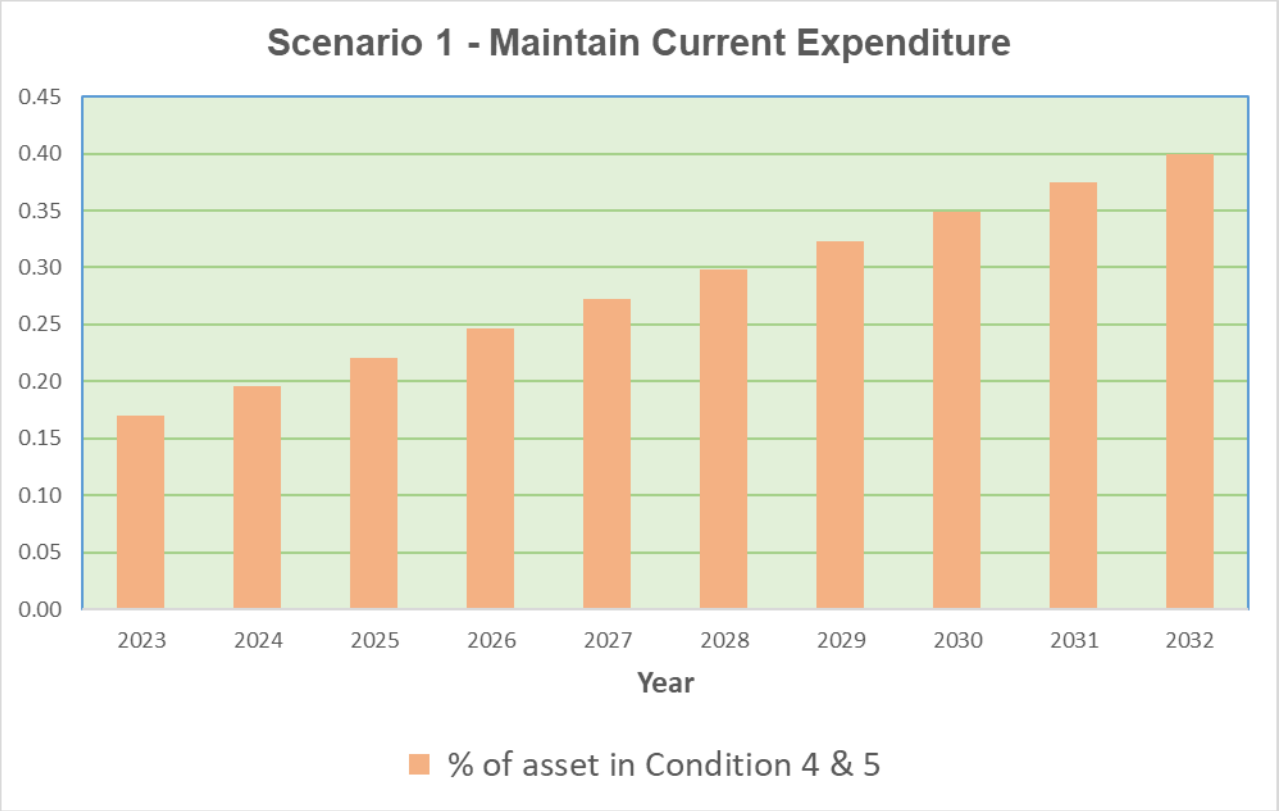


Table 1: 10 year expenditure forecast for stormwater drainage

	Actual Expenditure	Predicted Expenditure									
	2021/ 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
		1	2	3	4	5	6	7	8	9	10
	'000	'000	'000	'000	'000	'000	'000	'000	'000	'000	'000
Maintenance	$696	$696	$696	$696	$696	$696	$696	$696	$696	$696	$696
Renewal	$1,079	$1,079	$1,079	$1,079	$1,079	$1,079	$1,079	$1,079	$1,079	$1,079	$1,079
Current Expenditure	$1,775	$1,775	$1,775	$1,775	$1,775	$1,775	$1,775	$1,775	$1,775	$1,775	$1,775
Predicted expenditure	$1,775	$1,775	$1,775	$1,775	$1,775	$1,775	$1,775	$1,775	$1,775	$1,775	$1,775
Renewal Funding GAP	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0

Scenario 2: Maintain current condition

This scenario shows that an average additional funding of $202,000 per annum is required to maintain the current condition of stormwater drainage assets.

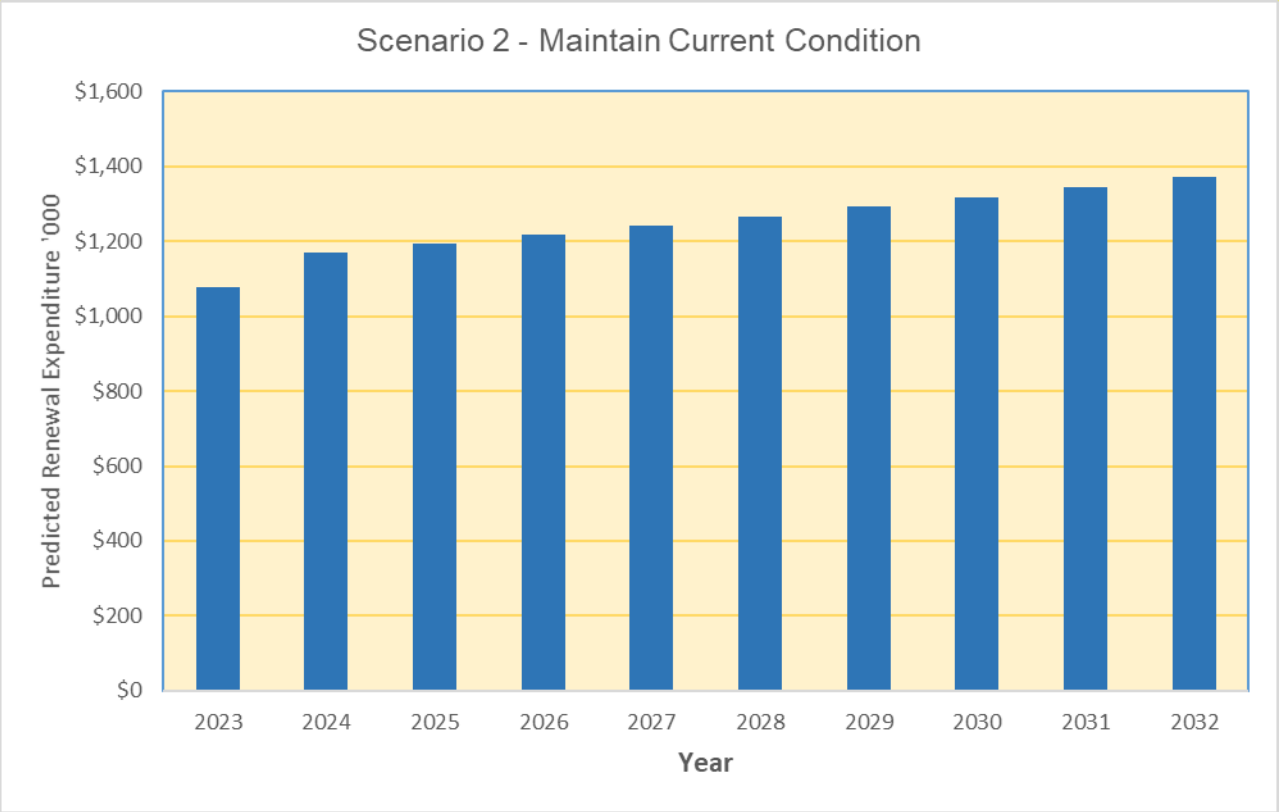


Table 2: 10 year expenditure forecast for stormwater drainage

	Actual Expenditure	Predicted Expenditure									
	2021/ 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
		1	2	3	4	5	6	7	8	9	10
	'000	'000	'000	'000	'000	'000	'000	'000	'000	'000	'000
Maintenance	$696	$696	$696	$696	$696	$696	$696	$696	$696	$696	$696
Renewal	$1,079	$1,170	$1,194	$1,217	$1,242	$1,267	$1,292	$1,318	$1,344	$1,371	$1,398
Current Expenditure	$1,775	$1,775	$1,775	$1,775	$1,775	$1,775	$1,775	$1,775	$1,775	$1,775	$1,775
Predicted expenditure	$1,775	$1,866	$1,889	$1,913	$1,938	$1,962	$1,988	$2,014	$2,040	$2,067	$2,094
Renewal Funding GAP	$0	-$91	-$115	-$138	-$163	-$188	-$213	-$239	-$265	-$292	-$319

Scenario 3: Replace Assets at Condition 4 and 5

Maintain an average condition of 2 or better and remove all assets at conditions 4 and 5. This scenario shows that an average additional funding of $297,000 per annum is required to maintain an average condition 2 and replace all assets at conditions 4 and 5 of stormwater drainage assets over the next 10 years.

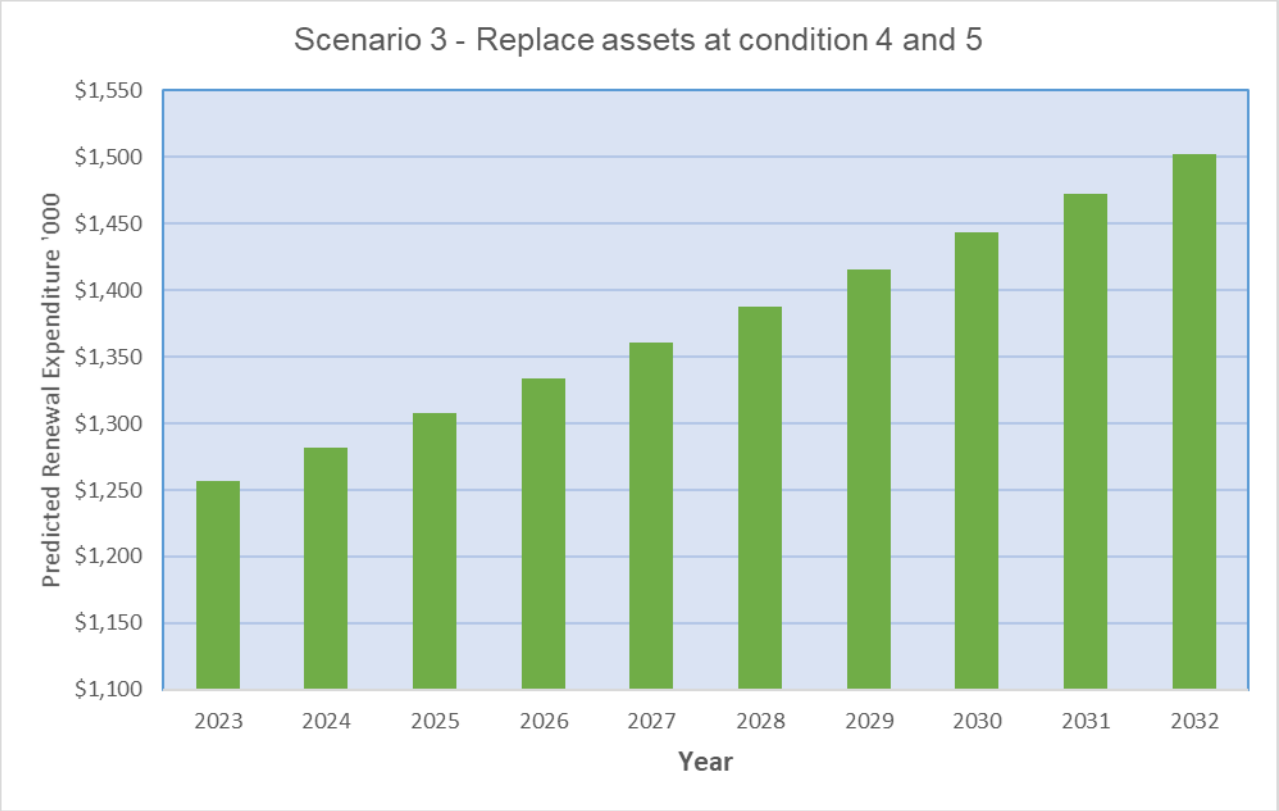


Table 3: 10 year expenditure forecast for stormwater drainage

	Actual Expenditure	Predicted Expenditure									
	2021/ 2022	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
		1	2	3	4	5	6	7	8	9	10
	'000	'000	'000	'000	'000	'000	'000	'000	'000	'000	'000
Maintenance	$696	$696	$696	$696	$696	$696	$696	$696	$696	$696	$696
Renewal	$1,079	$1,257	$1,282	$1,308	$1,334	$1,361	$1,388	$1,416	$1,444	$1,473	$1,503
Current Expenditure	$1,775	$1,775	$1,775	$1,775	$1,775	$1,775	$1,775	$1,775	$1,775	$1,775	$1,775
Predicted expenditure	$1,775	$1,953	$1,978	$2,003	$2,030	$2,056	$2,084	$2,111	$2,140	$2,168	$2,198
Renewal Funding GAP	$0	-$178	-$203	-$229	-$255	-$282	-$309	-$337	-$365	-$394	-$424

6.2 Key Assumptions

- Assumptions have been made to average useful lives.
- No disposal of assets is considered in the financial projection.

6.3 Funding Strategy

The focus of this Asset Management Plan is on identifying the optimum cost for each asset group necessary to produce the desired level of service. How the cash flow is to be funded is a matter for separate consideration as part of Council's funding policy review.

Current Funding sources available for these assets include:

Asset Type	Funding Source
Stormwater Drainage	Rates Federal Government Funding State Government funding Private developer funded works Transport for NSW (TfNSW)

6.4 Confidence Levels

The confidence in the asset data used as a basis for the financial forecasts has been assessed using the following grading system:

Confidence ratings for each asset group and/or sub-group

Asset Category	Confidence Rating							
	Qty	Cond	Age	Service Levels	Demand Forecasts	Lifecycle Management	Financial Forecasts	Overall Rating
Storm-water Drainage Assets	A	A	A	B	B	B	A	A

Confidence Grade	Confidence Rating and Description
A	Highly Reliable < 2% uncertainty Data based on sound records, procedure, investigations and analysis which is properly documented and recognised as the best method of assessment
B	Reliable 2-10% uncertainty Data based on sound records, procedures, investigations, and analysis which is properly documented but has minor shortcomings for example the data is old, some documentation is missing and reliance is placed on unconfirmed reports or some extrapolation
C	Reasonably Reliable 10–25 % uncertainty Data based on sound records, procedures, investigations, and analysis which is properly documented but has minor shortcomings for example the data is old, some documentation is missing and reliance is placed on unconfirmed reports or significant extrapolation.

D	Uncertain □25–50% uncertainty Data based on uncertain records, procedures, investigations and analysis, which is incomplete or unsupported, or extrapolation from a limited sample for which grade A or B data is available.
E	Very Uncertain > 50% uncertainty Data based on unconfirmed verbal reports and/or cursory inspection and analysis

7. ASSET MANAGEMENT PRACTICES

Council utilises the following computer software *as part of Council's Asset Management system* to manage its building assets:

- Peoplesoft Financial Management System
- Conquest Asset Management System
- My Predictor Predictive Modelling Tool
- Mapinfo (GIS – Geographic Information System)

8. PLAN IMPROVEMENT AND MONITORING

8.1 Improvement Program

Council's Asset Management Strategy 2022/23 – 2031/32 identifies the improvement tasks as part of the following Priority Themes:

- Asset Capitalisation
- Asset Information Management
- Service Management
- Risk Management
- Innovation

Appendix 1 – Stormwater Drainage Asset Maintenance

Pipe, Pit and Rain Garden Maintenance

Item	Reason for Activity	Treatment Description	Intervention Level	Regional Road	Collector Road	Local Road	Cul De Sac	Drainage Reserve
Pipe, Pit and Rain Garden maintenance	Blocked , damaged and broken pipe and pit causing overflow	General maintenance includes cleaning, clearing, flushing and repair of damaged pits includes repair and replacement of gratings and lids	Pit lid broken or not appropriately located Obstructions in pipes restricting flow of water Grates blocked or not appropriately located Pits blocked Flooding Pits or surrounds damaged Pipes broken Scours of either inlet or outlet Weed growth	Cleaning and clearing annually in accordance with Maintenance Works Program Reactive works-Response Rating 1	Cleaning and clearing annually in accordance with Maintenance works Program Reactive works-Response Rating 2	Cleaning and clearing two times per year Reactive works-Response Rating 2	Cleaning and clearing two times per year Reactive works-Response Rating 2	Cleaning and clearing two times per year Reactive works-Response Rating 1

Concrete and Earthen Open Channel Maintenance

Item	Reason for Activity	Treatment Description	Intervention Level	Regional Road	Collector Road	Local Road	Cul De Sac	Drainage Reserve
Open Channel Maintenance	Damaged concrete panels and blocked drain causing flow restrictions and scouring of banks	General maintenance includes cleaning, clearing and repair of damaged concrete panels	Ponding in drains Loose components (i.e. bricks, bluestones to be replaced) Vegetation restricts flow of water Litter visible Drains noticeably scoured Drain is reduced by silt to less than 75% of its original capacity	Cleaning and clearing annually in accordance with Maintenance Works Program Reactive works-Response Rating 1	Cleaning and clearing annually in accordance with Maintenance Works Program Reactive works-Response Rating 2	Cleaning and clearing two times per year Reactive works-Response Rating 2	Cleaning and clearing two times per year Reactive works-Response Rating 2	Cleaning and clearing two times per year Reactive works-Response Rating 1

Head Walls Maintenance

Item	Reason for Activity	Treatment Description	Intervention Level	Regional Road	Collector Road	Local Road	Cul De Sac	Drainage Reserve
Head Walls Maintenance	Blocked drain causing flow restrictions and scouring of banks	General maintenance includes cleaning, clearing and repair of damaged head walls	End walls collapsed or blocking inlet or outlet Damaged head walls	Annually in accordance with Maintenance Works Program	Annually in accordance with Maintenance Works Program	Annually in accordance with Maintenance Works Program	Annually in accordance with Maintenance Works Program	Annually in accordance with Maintenance Works Program

Detention Basin Maintenance

Item	Reason for Activity	Treatment Description	Intervention Level	Regional Road	Collector Road	Local Road	Cul De Sac	Drainage Reserve
Detention Basin Maintenance	Blocked drain causing flow restrictions and scouring of banks	General maintenance includes cleaning, clearing, flushing and repair of damaged pits including repair and replacement of gratings and lids	Visible litter Pit lids broken or not appropriately located. Grates blocked.	Annually in accordance with Maintenance works Program Reactive works-Response Rating 1	Annually in accordance with Maintenance works program Reactive works-Response Rating 2	Annually in accordance with Maintenance works program Reactive works-Response Rating 2	Annually in accordance with Maintenance works program Reactive works-Response Rating 2	Annually in accordance with Maintenance works program Reactive works-Response Rating 1

Gross Pollutant Trap (GPT) **Maintenance**

Item	Reason for Activity	Treatment Description	Intervention Level	Regional Road	Collector Road	Local Road	Cul De Sac	Drainage Reserve
GPT Maintenance	GPT blockage	General maintenance includes cleaning, clearing, flushing and repair of damaged pits including repair and replacement of gratings and lids	Visible litter Pit lids broken or not appropriately located Grates blocked GPT with excess of 20% silting	Annually clean as determined by Inspection Reactive works-Response Rating 1	Annually clean as determined by Inspection Reactive works-Response Rating 2	Annually clean as determined by Inspection Reactive works-Response Rating 2	Annually clean as determined by Inspection Reactive works-Response Rating 2	Annually clean as determined by Inspection Reactive works-Response Rating 1

Table and Side Drain Maintenance

Item	Reason for Activity	Treatment Description	Intervention Level	Regional Road	Collector Road	Local Road	Cul De Sac	Drainage Reserve
Table drain, cut off and side drain	Build up of access water flows along the road shoulder	Grade or excavate to ensure vegetation and silt are removed and drain is free	Excess flow of water along road shoulder. Shoulder is higher than pavement edge	Annually in accordance with Maintenance Works Program	Annually in accordance with Maintenance Works Program	Annually in accordance with Maintenance Works Program	Annually in accordance with Maintenance Works Program	Annually in accordance with Maintenance Works program

Appendix 2 – Stormwater Drainage Asset Inspection

Asset Type	Hierarchy	Inspection Type	Frequency	Responsibility
Pit	Regional	Risk Inspection	6 Months	Operations
		Condition Inspection	25% of pit network annually	Asset Management
	Collector	Risk Inspection	12 months 6 months for hot spot pit	Operations
		Condition Inspection	25% of pit network per year	Asset Management
	Local	Risk Inspection	12 months 6 months for hot spot pit	Operations
		Condition Inspection	25% of pit network per year	Asset Management
	Cul-De-Sac	Risk Inspection	24 months 6 months for hot spot pit	Operations
		Condition Inspection	25% of pit network per year	Asset Management
	Drainage Reserve	Risk Inspection	6 months	Operations
		Condition Inspection	25% of pit network per year	Asset Management
Pipe	Regional	Risk Inspection	6 months	Operations
		Condition Inspection	2.5% of pipe network per year	Asset Management
	Collector	Risk Inspection	6 months	Operations
		Condition Inspection	2.5% of pipe network per year	Asset Management
	Local	Risk Inspection	12 months	Operations
		Condition Inspection	1% of pipe network annually	Asset Management
	Cul-De-Sac	Risk Inspection	24 months	Operations
		Condition Inspection	1% of pipe network per year	Asset Management
	Drainage Reserve	Risk Inspection	3 months	Operations
		Condition Inspection	2.5% of pipe network per year	Asset Management

Asset Type	Hierarchy	Inspection Type	Frequency	Responsibility
Rain Garden	Regional	Risk Inspection	6 months	Natural Systems
		Condition Inspection	25% of rain garden network per year	Asset Management
	Collector	Risk Inspection	12 months	Natural Systems
		Condition Inspection	25% of rain garden network per year	Asset Management
	Local	Risk Inspection	12 months	Natural Systems
		Condition Inspection	25% of rain garden network per year	Asset Management
	Cul-De-Sac	Risk Inspection	24 months	Natural Systems
		Condition Inspection	25% of rain garden network per year	Asset Management
	Drainage Reserve	Risk Inspection	6 months	Natural Systems
		Condition Inspection	25% of rain garden network per year	Asset Management
Open Channel	Regional	Risk Inspection	6 months	Operations
		Condition Inspection	25% of open channel per year	Asset Management
	Collector	Risk Inspection	6 months	Operations
		Condition Inspection	25% of open channel per year	Asset Management
	Local	Risk Inspection	12 months	Operations
		Condition Inspection	25% of open channel per year	Asset Management
	Cul-De-Sac	Risk Inspection	24 months	Operations
		Condition Inspection	25% of open channel per year	Asset Management
	Drainage Reserve	Risk Inspection	6 months	Operations
		Condition Inspection	25% of open channel per year	Asset Management
Gross Pollutant	Regional	Risk Inspection	6 months	Natural Systems

Asset Type	Hierarchy	Inspection Type	Frequency	Responsibility
Traps (GPT)		Condition Inspection	Annually	Asset Management
	Collector	Risk Inspection	Annually	Natural Systems
		Condition Inspection	Annually	Asset Management
	Local	Risk Inspection	Annually	Natural Systems
		Condition Inspection	Annually	Asset Management
	Cul-De-Sac	Risk Inspection	Annually	Natural Systems
		Condition Inspection	Annually	Asset Management
	Drainage Reserve	Risk Inspection	Annually	Natural Systems
		Condition Inspection	Annually	Asset Management
Detention Basin	Regional	Risk Inspection	Annually	Catchment
		Condition Inspection	Annually	Asset Management
	Collector	Risk Inspection	Annually	Catchment
		Condition Inspection	Annually	Asset Management
	Local	Risk Inspection	Annually	Catchment
		Condition Inspection	Annually	Asset Management
	Cul-De-Sac	Risk Inspection	Annually	Catchment
		Condition Inspection	Annually	Asset Management
	Drainage Reserve	Risk Inspection	Annually	Catchment
		Condition Inspection	Annually	Asset Management

Appendix 3 – Delivery Program– Stormwater Drainage Renewal – 2022/2023 – 2024/2025

Year	Project ID	Project Name & Description	Suburb	Budget
2022-2023	MPDR2201	Belvedere Arcade Belvedere Arcade drainage renewal	Cabramatta	$200,000
2022-2023	MPDR2202	50 Edensor Road Replace 2 galvanised grate and 6m kerb and gutter	Cabramatta West	$4,000
2022-2023	MPDR2203	City Wide Concrete Pit Lid and Frame For the pits located in back of kerb for Mt Pritchard (68 locations), Fairfield West (52 locations) and Cabramatta West (63 locations)	City Wide	$225,000
2022-2023	MPDR2206	Mt Pritchard Stormwater Pipe Network Pipe joint repairs based on the outcome of the CCTV Survey conducted for Mt Pritchard Pipe Network.	Mt Pritchard	$100,000
2022-2023	MPDR2207	The Horsley Drive Between rear of Castlereagh Street house number 53 to house number 73 Southern side of Embankment To modify the embankment and provide a suitable retaining wall to control the erosion (200m)	Wetherill Park	$200,000
2022-2023	MPDR2301	16 Darling Street Replace lintel opening (4.8m)	Abbotsbury	$3,500
2022-2023	MPDR2302	18 Province Street Replace lintel opening (3.6m)	Abbotsbury	$3,500
2022-2023	MPDR2303	Opposite 16 Woodman Place Replace 2 galvanised grates.	Abbotsbury	$2,500
2022-2023	MPDR2304	Opposite 18 Woodman Place Replace 2 galvanised grates.	Abbotsbury	$2,500
2022-2023	MPDR2305	Burdett Street, Burdett Street Foot Bridge – Drainage Renewal Scour protection around abutment and bank stabilisation works.	Canley Heights	$120,000
2022-2023	MPDR2306	Parklea Parade, Parklea Parade Foot Bridge Scour protection around abutment and bank stabilisation works.	Wetherill Park	$65,000
2022-2023	MPDR2307	28 Alinga Street Replace existing cast-insitu lintel with precast lintel (2.4m) and 2 galvanised grates.	Cabramatta West	$6,000
2022-2023	MPDR2309	231 Edensor Road Replace lintel opening (2.4m)	Edensor Park	$3,500
2022-2023	MPDR2310	Opposite 20 Moorhouse Crescent in creek Replace galvanised grate.	Edensor Park	$3,500

2022-2023	MPDR2311	Behind 11 Moorhouse Crescent in creek Replace galvanised grate.	Edensor Park	$3,500
2022-2023	MPDR2312	Rear of 64-72 Ware Street Replace 2.4m lintel and 2 galvanised grates.	Fairfield	$3,500
2022-2023	MPDR2313	Opposite 54 Kimberley Crescent Replace lintel opening (2.4m)	Fairfield West	$3,500
2022-2023	MPDR2314	13 Brabyn Street Replace lintel opening (3.6m)	Fairfield West	$3,500
2022-2023	MPDR2315	17 Brabyn Street Replace lintel (3.6m) and 2 galvanised grates.	Fairfield West	$3,500
2022-2023	MPDR2316	2 Corryong Street Replace lintel opening (2.4m)	Fairfield West	$3,500
2022-2023	MPDR2317	27 Brentwood Street Replace existing cast-insitu lintel with precast lintel (2.4m)	Fairfield West	$5,000
2022-2023	MPDR2318	27 Quiros Avenue on Magellan Street Replace existing cast-insitu lintel with precast lintel (3.6m)	Fairfield West	$5,000
2022-2023	MPDR2319	34 Tasman Parade Replace existing cast-insitu lintel with precast lintel (2.4m) and 3m kerb and gutter.	Fairfield West	$6,500
2022-2023	MPDR2320	29 Tasman Parade on Bryant Place Replace lintel opening (3.6m)	Fairfield West	$3,500
2022-2023	MPDR2321	31 Tasman Parade Replace lintel opening (3.6m)	Fairfield West	$3,500
2022-2023	MPDR2322	6 Quiros Avenue Replace concrete lid behind lintel.	Fairfield West	$2,500
2022-2023	MPDR2323	Opposite 6 Quiros Avenue Replace concrete lid behind lintel.	Fairfield West	$2,500
2022-2023	MPDR2324	20 Quiros Avenue Replace concrete lid behind lintel.	Fairfield West	$2,500
2022-2023	MPDR2325	29 Quiros Avenue Replace existing cast-insitu lintel with precast lintel (2.4m) and 1m kerb and gutter.	Fairfield West	$6,000
2022-2023	MPDR2326	36 Quiros Avenue Replace lintel (2.4m) and 2 galvanised grates.	Fairfield West	$3,500
2022-2023	MPDR2327	1 Tasman Parade Replace concrete lid behind lintel.	Fairfield West	$2,500
2022-2023	MPDR2328	1 Tasman Parade on Smithfield Road Replace concrete lid behind lintel.	Fairfield West	$2,500
2022-2023	MPDR2329	23 Tasman Parade on Dieman Crescent Replace concrete lid behind lintel.	Fairfield West	$2,500
2022-2023	MPDR2330	2 Dieman Crescent Replace lintel opening (2.4m)	Fairfield West	$3,500
2022-2023	MPDR2331	11 Edel Place Replace concrete lid behind lintel.	Fairfield West	$2,500
2022-2023	MPDR2332	25 Edel Place Replace concrete lid behind lintel.	Fairfield West	$2,500

2022-2023	MPDR2333	Opposite 12 Dieman Crescent Replace concrete lid behind lintel.	Fairfield West	$2,500
2022-2023	MPDR2334	Opposite 26 Tasman Parade Replace concrete lid behind lintel.	Fairfield West	$2,500
2022-2023	MPDR2335	Opposite 380 Smithfield Road Replace lintel opening (2.4m)	Fairfield West	$3,500
2022-2023	MPDR2336	17 Bramley Street Replace concrete lid behind lintel.	Fairfield West	$2,500
2022-2023	MPDR2337	38 Rosina Street Replace lintel opening (1.2m)	Fairfield West	$3,500
2022-2023	MPDR2338	45 Margaret Street Replace 2 galvanised grates.	Fairfield West	$2,500
2022-2023	MPDR2339	47 Margaret Street Replace lintel opening (1.2m)	Fairfield West	$3,500
2022-2023	MPDR2341	49 Rosina Street Replace concrete lid behind lintel.	Fairfield West	$2,500
2022-2023	MPDR2342	26 Hawkesbury Street Replace existing cast-insitu lintel with precast lintel (2.4m) and 2 galvanised grates.	Fairfield West	$6,000
2022-2023	MPDR2343	36 Nepean Street Replace 2 galvanised grates.	Fairfield West	$2,500
2022-2023	MPDR2344	82 Thorney Road Replace existing cast-insitu lintel with precast lintel (2.4m)	Fairfield West	$5,000
2022-2023	MPDR2345	100 Thorney Road Replace lintel opening (3.6m)	Fairfield West	$3,500
2022-2023	MPDR2346	6 Corona Road Replace existing cast-insitu lintel with precast lintel (1.2m) and 2m kerb and gutter.	Fairfield West	$6,000
2022-2023	MPDR2347	2 Julius Street Replace 2 galvanised grates.	Fairfield West	$2,500
2022-2023	MPDR2348	Opposite 2 Hambly Street Replace lintel opening (3.6m)	Fairfield West	$3,500
2022-2023	MPDR2349	2 Beale Crescent Replace existing cast-insitu lintel with precast lintel (3.6m)	Fairfield West	$5,000
2022-2023	MPDR2350	30 Beale Crescent Replace 2 galvanised grates.	Fairfield West	$2,500
2022-2023	MPDR2351	12 Greenvale Street Replace existing cast-insitu lintel with precast lintel (3.6m)	Fairfield West	$5,000
2022-2023	MPDR2352	23 Greenvale Street Replace existing cast-insitu lintel with precast lintel (2.4m)	Fairfield West	$5,000
2022-2023	MPDR2353	17 Chadwick Crescent Replace existing cast-insitu lintel with precast lintel (2.4m)	Fairfield West	$5,000

2022-2023	MPDR2354	7 Dyson Street Replace 1 galvanised grate.	Fairfield West	$2,500
2022-2023	MPDR2355	11 Lynesta Avenue Replace 1 galvanised grate.	Fairfield West	$2,500
2022-2023	MPDR2356	16 Lynesta Avenue Replace 2 galvanised grates.	Fairfield West	$2,500
2022-2023	MPDR2357	Opposite 10 Kendall Street Replace 2 galvanised grates.	Fairfield West	$2,500
2022-2023	MPDR2358	1 Harpur Street Replace 2 galvanised grates.	Fairfield West	$2,500
2022-2023	MPDR2359	2 Lenton Avenue Replace concrete lid behind lintel.	Fairfield West	$2,500
2022-2023	MPDR2360	14 Lenton Avenue Replace 2 galvanised grates.	Fairfield West	$2,500
2022-2023	MPDR2361	1 Beale Crescent Replace existing cast-insitu lintel with precast lintel (3.6m)	Fairfield West	$5,000
2022-2023	MPDR2362	Opposite 381 Hamilton Road Replace 2 galvanised grates.	Fairfield West	$2,500
2022-2023	MPDR2363	1 Jansz Place Replace lintel opening (2.4m)	Fairfield West	$3,500
2022-2023	MPDR2364	71 Tasman Place on Jansz Place Replace concrete lid behind lintel.	Fairfield West	$2,500
2022-2023	MPDR2365	Opposite 47 Van Dieman Crescent Replace lintel opening (1.2m)	Fairfield West	$3,500
2022-2023	MPDR2367	Mt Pritchard Stormwater Pipe Network Pipe joint repairs based on the outcome of the CCTV Survey conducted for Mt Pritchard Pipe Network Stage 2.	Mt Pritchard	$100,000
2022-2023	MPDR2368	3 Radnor Place Replace existing cast-insitu lintel with precast lintel (2.4m)	Smithfield	$5,000
2022-2023	MPDR2369	14 Rosford Street Replace existing cast-insitu lintel with precast lintel (2.4m)	Smithfield	$5,000
2022-2023	MPDR2370	15 Green Avenue Replace existing cast-insitu lintel with precast lintel (2.4m) and 2 galvanised grates.	Smithfield	$6,000

Year	Project ID	Project Name & Description	Suburb	Budget
2023-2024	MPDR2401	Open Channels Renewal - City Wide Joint sealing and weephole repair.	City Wide	$100,000
2023-2024	MPDR2403	12 Sullivan Street Replace 1 galvanised grate.	Fairfield West	$2,500
2023-2024	MPDR2404	436 Hamilton Road Replace 2 galvanised grates.	Fairfield West	$2,500
2023-2024	MPDR2405	19 Sullivan Street Replace 1 galvanised grate.	Fairfield West	$2,500
2023-2024	MPDR2406	3 Hirst Place Replace 1 galvanised grate.	Fairfield West	$2,500
2023-2024	MPDR2407	Opposite 7 Dwyer Close Replace lintel (2.4m) and 2 galvanised grates.	Fairfield West	$3,500
2023-2024	MPDR2408	6 Dwyer Close Replace 2 galvanised grates.	Fairfield West	$2,500
2023-2024	MPDR2409	2 Gurney Crescent Replace 2 galvanised grates.	Fairfield West	$2,500
2023-2024	MPDR2410	416 Thorney Road Replace 1 galvanised grate.	Fairfield West	$2,500
2023-2024	MPDR2411	12 Tamar Place Replace lintel (3.6m) and 2 galvanised grates.	Fairfield West	$3,500
2023-2024	MPDR2412	Opposite 29 Norfolk Avenue Replace existing cast-insitu lintel with precast lintel (3.6m)	Fairfield West	$5,000
2023-2024	MPDR2413	76 Goodacre Avenue Replace lintel opening (3.6m)	Fairfield West	$3,500
2023-2024	MPDR2414	36 Kendall Street Replace 2 galvanised grates.	Fairfield West	$2,500
2023-2024	MPDR2415	7 Wright Street on Lynesta Avenue Replace 1 galvanised grate.	Fairfield West	$2,500
2023-2024	MPDR2416	25 Lynesta Avenue Replace lintel opening (2.4m)	Fairfield West	$3,500
2023-2024	MPDR2417	69 Goodacre Avenue Replace 2 galvanised grates.	Fairfield West	$2,500
2023-2024	MPDR2418	7 Wright Street Replace lintel opening (2.4m) and 2 galvanised grates.	Fairfield West	$3,500
2023-2024	MPDR2419	412 Thorney Road Replace 2 galvanised grates.	Fairfield West	$2,500
2023-2024	MPDR2420	7 Grenada Street Replace 2 galvanised grates.	Fairfield West	$2,500
2023-2024	MPDR2421	31 Norfolk Avenue Replace 2 galvanised grates.	Fairfield West	$2,500
2023-2024	MPDR2422	Opposite 13 Jordon Street Replace 2 galvanised grates.	Fairfield West	$2,500

2023-2024	MPDR2423	Opposite 13 Leichhardt Street Replace concrete lid behind lintel.	Fairfield West	$2,500
2023-2024	MPDR2424	1 Robbins Street Replace lintel opening (3.6m)	Fairfield West	$3,500
2023-2024	MPDR2425	20 Hawkesbury Street Replace 1 galvanised grate.	Fairfield West	$2,500
2023-2024	MPDR2426	60 Huntingdale Avenue Replace existing cast-insitu lintel with precast lintel (3.6m) and 2 galvanised grates.	Lansvale	$6,000
2023-2024	MPDR2427	Prospect Creek Open Channel - Victoria Street to Bentley Street Panel replacement, crack repair, concrete patching, joint sealing and weephole repair.	Wetherill Park	$400,000
2023-2024	MPDR2428	29 Orchardleigh Street Replace existing cast-insitu lintel with precast lintel (2.4m) and 2 galvanised grates.	Yennora	$6,000

Year	Project ID	Project Name & Description	Suburb	Budget
2024-2025	MPDR2501	Open Channels Renewal - City Wide Joint sealing and weephole repair.	City Wide	$100,000
2024-2025	MPDR2502	20 Triploli Road on Scarfe Street Replace lintel opening (3.6m)	Fairfield West	$3,500
2024-2025	MPDR2503	316 Hamilton Road on Rawson Road Replace 2 galvanised grates.	Fairfield West	$2,500
2024-2025	MPDR2504	Opposite 381 Garran Street Replace lintel opening (2.4m)	Fairfield West	$3,500
2024-2025	MPDR2505	Opposite 9 Cambridge Road Replace lintel opening (2.4m)	Fairfield West	$3,500
2024-2025	MPDR2506	382 Smithfield Road Replace 2 galvanised grates.	Fairfield West	$2,500
2024-2025	MPDR2507	23 Stacey Street Replace lintel opening (2.4m)	Fairfield West	$3,500
2024-2025	MPDR2508	13 Stacey Street Replace existing cast-insitu lintel with precast lintel (2.4m).	Fairfield West	$5,000
2024-2025	MPDR2509	3 Stacey Street Replace lintel opening (2.4m)	Fairfield West	$3,500
2024-2025	MPDR2510	10 Noelene Street Replace 2 galvanised grates.	Fairfield West	$2,500
2024-2025	MPDR2511	47 Maud Street on Saba Street Replace 2 galvanised grates.	Fairfield West	$2,500
2024-2025	MPDR2512	1 Saba Street Replace existing cast-insitu lintel with precast lintel (2.4m) and 2 galvanised grates.	Fairfield West	$6,000
2024-2025	MPDR2513	25 Tyrell Crescent Replace 1 galvanised grate.	Fairfield West	$2,500
2024-2025	MPDR2514	8 Tyrell Crescent Replace 2 galvanised grates.	Fairfield West	$2,500
2024-2025	MPDR2515	49 Maud Street on Saba Street Replace 2 galvanised grates.	Fairfield West	$2,500
2024-2025	MPDR2516	26 Stacey Street Replace lintel (2.4m) and 2 galvanised grates.	Fairfield West	$2,500
2024-2025	MPDR2517	18 Stacey Street on Girra Street Replace lintel opening (1.2m)	Fairfield West	$3,500
2024-2025	MPDR2518	16 Stacey Street on Girra Street Replace 2 galvanised grates.	Fairfield West	$2,500
2024-2025	MPDR2519	8 Stacey Street on Lawford Street Replace lintel (2.4m) and 2 galvanised grates.	Fairfield West	$3,500
2024-2025	MPDR2520	1 Eacham Street Replace lintel opening (2.4m)	Fairfield West	$3,500
2024-2025	MPDR2521	2 Frome Street on Eacham Street Replace lintel opening (2.4m)	Fairfield West	$3,500

2024-2025	MPDR2522	1 Frome Street on Eacham Street Replace lintel opening (2.4m)	Fairfield West	$3,500
2024-2025	MPDR2523	Opposite 1 Eacham Street Replace lintel opening (3.6m)	Fairfield West	$3,500
2024-2025	MPDR2524	80 Rawson Road Replace 1 galvanised grate.	Fairfield West	$2,500
2024-2025	MPDR2525	53A Rawson Road Replace 2 galvanised grates.	Fairfield West	$2,500
2024-2025	MPDR2526	53A Rawson Road on Cambewarra Road Replace existing cast-insitu lintel with precast lintel (2.4m)	Fairfield West	$5,000
2024-2025	MPDR2527	1 Warrumbungle Street Replace existing cast-insitu lintel with precast lintel (4.8m)	Fairfield West	$5,000
2024-2025	MPDR2528	Opposite 10 Hammersley Street Replace existing cast-insitu lintel with precast lintel (2.4m)	Fairfield West	$5,000
2024-2025	MPDR2529	Opposite 20 Hammersley Street Replace existing cast-insitu lintel with precast lintel (2.4m)	Fairfield West	$5,000
2024-2025	MPDR2530	10 Atherton Street Replace existing cast-insitu lintel with precast lintel (3.6m), 2 galvanised grates, and kerb and gutter (2m)	Fairfield West	$7,000
2024-2025	MPDR2531	20 Hamersley Street Replace lintel opening (2.4m) and 2 galvanised grates.	Fairfield West	$3,500
2024-2025	MPDR2532	28 Hammersley Street Replace existing cast-insitu lintel with precast lintel (1.2m), and kerb and gutter (1m)	Fairfield West	$6,000
2024-2025	MPDR2533	Opposite 59 Thorney Road Replace existing cast-insitu lintel with precast lintel (2.4m)	Fairfield West	$5,000
2024-2025	MPDR2534	Opposite 14 Nangar Street Replace existing cast-insitu lintel with precast lintel (3.6m)	Fairfield West	$5,000
2024-2025	MPDR2535	11 MacDonnell Avenue Replace existing cast-insitu lintel with precast lintel (3.6m)	Fairfield West	$5,000
2024-2025	MPDR2536	19 Warrumbungle Street Replace existing cast-insitu lintel with precast lintel (3.6m)	Fairfield West	$5,000
2024-2025	MPDR2537	338 Hamilton Road on Nangar Street Replace existing cast-insitu lintel with precast lintel (3.6m) and 2 galvanised grates.	Fairfield West	$6,000

2024-2025	MPDR2538	6 Nangar Street on Canobolas Street Replace existing cast-insitu lintel with precast lintel (3.6m)	Fairfield West	$5,000
2024-2025	MPDR2539	42 Warrumbungle Street Replace existing cast-insitu lintel with precast lintel (2.4m)	Fairfield West	$5,000
2024-2025	MPDR2540	31 Flinders Street Replace lintel (3.6m) and 2 galvanised grates.	Fairfield West	$3,500
2024-2025	MPDR2541	11 Baragoola Place on Barara Place Replace 2 galvanised grates.	Fairfield West	$2,500
2024-2025	MPDR2542	Opposite 1 Barara Place Replace 2 galvanised grates.	Fairfield West	$2,500
2024-2025	MPDR2543	24 Kambala Crescent Replace lintel opening (2.4m), and kerb and gutter (3m)	Fairfield West	$4,500
2024-2025	MPDR2544	11 Baragoola Street Replace existing cast-insitu lintel with precast lintel (2.4m)	Fairfield West	$5,000
2024-2025	MPDR2545	30 Garran Street Replace 2 galvanised grates.	Fairfield West	$2,500
2024-2025	MPDR2546	13 Garran Street Replace 2 galvanised grates.	Fairfield West	$2,500
2024-2025	MPDR2547	15 Kambala Crescent Replace 2 galvanised grates.	Fairfield West	$2,500
2024-2025	MPDR2548	104 Thorney Road Replace lintel opening (2.4m)	Fairfield West	$3,500
2024-2025	MPDR2549	4 Baragoola Street Replace lintel opening (3.6m)	Fairfield West	$3,500
2024-2025	MPDR2550	42 Tripoli Road Replace existing cast-insitu lintel with precast lintel (2.4m) and 2 galvanised grates.	Fairfield West	$6,000
2024-2025	MPDR2551	19 Tripoli Road on Mellick Street Replace 2 galvanised grates.	Fairfield West	$2,500
2024-2025	MPDR2552	17 Tripoli Road on Mellick Street Replace 2 galvanised grates.	Fairfield West	$2,500
2024-2025	MPDR2553	1 Nangar Street Replace 2 galvanised grates.	Fairfield West	$2,500
2024-2025	MPDR2554	20 Sadlier Crescent Replace 2 galvanised grates.	Fairfield West	$2,500
2024-2025	MPDR2555	Opposite 20 Sadlier Crescent Replace 2 galvanised grates.	Fairfield West	$2,500
2024-2025	MPDR2556	Opposite 30 Sadlier Crescent Replace 2 galvanised grates.	Fairfield West	$2,500

2024-2025	MPDR2557	Opposite 1 Savery Place Replace existing cast-insitu lintel with precast lintel (3.6m), and 2 galvanised grates.	Fairfield West	$6,000
2024-2025	MPDR2558	83 Thorney Road Replace existing cast-insitu lintel with precast lintel (2.4m), and 2 galvanised grates.	Fairfield West	$6,000
2024-2025	MPDR2559	2 Dan Crescent Replace existing cast-insitu lintel with precast lintel (1.2m) and 2 galvanised grates.	Lansvale	$6,000
2024-2025	MPDR2560	42 Cherrybrook Road on The Ridge Close Replace existing cast-insitu lintel with precast lintel (3.6m)	Lansvale	$5,000
2024-2025	MPDR2561	34 Cherrybrook Road on Araluen Road Replace existing cast-insitu lintel with precast lintel (3.6m) and 2 galvanised grates.	Lansvale	$6,000
2024-2025	MPDR2562	12 Swager Place Replace existing cast-insitu lintel with precast lintel (3.6m) and 2 galvanised grates.	Lansvale	$6,000
2024-2025	MPDR2563	8 Dadswell Place Replace concrete lid behind lintel.	Mt Pritchard	$2,500
2024-2025	MPDR2564	18 Russell Street Replace concrete lid behind lintel.	Mt Pritchard	$2,500
2024-2025	MPDR2565	23 Meldrum Avenue Replace existing cast-insitu lintel with precast lintel (3.6m)	Mt Pritchard	$5,000
2024-2025	MPDR2566	Opposite 7 Wakelin Avenue Replace concrete lid behind lintel.	Mt Pritchard	$2,500
2024-2025	MPDR2567	1 Wakelin Avenue Replace concrete lid behind lintel.	Mt Pritchard	$2,500
2024-2025	MPDR2568	13 Phyllis Street Replace concrete lid behind lintel.	Mt Pritchard	$2,500
2024-2025	MPDR2569	1 Amadio Place Replace concrete lid behind lintel.	Mt Pritchard	$2,500
2024-2025	MPDR2570	2 Mountain Crescent Replace existing cast-insitu lintel with precast lintel (4.8m)	Mt Pritchard	$5,000
2024-2025	MPDR2571	Clear Paddock Creek Open Channel - King Road to Brisbane Road Panel replacement, crack repair, concrete patching, Joint sealing and weephole repair.	Wakeley	$100,000

2024-2025	MPDR2572	Orphan School creek Open Channel - King Road to Brisbane Road Panel replacement, crack repair and concrete patching.	Wakeley	$350,000
2024-2025	MPDR2573	Welcome Street, opposite 32 Bathurst Street Replace 2 galvanised grates.	Wakeley	$2,500
2024-2025	MPDR2574	15 Richards Road Replace 2 galvanised grates.	Wakeley	$2,500
2024-2025	MPDR2575	7 Wellington Street Replace 2 galvanised grates.	Wakeley	$2,500
2024-2025	MPDR2576	7 Wellington Street on Gympie Place Replace 2 galvanised grates.	Wakeley	$2,500
2024-2025	MPDR2577	9 Wellington Street on Gympie Place Replace 2 galvanised grates.	Wakeley	$2,500
2024-2025	MPDR2578	Opposite 1 Dundas Place Replace 2 galvanised grates.	Wakeley	$2,500
2024-2025	MPDR2579	41 Box Road Replace lintel (2.4m) and 2 galvanised grates.	Wakeley	$3,500
2024-2025	MPDR2580	22 Humphries Road Replace 2 galvanised grates.	Wakeley	$2,500
2024-2025	MPDR2581	27 Murrumburrah Street Replace 2 galvanised grates.	Wakeley	$2,500
2024-2025	MPDR2582	Townsville Road, opposite 17 Kembla Street Replace 2 galvanised grates.	Wakeley	$2,500
2024-2025	MPDR2583	At dog park frontage Kembla Street Replace 2 galvanised grates.	Wakeley	$2,500
2024-2025	MPDR2584	18 Pirie Close Replace 2 galvanised grates.	Wakeley	$2,500
2024-2025	MPDR2585	In between house numbers 11-13 pathway Newcastle Street Replace 2 galvanised grates.	Wakeley	$2,500
2024-2025	MPDR2586	28 Dorset Close Replace 2 galvanised grates.	Wakeley	$2,500
2024-2025	MPDR2587	11 Dorset Close Replace 2 galvanised grates.	Wakeley	$2,500
2024-2025	MPDR2588	Opposite 10 Hampshire Place Replace 2 galvanised grates.	Wakeley	$2,500
2024-2025	MPDR2589	6 Parklea Parade Replace 2 galvanised grates.	Wakeley	$2,500