



Asset Management Plan

UNSEALED ROADS

Policy: AMP-02/20

Endorsed by Council: 27 / 3 /2020

Next Review: March 2023

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1. Executive Summary

Central Desert Regional Council (CDRC) is responsible for municipal services of twelve communities in the remote Central Australian region. Each of these communities have various unsealed roads as part of their road network that require ongoing maintenance and renewal.

There are also numerous unsealed roads that connect various communities together or to access the Northern Territory Government arterial roads network.

Road lengths and road types have been collected and placed in Categories (Table 1).

Condition assessment shall be carried out to determine current serviceability and renewal costs and Asset Maintenance Plans compiled in order to carry out routine maintenance schedules.

Council budgeting should reflect requirements of this plan to ensure road renewal is maintained over time.

2. The Purpose of this Plan

This plan details all CDRC unsealed road assets with lengths, road categories and planned treatments to maintain road renewal over time and detail estimated costings to achieve this.

This document is tied to CDRCs *Five Year Roads Plan* and CDRCs *Roads Asset Register*.

3. Asset Description

Assets referred to within this plan are unsealed roads (either internal or collector roads that can be one of three categories.

1. Flat bladed track
2. Formed Road (conforming to a graded typical cross section)
3. Formed and sheeted (covered with minimum 150mm of road base gravel conforming to a graded typical cross section)

The attached plan (attachment A) shows all roads under the care and control of the Central Desert Regional Council (CDRC).

4. Condition Rating of Road Sections

Road categories shall be condition rated for each category of road, however currently CDRC does not have access to “Road Konect” which is an NT Government controlled software package that is currently being trialled. This software can be uploaded with road condition data and be queried as to road conditions throughout the network. NT Government have informed CDRC that once this system is fully rolled out that all NT Councils will be given access.

Once the Road Konect system is available, a road condition audit should be undertaken every three years and road ratings adjusted accordingly.

5. Renewal and Maintenance of Various Road categories

Given that a current road audit should wait until data can be uploaded to “Road Konect” assumptions need to be undertaken for the current maintenance and renewal of CDRC’s road network.

Assumption 1: Flat Bladed Track 1,307.40 km:

This category of road requires a once yearly maintenance grade. Cost of maintenance grading including staff wages and all other overhead costs is approximately \$350/km (grade once per year) which equates to an annual maintenance budget requirement of \$457,000/year.

It should be noted however that according to the Grants Commission formula, CDRC is only receiving \$154/km or a total of \$200,000 for grading 1,307kms. To address this shortfall grading on these roads has been reduced for various lower usage roads to a single grade every 3 years or upon demand for the lowest usage roads..

Assumption 2: Formed Roads 282.36 km:

This category of road requires a twice yearly maintenance grade at \$900/km which equates to an annual maintenance budget requirement of \$254,000/year. In addition to grading, the worst sections of road should also have a “Grade, Water and Roll (GWR)” of the worst sections to reform and recompact the running surface. This treatment should occur approximately every 10 years per road segment, however given current funding levels this would need to be extended to every 15 years, meaning approximately 20 km should be carried out each year. “Grade Water and Roll” costs approximately \$2,600/km which equates to an annual maintenance budget requirement of \$52,000/year which is increased to \$80,000/year when mobilisation to site is included. Total of \$334,000/year (Grading plus GWR).

It should be noted however that according to the Grants Commission formula, CDRC is only receiving \$1,000/km or a total of \$282,000 total for this type of road.

Assumption 3: Formed and Rubbled (150mm depth) Roads- 140.80 km:

This category of road is typically a formed road with approximately 150mm of compacted gravel placed on the running surface. This formed road and the 150mm gravel surface also requires twice yearly grading. Cost of maintenance grading including staff wages and all other overhead costs is approximately \$900/km which equates to an annual maintenance budget requirement of \$126,000/year.

The 150mm of rubble surface is degraded by traffic which create gravel loss. This loss is variable and dependant on traffic volumes. Given the low traffic volumes of CDRCs road network, it is estimated that gravel (original depth 150mm), should last approximately 12 years (approximately a 12mm surface loss per year).

A gravel road should therefore be renewed every 12 years by the addition of a new 150mm depth of compacted gravel. Given 140.88 km and replacement every 12 years there is approximately 12 km of renewal of gravel required per year. This process costs approximately \$60,000/km. (\$6/m² for gravel layer + \$4/m² for subgrade layer correction) which equates to an annual Capital budget requirement of \$720,000/year.

It should be noted however that according to the Grants Commission formula, CDRC is only receiving \$1,728/km or a total of \$243,440 total for this type of road.

Table 1: Road Lengths and Categories:

Total Road Category Lengths (Km.): Sealed = 38.77

Gravel = 140.80

Formed = 282.36

Flat Bladed Track = 1,307.40

Central Desert Regional Council-Road Category Summary

Road Name (and Community area)	Road Category				
	SEALED	GRAVEL	FORMED	FLAT BLADED TRACK	TOTAL
ATITJERE					0.00
ATITJERE TO HARTS RANGE RACECOURSE ROAD				2.60	2.60
FOXALLS WELL UNSEALED INTERNAL ROADS				2.00	2.00
IRRELIRRE O/S ACCESS TRACK FROM MT SWANN ROAD				1.80	1.80
IRRELIRRE O/S UNSEALED INTERNAL ROADS				3.00	3.00
MT EAGLEBEAK O/S ACCESS ROAD FROM PLENTY HWY				3.20	3.20
MT EAGLEBEAK O/S UNSEALED INTERNAL ROADS				3.00	3.00
SPOTTED TIGER O/S ACCESS ROAD FROM PLENTY HWY				8.60	8.60
SPOTTED TIGER O/S UNSEALED INTERNAL ROADS				0.50	0.50
AIRSTRIP RD				2.60	2.60
AMETHYST ST	0.20				0.20
ATITJERE COMM - DUMP ROAD				0.60	0.60
ATITJERE COMM - RING ROAD	0.89				0.89
CRYSTAL CT				0.10	0.10
GARNET ST	0.30				0.30
MICA RD	2.20				2.20
QUARTZ ST	0.30				0.30
SPHENE ST	0.10				0.10
SUNSTONE ST				0.70	0.70
ZIRCON ST	0.15				0.15

ENGAWALA					0.00
ENGAWALA ACCESS ROAD		1.40			3.70
ALATYEYE O/S ACCESS ROAD FROM BINNS TRACK				2.30	5.00
ALATYEYE O/S UNSEALED INTERNAL ROADS				5.00	16.00
ANGULA O/S ROAD FROM SANDOVER HWY				16.00	0.40
ANGULA O/S UNSEALED INTERNAL ROADS				0.40	2.70
MULGA BORE O/S ACCESS TRACK FROM ANGULA ROAD				2.70	4.00
MULGA BORE O/S UNSEALED INTERNAL ROADS				4.00	0.04
ENGAWALA - INTJARNTWA DRIVE	0.70			0.04	0.70
ENGAWALA - PURVIS STREET	0.30				0.35
ENGAWALA - TURNER DRIVE	0.40			0.05	1.50
ENGAWALA CEMETERY ACCESS ROAD				1.10	0.50
ENGAWALA LANDFILL ACCESS ROAD				0.50	4.00
ENGAWALA UNSEALED INTERNAL ROADS				4.00	4.00
					0.00
LAJAMANU					0.00
LULTJU O/S UNSEALED INTERNAL ROADS				1.00	1.00
JAMPIJINPA	0.25				0.25
JANGALA	0.25				0.25
KAKALYALYA	0.25				0.25
KARLIPIRRI	0.20				0.20
KIWINYI	0.20				0.20
LAJAMANU CEMETERY ROAD				2.30	2.30
LAJAMANU INTERNAL SEALED ROADS	0.80	10.10			10.90
LAJAMANU LANDFILL ROAD				1.10	1.10
LAJAMANU SEWAGE PONDS ROAD				3.90	3.90
LAJAMANU UNSEALED INTERNAL ROADS				2.00	2.00
LAJAMIN	0.32				0.32
MINGKIRRI	0.32				0.32
NAKAMARRA	0.28				0.28
NAMPIJINPA	0.25				0.25
NGURRPURLU N		0.20			0.20

CENTRAL DESERT REGIONAL COUNCIL ASSET MANAGEMENT PLAN – UNSEALED ROADS

TARRPA	0.85				0.85
UNNAMED	0.08				0.08
WAMPANA	1.05				1.05
WAYITA		0.15			0.15
WULAIGN		0.15			0.15
YARRKANGKURNA	0.18				0.18
					0.00
LARAMBA					0.00
LARAMBA ACCESS ROAD FROM NAPPERBY ROAD			1.20		1.20
AHERR ST	0.10				0.10
ALHERAMP RD	0.40				0.40
ALTWERL PL	0.10				0.10
ANTEKERR ST	0.10				0.10
ARTETY ST	0.20				0.20
AYERRER ST	0.20				0.20
BUSH ST	0.05				0.05
DUMP RD				0.80	0.80
LARAMBA CEMETERY ACCESS ROAD				0.25	0.25
LARAMBA RD	0.20				0.20
POWER ST. RD				2.50	2.50
STAFF RD			0.15		0.15
STORE CRES.	0.15				0.15
NYIRRIPI					0.00
NYIRRIPI-YUENDUMU RD AT NYIRRIPI END			38.00		38.00
NYIRRIPI TO NEWHAVEN BOUNDARY ROAD			8.70		8.70
ETHEL CREEK O/S UNSEALED INTERNAL ROADS				1.00	1.00
NYIRRIPI-ETHYL CK O/S ALTERNATIVE ROUTE 1				81.00	81.00
EMU BORE O/S TO KINTORE BACKROAD - NYIRRIPI END				128.00	128.00
INJIRRAMURRI O/S ACCESS RD OFF YUENDUMU-NYIRRIPI RD				7.50	7.50
NYIRRIPI-ETHYL CK O/S VIA MT NICKER ALTERNATIVE ROUTE				40.90	40.90
NYIRRIPI-ETHYL CREEK O/S MAIN ROUTE VIA EMU BORE				68.00	68.00
NYIRRIPI-MT STANLEY TRACK				10.00	10.00
YATJALU O/S TRACK OFF YUENDUMU-NYIRRIPI RD				0.50	0.50

CENTRAL DESERT REGIONAL COUNCIL ASSET MANAGEMENT PLAN – UNSEALED ROADS

NYIRRIPI COMM - CHURCH STREET	0.29				0.29
NYIRRIPI COMM - DUMP ACCESS				1.30	1.30
NYIRRIPI COMM - EMU BORE RD	0.14				0.14
NYIRRIPI COMM - KARKU ROAD	0.30				0.30
NYIRRIPI COMM - MANJA STREET	0.40				0.40
NYIRRIPI COMM - NGAPIRI AVE 1	0.25				0.25
NYIRRIPI COMM - POWER HOUSE ROAD	0.40			0.70	1.10
NYIRRIPI COMM - SEWAGE PONDS				0.40	0.40
NYIRRIPI COMM - SHORT STREET	0.20				0.20
NYIRRIPI COMM - WESTERN STREET	0.15				0.15
NYIRRIPI COMM - WINNI JARRU RD	0.20				0.20
NYIRRIPI COMM - YUENDUMU ROAD	0.40				0.40
NYIRRIPI COMM - YURRKARLI CORNER	0.15				0.15
TI TREE					0.00
NTURIYA ACCESS ROAD FROM STUART HWY		2.40	14.60		17.00
ALYUEN O/S ACCESS FROM STUART HWY				1.70	1.70
ALYUEN O/S UNSEALED INTERNAL ROADS				4.00	4.00
PETYALE O/S ROAD FROM WILLOWRA ROAD			1.60		1.60
PETYALE O/S UNSEALED INTERNAL ROADS				1.00	1.00
WOODS CAMP O/S FROM STUART HWY				8.90	8.90
WOODS CAMP O/S UNSEALED INTERNAL ROADS				1.00	1.00
ADELAIDE BORE O/S ACCESS TRACK				8.90	8.90
ANNINGIE O/S ACCESS TRACK FROM WILLOWRA-STUART HWY ROAD				0.60	0.60
NTURIYA TO PETYALE O/S BACK ROAD				23.00	23.00
PETYALE TO WOODS CAMP CONNECTOR TRACK				3.70	3.70
NTURIYA - MEITJANA	0.45				0.45
NTURIYA - NGALA	0.53				0.53
NTURIYA CEMETERY ACCESS ROAD				0.70	0.70

CENTRAL DESERT REGIONAL COUNCIL ASSET MANAGEMENT PLAN – UNSEALED ROADS

NTURIYA INTERNAL SEALED ROADS	0.09			0.11	0.20
NTURIYA LANDFILL ACCESS ROAD				0.60	0.60
NTURIYA UNSEALED INTERNAL ROADS				3.00	3.00
PMARA TJUNTA - CEMETERY ROAD				0.26	0.26
PMARA TJUNTA - COOK ROAD	0.49				0.49
PMARA TJUNTA - GLENN STREET	0.12				0.12
PMARA TJUNTA - JANGALA ROAD	0.47				0.47
PMARA TJUNTA - PANANGKA CRESCENT	0.02				0.02
PMARA TJUNTA - ROSS CIRCUIT	0.29				0.29
PMARA TJUNTA - TILMOUTH PLACE	0.05				0.05
SIX MILE LANDFILL ACCESS ROAD				0.80	0.80
SIX MILE SEWAGE PONDS ACCESS ROAD				1.40	1.40
TI TREE COMM - HESE STREET	0.16				0.16
TI TREE COMM - HWY SERVICE RD	0.34				0.34
TI TREE COMM - MONOSPAR ROAD	0.07			0.24	0.31
TI TREE COMM - PALMER STREET	0.28			0.66	0.94
TI TREE COMM - ROAD 1				0.47	0.47
TI TREE COMM - SPENCER ACCESS NTH				0.28	0.28
TI TREE COMM - SPENCER ACCESS STH				0.23	0.23
TI TREE COMM - SPENCER STREET	1.00			0.29	1.29
TI TREE INTERNAL SEALED ROADS	0.21				0.21
TI TREE TOWN LANDFILL FROM STUART HWY				0.70	0.70
TI TREE UNSEALED INTERNAL ROADS				8.00	8.00
WILORA BOREFIELD ACCESS ROAD				2.30	2.30
WILORA- ILEWARR	1.51				1.51
WILORA LANDFILL ACCESS ROAD				0.70	0.70
WILORA UNSEALED INTERNAL ROADS				4.00	4.00
WILLOWRA					0.00
WILLOWRA-STUART HWY ROAD TO WILLOWRA GRID		23.00			23.00
WILLOWRA-MT DENNISON ROAD				117.00	117.00

CENTRAL DESERT REGIONAL COUNCIL ASSET MANAGEMENT PLAN – UNSEALED ROADS

MT BARKLY O/S ACCESS RD OFF WILLOWRA-ANNINGIE RD				52.00	52.00
MT BARKLY O/S TO WILL- MTDEN TRACK				9.60	9.60
WILLOWRA - JARRA JARRA O/S TRACK				77.00	77.00
WILLOWRA-MT BARKLY O/S TRACK				50.00	50.00
WILLOWRA-MT BENNET O/S TRACK				105.00	105.00
AHERR ST	0.10				0.10
ALHERAMP RD	0.40				0.40
ALTWERL PL	0.10				0.10
ANTEKERR ST	0.10				0.10
ARTETY ST	0.20				0.20
AYERRER ST	0.20				0.20
BUSH ST	0.05				0.05
CEMETERY ROAD		0.25			0.25
LANDER RIVER RD	1.44				1.44
STAFF ROAD		0.15			0.15
STORE CRES	0.15			0.12	0.27
WILLOWRA AIRPORT ACCESS ROAD				3.40	3.40
WILLOWRA COMM - AIRSTRIP ACCESS				3.83	3.83
WILLOWRA COMM - DUMP ROAD				0.80	0.80
WILLOWRA COMM - SEWAGE PONDS				2.50	2.50
WILLOWRA INTERNAL SEALED ROADS	2.00				2.00
WILLOWRA UNSEALED INTERNAL ROADS				5.00	5.00
YUELAMU					0.00
YUELAMU ACCESS RD OFF TANAMI RD		15.30	12.70		28.00
YUELAMU-PULARDI O/S TRACK		14.71	28.19		42.90
YUENDUMU-YUELAMU BACK ROAD AT YUELAMU END		17.28	5.72		23.00
ARRUNGE O/S ACCESS TRACK OFF YUELAMU-PULARDI TRACK				11.00	11.00
ARRUNGE O/S UNSEALED INTERNAL ROADS				0.50	0.50
PULARDI O/S ACCESS TRACK OFF TANAMI RD			7.20	1.80	9.00
PULARDI O/S UNSEALED INTERNAL ROADS				2.00	2.00
TEN MILE O/S ACCESS TRACK OFF YUELAMU-PULARDI ROAD			2.00	1.10	3.10

TEN MILE O/S UNSEALED INTERNAL ROADS				0.50	0.50
ARRUNGE ACCESS TRACK OFF TANAMI RD				17.00	17.00
YUELAMU TO PINE HILL RD BACKROAD				36.00	36.00
YUELAMU-MT DENNISON STATION BOUNDARY				7.30	7.30
ARRUNGE BACKTRACK FROM TANAMI RD				9.80	9.80
ANGERE	0.15				0.15
ARRUNGE	0.60				0.60
NEYMATEY	0.45				0.45
PARL CRES.	0.40				0.40
PERLAP CRT	0.10				0.10
YERRAMPE RD	0.80				0.80
YUELAMU CEMETERY ACCESS ROAD				0.20	0.20
YUELAMU LANDFILL ACCESS ROAD				0.10	0.10
YUELAMU SEWAGE PONDS BACKTRACK				1.90	1.90
YUELAMU UNSEALED INTERNAL ROADS				4.00	4.00
YUENDUMU					0.00
YUENDUMU-NYIRRIPI RD AT YUENDUMU END		26.90	83.10		110.00
YUENDUMU TO MT WEDGE BOUNDARY		3.10	64.20		67.30
YUENDUMU-YUELAMU BACKROAD AT YUENDUMU END		15.50	4.50		20.00
DONS BORE O/S UNSEALED INTERNAL ROADS				0.50	0.50
KARRINYARRA O/S UNSEALED INTERNAL ROADS				1.00	1.00
KERIDI O/S TRACK OFF YUENDUMU-NYIRRIPI RD				1.60	1.60
MT DENNISON O/S UNSEALED INTERNAL ROADS				5.00	5.00
MT THEO ACCESS TRACK OFF TANAMI RD				50.00	50.00
MT THEO O/S UNSEALED INTERNAL ROADS				4.00	4.00
ATLEY CK O/S - JUTERANGI O/S TRACK				53.00	53.00
ATLEY CK O/S - TANAMI RD ACCESS TRACK				23.00	23.00
CHILLA WELL O/S ACCESS TRACK OFF TANAMI RD			1.10	6.60	7.70

CENTRAL DESERT REGIONAL COUNCIL ASSET MANAGEMENT PLAN – UNSEALED ROADS

JUNGARRAYI WARRNU O/S TRACK FROM YARIPILANGU O/S TRACK				21.00	21.00
MT THEO O/S - ATLEY CK O/S TRACK				48.00	48.00
WAKALBA O/S ACCESS TRACK OFF YUENDUMU-MT DENNISON RD			7.50		7.50
YARIPILANGU O/S TRACK FROM YUENDUMU-NYIRRIPI RD				38.00	38.00
YUWERLI O/S - MT DENNISON RD TRACK				16.00	16.00
1ST ST		0.70			0.70
2ND ST	0.40				0.40
3RD ST	0.40				0.40
4TH ST	0.40				0.40
5TH ST	0.10				0.10
6TH ST	0.10				0.10
7TH ST	0.10			0.88	0.98
8TH ST	0.10				0.10
ACACIA ST			0.10		0.10
BOOKMARK AVE	0.80				0.80
BURKUMA RD	0.10				0.10
CEMETERY RD			1.30		1.30
CONNISTON RD	0.85				0.85
KARRINYARRA RD				1.30	1.30
MT DENISON AIRFIELD ACCESS RD				1.19	1.19
PARK ST	0.30				0.30
QUANDONG ST			0.10		0.10
RAL RAL AVE	0.50				0.50
ROAD 54		0.81			0.81
RUBBISH TIP RD				3.80	3.80
SOLAR ARRAY				0.27	0.27
TANAMI RD (COMMUNITY)	0.20				0.20
TEACHER ST	0.10			0.20	0.30
TI TREE CRES	0.40				0.40
WALPIRI AVE	0.40				0.40
WATTLE CRES			0.40		0.40
WEST RD	0.60				0.60
WEST ST	1.20			2.54	3.74
YUENDUMU ACCESS ROAD FROM TANAMI RD - SOUTH ENTRY, UNSEALED	1.20	0.30		1.10	2.60
YUENDUMU BOREFIELD ROAD OFF YUEN-NYIRRIPI RD		7.30		5.90	13.20

CENTRAL DESERT REGIONAL COUNCIL ASSET MANAGEMENT PLAN – UNSEALED ROADS

YUENDUMU LANDFILL ACCESS ROAD				1.30	1.30
YUENDUMU RD	2.00	1.10			3.10
YUENDUMU SEWAGE PONDS ACCESS ROAD				1.30	1.30
YUENDUMU UNSEALED INTERNAL ROADS				5.00	5.00
	38.77	140.80	282.36	1,307.40	1,773.34

6. Costs for Unsealed Road Treatments

Extrapolating cost data from section 5 above will enable budget forecasts for road maintenance and capital renewal of CDRC's unsealed road network.

Budget Requirements:

Road Maintenance Grading:

Flat Bladed Track = \$457,000/year

Formed Road = \$254,000/year

Formed and Gravel Road = \$126,000/year

Grade Water Roll:

Formed Road = \$80,000/year

Gravel Road Renewal:

Road Capital Renewal = \$720,000/year

Minimum Road Maintenance and Renewal Costs are:

\$837,000 for grading all road categories.

\$80,000 for GWR of formed roads.

\$720,000 for gravel renewal.

TOTAL = \$1,637,000

Currently the Grants Commission allow:

\$200,000 for grading flat bladed tracks.

\$282,000 for formed roads (Includes grading and GWR)

\$243,000 for Formed and Gravelled road (Includes grading and gravel resheeting)

TOTAL = \$725,000

SHORTFALL = \$912,000

7. Level of Service

Community expectations are mainly concerned with ride ability and drainage. However as the service provider responsibilities include:

- All weather access
- Traffic management
- Safety of the road user
- Visual amenity

A forward programme for upgrade works will be developed and reviewed by Council annually as part of the budget process to the limit of available funds. This means timing and frequency of repairs and maintenance has been lengthened beyond required service levels to allow for funding gaps

CDRC uses all of the “Roads to Recovery” funding on its Sealed Road Renewals. Available funding is then limited to \$725,000. CDRC will continue to seek Special Purpose Grants or alternative funding to make up the unsealed road shortfall of \$912,000, however the programme can only include works to this higher dollar value if funds have been secured.

8. Plan Framework:

The guiding documents for this AMP are:

Council’s Asset Management Policy

Council’s Asset Management Strategy

Council’s 5 year Road Plan

This AMP sets out to provide direction on:

- Future Budgeting for Unsealed Roads
- Level of Service for Unsealed Roads
- Project Direction
- Life Cycle Management of Unsealed Roads

9. Strategic and Corporate Goals

This AMP sets out to formulate guidelines to manage unsealed road assets in a sustainable manner for present and future stakeholders. Key elements are:

- Managing Risk
- Financial Responsibility
- Level of Asset Service
- Life Cycle Approach
- Responsible Asset Management for Future Generations

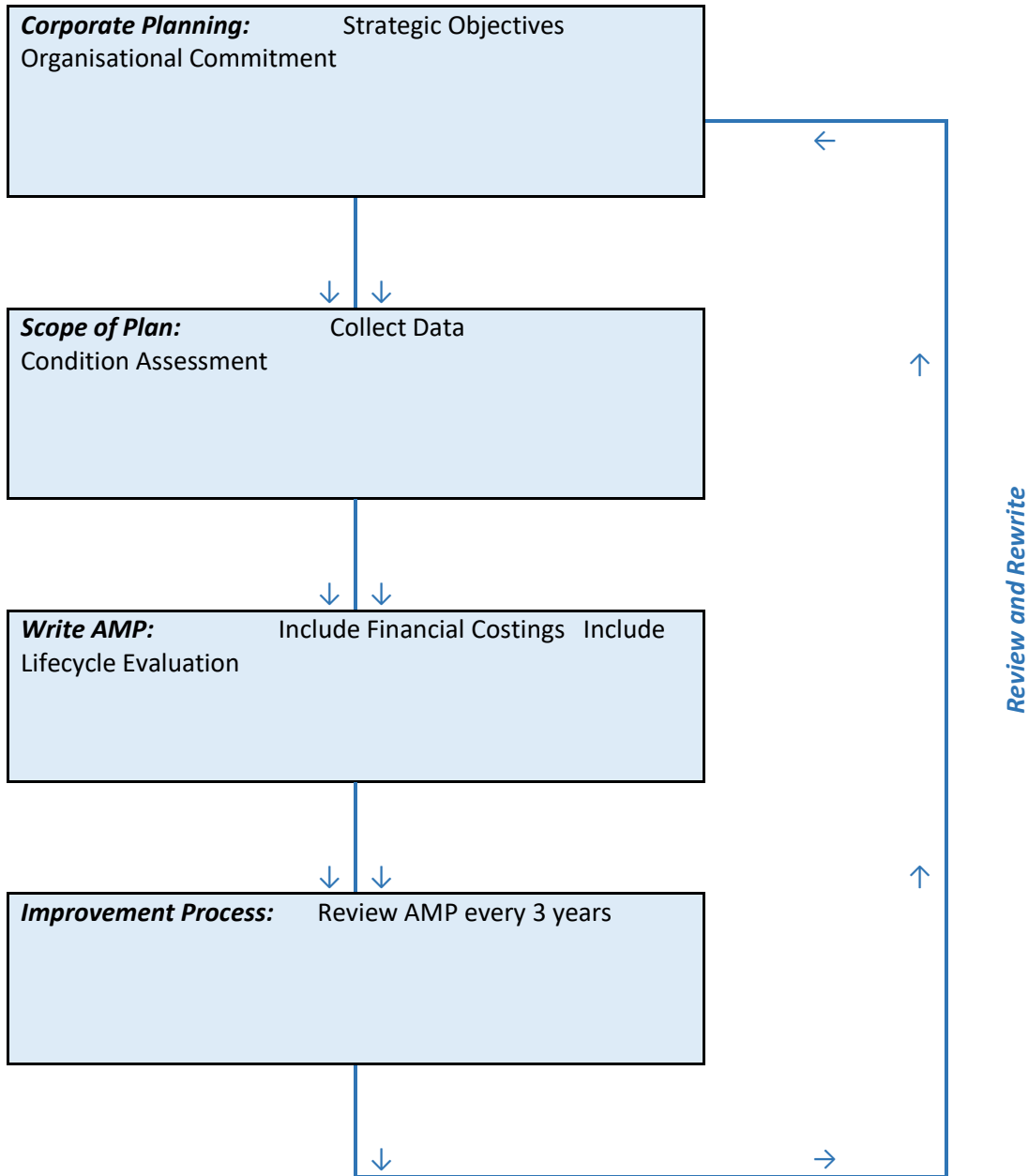
10. Renewal Statement:

Given the hot dry and sandy conditions in Central Australia but also allowing for the low traffic volumes, it is estimated that unsealed roads may deteriorate at a faster rate than low traffic volume roads in a wetter and less sandy environment. Should certain roads gain a higher traffic volume then budgeting for upgrades will need to be adjusted to a higher rate for those roads, which may disadvantage other roads.

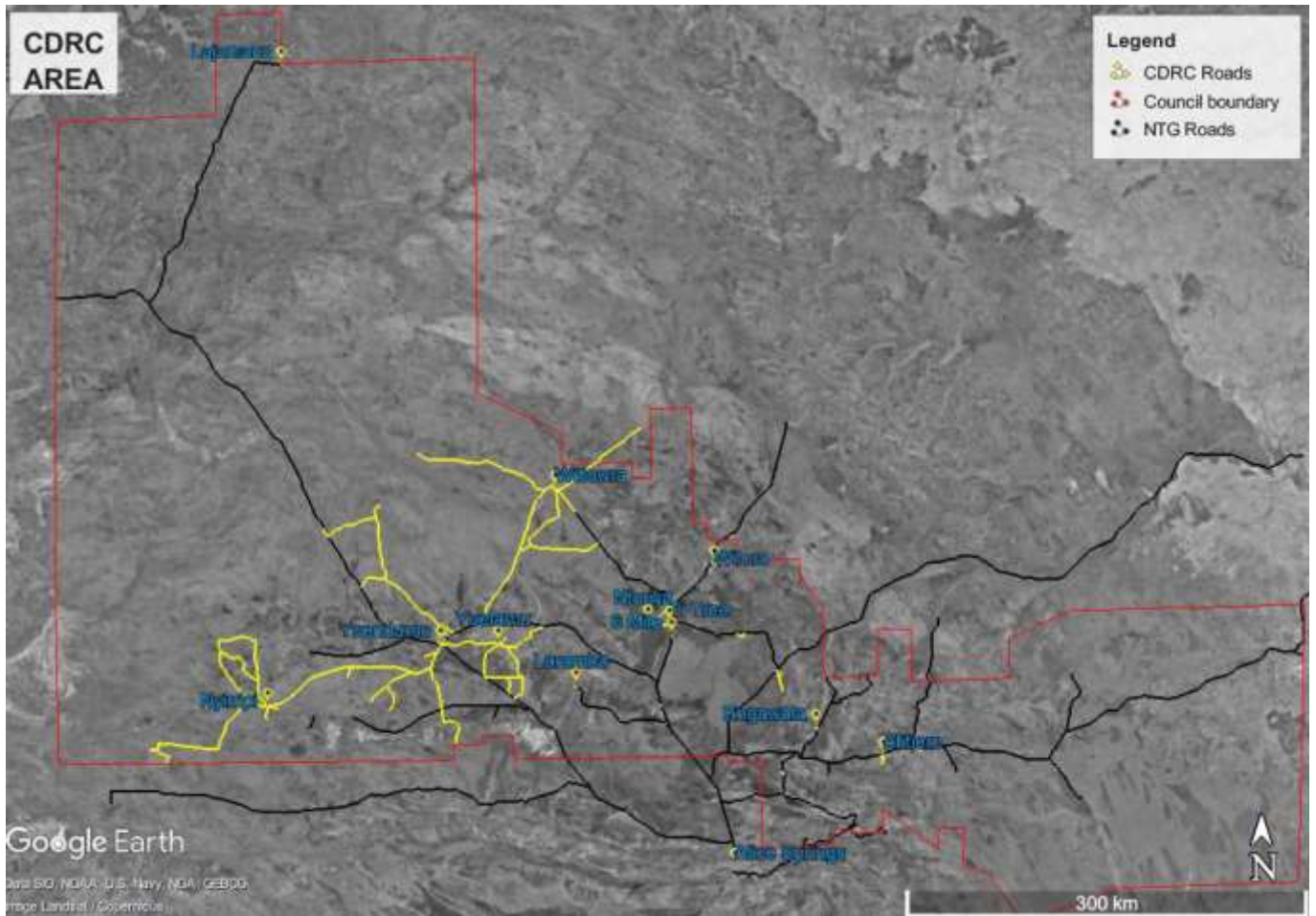
Council will continue to advocate strongly for increased roads funding to, at a minimum, cover the service requirements.

11. The Circle of Asset management

Table 2: AMP Lifecycle



Attachment 1.



12. AMP Review

This AMP should be reviewed every 3 years to account for data changes. AMP processes should be improved and financial costing and budgeting updated.

Council should also keep up to date on the progress of the “Road Konect” software being developed by the Northern Territory Government with a view to utilising this program for road data collection.

Plan Written by Director Council Services (CDRC): February 2020

Review Date: February 2023

Plan Endorsed by Central Desert Regional Council CEO:

CEO: Diane Hood: _____ Date: / 3 /2020