STELLENBOSCH MUNICIPALITY

WATER DISTRIBUTION SYSTEM - PIPE REPLACEMENT STUDY

June 2019

gls consulting

an EOH company

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Pp

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LIST OF ABBREVIATIONS & ACRONYMS

AC/FC	-	Fibre reinforced cement
CBD	-	Central business district
CF	-	Consequence of failure
CI	-	Cast iron
CO	-	Copper
DI	-	Ductile iron
FF	-	Failure frequency
GIS	-	Geographic information system
GLS	-	GLS consulting engineers
GRP	-	Glass reinforced plastic
HDPE	-	High density polyethylene
kℓ	-	Kilolitre
kℓ/d	-	Kilolitre/day
km	-	Kilometre
kW	-	Kilowatt
kWh	-	Kilowatt-hour
ℓ	-	Litre
ℓ/day/UE	-	Litre/day/unit erf
ℓ/h/connection	-	Litre/hour/connection
ℓ/min	-	Litre/minute
ℓ/s	-	Litre/second
LDPE	-	Low density polyethylene
LF	-	Likelihood of failure
m	-	Metre
Mℓ	-	Megalitre
mm	-	Millimetre
MP	-	Master plan
mPVC	-	Modified polyvinyl chloride
PMS	-	Pavement management system
POS	-	Public open space
PRP	-	Pipe replacement potential
PVC	-	Polyvinyl chloride
RUL	-	Remaining useful life
uPVC	-	Unplasticized polyvinyl chloride
WADISO	-	Water distribution system optimization program (software)

1. INTRODUCTION

1.1 BRIEF

GLS Consulting (GLS) was appointed to perform a pipe replacement prioritisation study for the entire water distribution system of the Stellebosch Municipality. This study was documented in a report dated March 2012. GLS was subsequently appointed to update the 2012 study.

The project entails the verification of system data, compilation of a computer model for the pipe replacement network, calibration of the computer model, work shopping of the relevant factors and weights applied in the analysis and performing the analysis.

1.2 SCOPE OF THE REPORT

This report addresses the prioritisation of replacing water pipes within the Stellenbosch Municipality, comprising the towns of Stellenbosch, Dwarsrivier, Klapmuts, Franschhoek and Raithby.

1.3 DISCLAIMER

The investigation has been performed and this report has been compiled based on the information made available to GLS. All efforts, within budget constraints, have been made during the gathering of information to ensure the highest degree of data integrity. The information supplied to GLS by the Stellenbosch Municipality and other consultants at the outset of this pipe replacement plan is assumed to be the most accurate representation of the existing system up to date hereof.

All recommendations pertaining to identifying pipes for replacement should be regarded as an initial best assumption, but the knowledge which the field staff may have regarding the condition of the various pipes should also be taken into account by the client in order to verify the pipe replacement priority before commencing any upgrading projects.

Subsequent to the completion of the data capturing the layout plans, including the relevant attributes, were handed back to the Municipality so that the information could be verified by the client. GLS can therefore not be held accountable for inaccurate information received pertaining to the components of the existing system.

2. METHODOLODY

2.1 INTRODUCTION

The pipe replacement potential (PRP) for any one pipe in the water distribution model is assessed by combining two critical indices – the likelihood of failure (LF) and consequence of failure (CF). Various independent factors contribute to each of these indices.

For the LF the following independent factors have been identified pertaining to each pipe which will be discussed in more detail in paragraph 2.2 below.

1. Nominal diameter.
2. Reserve water pressure ratio.
3. Catalogue remaining useful life.
4. Master plan item
5. Assessed condition.
6. Failure frequency.
7. Leakage volume.
8. Undesired material.
9. Geology.

For the CF the following independent factors have been identified pertaining to each pipe which will be discussed in more detail in paragraph 2.3 below.

1. High cost to consumer due to high water pressure.
2. High cost to consumer due to flow.
3. High repair cost.
4. Flooding due to geography.
5. Strategic location.
6. Network redundancy.
7. Pavement management system alignment.

The various contributing factors are assessed for each pipe by allocating a rating value (0 to 5) to each factor. The contributing factors are then totalled using various respective weights and normalized to give a total LF or CF index in the range of 1 to 5 respectively. A LF % and CF % is also calculated with the ranked LF and CF values respectively.

An initial weight distribution for LF was adopted for Stellenbosch, but it was refined during workshop sessions with officials of the Municipality and amended as follows:

Likelihood of Failure Property	Score out of 10	Weight (%)
Nominal diameter (mm)	5.4	16
Reserve water pressure ratio	2.6	8
Catalogue remaining useful life (yr)	4.6	14
Master plan item*	0.0	0
Assessed condition	5.0	15
Failure frequency (breaks/km/yr)	8.9	26
Leakage volume (ℓ/min/km)*	0.0	0
Undesired material	7.1	21
Geology *	0.0	0
TOTAL		100.0

** Data not available for or relevant to Stellenbosch Municipality*

Likewise an initial weight distribution for CF was adopted for Stellenbosch, which was also refined during the workshop session and amended as follows:

Consequence of failure Property	Score out of 10	Weight (%)
High cost to consumer due to high water pressure	2.2	8
High cost to consumer due to flow	2.2	8
High repair cost*	3.5	12
Flooding due to geography*	7.3	26
Strategic location	6.0	21
Network redundancy	7.3	26
Pavement management system*	0.0	0
TOTAL		100.0

** Data not available for or relevant to Stellenbosch Municipality*

The source data could have a granularity larger than that of one pipe (e.g. Geology could be defined for a whole area covering a selection of pipes). In this case contributing factors are assessed by spreading the overall value onto the entities of smallest granularity, i.e. over the individual modelled pipes.

The total PRP is then calculated for each pipe as an index

PRP = LF x CF (in the range of 1 to 25)

By calculating the product of the two indices the compound risk is assessed. Only if a pipe has a high index for likelihood of failure and a high risk for consequence of failure will a high potential for replacement result. In addition the expected replacement cost for every pipe is calculated. The table of pipes in the model can then be sorted in order of decreasing PRP and a ranking PRP% from 100% to 0% is also displayed. The pipes with the highest replacement potential can then be visualized graphically and the associated total replacement cost determined.

The PRP can then be aggregated in various ways to provide a weighted average, maximum or minimum for various collections, such as per

- Region (Township, suburb or neighbourhood)
- System (Reservoir zone or other subsystem)

2.2 FACTORS CONTRIBUTING TO LIKELIHOOD OF FAILURE

The procedure followed to determine each of the factors contributing to the LF is outlined below:

2.2.1 Nominal diameter

The Wadiso model contains a user definable field which contains the nominal pipe diameter. The basic assumption here is the larger the pipe diameter the less likely pipe failures will result. This is a primary factor which should ideally only be used when better information on the likelihood of failure is not available. The following classification index was adopted to rate this factor:

Property	Criteria (<=)	Rating (0..5)
Nominal diameter (mm)	50	5
Nominal diameter (mm)	75	4
Nominal diameter (mm)	110	3
Nominal diameter (mm)	160	2
Nominal diameter (mm)	250	1
Nominal diameter (mm)	400	0.5
Nominal diameter (mm)	>400	0.1

It can be seen that very small diameters are severely penalized (high rating). Diameters above 400 mm are regarded as less likely to fail and are not penalized. A value of 0.1 is adopted here instead of 0 to ensure fewer pipes end up with identical PRP values and corresponding equal PRP%.

2.2.2 Reserve water pressure ratio

The concept of a reserve pressure ratio is introduced. Every pipe in the model can have the property [Pressure rating (kPa)] which expresses the maximum allowable service pressure of the pipe. This value is converted to units of metre (m) water pressure.

The highest pressures in a pipe network are usually experienced during static (low flow or night time) conditions. The result of the static analysis is presented at the nodes of the model. Every pipe has an upstream and a downstream node for which the static pressure is available from the Wadiso result variables. The [Pipe average static pressure (m)] is then determined by averaging the nodal static pressures, i.e. [(US SHead+DS SHead)/2]. Should this value be negative, a zero value is assumed. The reserve pressure ratio is then defined as

[Pipe average static pressure (m)] / [Pressure rating (m)]

Should the pressure rating be zero for some reason (invalid data) then a zero reserve pressure ratio is assumed. A reserve pressure rating of 1.0 indicates that the pipe has no reserve capacity with regards to pressure and a rating of bigger than 1.0 indicates over stressing the pipe risking severe pipe rupture.

Should the pressure rating not be available for the pipes in the model, a suitable default value should be entered, such as 90 m (or for example 899 kPa to flag the value as unknown). This will have the side effect of only evaluating the model based on average static pressure. The following classification index was adopted to rate this factor:

Property	Criteria (<=)	Rating (0..5)
Reserve pressure ratio	0	0.1
Reserve pressure ratio	0.25	1
Reserve pressure ratio	0.50	2
Reserve pressure ratio	0.75	3
Reserve pressure ratio	1	4
Reserve pressure ratio	>1	5

It can be seen that the rating increases as the reserve pressure increases to unity.

2.2.3 Catalogue remaining useful life

For every pipe in the model the remaining useful life (RUL) can be determined. The Wadiso model should contain the material for every pipe in the model. For every material a standard life is assumed for a pipe of that material, as outlined typically in the table below:

Property	Criteria	Life (yr)
Pipe material life	Fibre reinforced cement (FC or AC)	40
Pipe material life	(undefined)	40
Pipe material life	Modified polyvinyl chloride (mPVC)*	50
Pipe material life	Glass reinforced plastic (GRP)*	60
Pipe material life	Unplasticized polyvinyl chloride (uPVC)	60
Pipe material life	High density polyethylene (HDPE)	80
Pipe material life	Low density polyethylene (LDPE)*	80
Pipe material life	“Polycop” plastic piping (POLYCOP)	80
Pipe material life	Copper (CO)	60
Pipe material life	Steel (STEEL)	80
Pipe material life	Cast iron (CI)	100
Pipe material life	Ductile iron (DI)*	100

** Data not available for or relevant to Stellenbosch Municipality*

For pipes of unknown material (i.e. blank) an average life of 40 years is assumed.
For every pipe in the Wadiso model, the year of installation of the pipe [AM*_year] should be available. This can often be obtained from asset register databases. The RUL for any pipe is then calculated as:

[Standard life expectancy based on material] – ([Current year] – [AM year])

Should the year of installation be unknown, the average age is calculated from all known installations are used. Fourty years was used for Stellenbosch Municipality.

The following classification index was adopted to rate this factor:

Property	Criteria (< =)	Rating (0..5)
Remaining useful life (yr)	0	5
Remaining useful life (yr)	10	4
Remaining useful life (yr)	20	3
Remaining useful life (yr)	30	2
Remaining useful life (yr)	50	1
Remaining useful life (yr)	>50	0.1

It can be seen that the rating decreases as the RUL increases.

2.2.4 Master plan item

As part of the master plan (MP) of a water distribution network, pipes in the present model are identified, which should be upgraded by either replacement or parallel reinforcement. This provides an independent assessment by an engineer of those pipes that should be replaced in the water network based on the hydraulic capacity of the pipe.

The rationale of the MP item concept is that if a pipe has to be replaced due to insufficient hydraulic capacity, the replacement of this pipe can be brought forward if the other criteria indicate an increased likelihood of failure.

Usually only the future model (which includes schematic pipes for future extensions to the model) is provided to the client, with all the MP items identified. By spatially mapping the pipes identified with the MP prefix in the [MP type] field to pipes existing in the present model, the present model is augmented with the required information.

The following classification index was adopted to rate this factor:

Property	Criteria	Rating (0..5)
MP item type	(undefined)	3
MP item type	MP*	5

** Data not available for or relevant to Stellenbosch Municipality*

2.2.5 Assessed condition

Pipes of poor quality or those known likely to fail can be identified. Care must however be taken not to base the assessed condition on another factor already considered such as pipe age or RUL. Data regarding the condition of the pipes in Stellenbosch Municipality was unavailable and this factor was not included. It is suggested the following classification index be adopted to rate this factor. A two character string is proposed (with meaning in brackets).

Property	Criteria	Rating (0..5)
AM condition	VG (Very good)	1
AM condition	G (Good)	2
AM condition	(undefined)	3
AM condition	F (Fair)	3
AM condition	P (Poor)	4
AM condition	VP (Very poor)	5

2.2.6 Failure frequency

Logged pipe failure is an important source of information to identify where pipe failures are likely to occur in future. Although a pipe section of the failed pipe would have been replaced by a new pipe, the underlying reason for failure might not have been resolved and future failures are likely to occur again in adjacent sections until a pipe replacement of the total street block or area of pipes has been done.

Typically a report containing information on the location, closest stand number (in some cases), street address (in some cases) and dates of pipe burst recording and repair is available. In Stellnebosch Municipality 3 121 incidents were captured for the period January 2001 to January 2012 and 1 286 incidents were captured for the period January 2013 to February 2018. This information was made available by Stellenbosch Municipality in hard copy and spread sheet format.

Then a process of geo-coding was followed to assign a latitude & longitude coordinate to the location of every incident as accurately as possible. This included using a cadastral CAD layer with stand numbers, a CAD drawing containing street names and the use of the latest street mapping software to geo-reference street number addresses. A total of 926 (86%) of the incident location could be successfully geo-referenced. The data was then converted from spreadsheet to point shape geographical information system (GIS) files with the incident address, repair completion date and completion year as attributes. Typically where the street number (or stand number) was not available, but only the road name, a location closest to middle of the street length was identified. For streets of short distance this is acceptable but for long streets this does introduce an approximation to the exact failure location. A total of 574 out of the 926 geo-referenced locations (62%) were thus approximate. It was however decided to use this data albeit that it was not very accurately located.

The relatively low percentage of breaks that could not be successfully geo-references is due to the lack of addresses or co-ordinates in the original data set.

See Table SRW 2 in Appendix for the final dataset used.

The pipe data model was then extended with fields to store the number of pipe failures per year for the surveyed years (2011 - 2018, but considering that the failure record is not the same for all areas) as well as the average annual number of pipe failures per length of modelled pipe. Results vary from a maximum of 28,6 incidents per year per km of modelled pipe to zero incidents per pipe.

By doing a spatial correlation between point shape file and the closest modelled pipe (using a custom function written to count the number of failures allotted to a pipe for each year up to a distance of 100 m away from any pipe and then divide the sum by the total length of the modelled pipe in km), the above fields in the pipe data model were updated. Typically the modelled pipe comprises many pipe sections and thus the adjacent sections more likely to fail than the replaced one, will also be identified. This resulted in 647 pipes allocated with a non-zero failure frequency (FF).

It was decided to exclude failure counts where the spatially correlated pipe was replaced within the same year or after the failure was recorded. This assumes that the reason for the failure was related to the old pipe and that future failures are now unlikely to occur at that pipe. This resulted in 554 pipes allocated with a non-zero FF.

The following classification index was adopted after doing a frequency distribution on the data, to rate this factor. A value of 3 failures per year per km of modelled pipe was taken as approximately the 85 percentile and limit for the last open category.

Property	Criteria (<=) (Failures/yr/km)	Rating (0..5)
Failure frequency	0	0.1
Failure frequency	1	0.5
Failure frequency	2	1
Failure frequency	3	3
Failure frequency	4	4
Failure frequency	>4	5

2.2.7 Leakage volume

The historic bulk delivery of water into a zone can be measured by a zone meter. The end-user consumption of the water provided to the zone can be obtained from treasury water sales records. Provided zone meters are installed covering a number of smaller zones a water balance analysis can be performed for the smaller zones. Then by performing a zone to modelled pipe spatial correlation the pipe data model can be extended to include a [Leakage volume] field.

In Stellenbosch typically only a few bulk meters exist and the water balance and resulting calculation of leakage volume per pipe does not assist in identifying pipes to be prioritized for replacement. In the case of Stellenbosch Municipality this index has therefore been ignored.

2.2.8 Undesired material

Pipe material plays a large role in pipe replacement prioritisation. With technology development, improved and cheaper materials are discovered which expose older materials unwanted characteristics. These unwanted materials need to be replaced.

The Wadiso model should contain the material for every pipe in the model. Each material is outlined in the table below:

Property	Criteria (<=) (Failures/yr/km)	Rating (0..5)
Undesired material	Ductile Iron (DI)	1
Undesired material	HDPE	1
Undesired material	STEEL	1
Undesired material	LDPE*	2
Undesired material	uPVC	2
Undesired material	(undefined)	3
Undesired material	CI	3
Undesired material	POLYCOP	4
Undesired material	AC	5
Undesired material	COPPER	5

** Data not available for or relevant to Stellenbosch Municipality*

2.2.9 Geology

The geology in the area surrounding installed pipes can play a role in pipe replacement prioritisation. Where pipes have been installed in clay or dolomite areas a higher replacement likelihood is predicted especially in combination with non-flexible type pipe materials. In the case of Stellenbosch Municipality no information on expansive clays were initially available and to our knowledge no dolomite is present in this area and therefore this factor was also ignored in the analysis.

The following classification index can be used to rate this factor where two degrees of dolomite are supported.

Property	Criteria	Rating (0..5)
Geology	NO DOLOMITE or CLAY	0.1
Geology	(undefined)	2.5
Geology	EXP. CLAY	3
Geology	DOLOMITE 1	4
Geology	DOLOMITE 2	5

2.3 FACTORS CONTRIBUTING TO CONSEQUENCE OF FAILURE

The procedure followed to determine each of the factors contributing to the CF is outlined below:

2.3.1 High cost to consumer due to high water pressure

The Wadiso model data contains the balanced results after a steady-state analysis for the present operational average day demand scenario. This scenario models the situation in the pipe network expected on the average day of the year. During a pipe failure damage due to flooding can occur. The higher the water pressure in the pipe network the higher the potential for high damage cost to the consumer.

The field [AvgHead (m)] is available in the pipe data model to assess this factor. The following classification index was adopted to rate this factor:

Property	Criteria (<=)	Rating (0..5)
Consumer loss head (m)	0	0.1
Consumer loss head (m)	25	1
Consumer loss head (m)	50	2
Consumer loss head (m)	75	3
Consumer loss head (m)	100	4
Consumer loss head (m)	>100	5

2.3.2 High cost to consumer due to flow

The Wadiso model data contains the balanced results after a steady-state analysis for the present operational average day demand scenario. This scenario models the situation in the pipe network expected on the average day of the year. During a pipe failure damage due to flooding can occur. The higher the flow in the pipe network the higher the potential for high damage cost to the consumer. This can be unrelated to the pressure in the network at the point.

If a pipe is delivering water to consumers, i.e. not only feeding storage facilities such as reservoirs, then the flow in the pipe is directly proportional to the demand of the connected consumer(s). The potential cost of claims to the water service provider from the consumer due to the non-supply of water as a result of a pipe failure is again directly proportional to the amount of flow in the pipe.

The field [Flow (m)] is available in the pipe data model to assess this factor.
The following classification index was adopted to rate this factor:

Property	Criteria (<=)	Rating (0..5)
Consumer loss flow (ℓ/s)	0	0.1
Consumer loss flow (ℓ/s)	5	1
Consumer loss flow (ℓ/s)	10	2
Consumer loss flow (ℓ/s)	20	3
Consumer loss flow (ℓ/s)	50	4
Consumer loss flow (ℓ/s)	>50	5

2.3.3 High repair cost

The Wadiso model data contains data that classifies the type of pipe in the present model with respect to the excavation type in case of repair. The field [Cost_FN] mainly identifies where pipes are located in a road reserve (default) or under a road. Alternatively pipes located in a public open space (POS) can also be identified. Should this information not be available initially all pipes crossing or under roads can be identified graphically by overlaying the model on the cadastral and/or aerial imagery. Due to the uncertainty re the exact position of pipes this has not been performed for the Stellenbosch Municipality.

The following classification index was adopted to rate this factor:

Property	Criteria	Rating (0..5)
Repair cost	Public open space*	1.0
Repair cost	Road reserve/undefined*	3
Repair cost	Under road*	5

** Data not available for or relevant to Stellenbosch Municipality*

2.3.4 Flooding due to geography

In order to quantify the likelihood of flooding due to the geography with emphasis on the cross slope of roads, a graphical interactive slope analysis is performed to establish whether a pipe is installed on the higher or lower side of a road. Should a pipe be located in a road reserve clearly on the higher side of a road, it is expected that should the pipe fail, water will collect mostly in the stormwater system of the road and thus not flood the properties on the lower side of the road. However, should the pipe be located in a road reserve on the lower side of the road, flooding of the properties on the lower side is imminent.

In order to identify the pipes which run parallel to height contours, only those pipes are highlighted initially which do not have a steep absolute slope over their length. Then with the contours overlaid, only the subset of pipes which are located in areas of steeper contours (typically with more than 10% fall over the width of the road) have been identified.

Then only the pipes on the lower side of the road (more critical) have been identified and the undefined value adopted for all other pipes.

The following classification index was adopted to rate this factor:

Property	Criteria	Rating (0..5)
Side of road	(undefined)*	3
Side of road	Lower*	5
Side of road	Midblock	5

** Data not available for or relevant to Stellenbosch Municipality*

2.3.5 Strategic location

In order to accommodate the effect of strategic location with emphasis on high density industrial areas, hospitals or central business district (CBD) areas, a classification index is adopted for this factor:

Property	Criteria	Rating (0..5)
Strategic location	(undefined)	3
Strategic location	Industrial	4
Strategic location	Hospital	5
Strategic location	CBD	5
Strategic location	Education (EDU)	5
Strategic location	University (UNI)	5

2.3.6 Network redundancy

Pipe redundancy plays a significant role in pipe replacement prioritisation. Pipe redundancy is calculated as follows:

The system is first balanced at the typical present operational average day demand scenario. Then a special routine evaluates the effect of the failure of every pipe individually. If the effect is that part of the network will not be supplied with water then the actual flow of the pipe is stored as criteria for the redundancy parameter. If the effect is that no part of the network will be isolated of water supply, then a value of zero is stored.

This analysis has been performed for Stellenbosch.

The following classification index was developed to rate this factor and shows the amount of flow that could not be delivered by the pipe if there is no redundancy.

Property	Criteria	Rating (0..5)
Redundancy (ℓ/s)	0	0.1
Redundancy (ℓ/s)	5	1
Redundancy (ℓ/s)	10	2
Redundancy (ℓ/s)	20	3
Redundancy (ℓ/s)	50	4
Redundancy (ℓ/s)	>50	5

2.3.7 Pavement management system (PMS)

As part of the PMS, roads are identified which should be upgraded by either resurfacing or reconstruction. This provides an independent assessment by an engineer of those roads that should be upgraded in the road network based on the assessment made for the PMS.

The rationale of the PMS item concept is that if a pipe has to be replaced due to likelihood of failure results, the replacement of this pipe can be brought forward if the PMS suggests future upgrading of the road within which the pipe falls.

The following classification index could be adopted in future to rate this factor:

Consequence of failure property	Criteria (<=)	Rating (0..5)
Pavement management system	(undefined)*	1
Pavement management system	Very good (VG)*	1
Pavement management system	Good (G)*	2
Pavement management system	Fair (F)*	3
Pavement management system	Poor (P)*	4
Pavement management system	Very poor (VP)*	5

** Data not available for or relevant to Stellenbosch Municipality*

2.4 SOFTWARE MODEL

The *Wadiso® (GLS Software)* software has been extended to perform the required analysis. Results are then reported in the embedded GIS system per pipe and can be inspected in table or graphical format. Figure 1 shows on an aerial background image how the PRP score (as categorized in the legend) is also influenced by the slope analysis. Figure 2 shows a detailed graphical view of the same area.

It can for example be seen how the pipe highlighted in red has a number of LF and CF factors (including the location on the lower side of the road and high dynamic pressure) contributing to a relative high PRP score of 0.27. The short pipe shown in magenta has a PRP score of 0.30 mainly contributed also by its high FF and location under the tarred road.

Figure 1: Graphical result where PRP is also influenced by slope analysis (on aerial image)

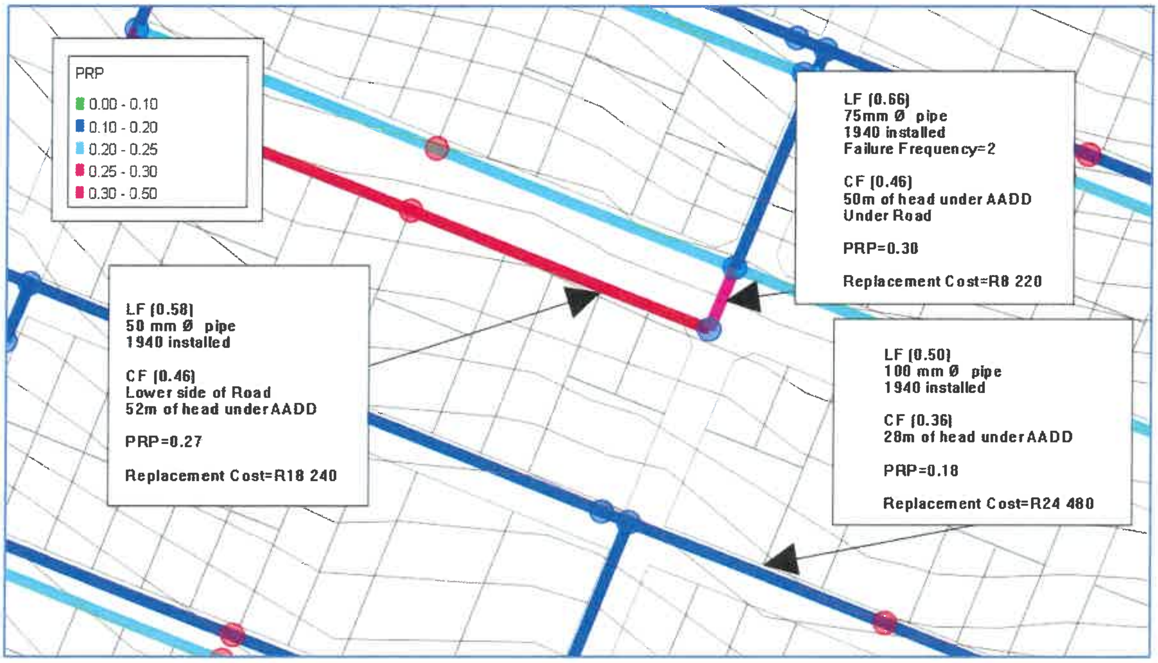


Figure 2: Graphical result – detail view

3. DISCUSSION OF RESULTS

The complete analysis has been performed for Stellenbosch Municipality. Results are available in the format of a GIS data set. The following is a discussion of results obtained and as presented in the included figures.

Figures SRW 1(a) to (e) show the total pipe replacement potential (PRP%) for each pipe in the model categorised as low (<60%), average (60%-80%), high (80%-90%) and very high (>90%). The higher the value, the higher the potential for replacement. Where a failure location is related to a pipe that has been replaced since the failure date, the location has been excluded from the map and deemed outdated.

The PRP per pipe was also rolled up per region (township/suburb/reservoir supply zone). Various options were investigated, such as a pipe length weighted average PRP per region. This identifies the areas where high PRP values are dominant and is shown in Figure SRW 2.

Table DRW 1 shows a list of pipes representing the top 112 pipes in Stellenbosch Municipality to be investigated for replacement, sorted in decreasing order of PRP together with their 2017/18 replacement value. Of these 112 pipes all 112 were identified as priority pipes where the PRP% of the pipe is > 85% and 3 or more incidents of pipe bursts were recorded on the pipe. These 112 priority pipes are also shown on Figures SRW 1(a) to (e) in blue together with their corresponding ranking, and a replacement value of R 8 591 220.

Table SRW 2 shows the total pipe failure record.

4. RECOMMENDATION

It was found that a number of pipe failures recorded by the field staff were not possible to be located. In these cases no address or only a street name without a street number was available. This should be brought to the attention of the field staff.

The location of pipe failures should in future be recorded preferably with accurate GPS coordinates. This would improve the integrity of the output of this pipe failure model. If a longer and more comprehensive pipe failure record could be established, the integrity of the output could be further enhanced.

It is recommended that pipe replacement in Stellenbosch Municipality is performed in accordance with the PRP values calculated in this study. Pipes with the highest PRP values should be considered to be replaced first. It should be noted that the priority pipes for replacement have been ranked only according to the criteria adopted for this study. The decision to replace a particular pipe or section of pipes should still however be taken on an engineering judgement basis using the results of this study as a guideline.

5. CONCLUSION

This new calibrated and tested pipe failure model identifies with a single geographical view where pipe failures are most likely to occur. It is foreseen that this model will greatly assist the pipe replacement prioritisation process as it is completely based on a scientific approach. By allocating funds to replacing those pipes most likely to fail in future, a limited budget can be spent effectively.

APPENDIX – FIGURES AND TABLES

Table SRW1: Top 150 pipes in Stellenbosch, Stellenbosch Municipality to be

PRP Rank	Model Link Nr	SYS TYP	SYSTEM	REGION	Diam (mm)	Length (m)	Fl (l	Final LF	Final LF%	Final CF	Final CF%	Final PRP	Final PRP%	Repl Cost (R)	Cum Repl Cost (R)
1	20069	RET	Uniepark 1	Stellenbosch	100	50	(	3.8760	99.57	2.4948	87.77	9.6697	99.98	20 200	20 200
2	20084	RET	Uniepark 1	Stellenbosch	100	55	(	3.8760	99.57	2.4948	87.77	9.6697	99.98	22 220	42 420
3	14441	RET	Papegaaiberg	Stellenbosch	150	50	(	3.7680	99.12	2.5628	89.62	9.6567	99.94	27 900	70 320
4	11510	RET	Cloetesville reservoir	Stellenbosch	75	100	(	3.9320	99.92	2.3614	78.43	9.2850	99.76	40 400	110 720
5	11726	RET	Cloetesville reservoir	Stellenbosch	75	55	(	3.9320	99.92	2.3614	78.43	9.2850	99.76	22 220	132 940
6	18494	RET	Central	Stellenbosch	50	155	(	3.9080	99.70	2.3614	78.43	9.2284	99.68	62 620	195 560
7	15365	RET	Papegaaiberg	Stellenbosch	100	90	(	3.7720	99.22	2.4407	84.14	9.2065	99.62	36 360	231 920
8	16034	RET	Brandwacht PRV	Stellenbosch	100	150	1	3.8760	99.57	2.3614	78.43	9.1528	99.50	60 600	292 520
9	18866	RET	Central	Stellenbosch	100	30	1	3.6400	98.37	2.4948	87.77	9.0810	99.48	12 120	304 640
10	19016	RET	Central	Stellenbosch	100	110	1	3.6400	98.37	2.4948	87.77	9.0810	99.48	44 440	349 080
11	13976	RET	Papegaaiberg	Stellenbosch	150	105	1	3.6640	98.60	2.4407	84.14	8.9429	99.24	58 590	407 670
12	17675	RET	Central	Stellenbosch	150	10	2	3.5840	98.04	2.4948	87.77	8.9413	99.21	5 580	413 250
13	11792	RET	Cloetesville reservoir	Stellenbosch	75	90	(	3.9840	99.98	2.2000	47.29	8.7649	99.00	36 360	449 610
14	12002	RET	Cloetesville reservoir	Stellenbosch	75	55	(	3.9840	99.98	2.2000	47.29	8.7649	99.00	22 220	471 830
15	10874	RET	Kayamandi PRV 4	Stellenbosch	75	85	(	3.9320	99.92	2.2000	47.29	8.6505	98.69	34 340	506 170
16	10754	RET	Jamestown	Stellenbosch	75	175	(	3.9320	99.92	2.2000	47.29	8.6505	98.69	70 700	576 870
17	10508	RET	Jamestown	Stellenbosch	75	95	(	3.9320	99.92	2.2000	47.29	8.6505	98.69	38 380	615 250
18	10058	RET	Kayamandi PRV 4	Stellenbosch	75	130	(	3.9320	99.92	2.2000	47.29	8.6505	98.69	52 520	667 770
19	11228	RET	Kayamandi PRV 3	Stellenbosch	75	160	(	3.9320	99.92	2.2000	47.29	8.6505	98.69	64 640	732 410
20	10247	RET	Jamestown	Stellenbosch	75	175	(	3.9320	99.92	2.2000	47.29	8.6505	98.69	70 700	803 110
21	11651	RET	Cloetesville reservoir	Stellenbosch	100	65	(	3.8760	99.57	2.2000	47.29	8.5273	98.39	26 260	829 370
22	13589	RET	Cloetesville reservoir	Stellenbosch	100	125	(	3.8760	99.57	2.2000	47.29	8.5273	98.39	50 500	879 870
23	9743	RET	Cloetesville reservoir	Stellenbosch	100	85	(	3.8760	99.57	2.2000	47.29	8.5273	98.39	34 340	914 210
24	15605	RET	Central	Stellenbosch	200	275	1	2.9480	83.75	2.8821	92.65	8.4964	98.11	196 900	1 111 110
25	19880	RET	Uniepark 1	Stellenbosch	150	80	1	3.7680	99.12	2.2541	57.00	8.4933	98.10	44 640	1 155 750
26	14738	RET	Cloetesville Tower	Stellenbosch	75	140	(	3.9320	99.92	2.1460	27.41	8.4381	98.07	56 560	1 212 310
27	10642	RET	Kayamandi PRV 4	Stellenbosch	75	15	(	3.9320	99.92	2.1460	27.41	8.4381	98.07	6 060	1 218 370
28	11690	RET	Kayamandi PRV 3	Stellenbosch	75	30	1	3.9320	99.92	2.1460	27.41	8.4381	98.07	12 120	1 230 490
29	10586	RET	Papegaaiberg	Stellenbosch	75	195	(	3.9320	99.92	2.1460	27.41	8.4381	98.07	78 780	1 309 270
30	8066	RET	Kleinvallei PRV 2	Stellenbosch	100	85	(	3.8240	99.39	2.2000	47.29	8.4129	97.94	34 340	1 343 610
31	12041	RET	Welgelegen PRV	Stellenbosch	100	135	(	3.6460	98.49	2.3074	65.86	8.4127	97.90	54 540	1 398 150
32	14584	RET	Central	Stellenbosch	100	215	(	3.1640	95.75	2.6561	91.23	8.4040	97.78	86 860	1 485 010
33	14042	RET	Central	Stellenbosch	100	55	(	3.7920	99.25	2.2054	47.99	8.3630	97.31	22 220	1 507 230
34	14111	RET	Cloetesville Tower	Stellenbosch	75	165	(	3.8800	99.68	2.1460	27.41	8.3265	97.24	66 660	1 573 890
35	15701	RET	Papegaaiberg	Stellenbosch	75	180	(	3.8800	99.68	2.1460	27.41	8.3265	97.24	72 720	1 646 610
36	20192	RET	Central	Stellenbosch	75	140	(	3.8800	99.68	2.1460	27.41	8.3265	97.24	56 560	1 703 170
37	20018	RET	Uniepark 1	Stellenbosch	100	125	(	3.6920	98.77	2.2541	57.00	8.3220	97.17	50 500	1 753 670
38	20021	RET	Uniepark 1	Stellenbosch	100	155	(	3.6920	98.77	2.2541	57.00	8.3220	97.17	62 620	1 816 290
39	16403	RET	Brandwacht PRV	Stellenbosch	100	155	(	3.5200	97.78	2.3614	78.43	8.3121	97.14	62 620	1 878 910
40	15905	RET	Central	Stellenbosch	150	65	4	3.7680	99.12	2.2000	47.29	8.2897	97.12	36 270	1 915 180
41	11090	RET	Kayamandi PRV 1	Stellenbosch	100	205	0	3.3760	97.20	2.4407	84.14	8.2399	96.99	82 820	1 998 000
42	9527	RET	Papegaaiberg	Stellenbosch	100	215	0	3.8240	99.39	2.1460	27.41	8.2063	96.67	86 860	2 084 860
43	15032	RET	Cloetesville Tower	Stellenbosch	100	95	0	3.8240	99.39	2.1460	27.41	8.2063	96.67	38 380	2 123 240
44	11234	RET	Kayamandi PRV 3	Stellenbosch	100	55	0	3.8240	99.39	2.1460	27.41	8.2063	96.67	22 220	2 145 460
45	11516	RET	Kayamandi PRV 3	Stellenbosch	100	140	0	3.8240	99.39	2.1460	27.41	8.2063	96.67	56 560	2 202 020
46	14513	RET	Central	Stellenbosch	150	150	2	3.4120	97.31	2.4014	79.23	8.1937	96.57	83 700	2 285 720
47	20207	RET	Uniepark 1	Stellenbosch	150	240	0	3.7160	99.01	2.2000	47.29	8.1753	96.54	133 920	2 419 640
48	14153	RET	Welgelegen	Stellenbosch	150	190	1	3.7160	99.01	2.2000	47.29	8.1753	96.54	106 020	2 525 660
49	15770	RET	La Coline PRV	Stellenbosch	150	100	3	3.7160	99.01	2.2000	47.29	8.1753	96.54	55 800	2 581 460
50	16037	RET	Brandwacht PRV	Stellenbosch	100	125	0	3.6980	98.89	2.2000	47.29	8.1357	96.44	50 500	2 631 960
51	14726	RET	Central	Stellenbosch	100	145	0	3.6920	98.77	2.2000	47.29	8.1225	96.42	58 580	2 690 540
52	15572	RET	Central	Stellenbosch	100	105	0	3.6920	98.77	2.2000	47.29	8.1225	96.42	42 420	2 732 960
53	15545	RET	Central	Stellenbosch	100	80	0	3.6920	98.77	2.2000	47.29	8.1225	96.42	32 320	2 765 280
54	21695	RET	Uniepark 1	Stellenbosch	100	115	1	3.7720	99.22	2.1460	27.41	8.0947	95.89	46 460	2 811 740
55	14480	RET	Cloetesville reservoir	Stellenbosch	100	145	0	3.7720	99.22	2.1460	27.41	8.0947	95.89	58 580	2 870 320
56	15530	RET	Papegaaiberg	Stellenbosch	100	25	0	3.7720	99.22	2.1460	27.41	8.0947	95.89	10 100	2 880 420
57	20138	RET	Central	Stellenbosch	75	195	0	3.7480	99.06	2.1460	27.41	8.0432	95.22	78 780	2 959 200
58	20105	RET	Central	Stellenbosch	75	80	0	3.7480	99.06	2.1460	27.41	8.0432	95.22	32 320	2 991 520
59	15488	RET	Welgelegen	Stellenbosch	100	160	0	3.6460	98.49	2.2000	47.29	8.0213	95.13	64 640	3 056 160
60	21698	RET	Uniepark 1	Stellenbosch	100	190	0	3.6460	98.49	2.2000	47.29	8.0213	95.13	76 760	3 132 920
61	14288	RET	Cloetesville reservoir	Stellenbosch	100	170	1	3.6460	98.49	2.2000	47.29	8.0213	95.13	68 680	3 201 600
62	16238	RET	La Coline PRV	Stellenbosch	100	145	0	3.6400	98.37	2.2000	47.29	8.0081	95.05	58 580	3 260 180
63	15797	RET	La Coline PRV	Stellenbosch	100	175	0	3.6400	98.37	2.2000	47.29	8.0081	95.05	70 700	3 330 880
64	19190	RET	Central	Stellenbosch	100	285	0	3.6400	98.37	2.2000	47.29	8.0081	95.05	115 140	3 446 020
65	19019	RET	Central	Stellenbosch	100	140	3	3.6400	98.37	2.2000	47.29	8.0081	95.05	56 560	3 502 580
66	13388	RET	Cloetesville reservoir	Stellenbosch	150	120	5	3.5380	97.87	2.2541	57.00	7.9749	94.81	66 960	3 569 540
67	10334	RET	Papegaaiberg	Stellenbosch	150	275	0	3.7160	99.01	2.1460	27.41	7.9745	94.79	153 450	3 722 990
68	9149	RET	Papegaaiberg	Stellenbosch	150	175	1	3.7160	99.01	2.1460	27.41	7.9745	94.79	97 650	3 820 640
69	19691	RET	Idas Valley	Stellenbosch	75	295	0	3.7020	98.92	2.1460	27.41	7.9445	94.72	119 180	3 939 820
70	20291	RET	Central	Stellenbosch	75	155	0	3.6960	98.83	2.1460	27.41	7.9316	94.47	62 620	4 002 440
71	20141	RET	Central	Stellenbosch	75	50	0	3.6960	98.83	2.1460	27.41	7.9316	94.47	20 200	4 022 640
72	20225	RET	Central	Stellenbosch	75	125	0	3.6960	98.83	2.1460	27.41	7.9316	94.47	50 500	4 073 140
73	20195	RET	Central	Stellenbosch	75	85	0	3.6960	98.83	2.1460	27.41	7.9316	94.47	34 340	4 107 480
74	14612	RET	Cloetesville reservoir	Stellenbosch	150	250	6	3.0560	91.84	2.5947	90.12	7.9295	94.41	139 500	4 246 980
75	8117	RET	Papegaaiberg	Stellenbosch	100	480	0	3.0230	91.20	2.6021	90.32	7.8662	94.21	193 920	4 440 900
76	16052	RET	Papegaaiberg	Stellenbosch	150	105	0	3.6640	98.60	2.1460	27.41	7.8629	94.20	58 590	4 499 490
77	15248	RET	Welgelegen	Stellenbosch	150	120	0	3.6640	98.60	2.1460	27.41	7.8629	94.20	66 960	4 566 450
78	12515	RET	Papegaaiberg	Stellenbosch	150	100	0	3.6640	98.60	2.1460	27.41	7.8629	94.20	55 800	4 622 250

Table SRW1: Top 150 pipes in Stellenbosch, Stellenbosch Municipality to be

PRP Rank	Model Link Nr	SYS TYP	SYSTEM	REGION	Diam (mm)	Length (m)	Fl (l	Final LF	Final LF%	Final CF	Final CF%	Final PRP	Final PRP%	Repl Cost (R)	Cum Repl Cost (R)
79	8087	RET	Kleinvallei PRV 2	Stellenbosch	100	175	(	3.6460	98.49	2.1460	27.41	7.8243	94.06	70 700	4 692 950
80	13676	RET	Cloetesville reservoir	Stellenbosch	225	150	1	3.5560	97.90	2.2000	47.29	7.8233	94.03	146 550	4 839 500
81	13025	RET	Cloetesville reservoir	Stellenbosch	225	160	8	3.5560	97.90	2.2000	47.29	7.8233	94.03	156 320	4 995 820
82	19997	RET	Central	Stellenbosch	100	60	1	3.6400	98.37	2.1460	27.41	7.8114	94.00	24 240	5 020 060
83	16073	RET	La Coline PRV	Stellenbosch	150	35	3	3.5320	97.85	2.2000	47.29	7.7705	93.76	19 530	5 039 590
84	16757	RET	Central	Stellenbosch	100	160	(	3.5140	97.75	2.2000	47.29	7.7309	93.51	64 640	5 104 230
85	8252	RET	Kleinvallei PRV 2	Stellenbosch	100	215	(	3.5940	98.11	2.1460	27.41	7.7127	93.45	86 860	5 191 090
86	11354	RET	Papegaaiberg	Stellenbosch	100	150	(	3.5940	98.11	2.1460	27.41	7.7127	93.45	60 600	5 251 690
87	12575	RET	Welgelegen PRV	Stellenbosch	100	160	(	3.5940	98.11	2.1460	27.41	7.7127	93.45	64 640	5 316 330
88	13646	RET	Cloetesville reservoir	Stellenbosch	150	210	3	3.4120	97.31	2.2541	57.00	7.6909	93.35	117 180	5 433 510
89	11891	RET	Jamestown	Stellenbosch	75	220	(	3.5760	97.98	2.1460	27.41	7.6741	93.16	88 880	5 522 390
90	19982	RET	Uniepark 1	Stellenbosch	100	380	(	3.4680	97.61	2.2000	47.29	7.6297	92.92	153 520	5 675 910
91	15455	RET	Papegaaiberg	Stellenbosch	75	165	(	3.5240	97.84	2.1460	27.41	7.5625	92.66	66 660	5 742 570
92	15104	RET	Papegaaiberg	Stellenbosch	150	125	1	3.4860	97.72	2.1460	27.41	7.4810	92.07	69 750	5 812 320
93	8426	RET	Kleinvallei PRV 1	Stellenbosch	150	380	(	3.4860	97.72	2.1460	27.41	7.4810	92.07	212 040	6 024 360
94	12047	RET	Welgelegen PRV	Stellenbosch	100	175	(	3.4680	97.61	2.1460	27.41	7.4423	91.61	70 700	6 095 060
95	8072	RET	Kleinvallei PRV 2	Stellenbosch	100	280	(	3.4680	97.61	2.1460	27.41	7.4423	91.61	113 120	6 208 180
96	19967	RET	Central	Stellenbosch	100	245	(	3.4620	97.47	2.1460	27.41	7.4295	91.53	98 980	6 307 160
97	14657	RET	Cloetesville reservoir	Stellenbosch	150	200	2	3.3600	97.18	2.2000	47.29	7.3921	91.43	111 600	6 418 760
98	15311	RET	La Coline PRV	Stellenbosch	150	155	4	3.3540	97.12	2.2000	47.29	7.3789	91.32	86 490	6 505 250
99	40045	RET	Franschhoek - Wemmershoek re:	Greater Frar	100	70	(	3.3960	97.24	2.1460	27.41	7.2878	90.19	28 280	6 533 530
100	19877	RET	Uniepark 1	Stellenbosch	150	330	(	3.2280	96.74	2.2541	57.00	7.2761	90.15	184 140	6 717 670
101	19442	RET	Central	Stellenbosch	100	350	1	3.2840	96.83	2.2000	47.29	7.2249	89.57	141 400	6 859 070
102	9440	RET	Papegaaiberg	Stellenbosch	150	295	(	3.3600	97.18	2.1460	27.41	7.2106	89.27	164 610	7 023 680
103	14165	RET	Papegaaiberg	Stellenbosch	150	230	1	2.9520	87.17	2.4407	84.14	7.2051	89.24	128 340	7 152 020
104	12341	RET	Papegaaiberg	Stellenbosch	150	165	(	3.3080	96.94	2.1460	27.41	7.0990	88.23	92 070	7 244 090
105	8330	RET	Kleinvallei PRV 2	Stellenbosch	150	225	(	3.3080	96.94	2.1460	27.41	7.0990	88.23	125 550	7 369 640
106	11843	RET	Papegaaiberg	Stellenbosch	150	145	(	3.3080	96.94	2.1460	27.41	7.0990	88.23	80 910	7 450 550
107	10904	RET	Jamestown	Stellenbosch	75	560	(	3.2200	96.70	2.2000	47.29	7.0841	87.53	226 240	7 676 790
108	20171	RET	Uniepark 1	Stellenbosch	75	310	(	3.2200	96.70	2.2000	47.29	7.0841	87.53	125 240	7 802 030
109	20066	RET	Uniepark 1	Stellenbosch	150	385	(	3.2040	96.47	2.2000	47.29	7.0489	86.97	214 830	8 016 860
110	12677	RET	Central	Stellenbosch	110	250	(	2.9052	82.93	2.4154	83.37	7.0173	86.57	101 000	8 117 860
111	19583	RET	Central	Stellenbosch	315	320	2!	2.6380	61.63	2.6569	91.25	7.0088	86.19	432 960	8 550 820
112	14609	RET	Cloetesville reservoir	Stellenbosch	110	100	(	3.2540	96.77	2.1460	27.41	6.9831	85.84	40 400	8 591 220

Table SRW2: Processed pipe failure records

IDX	Township	Address	Wadiso_num	Integrity	Failure_da	Failure_ye	FittingTyp	Comment	Diameter	ExistMat	Pipe_class	Source	GLS_Dia	GLS_Mat	GLS_class	GLS_year	Reason	SoilType	Surfacing	MunRef
	Stellenbosch	13 Jan Pienaar	15797	1	13/10/2016	2016		H/W/P					100	AC	899	1990				
	Stellenbosch	Soeteweide	18824	3	20/02/2016	2016		H/W/P					100	AC	899	1990				
	Stellenbosch	10 Erasmus smit	19505	1	29/02/2016	2016		H/W/P					75	uPVC	899	2010				
	Stellenbosch	Crozier st	15848	2	13/06/2016	2016		H/W/P					150	AC	899	1990				
	Stellenbosch	9 Jean st	15455	1	07/10/2016	2016		H/W/P					75	AC	899	1940				
	Stellenbosch	Ryneveld/Merriman	16133	2	21/04/2016	2016		H/W/P					150	AC	899	1990				
	Stellenbosch	Joubert st	16757	2	10/06/2016	2016		H/W/P					100	AC	899	1990				
	Stellenbosch	11 Erasmus smit	19505	1	12/07/2016	2016		H/W/P					75	uPVC	899	2010				
	Stellenbosch	15 Irene park	16238	1	05/09/2016	2016		H/W/P					100	AC	899	1990				
	Stellenbosch	Joubert st	16757	3	13/03/2016	2016		H/W/P					100	AC	899	1990				
	Stellenbosch	4 Soeteweide	18227	1	07/05/2016	2016		H/W/P					100	AC	899	1940				
	Stellenbosch	130 Merriman	19550	1	29/05/2016	2016		H/W/P					150	AC	899	1990				
	Stellenbosch	27 Webersvalley	10904	1	16/09/2016	2016		H/W/P					75	AC	899	1975				
	Stellenbosch	Rorine	10754	3	27/09/2016	2016		H/W/P					75	AC	899	1975				
	Stellenbosch	4 Selecta st	10247	1	19/10/2016	2016		H/W/P					75	AC	899	1975				
	Stellenbosch	Webersvalley	10904	3	20/02/2016	2016		H/W/P					75	AC	899	1975				
	Stellenbosch	21 Whitheart	11891	1	22/03/2016	2016		H/W/P					75	AC	899	1975				
	Stellenbosch	81 Webersvaliei	10904	1	26/08/2016	2016		H/W/P					75	AC	899	1975				
	Stellenbosch	Rorine st	10754	3	09/11/2016	2016		H/W/P					75	AC	899	1975				
	Stellenbosch	9 Everbearing	10508	1	13/12/2016	2016		H/W/P					75	AC	899	1975				
	Stellenbosch	Crozier st	15848	3	05/04/2016	2016		H/W/P					150	AC	899	1990				
	Stellenbosch	Webersvalley rd	10904	3	04/11/2016	2016		H/W/P					75	AC	899	1975				
	Stellenbosch	6 Selecta st	10247	1	22/10/2016	2016		H/W/P					75	AC	899	1975				
	Stellenbosch	Rheezight st	20291	3	06/04/2016	2016		H/W/P					75	AC	899	1990				
	Stellenbosch	Boschendal	21185	3	20/04/2016	2016		H/W/P					100	AC	899	1965				
	Stellenbosch	Libertas laan	20192	3	21/04/2016	2016		H/W/P					75	AC	899	1965				
	Stellenbosch	1 Zwaanswyk	20138	1	24/03/2016	2016		H/W/P					75	AC	899	1990				
	Stellenbosch	Hofmeyer st	19019	3	24/03/2016	2016		H/W/P					100	AC	899	1990				
	Stellenbosch	2 De Vos st	18494	1	03/04/2016	2016		H/W/P					50	AC	899	1990				
	Stellenbosch	2 Otterkuil	20225	1	26/06/2016	2016		H/W/P					75	AC	899	1990				
	Stellenbosch	Martinson/Morkel	20018	2	30/06/2016	2016		H/W/P					100	AC	899	1990				
	Stellenbosch	7 Zwaanswyk	20195	1	30/06/2016	2016		H/W/P					75	AC	899	1990				
	Stellenbosch	44 Noordwal-Oos	18911	1	21/04/2016	2016		H/W/P					75	AC	899	1990				
	Stellenbosch	De Waal	19016	1	30/04/2016	2016		H/W/P					100	AC	899	1990				
	Stellenbosch	Hofmeyer/Marais	19166	2	21/06/2016	2016		H/W/P					200	AC	899	1990				
	Stellenbosch	32 Berg laan	16034	1	31/05/2016	2016		H/W/P					100	AC	899	0				
	Stellenbosch	Wege/Brandwaght	16037	2	14/09/2016	2016		H/W/P					100	AC	899	1965				
	Stellenbosch	Sultan/Keiffer	11876	2	19/09/2016	2016		H/W/P					100	AC	899	1960				
	Stellenbosch	15 Irene park	16238	1	05/09/2016	2016		H/W/P					100	AC	899	1990				
	Stellenbosch	Morkel	20018	3	07/01/2016	2016		H/W/P					100	AC	899	1990				
	Stellenbosch	Bergh st	16031	3	13/01/2016	2016		H/W/P					110	uPVC	899	2012				
	Stellenbosch	7 Meerlust	20138	1	07/02/2016	2016		H/W/P					75	AC	899	1990				
	Stellenbosch	van Der Stel	19442	3	20/03/2016	2016		H/W/P					100	AC	899	1990				
	Stellenbosch	Neethling/van Riebeeck	17543	2	22/03/2016	2016		H/W/P					225	AC	899	1990				
	Stellenbosch	7 Binnekring st	15305	1	29/12/2016	2016		H/W/P					110	uPVC	899	2012				
	Stellenbosch	Wege/Brandwaght	16037	2	14/12/2016	2016		H/W/P					100	AC	899	1965				
	Stellenbosch	Mdala st	11321	1	23/07/2015	2015		H/W/P					110	uPVC	1200	2014				
	Stellenbosch	Barry st	14153	1	28/07/2015	2015		H/W/P					150	AC	899	1965				
	Stellenbosch	Mdala st	11321	1	28/07/2015	2015		H/W/P					110	uPVC	1200	2014				
	Stellenbosch	2 Otterkuil	20225	1	30/06/2015	2015		H/W/P					75	AC	899	1990				
	Stellenbosch	19 King st	14111	1	08/07/2015	2015		H/W/P					75	AC	899	1965				
	Stellenbosch	Mdala st	11321	1	21/07/2015	2015		H/W/P					110	uPVC	1200	2014				
	Stellenbosch	15 Martin st	21389	1	17/08/2015	2015		H/W/P					110	uPVC	1200	2014				
	Stellenbosch	111 Mawetu	11228	1	10/09/2015	2015		H/W/P					75	AC	899	1970				
	Stellenbosch	Nellmapius st	15488	3	18/09/2015	2015		H/W/P					100	AC	899	1965				
	Stellenbosch	Davidse st	11870	1	04/08/2015	2015		H/W/P					100	AC	899	1965				
	Stellenbosch	152 Mdala	11321	1	04/08/2015	2015		H/W/P					110	uPVC	1200	2014				
	Stellenbosch	Luxolo st	10925	1	14/08/2015	2015		H/W/P					75	AC	899	1970				
	Stellenbosch	79 Lang st	14357	1	23/04/2015	2015		H/W/P					75	AC	899	1965				
	Stellenbosch	Masithandane st	11516	3	26/04/2015	2015		H/W/P					100	AC	899	1970				
	Stellenbosch	Masithandane st	11516	3	29/04/2015	2015		H/W/P					100	AC	899	1970				
	Stellenbosch	Rhode st	13676	2	16/03/2015	2015		H/W/P					225	AC	899	1965				
	Stellenbosch	Kahler/Bloekom	20150	2	14/04/2015	2015		H/W/P					100	AC	899	1945				
	Stellenbosch	Masithandane st	11516	3	16/04/2015	2015		H/W/P					100	AC	899	1970				
	Stellenbosch	Ismail st	12002	1	08/06/2015	2015		H/W/P					75	AC	899	1965				
	Stellenbosch	102 Pine st	13547	1	10/06/2015	2015		H/W/P					90	uPVC	1200	1998				
	Stellenbosch	Draai laan	15521	3	10/06/2015	2015		H/W/P					150	AC	899	1965				
	Stellenbosch	Lamla st	11129	3	11/05/2015	2015		H/W/P					50	AC	899	1970				
	Stellenbosch	Second avenue	11798	3	30/04/2015	2015		H/W/P					50	AC	899	1970				
	Franschhoek	12 Kershout	40465	1	16/02/2015	2015		H/W/P					99	UNK	899	0				
	Dwars River	Swart Close	30130	3	19/02/2015	2015		H/W/P					100	AC	899	0				

	Franschhoek	109 Jakaranda st	40155	1	22/02/2015	2015		H/W/P					100	UNK	899	0				
	Klapmuts	Merchant st	50470	3	23/04/2015	2015		H/W/P					160	uPVC	1200	0				
	Klapmuts	B.P Garage Klupmuts	50870	1	13/07/2015	2015		H/W/P					150	UNK	899	0				
	Klapmuts	B.P Garage Klupmuts	50870	1	15/08/2015	2015		H/W/P					150	UNK	899	0				
	Franschhoek	Sonneblom	40045	3	31/07/2015	2015		H/W/P					100	UNK	899	0				
	Dwars River	11 Daffidol st	35250	1	18/12/2015	2015		H/W/P					99	AC	899	0				
	Stellenbosch	White hearts	11891	3	18/01/2016	2016		H/W/P					75	AC	899	1975				
	Stellenbosch	William st	14480	3	11/04/2015	2015		H/W/P					100	AC	899	1965				
	Franschhoek	109 Jakaranda st	40155	1	23/02/2015	2015		H/W/P					100	UNK	899	0				
	Stellenbosch	Martin st	21389	1	21/10/2015	2015		H/W/P					110	uPVC	1200	2014				
	Stellenbosch	Omega st	21698	2	22/10/2015	2015		H/W/P					100	AC	899	1960				
	Stellenbosch	Cloetesville sportsgron	13286	1	03/11/2015	2015		H/W/P					110	HDPE	899	1965				
	Stellenbosch	Dennerand	14282	1	25/09/2015	2015		H/W/P					110	uPVC	1200	1998				
	Stellenbosch	Curry st	13421	1	14/10/2015	2015		H/W/P					90	HDPE	1250	1965				
	Stellenbosch	Everberry	10991	1	17/10/2015	2015		H/W/P					110	uPVC	1200	2010				
	Stellenbosch	10 Rhode st	13025	1	09/12/2015	2015		H/W/P					225	AC	899	1965				
	Stellenbosch	35 Eike st	13958	1	23/12/2015	2015		H/W/P					50	AC	899	1965				
	Klapmuts	Klapmuts Hotel	50675	1	19/02/2015	2015		H/W/P					150	UNK	899	0				
	Stellenbosch	23 King st	14111	1	08/11/2015	2015		H/W/P					75	AC	899	1965				
	Stellenbosch	Mc Coy st	21695	1	06/11/2015	2015		H/W/P					100	AC	899	1945				
	Stellenbosch	Hof laan	20066	3	29/04/2016	2016		H/W/P					150	AC	899	1965				
	Stellenbosch	Unie park	20180	3	09/02/2016	2016		H/W/P					150	AC	899	1965				
	Stellenbosch	34 Dahlia	19982	1	22/02/2016	2016		H/W/P					100	AC	899	1945				
	Stellenbosch	50 Dahlia	19982	1	22/01/2016	2016		H/W/P					100	AC	899	1945				
	Stellenbosch	7 Provinsig	20165	1	25/01/2016	2016		H/W/P					110	uPVC	1200	2006				
	Stellenbosch	Maroela st	22034	3	04/04/2016	2016		H/W/P					150	AC	899	1980				
	Stellenbosch	Hof laan	20066	3	05/04/2016	2016		H/W/P					150	AC	899	1965				
	Stellenbosch	Martinson st	19877	3	17/10/2016	2016		H/W/P					150	AC	899	1990				
	Stellenbosch	2 Tindall st	19907	2	10/11/2016	2016		H/W/P					110	uPVC	900	2012				
	Stellenbosch	6 Oranje laan	20207	1	07/11/2016	2016		H/W/P					150	AC	899	1965				
	Stellenbosch	68 Dahlia st	19982	1	08/11/2016	2016		H/W/P					100	AC	899	1945				
	Stellenbosch	Martinson/Unie	19880	2	03/08/2016	2016		H/W/P					150	AC	899	1965				
	Stellenbosch	Rozendal st	21713	3	11/10/2016	2016		H/W/P					110	uPVC	1200	2009				
	Stellenbosch	12 Kahler st	19691	1	31/08/2016	2016		H/W/P					75	AC	899	1945				
	Stellenbosch	Du Toit	14513	3	30/01/2016	2016		H/W/P					150	AC	899	1940				
	Stellenbosch	Bergzight	14042	3	14/02/2016	2016		H/W/P					100	AC	899	1990				
	Stellenbosch	16 Patrys	8072	1	04/02/2016	2016		H/W/P					100	AC	899	1965				
	Stellenbosch	9 Rheezight/Zwaanswyk	20291	2	23/11/2016	2016		H/W/P					75	AC	899	1990				
	Stellenbosch	Morkel/Martinson	20018	2	10/12/2016	2016		H/W/P					100	AC	899	1990				
	Stellenbosch	Otterkuil st	20225	3	14/12/2016	2016		H/W/P					75	AC	899	1990				
	Stellenbosch	6 Kleinvalley	8465	1	29/03/2016	2016		H/W/P					110	HDPE	1250	2012				
	Stellenbosch	78 Jan Pierrewiet	8069	1	01/04/2016	2016		H/W/P					110	uPVC	899	2012				
	Stellenbosch	Bergzight	14042	3	16/04/2016	2016		H/W/P					100	AC	899	1990				
	Stellenbosch	8 Troupant	8252	1	20/02/2016	2016		H/W/P					100	AC	899	1965				
	Stellenbosch	28 Flamingo	8285	1	25/02/2016	2016		H/W/P					150	AC	899	1965				
	Stellenbosch	6 Kleinvalley	8465	1	24/03/2016	2016		H/W/P					110	HDPE	1250	2012				
	Stellenbosch	Lang/Faber	19004	2	18/07/2016	2016		H/W/P					75	HDPE	1250	1965				
	Stellenbosch	Lanzerac	21110	3	06/08/2016	2016		H/W/P					100	AC	899	1965				
	Stellenbosch	De Vos st	18494	3	22/08/2016	2016		H/W/P					50	AC	899	1990				
	Stellenbosch	De Vos st	18494	3	14/07/2016	2016		H/W/P					50	AC	899	1990				
	Stellenbosch	Morkel st	20018	2	14/07/2016	2016		H/W/P					100	AC	899	1990				
	Stellenbosch	Jonkershoek/Boschendal	21281	2	15/07/2016	2016		H/W/P					100	AC	899	1965				
	Stellenbosch	Morkel/Jonkershoek	21416	2	13/09/2016	2016		H/W/P					110	uPVC	1200	2005				
	Stellenbosch	Libertas/Zwaanswyk	20192	2	18/10/2016	2016		H/W/P					75	AC	899	1965				
	Stellenbosch	Libertas/Zwaanswyk	20192	2	14/11/2016	2016		H/W/P					75	AC	899	1965				
	Stellenbosch	Hofmeyer st	19019	3	11/09/2016	2016		H/W/P					100	AC	899	1990				
	Stellenbosch	De Waal st	19016	3	22/08/2016	2016		H/W/P					100	AC	899	1990				
	Stellenbosch	152 Adringa	15545	1	18/01/2016	2016		H/W/P					100	AC	899	1990				
	Stellenbosch	Planken	11894	3	21/01/2016	2016		H/W/P					160	uPVC	899	1984				
	Stellenbosch	59 Anesta st	15731	1	07/03/2016	2016		H/W/P					110	uPVC	1200	1985				
	Stellenbosch	7 Ackerman st	15362	1	16/11/2016	2016		H/W/P					100	AC	899	1940				
	Stellenbosch	11 Adelaar st	8084	1	29/11/2016	2016		H/W/P					150	AC	899	1965				
	Stellenbosch	Aan de Wagen	13082	1	25/12/2016	2016		H/W/P					150	AC	899	1940				
	Stellenbosch	Oranje laan	20207	3	08/01/2016	2016		H/W/P					150	AC	899	1965				
	Stellenbosch	Meason	8510	2	12/05/2016	2016		H/W/P					110	uPVC	899	1985				
	Stellenbosch	Bergzight/9 Alexander	14042	2	20/06/2016	2016		H/W/P					100	AC	899	1990				
	Stellenbosch	Koch/Ackerman	15362	2	15/07/2016	2016		H/W/P					100	AC	899	1940				
	Stellenbosch	17 Du Toit st	12677	1	01/09/2016	2016		H/W/P					110	HDPE	1250	1990				
	Stellenbosch	7 Jan Fiskaal	8030	1	10/05/2016	2016		H/W/P					100	AC	899	1955				
	Stellenbosch	59 Rokewood	9404	1	07/06/2016	2016		H/W/P					160	uPVC	1200	2012				
	Stellenbosch	10 Patrys	8072	1	07/06/2016	2016		H/W/P					100	AC	899	1965				
	Stellenbosch	Alexander/Bersigh	14042	2	15/09/2016	2016		H/W/P					100	AC	899	1990				
	Stellenbosch	Tarentaal/Jan Pierewiet	8051	2	17/09/2016	2016		H/W/P					100	AC	899	1955				
	Stellenbosch	36 Patrys st	8090	1	18/10/2016	2016		H/W/P					100	AC	899	1965				
	Stellenbosch	Bosman crossing	9860	1	12/09/2016	2016		H/W/P					225	AC	899	1940				

Stellenbosch	17 Du Toit st	12677	1	01/09/2016	2016	H/W/P	110	HDPE	1250	1990
Stellenbosch	van Der Stel	19442	3	25/01/2015	2015	H/W/P	100	AC	899	1990
Stellenbosch	1 Zwaans wyk	20138	1	31/01/2015	2015	H/W/P	75	AC	899	1990
Stellenbosch	Protea/Rustenburg	19568	2	06/12/2015	2015	H/W/P	110	uPVC	899	2010
Stellenbosch	Joubert st	16757	1	20/12/2015	2015	H/W/P	100	AC	899	1990
Stellenbosch	13 Thibault	19967	1	16/02/2015	2015	H/W/P	100	AC	899	1990
Stellenbosch	36 Powan	19814	1	26/02/2015	2015	H/W/P	100	AC	899	1990
Stellenbosch	Groeneweivelde	19067	3	27/02/2015	2015	H/W/P	100	AC	899	1990
Stellenbosch	2 Anreith	20105	1	31/01/2015	2015	H/W/P	75	AC	899	1990
Stellenbosch	14 Schoongezight	19424	1	04/02/2015	2015	H/W/P	150	AC	899	1990
Stellenbosch	Thibault	19967	3	05/02/2015	2015	H/W/P	100	AC	899	1990
Stellenbosch	Desh st	19403	3	13/08/2015	2015	H/W/P	90	HDPE	1250	1992
Stellenbosch	11 Erasmus smit	19505	1	13/10/2015	2015	H/W/P	75	uPVC	899	2010
Stellenbosch	Simonsberg st	19736	1	21/10/2015	2015	H/W/P	150	AC	899	1990
Stellenbosch	4 Kleinewede	18968	1	27/06/2015	2015	H/W/P	75	AC	899	1990
Stellenbosch	Verrewede/Banghoek	19190	2	01/07/2015	2015	H/W/P	100	AC	899	1990
Stellenbosch	Hofmeyer	19019	3	05/07/2015	2015	H/W/P	100	AC	899	1990
Stellenbosch	Adringa/Borcherd	17675	2	26/11/2015	2015	H/W/P	150	AC	899	1990
Stellenbosch	Helshoogte	20033	1	30/11/2015	2015	H/W/P	110	uPVC	900	2012
Stellenbosch	14 Luckhoff st	19616	1	02/11/2015	2015	H/W/P	75	uPVC	899	2010
Stellenbosch	Banghoek	19295	1	04/11/2015	2015	H/W/P	160	uPVC	1200	2012
Stellenbosch	Erasmus smit	19505	3	22/10/2015	2015	H/W/P	75	uPVC	899	2010
Stellenbosch	49 van Der Stel	19709	1	10/11/2015	2015	H/W/P	100	AC	899	1990
Stellenbosch	83 Jonkershoek weg	20021	1	01/11/2015	2015	H/W/P	100	AC	899	1990
Stellenbosch	14 Zwaanswyk	20141	1	26/12/2015	2015	H/W/P	75	AC	899	1990
Stellenbosch	Verrewede	19190	3	14/09/2015	2015	H/W/P	100	AC	899	1990
Stellenbosch	Unie/Martinson	19880	2	18/10/2015	2015	H/W/P	150	AC	899	1965
Stellenbosch	83 Jonkershoek	20021	1	07/11/2015	2015	H/W/P	100	AC	899	1990
Stellenbosch	De Waal	19016	1	20/09/2015	2015	H/W/P	100	AC	899	1990
Stellenbosch	7 Rheezigh	20291	1	03/01/2015	2015	H/W/P	75	AC	899	1990
Stellenbosch	14 Zwaans wyk	20294	1	17/01/2015	2015	H/W/P	75	AC	899	1990
Stellenbosch	9 Meerlust st	20138	1	31/12/2015	2015	H/W/P	75	AC	899	1990
Stellenbosch	De Vos st	18494	3	12/03/2015	2015	H/W/P	50	AC	899	1990
Stellenbosch	4 De Vos	18494	1	19/09/2015	2015	H/W/P	50	AC	899	1990
Stellenbosch	9 Meerlust st	20138	1	15/06/2015	2015	H/W/P	75	AC	899	1990
Stellenbosch	13 van Der Stel	19307	1	24/06/2015	2015	H/W/P	100	AC	899	1990
Stellenbosch	7 Meerlust	20138	1	27/06/2015	2015	H/W/P	75	AC	899	1990
Stellenbosch	Rowan	19724	1	12/04/2015	2015	H/W/P	100	AC	899	1990
Stellenbosch	Marais st	19151	3	21/04/2015	2015	H/W/P	315	UNK	899	1990
Stellenbosch	Morkel st	20018	3	29/04/2015	2015	H/W/P	100	AC	899	1990
Stellenbosch	47 van Der Stel	19709	1	06/08/2015	2015	H/W/P	100	AC	899	1990
Stellenbosch	11 Meerlust	20138	1	14/08/2015	2015	H/W/P	75	AC	899	1990
Stellenbosch	Banghoek/Groeneweide	19058	2	15/08/2015	2015	H/W/P	160	uPVC	1200	2012
Stellenbosch	1 Du Plessis	19997	1	04/08/2015	2015	H/W/P	100	AC	899	1990
Stellenbosch	13 Thibault	19967	1	03/07/2015	2015	H/W/P	100	AC	899	1990
Stellenbosch	Robberts st	15716	1	16/07/2015	2015	H/W/P	100	AC	899	1965
Stellenbosch	81 Buitekring	15248	1	26/09/2015	2015	H/W/P	150	AC	899	1965
Stellenbosch	Buitekring	16295	3	03/10/2015	2015	H/W/P	150	AC	899	1965
Stellenbosch	14 Wege	16139	1	26/02/2015	2015	H/W/P	100	AC	899	0
Stellenbosch	Buitekring	16295	3	26/02/2015	2015	H/W/P	150	AC	899	1965
Stellenbosch	46 Buitekring	15764	1	26/02/2015	2015	H/W/P	150	AC	899	1965
Stellenbosch	Dr Malan/Paul Roos	16073	2	16/02/2015	2015	H/W/P	150	AC	899	1990
Stellenbosch	44 Kromrivier weg	15896	1	26/02/2015	2015	H/W/P	160	uPVC	899	2012
Stellenbosch	Ryneveld st	15905	1	27/06/2015	2015	H/W/P	150	AC	899	1940
Stellenbosch	8 Binnekring	15305	1	19/12/2015	2015	H/W/P	110	uPVC	899	2012
Stellenbosch	Krommerivier	14831	3	16/01/2015	2015	H/W/P	160	uPVC	899	2012
Stellenbosch	29 Conde str	15749	1	12/02/2015	2015	H/W/P	110	uPVC	899	2012
Stellenbosch	Kolbe st	18899	3	13/01/2015	2015	H/W/P	75	HDPE	1250	1965
Stellenbosch	37 Bergh st	16034	1	11/02/2015	2015	H/W/P	100	AC	899	0
Stellenbosch	38 Brandwacht st	17096	1	19/02/2015	2015	H/W/P	110	uPVC	900	2012
Stellenbosch	Suidwal/Piet retief	15605	2	20/05/2015	2015	H/W/P	200	AC	899	1940
Stellenbosch	Koch st	15365	1	20/07/2015	2015	H/W/P	100	AC	899	1940
Stellenbosch	Binnekring	15695	3	10/01/2015	2015	H/W/P	100	AC	899	1965
Stellenbosch	5 Van Taack st	17096	1	24/02/2015	2015	H/W/P	110	uPVC	900	2012
Stellenbosch	77 Buitekring	15248	1	24/02/2015	2015	H/W/P	150	AC	899	1965
Stellenbosch	30 Binnekring	14870	1	24/02/2015	2015	H/W/P	100	AC	899	1965
Stellenbosch	13 Sering st	17480	1	24/02/2015	2015	H/W/P	110	uPVC	900	2012
Stellenbosch	5 Wege	16403	1	24/02/2015	2015	H/W/P	100	AC	899	0
Stellenbosch	23 Sonneblom	19505	1	27/02/2015	2015	H/W/P	75	uPVC	899	2010
Stellenbosch	Dewaal/Hofmeyer	19016	2	10/04/2015	2015	H/W/P	100	AC	899	1990
Stellenbosch	Hofmeyer st	19019	3	12/05/2015	2015	H/W/P	100	AC	899	1990
Stellenbosch	21 Sonneblom st	19436	1	24/02/2015	2015	H/W/P	110	uPVC	900	2012
Stellenbosch	Banghoek weg	19295	3	26/02/2015	2015	H/W/P	160	uPVC	1200	2012
Stellenbosch	Hofmeyer	19019	3	26/02/2015	2015	H/W/P	100	AC	899	1990
Stellenbosch	1 Kahler	19691	1	30/05/2015	2015	H/W/P	75	AC	899	1945

	Stellenbosch	Dahlia/Speler	17675	2	03/06/2015	2015		H/W/P					150	AC	899	1990				
	Stellenbosch	Bakker st	19439	3	17/06/2015	2015		H/W/P					75	uPVC	899	2010				
	Stellenbosch	Bosman crossing	18224	1	21/05/2015	2015		H/W/P					100	AC	899	1990				
	Stellenbosch	Bassie/Second	17675	2	12/05/2015	2015		H/W/P					150	AC	899	1990				
	Stellenbosch	67 Borcherd	15572	1	17/02/2015	2015		H/W/P					100	AC	899	1990				
	Stellenbosch	139 Bird st	15335	1	26/02/2015	2015		H/W/P					200	AC	899	1990				
	Stellenbosch	Borcherd st	15572	1	12/06/2015	2015		H/W/P					100	AC	899	1990				
	Stellenbosch	Ryneveld/Victoria	15905	2	18/08/2015	2015		H/W/P					150	AC	899	1940				
	Stellenbosch	Dr Malan	15770	1	23/08/2015	2015		H/W/P					150	AC	899	1945				
	Stellenbosch	Ryneveld/Muller	15905	2	25/12/2015	2015		H/W/P					150	AC	899	1940				
	Stellenbosch	27 Bosman	18224	2	09/02/2015	2015		H/W/P					100	AC	899	1990				
	Stellenbosch	39 Kahler st	19790	1	23/02/2015	2015		H/W/P					90	uPVC	1200	1998				
	Stellenbosch	17 Sonneblom st	19439	1	24/02/2015	2015		H/W/P					75	uPVC	899	2010				
	Stellenbosch	Kleineweide/Soeteweide	18968	2	13/01/2015	2015		H/W/P					75	AC	899	1990				
	Stellenbosch	Banghoek/Adringa	15173	2	29/06/2015	2015		H/W/P					100	AC	899	1990				
	Stellenbosch	33 Pine st	13916	1	09/02/2015	2015		H/W/P					100	AC	899	1965				
	Stellenbosch	7 Kloof st	14903	1	09/02/2015	2015		H/W/P					75	AC	899	1965				
	Stellenbosch	van Dyk/Davy	21770	2	11/02/2015	2015		H/W/P					150	AC	899	1980				
	Stellenbosch	114 Pine	13544	1	05/02/2015	2015		H/W/P					90	uPVC	1200	1998				
	Stellenbosch	58 Lindida Dr	21716	1	09/02/2015	2015		H/W/P					150	AC	899	1980				
	Stellenbosch	46 Mgabadeli	10058	1	09/02/2015	2015		H/W/P					75	AC	899	1970				
	Stellenbosch	10 Sour Fig st	13541	1	12/02/2015	2015		H/W/P					100	UNK	899	0				
	Stellenbosch	30 Gooseberry	13373	1	12/02/2015	2015		H/W/P					110	uPVC	899	2000				
	Stellenbosch	Ortel st	13904	3	12/02/2015	2015		H/W/P					75	uPVC	1200	1965				
	Stellenbosch	74 Packham st	21890	1	11/02/2015	2015		H/W/P					100	AC	899	1980				
	Stellenbosch	9 Achilles st	12857	1	11/02/2015	2015		H/W/P					75	AC	899	1965				
	Stellenbosch	43 Bergsipres	9734	1	12/02/2015	2015		H/W/P					75	AC	899	1965				
	Stellenbosch	P.3/13th street	11090	2	26/02/2015	2015		H/W/P					100	AC	899	1980				
	Stellenbosch	Tennant st	13646	1	24/11/2015	2015		H/W/P					150	AC	899	1965				
	Stellenbosch	35 Bloekomlaan	20084	1	13/01/2015	2015		H/W/P					100	AC	899	1945				
	Stellenbosch	Troupan st	8252	1	10/07/2015	2015		H/W/P					100	AC	899	1965				
	Stellenbosch	2 Swawel laan	8180	1	14/12/2015	2015		H/W/P					75	AC	899	1955				
	Stellenbosch	Adelaar/Tarental	8087	2	14/12/2015	2015		H/W/P					100	AC	899	1955				
	Stellenbosch	18 Beta st	10094	1	05/02/2015	2015		H/W/P					75	AC	899	1965				
	Stellenbosch	90 Lang Suid	13997	2	05/02/2015	2015		H/W/P					150	AC	899	1965				
	Stellenbosch	47 Eike st	13955	1	05/02/2015	2015		H/W/P					50	AC	899	1965				
	Stellenbosch	3 Braeburn	21701	1	04/02/2015	2015		H/W/P					100	AC	899	1980				
	Stellenbosch	25 Bloekomlaan	19892	1	14/12/2015	2015		H/W/P					110	uPVC	900	2012				
	Stellenbosch	16 Sokuqala	10316	1	23/02/2015	2015		H/W/P					100	AC	899	1970				
	Stellenbosch	126 Lang st	13826	2	23/02/2015	2015		H/W/P					150	AC	899	1965				
	Stellenbosch	250 Lang st	10598	1	24/02/2015	2015		H/W/P					150	AC	899	1965				
	Stellenbosch	132 Curry st	13079	1	17/02/2015	2015		H/W/P					90	HDPE	1250	1965				
	Stellenbosch	33 Curry st	14264	1	19/02/2015	2015		H/W/P					160	uPVC	1200	1998				
	Stellenbosch	18 Honeysuckle	13745	1	19/02/2015	2015		H/W/P					160	uPVC	899	2000				
	Stellenbosch	Luyolo st	9746	3	03/03/2015	2015		H/W/P					100	AC	899	1970				
	Klapmuts	60 Gomas st	50605	1	04/03/2015	2015		H/W/P					200	uPVC	1200	0				
	Stellenbosch	Valentyn st	14609	3	08/03/2015	2015		H/W/P					110	uPVC	1200	1965				
	Stellenbosch	Hector st	21056	3	28/02/2015	2015		H/W/P					110	uPVC	899	2012				
	Stellenbosch	405 Magabadeli	10058	1	27/02/2015	2015		H/W/P					75	AC	899	1970				
	Stellenbosch	94 Manyano	10874	1	16/02/2015	2015		H/W/P					75	AC	899	1970				
	Stellenbosch	1 Boabab	21917	1	16/02/2015	2015		H/W/P					315	UNK	899	0				
	Stellenbosch	471 Mgabadeli	10058	1	16/02/2015	2015		H/W/P					75	AC	899	1970				
	Stellenbosch	11 Barry st	14153	1	12/02/2015	2015		H/W/P					150	AC	899	1965				
	Stellenbosch	10 Welgevallen	15914	1	13/02/2015	2015		H/W/P					150	AC	899	1965				
	Stellenbosch	42 Masithandane	11519	1	13/02/2015	2015		H/W/P					75	AC	899	1970				
	Stellenbosch	93 Manyano	10874	1	16/02/2015	2015		H/W/P					75	AC	899	1970				
	Stellenbosch	16 Honeysuckle	13742	1	17/02/2015	2015		H/W/P					160	uPVC	899	2000				
	Stellenbosch	B43 Mawetu	11228	3	17/02/2015	2015		H/W/P					75	AC	899	1970				
	Stellenbosch	94 Manyano	10874	1	16/02/2015	2015		H/W/P					75	AC	899	1970				
	Stellenbosch	32 Anthony	11810	1	16/02/2015	2015		H/W/P					100	AC	899	1965				
	Stellenbosch	7 Rheezight	20249	1	21/03/2015	2015		H/W/P					225	AC	899	1940				
	Stellenbosch	67 Dahlia st	19982	1	21/05/2015	2015		H/W/P					100	AC	899	1945				
	Stellenbosch	Oranje laan	20207	1	26/11/2015	2015		H/W/P					150	AC	899	1965				
	Stellenbosch	7 Zwaans wyk	20195	1	26/01/2015	2015		H/W/P					75	AC	899	1990				
	Stellenbosch	2 Libertas	20195	1	20/02/2015	2015		H/W/P					75	AC	899	1990				
	Stellenbosch	16 Oranje laan	20066	1	24/02/2015	2015		H/W/P					150	AC	899	1965				
	Stellenbosch	16 Maroela st	22022	1	23/02/2015	2015		H/W/P					150	AC	899	1980				
	Stellenbosch	Martin st	21389	3	25/05/2015	2015		H/W/P					110	uPVC	1200	2014				
	Stellenbosch	Mc Coy st	21695	1	28/09/2015	2015		H/W/P					100	AC	899	1945				
	Stellenbosch	Watergang	21296	3	04/02/2015	2015		H/W/P					110	uPVC	899	2012				
	Stellenbosch	28 Unie laan	20180	1	02/12/2015	2015		H/W/P					150	AC	899	1965				
	Stellenbosch	2 Jan Pierewiet st	8066	1	17/03/2015	2015		H/W/P					100	AC	899	1955				
	Stellenbosch	16 Patrys st	8072	1	19/06/2015	2015		H/W/P					100	AC	899	1965				
	Stellenbosch	718 Jan Pierrewiet	8069	1	01/07/2015	2015		H/W/P					110	uPVC	899	2012				
	Stellenbosch	22 Flamingo st	8300	1	03/03/2015	2015		H/W/P					150	AC	899	1965				

Stellenbosch	Bloekomlaan	20069	3	21/08/2017	2017	H/W/P	100	AC	899	1945
Stellenbosch	25 Erasmus smit	19505	1	06/09/2017	2017	H/W/P	75	uPVC	899	2010
Stellenbosch	16 Kommandeur	19493	1	15/09/2017	2017	H/W/P	100	AC	899	1990
Stellenbosch	54 Lelie	19655	1	28/07/2017	2017	H/W/P	100	AC	899	1945
Stellenbosch	Bloekom	20084	3	30/07/2017	2017	H/W/P	100	AC	899	1945
Stellenbosch	Cluver/Schoongezight	19352	2	20/08/2017	2017	H/W/P	150	AC	899	1990
Stellenbosch	Bloekom/Lelie	19805	2	29/10/2017	2017	H/W/P	100	AC	899	1945
Stellenbosch	Bloekomlaan	20084	3	05/12/2017	2017	H/W/P	100	AC	899	1945
Stellenbosch	20 Here single	19634	1	07/12/2017	2017	H/W/P	100	AC	899	1990
Stellenbosch	Jonkerspark	19808	3	18/09/2017	2017	H/W/P	315	UNK	899	1990
Stellenbosch	Bloekomlaan	20084	3	02/10/2017	2017	H/W/P	100	AC	899	1945
Stellenbosch	Luchoff st	19739	3	10/10/2017	2017	H/W/P	75	AC	899	1945
Stellenbosch	68 Dahlia	19982	1	23/04/2017	2017	H/W/P	100	AC	899	1945
Stellenbosch	20 Kahler st	19691	1	09/05/2017	2017	H/W/P	75	AC	899	1945
Stellenbosch	18 Cluver weg	19352	1	18/05/2017	2017	H/W/P	150	AC	899	1990
Stellenbosch	Rozendal	21653	3	05/02/2017	2017	Toevo	110	uPVC	1200	2009
Stellenbosch	Verreweide	19190	3	09/03/2017	2017	H/W/P	100	AC	899	1990
Stellenbosch	46 Luckhoff st	19739	1	15/03/2017	2017	H/W/P	75	AC	899	1945
Stellenbosch	6 Schoongezight	19424	1	06/06/2017	2017	H/W/P	150	AC	899	1990
Stellenbosch	Bloekomlaan	20069	3	24/06/2017	2017	H/W/P	100	AC	899	1945
Stellenbosch	Woodman	21545	3	28/06/2017	2017	H/W/P	110	HDPE	1250	2002
Stellenbosch	Moses st	20396	3	31/05/2017	2017	H/W/P	100	AC	899	1945
Stellenbosch	4 Baker st	19439	1	26/05/2017	2017	H/W/P	75	uPVC	899	2010
Stellenbosch	9 Rheezicht	20291	1	02/04/2017	2017	H/W/P	75	AC	899	1990
Stellenbosch	Lanzerac	21110	3	30/04/2017	2017	H/W/P	100	AC	899	1965
Stellenbosch	Jonkershoek/Jannasch	19679	2	26/05/2017	2017	H/W/P	100	AC	899	1990
Stellenbosch	Plein st	15980	3	16/11/2017	2017	H/W/P	150	AC	899	1990
Stellenbosch	van Der stel st	19442	3	26/01/2017	2017	H/W/P	100	AC	899	1990
Stellenbosch	19 Rheezicht	20291	1	20/03/2017	2017	H/W/P	75	AC	899	1990
Stellenbosch	3 Meerlust	20138	1	15/07/2017	2017	H/W/P	75	AC	899	1990
Stellenbosch	1 Meerlust	20138	1	16/07/2017	2017	H/W/P	75	AC	899	1990
Stellenbosch	13 Meerlust	20138	1	16/07/2017	2017	H/W/P	75	AC	899	1990
Stellenbosch	9 Libertas	20192	1	07/06/2017	2017	H/W/P	75	AC	899	1965
Stellenbosch	Jannasch/Jonkershoek	19679	2	18/06/2017	2017	H/W/P	100	AC	899	1990
Stellenbosch	Rowan/Morgenster	19727	2	28/06/2017	2017	H/W/P	100	AC	899	1990
Stellenbosch	Morkel st	20021	3	28/07/2017	2017	H/W/P	100	AC	899	1990
Stellenbosch	5 Morkel	20021	1	29/07/2017	2017	H/W/P	100	AC	899	1990
Stellenbosch	Omega st	21425	3	31/10/2017	2017	H/W/P	250	UNK	899	0
Stellenbosch	Verreweide	19190	3	15/12/2017	2017	H/W/P	100	AC	899	1990
Stellenbosch	Verreweide	19190	3	29/12/2017	2017	H/W/P	100	AC	899	1990
Stellenbosch	Hofmeyer st	18866	3	18/05/2017	2017	H/W/P	100	AC	899	1990
Stellenbosch	Plein st	15980	3	15/06/2017	2017	H/W/P	150	AC	899	1990
Stellenbosch	De Vos st	18494	3	03/09/2017	2017	H/W/P	50	AC	899	1990
Stellenbosch	12 Neethling	17573	1	04/09/2017	2017	H/W/P	75	AC	899	1990
Stellenbosch	Dorp/Louw	15866	2	05/04/2017	2017	H/W/P	75	AC	899	1990
Stellenbosch	Drostdy/Dorp	16631	2	13/01/2017	2017	H/W/P	160	HDPE	899	2013
Stellenbosch	13 Rorine st	10754	1	09/08/2017	2017	H/W/P	75	AC	899	1975
Stellenbosch	Dorpsig st	16157	3	11/01/2017	2017	H/W/P	100	AC	899	1965
Stellenbosch	Draai laan	15521	3	11/01/2017	2017	H/W/P	150	AC	899	1965
Stellenbosch	Bergh/Brandwaght	16031	2	03/03/2017	2017	H/W/P	110	uPVC	899	2012
Stellenbosch	Kolbe st	18899	3	20/06/2017	2017	H/W/P	75	HDPE	1250	1965
Stellenbosch	5 Linnes st	19061	1	30/09/2017	2017	H/W/P	75	HDPE	1250	0
Stellenbosch	95 Webersvallei	10904	1	12/06/2017	2017	H/W/P	75	AC	899	1975
Stellenbosch	Blaauklippen/Canterbury	12500	2	01/03/2017	2017	H/W/P	110	uPVC	899	1985
Stellenbosch	Fresno/Rolinda	9767	2	18/04/2017	2017	H/W/P	150	AC	899	1975
Stellenbosch	Rorine	10754	3	17/07/2017	2017	H/W/P	75	AC	899	1975
Stellenbosch	6 Selekta	10247	1	30/07/2017	2017	H/W/P	75	AC	899	1975
Stellenbosch	Rorine st	10754	3	06/08/2017	2017	H/W/P	75	AC	899	1975
Stellenbosch	15 Rorine st	10754	1	25/06/2017	2017	H/W/P	75	AC	899	1975
Stellenbosch	De Beer st	17654	3	16/08/2017	2017	H/W/P	75	AC	899	1990
Stellenbosch	11 Irene park	16238	1	30/08/2017	2017	H/W/P	100	AC	899	1990
Stellenbosch	16 Dr Malan	16073	1	16/09/2017	2017	H/W/P	150	AC	899	1990
Stellenbosch	9 Dan Pienaar	15797	1	02/07/2017	2017	H/W/P	100	AC	899	1990
Stellenbosch	Dr Malan/Paul Roos	16073	2	04/07/2017	2017	H/W/P	150	AC	899	1990
Stellenbosch	Dr Malan/Tobruk	15311	2	27/07/2017	2017	H/W/P	150	AC	899	1990
Stellenbosch	36 Lindida dr	21602	1	03/01/2017	2017	H/W/P	150	AC	899	1980
Stellenbosch	Kommandeurs laan	19493	3	14/01/2017	2017	H/W/P	100	AC	899	1990
Stellenbosch	Erasmussmit/Lelie	19655	2	15/01/2017	2017	H/W/P	100	AC	899	1945
Stellenbosch	Dan Pienaar	15797	3	26/10/2017	2017	H/W/P	100	AC	899	1990
Stellenbosch	8 Soeteweide	18488	1	20/10/2017	2017	H/W/P	100	AC	899	1940
Stellenbosch	Nelmapius	15488	3	07/12/2017	2017	H/W/P	100	AC	899	1965
Stellenbosch	Charme st	15665	3	09/03/2017	2017	H/W/P	110	uPVC	1200	1985
Stellenbosch	Houtkapper/Pison	16046	2	06/06/2017	2017	H/W/P	200	uPVC	1200	1985
Stellenbosch	35 Bergh st	16034	1	07/03/2017	2017	H/W/P	100	AC	899	0
Stellenbosch	11 Kronendal	16154	1	30/08/2017	2017	H/W/P	100	AC	899	1965

Stellenbosch	36 Bergh laan	16034	1	06/09/2017	2017	H/W/P	100	AC	899	0
Stellenbosch	Irene park	16238	3	09/03/2017	2017	H/W/P	100	AC	899	1990
Stellenbosch	98 Ryneveld	16133	1	15/04/2017	2017	H/W/P	150	AC	899	1990
Stellenbosch	15 Dan Pienaar	15797	1	14/06/2017	2017	H/W/P	100	AC	899	1990
Stellenbosch	37 Bosman	18182	2	03/03/2017	2017	H/W/P	100	AC	899	1990
Stellenbosch	Bosman/Victoria	18371	2	05/12/2017	2017	H/W/P	150	AC	899	1990
Stellenbosch	37 Vredelest st	12908	1	21/01/2018	2018	H/W/P	110	HDPE	1250	1965
Stellenbosch	Kleinvallei st	8465	3	21/01/2018	2018	H/W/P	110	HDPE	1250	2012
Stellenbosch	28 Lelie st	19469	1	24/01/2018	2018	H/W/P	75	AC	899	1945
Stellenbosch	Du Toit st	12677	3		2018	H/W/P	110	HDPE	1250	1990
Stellenbosch	10 Nared st	11261	1	21/01/2018	2018	H/W/P	75	AC	899	1975
Stellenbosch	Everbearing st	10508	1	21/01/2018	2018	H/W/P	75	AC	899	1975
Stellenbosch	64 Jonkershoek	19679	1	01/02/2018	2018	H/W/P	100	AC	899	1990
Stellenbosch	Kayamandi mall	10642	2	02/02/2018	2018	H/W/P	75	AC	899	1970
Stellenbosch	Stellita park	11726	3	02/02/2018	2018	H/W/P	75	AC	899	1965
Stellenbosch	17 Whiteheart st	11891	1		2018	H/W/P	75	AC	899	1975
Stellenbosch	77 Jonkershoek	19910	2		2018	H/W/P	200	AC	899	1990
Stellenbosch	24 Kahler	19691	1		2018	H/W/P	75	AC	899	1945
Stellenbosch	Luckhof st/Protea	19706	2		2018	H/W/P	100	AC	899	1945
Stellenbosch	44 February st	12059	1	08/01/2018	2018	H/W/P	75	AC	899	1965
Stellenbosch	5 Swawel	8180	1	16/11/2017	2017	H/W/P	75	AC	899	1955
Stellenbosch	Flamingo/Patrys	8090	2	30/11/2017	2017	H/W/P	100	AC	899	1965
Stellenbosch	Erasmus smit	19505	3	02/01/2018	2018	H/W/P	75	uPVC	899	2010
Stellenbosch	Jan Fiskaal	8030	3		2018	H/W/P	100	AC	899	1955
Stellenbosch	kyamandi mall	10642	2	14/01/2018	2018	H/W/P	75	AC	899	1970
Stellenbosch	34 Gooseberry	13373	1	15/01/2018	2018	H/W/P	110	uPVC	899	2000
Stellenbosch	19 Kahler st	19691	1	09/01/2018	2018	H/W/P	75	AC	899	1945
Stellenbosch	Suidwal st	15104	3	08/01/2018	2018	H/W/P	150	AC	899	1940
Stellenbosch	4 Gorridon st	21116	1	21/01/2018	2018	H/W/P	110	HDPE	1250	2003
Stellenbosch	7 Meerlust st	20138	1	23/01/2018	2018	H/W/P	75	AC	899	1990
Stellenbosch	Mc Coy st	21695	3	16/01/2018	2018	H/W/P	100	AC	899	1945
Stellenbosch	Bloekomlaan/Weber	20069	2	18/01/2018	2018	H/W/P	100	AC	899	1945
Stellenbosch	28 Bartlett Rise	21581	1		2018	H/W/P	100	AC	899	1980
Stellenbosch	Pieter Langeveldt skool	11744	2	15/02/2018	2018	H/W/P	150	AC	899	1965
Stellenbosch	Adamtas/Devonvally	8117	2		2018	H/W/P	100	AC	899	1940
Stellenbosch	303 Mawethu	11228	2	24/02/2018	2018	H/W/P	75	AC	899	1970
Stellenbosch	21 Woltemade	12575	1	06/02/2018	2018	H/W/P	100	AC	899	1960
Stellenbosch	Kruger/Dorp	14531	2		2018	H/W/P	150	AC	899	1940
Stellenbosch	58 Nolani st	11348	1	11/02/2018	2018	H/W/P	75	AC	899	1970
Stellenbosch	10 Jan Pierewiet st	8078	1	26/02/2018	2018	H/W/P	110	uPVC	899	2012
Stellenbosch	5 Gorridon st	21116	1	02/01/2018	2018	H/W/P	110	HDPE	1250	2003
Stellenbosch	18 Troupan st	8252	1	25/02/2018	2018	H/W/P	100	AC	899	1965
Stellenbosch	Adelaar/Tarentaal	8075	2	24/02/2018	2018	H/W/P	100	AC	899	1955
Stellenbosch	52 William st	15032	1	28/01/2017	2017	H/W/P	100	AC	899	1965
Stellenbosch	52 William st	15032	1	31/01/2017	2017	H/W/P	100	AC	899	1965
Stellenbosch	William st	14480	3	20/02/2017	2017	H/W/P	100	AC	899	1965
Stellenbosch	Mento st	21863	1	27/02/2017	2017	H/W/P	100	AC	899	1980
Stellenbosch	74 Maroela	21932	1	27/04/2017	2017	H/W/P	150	AC	899	1980
Stellenbosch	5 Pendoring st	21953	1	28/06/2017	2017	H/W/P	100	AC	899	1980
Stellenbosch	32 William st	14480	1	22/11/2017	2017	Toevo	100	AC	899	1965
Stellenbosch	80 William st	14996	1	12/12/2017	2017	H/W/P	75	AC	899	1965
Klapmuts	Mandela city	50235	3	28/11/2017	2017	H/W/P	110	uPVC	1200	0
Franschhoek	90 Jakaranda st	40155	1	04/09/2017	2017	H/W/P	100	UNK	899	0
Franschhoek	5 Hofman	41035	1	03/10/2017	2017	H/W/P	75	UNK	899	0
Franschhoek	Daniel Hugo	42686	3	06/10/2017	2017	H/W/P	110	PVC	899	0
Stellenbosch	Thibault	19823	3	15/12/2017	2017	H/W/P	100	AC	899	1990
Stellenbosch	106 Jonkershoek	21281	1	18/12/2017	2017	H/W/P	100	AC	899	1965
Stellenbosch	14 Anreith st	20105	1	30/12/2017	2017	H/W/P	75	AC	899	1990
Stellenbosch	23 van Der stel	19442	1	18/07/2017	2017	H/W/P	100	AC	899	1990
Stellenbosch	van Der stel/Du Plessie	19997	2	21/07/2017	2017	H/W/P	100	AC	899	1990
Stellenbosch	7 Libertas	20192	1	06/12/2017	2017	H/W/P	75	AC	899	1965
Stellenbosch	5 Piet Retrief	16052	1	18/11/2017	2017	H/W/P	150	AC	899	1940
Stellenbosch	Kock/Jean	15365	2	30/11/2017	2017	H/W/P	100	AC	899	1940
Stellenbosch	Lindida/Pacham	21716	2	01/02/2017	2017	H/W/P	150	AC	899	1980
Stellenbosch	Doornbosch	14165	3	08/11/2017	2017	H/W/P	150	AC	899	1940
Stellenbosch	Park/Piet Retief	16187	2	21/03/2017	2017	H/W/P	150	AC	899	1940
Stellenbosch	Starking st	14111	3	16/08/2017	2017	H/W/P	75	AC	899	1965
Stellenbosch	Bergsipres	9743	3	19/10/2017	2017	H/W/P	100	AC	899	1965
Stellenbosch	41 Gabriel	12533	1	08/11/2017	2017	H/W/P	75	AC	899	1965
Stellenbosch	Stellitapark	11726	3	15/06/2017	2017	H/W/P	75	AC	899	1965
Stellenbosch	63 Lang Suid	14657	1	23/06/2017	2017	H/W/P	150	AC	899	1965
Stellenbosch	Hine/Gabriels	12548	2	07/07/2017	2017	H/W/P	75	AC	899	1965
Stellenbosch	Tarantaal/Patrys	8066	2	22/05/2017	2017	H/W/P	100	AC	899	1955
Stellenbosch	Tarentaal/Patrys	8066	2	07/07/2017	2017	H/W/P	100	AC	899	1955
Stellenbosch	2 Tortelduif	8132	1	08/11/2017	2017	H/W/P	110	uPVC	899	2012

	Stellenbosch	7 Gonzalves st	11792	1	21/11/2017	2017		H/W/P					75	AC	899	1965				
	Stellenbosch	7 Hine st	14522	1	18/11/2017	2017		H/W/P					75	AC	899	1965				
	Stellenbosch	42 Febuary st	12059	2	20/02/2017	2017		H/W/P					75	AC	899	1965				
	Stellenbosch	North end	13589	3	02/03/2017	2017		H/W/P					100	AC	899	1965				
	Stellenbosch	67 Lang st	14657	1	03/04/2017	2017		H/W/P					150	AC	899	1965				
	Stellenbosch	35 Gabriel st	12308	1	10/01/2017	2017		H/W/P					75	AC	899	1965				
	Stellenbosch	Cupido st	11855	3	21/01/2017	2017		H/W/P					75	AC	899	1965				
	Stellenbosch	Sesibine st	10226	3	11/02/2017	2017		H/W/P					75	AC	899	1970				
	Stellenbosch	Rhode st	13676	3	22/05/2017	2017		H/W/P					225	AC	899	1965				
	Stellenbosch	Bergsipres	9743	3	23/05/2017	2017		H/W/P					100	AC	899	1965				
	Stellenbosch	Carriem st	11729	3	30/05/2017	2017		H/W/P					100	AC	899	1965				
	Stellenbosch	146 Lang st	13388	2	25/04/2017	2017		H/W/P					150	AC	899	1965				
	Stellenbosch	6 Davidse st	11651	1	11/04/2017	2017		H/W/P					100	AC	899	1965				
	Stellenbosch	Red oak	12194	3	03/02/2016	2016		H/W/P					100	AC	899	1965				
	Stellenbosch	12 Ismail st	12002	1	29/03/2016	2016		H/W/P					75	AC	899	1965				
	Stellenbosch	Hine st	12632	3	10/04/2016	2016		H/W/P					75	AC	899	1965				
	Stellenbosch	17 Marina singel	9527	1	20/09/2016	2016		H/W/P					100	AC	899	0				
	Stellenbosch	23 Woltemade st	12575	1	26/10/2016	2016		H/W/P					100	AC	899	1960				
	Stellenbosch	Mountain silver	11324	1	21/01/2016	2016		H/W/P					100	AC	899	1965				
	Stellenbosch	5 Wilger st	15131	1	03/07/2016	2016		H/W/P					50	AC	899	1965				
	Stellenbosch	4 Davidse st	11651	1	07/09/2016	2016		H/W/P					100	AC	899	1965				
	Stellenbosch	4 Davidse st	11651	1	07/09/2016	2016		H/W/P					100	AC	899	1965				
	Stellenbosch	Stelitia park	11726	3	20/04/2016	2016		H/W/P					75	AC	899	1965				
	Stellenbosch	59 Hine	12632	1	24/05/2016	2016		H/W/P					75	AC	899	1965				
	Stellenbosch	38 Davidse	12191	1	02/06/2016	2016		H/W/P					100	AC	899	1965				
	Stellenbosch	Swellengrebel	12479	3	08/08/2016	2016		H/W/P					110	uPVC	900	2011				
	Stellenbosch	Ditmars/Brandwacht	15140	2	23/08/2016	2016		H/W/P					100	AC	899	1965				
	Stellenbosch	Swellengrebel	12479	3	23/08/2016	2016		H/W/P					110	uPVC	900	2011				
	Stellenbosch	73 Lovell laan	11720	1	15/07/2016	2016		H/W/P					110	uPVC	899	2011				
	Stellenbosch	14 Swellengrebel	12479	1	17/07/2016	2016		H/W/P					110	uPVC	900	2011				
	Stellenbosch	Doringbosch	13976	2	02/08/2016	2016		H/W/P					150	AC	899	1940				
	Stellenbosch	Swellengrebel	12479	3	10/09/2016	2016		H/W/P					110	uPVC	900	2011				
	Stellenbosch	Swellengrebel	12479	3	10/09/2016	2016		H/W/P					110	uPVC	900	2011				
	Stellenbosch	Ditmars/Brandwaght	15140	2	12/09/2016	2016		H/W/P					100	AC	899	1965				
	Stellenbosch	Koch st	15530	3	29/08/2016	2016		H/W/P					100	AC	899	1940				
	Stellenbosch	14 Formosa st	11843	1	30/08/2016	2016		H/W/P					150	AC	899	1960				
	Franschhoek	Protea st	40200	3	21/09/2016	2016		H/W/P					100	UNK	899	0				
	Franschhoek	Sonneblom st	40045	3	07/10/2016	2016		H/W/P					100	UNK	899	0				
	Franschhoek	Sonneblom st	40045	3	14/10/2016	2016		H/W/P					100	UNK	899	0				
	Stellenbosch	29 Khaler st	19691	1	19/11/2016	2016		H/W/P					75	AC	899	1945				
	Stellenbosch	William st	14480	3	02/04/2016	2016		H/W/P					100	AC	899	1965				
	Dwars River	Dahlia st	31530	2	07/08/2016	2016		H/W/P					160	PVC	1200	0				
	Stellenbosch	30 William st	14480	1	23/11/2016	2016		H/W/P					100	AC	899	1965				
	Stellenbosch	William st	14480	3	27/11/2016	2016		H/W/P					100	AC	899	1965				
	Stellenbosch	29 Carriem st	11729	1	22/11/2016	2016		H/W/P					100	AC	899	1965				
	Stellenbosch	Rhode st	13676	2	07/12/2016	2016		H/W/P					225	AC	899	1965				
	Stellenbosch	7 Cupido	11603	1	31/12/2016	2016		H/W/P					75	AC	899	1965				
	Stellenbosch	Gonzalves st	11792	3	22/09/2016	2016		H/W/P					75	AC	899	1965				
	Stellenbosch	Valentyn st	14609	3	07/11/2016	2016		H/W/P					110	uPVC	1200	1965				
	Stellenbosch	146 Lang st	13388	2	16/11/2016	2016		H/W/P					150	AC	899	1965				
	Stellenbosch	38 Luckhoff st	19739	1	09/08/2016	2016		H/W/P					75	AC	899	1945				
	Stellenbosch	16 Oranje laan	20207	1	11/08/2016	2016		H/W/P					150	AC	899	1965				
	Stellenbosch	4 Bloekom	19805	1	19/09/2016	2016		H/W/P					100	AC	899	1945				
	Stellenbosch	63 Gorridon	21680	1	16/04/2016	2016		H/W/P					110	uPVC	899	2012				
	Stellenbosch	25 Barlet rise	21659	1	05/04/2016	2016		H/W/P					150	AC	899	1980				
	Stellenbosch	Pelikaan/Loerie	8369	2	31/03/2016	2016		H/W/P					100	AC	899	1965				
	Stellenbosch	Dennesig st	13046	3	22/04/2016	2016		H/W/P					90	HDPE	1250	1990				
	Stellenbosch	105 Luxolo	10925	1	24/05/2016	2016		H/W/P					75	AC	899	1970				
	Stellenbosch	Dennesig/Hof	13046	2	29/01/2016	2016		H/W/P					90	HDPE	1250	1990				
	Stellenbosch	47 Forest drive	10367	1	26/02/2016	2016		H/W/P					75	AC	899	1980				
	Stellenbosch	73 Luyolo st	9746	1	19/03/2016	2016		H/W/P					100	AC	899	1970				
	Stellenbosch	Adringa	15689	2	12/06/2016	2016		H/W/P					200	AC	899	1990				
	Stellenbosch	Muller	15353	2	15/06/2016	2016		H/W/P					110	HDPE	1250	1990				
	Stellenbosch	Bell/Bird	13577	2	25/06/2016	2016		H/W/P					100	AC	899	1940				
	Stellenbosch	Masinthandane	11516	2	03/06/2016	2016		H/W/P					100	AC	899	1970				
	Stellenbosch	Bassie	10340	2	08/06/2016	2016		H/W/P					160	uPVC	1200	2014				
	Stellenbosch	Adringa	15689	2	11/06/2016	2016		H/W/P					200	AC	899	1990				
	Stellenbosch	Rustenburg	19568	3	10/05/2016	2016		H/W/P					110	uPVC	899	2010				
	Stellenbosch	Simonsberg st	19736	3	02/12/2016	2016		H/W/P					150	AC	899	1990				
	Stellenbosch	Rustenburg weg	19568	3	18/10/2016	2016		H/W/P					110	uPVC	899	2010				
	Stellenbosch	4 Primrose	14234	1	05/01/2016	2016		H/W/P					110	uPVC	1200	1965				
	Stellenbosch	Eike st	14288	3	21/01/2016	2016		H/W/P					100	AC	899	1965				
	Stellenbosch	Desh/Lelie st	19430	2	09/09/2016	2016		H/W/P					75	AC	899	1945				
	Stellenbosch	Desh/Lelie st	19430	2	09/09/2016	2016		H/W/P					75	AC	899	1945				
	Stellenbosch	De Wet	14642	3	23/01/2016	2016		H/W/P					100	AC	899	0				

Stellenbosch	5 Woltemade	12047	1	19/02/2016	2016	H/W/P	100	AC	899	1960
Stellenbosch	6 Swellengrebel	12044	1	03/04/2016	2016	H/W/P	110	uPVC	900	2011
Stellenbosch	Dr Malan ST	15311	3	17/12/2016	2016	H/W/P	150	AC	899	1990
Stellenbosch	Rokewood/Kaneel	12341	2	05/01/2016	2016	H/W/P	150	AC	899	1960
Stellenbosch	Koch/Cruse	15530	2	12/01/2016	2016	H/W/P	100	AC	899	1940
Stellenbosch	31 Woltemade	13409	1	26/06/2016	2016	H/W/P	100	AC	899	1960
Stellenbosch	24 Formosa	11645	1	27/06/2016	2016	H/W/P	150	AC	899	1960
Stellenbosch	10 Formosa	12143	1	04/07/2016	2016	H/W/P	150	AC	899	1960
Stellenbosch	19 Barry	14153	1	25/06/2016	2016	H/W/P	150	AC	899	1965
Stellenbosch	Koch	15530	3	11/06/2016	2016	H/W/P	100	AC	899	1940
Stellenbosch	13th Avenue	11090	2	22/07/2016	2016	H/W/P	100	AC	899	1980
Stellenbosch	Taylor st	14579	2	18/08/2016	2016	H/W/P	100	AC	899	1990
Stellenbosch	Borcherd/Adringa	15545	2	13/09/2016	2016	H/W/P	100	AC	899	1990
Stellenbosch	Masinthandane	11516	2	04/07/2016	2016	H/W/P	100	AC	899	1970
Stellenbosch	53 Eieke st	14039	1	12/07/2016	2016	H/W/P	50	AC	899	1965
Stellenbosch	Drukker laan	14303	3	21/07/2016	2016	H/W/P	200	AC	899	1990
Stellenbosch	Langenhoven st	14726	3	14/10/2016	2016	H/W/P	100	AC	899	1990
Stellenbosch	Borcherd/Adringa	15545	2	04/11/2016	2016	H/W/P	100	AC	899	1990
Stellenbosch	Dr Malan/Tobrukpark	15311	2	22/11/2016	2016	H/W/P	150	AC	899	1990
Stellenbosch	Mawethu st	11228	1	26/09/2016	2016	H/W/P	75	AC	899	1970
Stellenbosch	Adamtas/Bird	14060	2	14/09/2016	2016	H/W/P	150	AC	899	1940
Stellenbosch	8 Rokewood	12515	1	30/08/2017	2017	H/W/P	150	AC	899	1960
Stellenbosch	20 Rokewood	12341	1	28/09/2017	2017	H/W/P	150	AC	899	1960
Stellenbosch	71 Rokewood	9404	1	30/09/2017	2017	H/W/P	160	uPVC	1200	2012
Stellenbosch	8 Alexander	12464	1	18/08/2017	2017	H/W/P	110	HDPE	1250	1990
Stellenbosch	Rokewood	10127	3	25/08/2017	2017	H/W/P	160	uPVC	1200	2012
Stellenbosch	14 Formosa	11843	1	26/08/2017	2017	H/W/P	150	AC	899	1960
Stellenbosch	33 Saffraan	10334	1	09/12/2017	2017	H/W/P	150	AC	899	0
Stellenbosch	Du Toit st	12677	3	30/12/2017	2017	H/W/P	110	HDPE	1250	1990
Stellenbosch	Mendi/Swartboom	10664	2	10/02/2017	2017	H/W/P	110	uPVC	1200	2016
Stellenbosch	21 Culemborg st	11045	1	07/11/2017	2017	H/W/P	75	AC	899	0
Stellenbosch	44 Saffraan	9440	1	07/11/2017	2017	H/W/P	150	AC	899	0
Stellenbosch	35 Saffraan	10334	1	05/12/2017	2017	H/W/P	150	AC	899	0
Stellenbosch	4 Marina st	9407	1	27/06/2017	2017	H/W/P	100	AC	899	0
Stellenbosch	Lovel/Rokewood	10127	2	27/06/2017	2017	H/W/P	160	uPVC	1200	2012
Stellenbosch	17 Woltemade	12578	1	01/07/2017	2017	H/W/P	100	AC	899	1973
Stellenbosch	Rokewood/Saffraan	12182	2	07/05/2017	2017	H/W/P	150	AC	899	0
Stellenbosch	Weidenhof	12035	3	05/06/2017	2017	H/W/P	100	AC	899	1940
Stellenbosch	Rokewood	10127	3	21/06/2017	2017	H/W/P	160	uPVC	1200	2012
Stellenbosch	Saffraan	10334	3	20/07/2017	2017	H/W/P	150	AC	899	0
Stellenbosch	38 Saffraan st	10334	1	30/07/2017	2017	H/W/P	150	AC	899	0
Stellenbosch	9 Sultan st	11351	1	15/08/2017	2017	H/W/P	100	AC	899	1960
Stellenbosch	Rokewood/vd Rheede	12668	2	17/07/2017	2017	H/W/P	150	AC	899	1960
Stellenbosch	Alexander	12464	3	11/07/2017	2017	H/W/P	110	HDPE	1250	1990
Stellenbosch	A.F. Louw skool	14584	2	08/06/2017	2017	H/W/P	100	AC	899	1945
Stellenbosch	Faure	14924	3	19/06/2017	2017	H/W/P	110	HDPE	1200	1990
Stellenbosch	Bird/R44	14171	2	03/10/2017	2017	H/W/P	150	AC	899	1940
Stellenbosch	17 Langenhoven	14726	1	30/01/2017	2017	H/W/P	100	AC	899	1990
Stellenbosch	5 Eike st	14288	1	09/03/2017	2017	H/W/P	100	AC	899	1965
Stellenbosch	Taylor/Mount Albert	14579	2	18/05/2017	2017	H/W/P	100	AC	899	1990
Stellenbosch	Doornbosch skool	14165	3	15/12/2017	2017	H/W/P	150	AC	899	1940
Stellenbosch	Barry/Dennerand	14114	2	19/12/2017	2017	H/W/P	150	AC	899	1965
Stellenbosch	Webervalley	10904	3	05/02/2017	2017	H/W/P	75	AC	899	1975
Stellenbosch	Merriman/Bird	15263	2	26/11/2017	2017	H/W/P	200	AC	899	1990
Stellenbosch	61 Eike st	13955	1	07/11/2017	2017	H/W/P	50	AC	899	1965
Stellenbosch	Kayamandi Polisie stasi	12179	1	25/04/2017	2017	H/W/P	100	AC	899	1970
Stellenbosch	Masinthandane	11234	3	23/05/2017	2017	H/W/P	100	AC	899	1970
Stellenbosch	Mendi/Masinthandane	11234	2	23/05/2017	2017	H/W/P	100	AC	899	1970
Stellenbosch	Masinthandane	11234	3	13/02/2017	2017	H/W/P	100	AC	899	1970
Stellenbosch	181 Mdala st	11330	1	12/03/2017	2017	H/W/P	50	AC	899	1970
Stellenbosch	406 Mqabadeli	10058	1	08/04/2017	2017	H/W/P	75	AC	899	1970
Stellenbosch	Mqabadeli	10058	3	16/10/2017	2017	H/W/P	75	AC	899	1970
Stellenbosch	Mawetu	11228	2	20/10/2017	2017	H/W/P	75	AC	899	1970
Stellenbosch	5 Nolali st	11348	1	21/10/2017	2017	H/W/P	75	AC	899	1970
Stellenbosch	157 Mdala st	11330	1	16/10/2017	2017	H/W/P	50	AC	899	1970
Stellenbosch	Kyamandi hall	10642	1	30/08/2017	2017	H/W/P	75	AC	899	1970
Stellenbosch	5 Woltemade	12047	1	02/02/2017	2017	H/W/P	100	AC	899	1960
Stellenbosch	8 Culemborg	10586	1	22/02/2017	2017	H/W/P	75	AC	899	0
Stellenbosch	71 Rokewood	9404	1	10/03/2017	2017	H/W/P	160	uPVC	1200	2012
Stellenbosch	Herold st	12653	3	14/01/2017	2017	H/W/P	100	AC	899	1940
Stellenbosch	12 Alexander st	12464	1	19/01/2017	2017	H/W/P	110	HDPE	1250	1990
Stellenbosch	29 Saffraan laan	10334	1	23/01/2017	2017	H/W/P	150	AC	899	0
Stellenbosch	19 Du Toit st	12677	1	27/04/2017	2017	H/W/P	110	HDPE	1250	1990
Stellenbosch	16 Marina singel	9527	1	03/05/2017	2017	H/W/P	100	AC	899	0
Stellenbosch	60 Saffraan st	9440	1	05/05/2017	2017	H/W/P	150	AC	899	0

Stellenbosch	Saffronlaan/Lovelly	9440	2	18/04/2017	2017	H/W/P	150	AC	899	0
Stellenbosch	22 Weidenhof	12035	1	15/04/2017	2017	H/W/P	100	AC	899	1940
Stellenbosch	Jamestown begrafplaas	8777	1	26/01/2017	2017	H/W/P	75	UNK	899	0
Stellenbosch	Jamestown begrafplaas	8777	1	29/03/2017	2017	H/W/P	75	UNK	899	0
Stellenbosch	Doornbosch	14165	3	19/05/2017	2017	H/W/P	150	AC	899	1940
Stellenbosch	Barry	14153	3	11/07/2017	2017	H/W/P	150	AC	899	1965
Stellenbosch	Koch st	15365	3	02/09/2017	2017	H/W/P	100	AC	899	1940
Stellenbosch	4 Dr Malan	15311	1	06/09/2017	2017	H/W/P	150	AC	899	1990
Stellenbosch	Borcherd/Adringa	15572	2	05/05/2017	2017	H/W/P	100	AC	899	1990
Stellenbosch	Borcherd st	15572	3	13/04/2013	2013	H/W/P	100	AC	899	1990
Stellenbosch	Borcherd st	15572	3	20/04/2013	2013	H/W/P	100	AC	899	1990
Stellenbosch	12 Clover weg	19286	1	03/05/2013	2013	H/W/P	150	AC	899	1990
Stellenbosch	Jan Marais	19151	2	16/02/2013	2013	H/W/P	315	UNK	899	1990
Stellenbosch	Smuts st	16601	3	20/03/2013	2013	H/W/P	75	AC	899	1990
Stellenbosch	Banghoek/De Beer	17615	2	05/04/2013	2013	H/W/P	160	uPVC	1200	2012
Stellenbosch	Banghoek weg	17678	3	23/07/2013	2013	H/W/P	300	AC	899	1990
Stellenbosch	5 Verreweide	19190	1	14/08/2013	2013	H/W/P	100	AC	899	1990
Stellenbosch	Conde	14927	3	18/08/2013	2013	H/W/P	110	uPVC	899	2012
Stellenbosch	209 Banghoek weg	19064	1	13/06/2013	2013	H/W/P	160	uPVC	1200	2012
Stellenbosch	10 Soeteweide	18488	1	08/07/2013	2013	H/W/P	100	AC	899	1940
Stellenbosch	Soeteweide/Bosman	18227	2	11/07/2013	2013	H/W/P	100	AC	899	1940
Stellenbosch	van Der Stel	19442	3	10/09/2013	2013	H/W/P	100	AC	899	1990
Stellenbosch	Vrede st	15701	3	26/09/2013	2013	H/W/P	75	AC	899	1940
Stellenbosch	van Der Stel	19442	3	13/10/2013	2013	H/W/P	100	AC	899	1990
Stellenbosch	Andringa/Dorp	16007	2	22/06/2013	2013	H/W/P	200	AC	899	1990
Stellenbosch	Dorp/Andringa	16007	2	27/06/2013	2013	H/W/P	200	AC	899	1990
Stellenbosch	3 van Der Stel	19307	2	09/07/2013	2013	H/W/P	100	AC	899	1990
Stellenbosch	6 Vrede st	15701	1	22/11/2013	2013	H/W/P	75	AC	899	1940
Stellenbosch	Jonkerszight	19283	3	02/01/2013	2013	H/W/P	110	uPVC	1200	2010
Stellenbosch	5 Verreweide	19190	1	03/02/2013	2013	H/W/P	100	AC	899	1990
Stellenbosch	3 Skool st	15233	1	16/11/2013	2013	H/W/P	75	AC	899	1940
Stellenbosch	Skool/Pietretief	15650	2	14/10/2013	2013	H/W/P	150	AC	899	1940
Stellenbosch	Bergh/Brandwacht	16037	2	16/10/2013	2013	H/W/P	100	AC	899	1965
Stellenbosch	Stellenberg	16961	3	03/11/2013	2013	H/W/P	110	uPVC	1200	1998
Stellenbosch	Endler st	19583	3	07/11/2013	2013	H/W/P	315	UNK	899	1990
Stellenbosch	34 Bergh	16034	1	22/08/2013	2013	H/W/P	100	AC	899	0
Stellenbosch	Buitekring	15248	3	22/08/2013	2013	H/W/P	150	AC	899	1965
Stellenbosch	87 Buitekring	14918	1	05/10/2013	2013	H/W/P	150	AC	899	1965
Stellenbosch	Thierry	20093	3	07/11/2013	2013	H/W/P	75	AC	899	1965
Stellenbosch	Wege/Brandwacht	16400	2	05/12/2013	2013	H/W/P	100	AC	899	1965
Stellenbosch	Banhoek/Ryneveld	16040	2	18/10/2013	2013	H/W/P	150	AC	899	1990
Stellenbosch	Jan Marias	19151	3	01/11/2013	2013	Toevo	315	UNK	899	1990
Stellenbosch	7 Hendrick bergh	15890	1	20/02/2013	2013	H/W/P	110	uPVC	899	2012
Stellenbosch	Andringa/Borcherd	15572	2	23/09/2013	2013	H/W/P	100	AC	899	1990
Stellenbosch	59 Borcherd st	15575	1	03/10/2013	2013	H/W/P	110	HDPE	1250	1990
Stellenbosch	63 Borcherd st	15575	1	04/10/2013	2013	H/W/P	110	HDPE	1250	1990
Stellenbosch	7 Meerlust	20138	1	23/04/2013	2013	H/W/P	75	AC	899	1990
Stellenbosch	81 Buitekring	15248	1	03/05/2013	2013	H/W/P	150	AC	899	1965
Stellenbosch	25 Buitekring	15524	1	13/08/2013	2013	H/W/P	150	AC	899	1965
Stellenbosch	3 Meerlust st	20138	1	08/04/2013	2013	H/W/P	75	AC	899	1990
Stellenbosch	8 Skadu st	15908	1	24/02/2013	2013	H/W/P	100	AC	899	1965
Stellenbosch	Rokewood/Kaneel	12515	2	05/06/2013	2013	H/W/P	150	AC	899	1960
Stellenbosch	Lovellaan	10634	3	11/07/2013	2013	H/W/P	160	uPVC	900	2011
Stellenbosch	16 Troupant	8252	1	11/07/2013	2013	H/W/P	100	AC	899	1965
Stellenbosch	Devonvallei Rd	8162	2	06/04/2013	2013	H/W/P	100	AC	899	1955
Stellenbosch	18 Formosa stf	11843	1	19/04/2013	2013	H/W/P	150	AC	899	1960
Stellenbosch	van Rheede st	10994	3	01/05/2013	2013	H/W/P	110	uPVC	899	2011
Stellenbosch	5 Woltermade	11840	1	10/09/2013	2013	H/W/P	100	AC	899	1973
Stellenbosch	Saffraan/Eldorado	9149	2	17/10/2013	2013	H/W/P	150	AC	899	0
Stellenbosch	28 Tarentaal	8087	1	18/12/2013	2013	H/W/P	100	AC	899	1955
Stellenbosch	4 Formosa	11873	1	21/07/2013	2013	H/W/P	100	AC	899	1960
Stellenbosch	13 Kelkiewyn	8327	1	19/08/2013	2013	H/W/P	100	AC	899	1955
Stellenbosch	10 Patrys st	8072	1	30/08/2013	2013	H/W/P	100	AC	899	1965
Stellenbosch	Stasie st	12038	3	17/11/2013	2013	H/W/P	150	AC	899	1940
Stellenbosch	Herold st	12653	3	02/10/2013	2013	H/W/P	100	AC	899	1940
Stellenbosch	6 Eldorado	9149	1	12/10/2013	2013	H/W/P	150	AC	899	0
Stellenbosch	2 Troupan st	8252	1	11/01/2013	2013	H/W/P	100	AC	899	1965
Stellenbosch	Kokkewiet st	8213	3	12/01/2013	2013	H/W/P	150	AC	899	1965
Stellenbosch	swellengrebel	12479	3	05/04/2013	2013	H/W/P	110	uPVC	900	2011
Stellenbosch	Lovellaan/Marina	9527	2	10/12/2013	2013	H/W/P	100	AC	899	0
Stellenbosch	Dennesig st	13046	3	03/05/2013	2013	H/W/P	90	HDPE	1250	1990
Stellenbosch	10 Langenhoven st	14726	1	11/06/2013	2013	H/W/P	100	AC	899	1990
Stellenbosch	Merriman/Bird	15332	2	23/06/2013	2013	H/W/P	200	AC	899	1990
Stellenbosch	Bird/Muller	14915	2	14/04/2013	2013	H/W/P	110	HDPE	1250	1990
Stellenbosch	Langenhoven	14726	3	09/05/2013	2013	H/W/P	100	AC	899	1990

Stellenbosch	18 Krommerivier	14831	1	09/05/2013	2013	H/W/P	160	uPVC	899	2012
Stellenbosch	De waal st	19016	3	03/03/2013	2013	H/W/P	100	AC	899	1990
Stellenbosch	5 Vrede st	15701	1	21/03/2013	2013	H/W/P	75	AC	899	1940
Stellenbosch	Hofmeyer st	18620	3	27/05/2014	2013	H/W/P	100	AC	899	1990
Stellenbosch	38 De vos st	18494	1	24/02/2013	2013	H/W/P	50	AC	899	1990
Stellenbosch	14 Krommerivier	14831	1	24/10/2013	2013	H/W/P	160	uPVC	899	2012
Stellenbosch	Dorp/Piet Retief	15401	2	23/04/2013	2013	H/W/P	150	AC	899	1990
Stellenbosch	Du Toit st	14513	3	26/06/2013	2013	H/W/P	150	AC	899	1940
Stellenbosch	Skone uitsig	14441	3	30/06/2013	2013	H/W/P	150	AC	899	1940
Stellenbosch	60 Saffraan	9440	1	29/12/2013	2013	H/W/P	150	AC	899	0
Stellenbosch	Jean/Kock	15365	2	16/03/2013	2013	H/W/P	100	AC	899	1940
Stellenbosch	Doornbosch	13976	3	09/04/2014	2013	H/W/P	150	AC	899	1940
Stellenbosch	10 Langenhoven st	14726	1	09/01/2013	2013	H/W/P	100	AC	899	1990
Stellenbosch	69 Broncherd st	15008	1	22/02/2013	2013	H/W/P	110	HDPE	1250	1990
Stellenbosch	14 Banhoek	15146	2	24/02/2013	2013	H/W/P	300	AC	899	1990
Stellenbosch	5 Skool st	15233	1	13/09/2013	2013	H/W/P	75	AC	899	1940
Stellenbosch	Doornbosch	13976	3	02/07/2013	2013	H/W/P	150	AC	899	1940
Stellenbosch	Masithandane	11516	3	05/03/2013	2013	H/W/P	100	AC	899	1970
Stellenbosch	303 Mawetu st	11228	1	04/04/2013	2013	H/W/P	75	AC	899	1970
Stellenbosch	8th Avenue	9686	3	07/05/2013	2013	H/W/P	50	AC	899	1970
Stellenbosch	Dagbreek	8426	3	01/11/2013	2013	H/W/P	150	AC	899	1965
Stellenbosch	115 Mawetu st	11228	1	29/01/2013	2013	H/W/P	75	AC	899	1970
Stellenbosch	112 Mawetu st	11228	1	01/02/2013	2013	H/W/P	75	AC	899	1970
Stellenbosch	34 Tarentaal	8087	1	03/07/2013	2013	H/W/P	100	AC	899	1955
Stellenbosch	112 Mawetu st	11228	1	08/07/2013	2013	H/W/P	75	AC	899	1970
Stellenbosch	8 Torteldulf	8207	1	19/07/2013	2013	H/W/P	110	uPVC	899	2012
Stellenbosch	Bergsigpres	9743	3	20/05/2013	2013	H/W/P	100	AC	899	1965
Stellenbosch	Masithandane	11516	3	26/06/2013	2013	H/W/P	100	AC	899	1970
Stellenbosch	16 Patrys laan	8072	1	27/06/2013	2013	H/W/P	100	AC	899	1965
Stellenbosch	9 Uitsig st	21677	1	26/10/2013	2013	H/W/P	110	uPVC	899	2012
Stellenbosch	Bergh laan	21413	3	31/10/2013	2013	H/W/P	110	uPVC	899	2012
Stellenbosch	Morkel	20018	3	02/11/2013	2013	H/W/P	100	AC	899	1990
Stellenbosch	Martinson st	20279	3	19/09/2013	2013	H/W/P	160	uPVC	899	2012
Stellenbosch	8 Uitsig st	21674	1	19/09/2013	2013	H/W/P	110	uPVC	899	2012
Stellenbosch	Martinson	20279	3	15/10/2013	2013	H/W/P	160	uPVC	899	2012
Stellenbosch	6th Avenue	9731	3	20/04/2013	2013	H/W/P	50	AC	899	1980
Stellenbosch	13th Avenue	11090	3	23/09/2013	2013	H/W/P	100	AC	899	1980
Stellenbosch	26 Dagbreek	8426	1	27/09/2013	2013	H/W/P	150	AC	899	1965
Stellenbosch	5 Waterweg	20684	1	31/12/2013	2013	H/W/P	110	uPVC	899	2012
Stellenbosch	Rheezight	20291	3	09/11/2013	2013	H/W/P	75	AC	899	1990
Stellenbosch	Tennant st	14144	3	29/01/2013	2013	H/W/P	150	AC	899	1965
Stellenbosch	15 Curry st	14264	1	26/02/2013	2013	H/W/P	160	uPVC	1200	1998
Stellenbosch	Bell st	14612	3	05/07/2013	2013	H/W/P	150	AC	899	0
Stellenbosch	Jan Pierewiet	8069	3	26/11/2013	2013	H/W/P	110	uPVC	899	2012
Stellenbosch	112 Mawetu st	11228	1	03/12/2013	2013	H/W/P	75	AC	899	1970
Stellenbosch	Kyamandi Polisie	12179	1	29/12/2013	2013	H/W/P	100	AC	899	1970
Stellenbosch	La Coline weg	15308	3	18/09/2013	2013	H/W/P	100	AC	899	1990
Stellenbosch	24 Lakay st	14882	1	29/09/2013	2013	H/W/P	100	AC	899	1965
Stellenbosch	A.F. Louw skool	14584	1	17/10/2013	2013	H/W/P	100	AC	899	1945
Stellenbosch	Tennant st	14144	3	18/08/2013	2013	H/W/P	150	AC	899	1965
Stellenbosch	Bell st	14612	3	06/09/2013	2013	H/W/P	150	AC	899	0
Stellenbosch	1 La Coline	15323	1	10/09/2013	2013	H/W/P	100	AC	899	1990
Stellenbosch	Mgabadeli st	10058	3	25/09/2013	2013	H/W/P	75	AC	899	1970
Stellenbosch	Jan Pierewiet	8069	3	28/09/2013	2013	H/W/P	110	uPVC	899	2012
Stellenbosch	Torteldulf	8207	3	28/09/2013	2013	H/W/P	110	uPVC	899	2012
Stellenbosch	Stellita Park	11726	3	29/07/2013	2013	H/W/P	75	AC	899	1965
Stellenbosch	94 Manyano	10874	1	10/08/2013	2013	H/W/P	75	AC	899	1970
Stellenbosch	22 Sesibini st	10226	1	09/09/2013	2013	H/W/P	75	AC	899	1970
Stellenbosch	Devonvallei Rd	8162	2	09/10/2013	2013	H/W/P	100	AC	899	1955
Stellenbosch	4 Torteldulf	8132	1	10/10/2013	2013	H/W/P	110	uPVC	899	2012
Stellenbosch	5 Ismail st	11987	1	24/11/2013	2013	H/W/P	75	AC	899	1965
Stellenbosch	178 Lang st	11513	1	07/10/2013	2013	H/W/P	150	AC	899	1965
Stellenbosch	8 Sesihlanu	10235	1	05/10/2013	2013	H/W/P	100	AC	899	1970
Stellenbosch	Zwaans wyk	20195	3	16/08/2013	2013	H/W/P	75	AC	899	1990
Stellenbosch	1 Zwaans wyk	20141	1	30/08/2013	2013	H/W/P	75	AC	899	1990
Stellenbosch	9 Waterweg	20684	1	04/09/2013	2013	H/W/P	110	uPVC	899	2012
Stellenbosch	Oranje laan	20207	3	22/02/2013	2013	H/W/P	150	AC	899	1965
Stellenbosch	12 Uitsig st	21674	1	17/01/2013	2013	H/W/P	110	uPVC	899	2012
Stellenbosch	SWAWELLAAN 2	8180	1		2011		75	AC	899	1955
Stellenbosch	FLAMINGOSTRAAT 10	8330	1		2011		150	AC	899	1965
Stellenbosch	FLAMINGOSTRAAT 12	8330	1		2011		150	AC	899	1965
Stellenbosch		12143	4		2011		150	AC	899	1960
Stellenbosch	TARENTAALSTRAAT 20	8075	1		2011		100	AC	899	1955
Stellenbosch	TARENTAALSTRAAT 30	8087	1		2011		100	AC	899	1955
Stellenbosch	PHILANDERSTRAAT 3	13553	1		2011		75	AC	899	1965

	Stellenbosch	NORTH ENDSTRAAT 4	13343	1		2011						100	AC	899	1965				
	Stellenbosch		13364	4		2011						75	AC	899	1965				
	Stellenbosch		8024	4		2011						110	uPVC	1200	2008				
	Stellenbosch		8177	4		2011						150	AC	899	1955				
	Stellenbosch		8177	4		2011						150	AC	899	1955				
	Stellenbosch		10334	4		2011						150	AC	899	0				
	Stellenbosch		10334	4		2011						150	AC	899	0				
	Stellenbosch		10334	4		2011						150	AC	899	0				
	Stellenbosch		8726	4		2011						225	AC	899	1940				
	Stellenbosch		9527	4		2011						100	AC	899	0				
	Stellenbosch		10334	4		2011						150	AC	899	0				
	Stellenbosch		11354	4		2011						100	AC	899	1960				
	Stellenbosch		11354	4		2011						100	AC	899	1960				
	Stellenbosch	KINGSTRAAT 29	14111	1		2011						75	AC	899	1965				
	Stellenbosch		13025	4		2011						225	AC	899	1965				
	Stellenbosch		13025	4		2011						225	AC	899	1965				
	Stellenbosch		11690	4		2011						75	AC	899	0				
	Stellenbosch		11690	4		2011						75	AC	899	0				
	Stellenbosch	FEBRUARYSTRAAT 46	12629	1		2011						75	AC	899	1965				
	Stellenbosch		13025	4		2011						225	AC	899	1965				
	Stellenbosch		14111	4		2011						75	AC	899	1965				
	Stellenbosch		11792	4		2011						75	AC	899	1965				
	Stellenbosch		13025	4		2011						225	AC	899	1965				
	Stellenbosch		13997	4		2011						150	AC	899	1965				
	Stellenbosch		13025	4		2011						225	AC	899	1965				
	Stellenbosch		15770	4		2011						150	AC	899	1945				
	Stellenbosch		16172	4		2011						100	AC	899	1990				
	Stellenbosch		16238	4		2011						100	AC	899	1990				
	Stellenbosch		13928	4		2011						150	AC	899	1965				
	Stellenbosch	DR MALANSTRAAT 14	15770	1		2011						150	AC	899	1945				
	Stellenbosch	DR MALANSTRAAT 14	15770	1		2011						150	AC	899	1945				
	Stellenbosch	MAWETUSTRAAT 111	11114	1		2011						75	AC	899	1970				
	Stellenbosch		11516	4		2011						100	AC	899	1970				
	Stellenbosch		11579	4		2011						50	AC	899	1970				
	Stellenbosch	LUYOLOSTRAAT 105	10859	1		2011						50	AC	899	1970				
	Stellenbosch	MAWETUSTRAAT 111	11114	1		2011						75	AC	899	1970				
	Stellenbosch		15575	4		2011						110	HDPE	1250	1990				
	Stellenbosch		14846	4		2011						200	AC	899	1990				
	Stellenbosch		15104	4		2011						150	AC	899	1940				
	Stellenbosch		14726	3		2011						100	AC	899	1990				
	Stellenbosch		15575	4		2011						110	HDPE	1250	1990				
	Stellenbosch		15575	4		2011						110	HDPE	1250	1990				
	Stellenbosch	BRANDWACHTSTRAAT 30	16661	1		2011						200	AC	899	1940				
	Stellenbosch	PARKSTRAAT 21	16790	1		2011						100	AC	899	1965				
	Stellenbosch	WEGESTRAAT 7	16403	1		2011						100	AC	899	0				
	Stellenbosch		13769	4		2011						200	AC	899	1940				
	Stellenbosch		12677	4		2011						110	HDPE	1250	1990				
	Stellenbosch		12677	4		2011						110	HDPE	1250	1990				
	Stellenbosch	BORCHERDSTRAAT 3	15008	1		2011						110	HDPE	1250	1990				
	Stellenbosch		14531	3		2011						150	AC	899	1940				
	Stellenbosch		14531	3		2011						150	AC	899	1940				
	Stellenbosch	WEGESTRAAT 14	16139	1		2011						100	AC	899	0				
	Stellenbosch	ANESTASTRAAT 59	15731	1		2011						110	uPVC	1200	1985				
	Stellenbosch		15455	3		2011						75	AC	899	1940				
	Stellenbosch		15455	3		2011						75	AC	899	1940				
	Stellenbosch		14756	3		2011						75	AC	899	1990				
	Stellenbosch		14441	3		2011						150	AC	899	1940				
	Stellenbosch		14726	3		2011						100	AC	899	1990				
	Stellenbosch	SULTANSTRAAT 24	11354	1		2011						100	AC	899	1960				
	Stellenbosch	KEIFFERSTRAAT 4	11876	1		2011						100	AC	899	1960				
	Stellenbosch	MARINASINGEL 6	9527	1		2011						100	AC	899	0				
	Stellenbosch	SAFFRAANLAAN 33	10334	1		2011						150	AC	899	0				
	Stellenbosch	SULTANSTRAAT 22	11354	1		2011						100	AC	899	1960				
	Stellenbosch	MARINASINGEL 8	9527	1		2011						100	AC	899	0				
	Stellenbosch	FORELLESINGEL 12	11573	1		2011						100	AC	899	1973				
	Stellenbosch	MARINASINGEL 7	9527	1		2011						100	AC	899	0				
	Stellenbosch	MARINASINGEL 4	9407	1		2011						100	AC	899	0				
	Stellenbosch		16622	4		2011						150	AC	899	1990				
	Stellenbosch		16133	4		2011						150	AC	899	1990				
	Stellenbosch		16721	4		2011						100	AC	899	1990				
	Stellenbosch		16403	3		2011						100	AC	899	0				
	Stellenbosch		15605	4		2011						200	AC	899	1940				
	Stellenbosch		16304	4		2011						150	AC	899	1998				
	Stellenbosch	ROKEWOODLAAN 18	12341	1		2011						150	AC	899	1960				
	Stellenbosch	SULTANSTRAAT 5	11351	1		2011						100	AC	899	1960				

Stellenbosch	SAFFRAANLAAN 31	10334	1		2011		150	AC	899	0
Stellenbosch	CULEMBORGSTRAAT 9	10586	1		2011		75	AC	899	0
Stellenbosch		16721	4		2011		100	AC	899	1990
Stellenbosch		11216	4		2011		90	uPVC	1200	1998
Stellenbosch		11510	4		2011		75	AC	899	1965
Stellenbosch		11510	4		2011		75	AC	899	1965
Stellenbosch		22193	4		2011		450	UNK	899	0
Stellenbosch		22193	4		2011		450	UNK	899	0
Stellenbosch		21161	4		2011		250	UNK	899	0
Stellenbosch		19895	3		2012		355	UNK	899	1990
Stellenbosch		10619	3		2012		50	AC	899	1970
Stellenbosch		11690	4		2012		75	AC	899	0
Stellenbosch	EIKESTRAAT 2	14288	1		2012		100	AC	899	1965
Stellenbosch	MENGOSTRAAT 7	11156	1		2012		50	AC	899	1970
Stellenbosch		12566	2		2012		75	AC	899	1975
Franschhoek		40960	3		2011		75	UNK	899	0
Franschhoek		43055	3		2011		75	UNK	899	0
Franschhoek		41010	4		2011		100	UNK	899	0
Dwars River		30115	2		2011		75	AC	899	0
Stellenbosch		21425	2		2011		250	UNK	899	0
Franschhoek		40960	3		2011		75	UNK	899	0
Stellenbosch		21161	4		2011		250	UNK	899	0
Stellenbosch		21161	4		2011		250	UNK	899	0
Stellenbosch		21860	4		2011		315	uPVC	1200	2000
Franschhoek		43145	4		2011		100	UNK	899	0
Franschhoek		41151	4		2011		150	AC	899	0
Stellenbosch	54 Saffraan st	9440	1	18/04/2013	2013	H/W/P	150	AC	899	0
Stellenbosch	8 Collumborg	10586	1	22/05/2013	2013	H/W/P	75	AC	899	0
Stellenbosch	Eldoraod st	9149	3	01/04/2013	2013	H/W/P	150	AC	899	0
Stellenbosch	18 Kleinvallei	8465	1	06/08/2013	2013	H/W/P	110	HDPE	1250	2012
Stellenbosch	7 Bokmakierie	8453	1	10/09/2013	2013	H/W/P	110	HDPE	1250	1965
Stellenbosch	8 Flamingo	8330	1	30/09/2013	2013	H/W/P	150	AC	899	1965
Stellenbosch	88 Saffraan	10334	1	07/07/2013	2013	H/W/P	150	AC	899	0
Stellenbosch	10 Collum Borg	10586	1	17/06/2013	2013	H/W/P	75	AC	899	0
Stellenbosch		8177	4		2012		150	AC	899	1955
Stellenbosch		11399	4		2012		100	AC	899	1965
Stellenbosch		11516	4		2012		100	AC	899	1970
Stellenbosch		14288	4		2012		100	AC	899	1965
Stellenbosch		15770	4		2012		150	AC	899	1945
Stellenbosch		19736	4		2012		150	AC	899	1990
Stellenbosch	67 Webersvalley	10718	1	04/06/2013	2013	H/W/P	75	AC	899	1975
Stellenbosch	16 Florida	13490	1	19/12/2013	2013	H/W/P	160	uPVC	1200	1985
Stellenbosch	Tegno st	8513	3	26/05/2013	2013	H/W/P	110	uPVC	899	1985
Stellenbosch	Webers Valley Rd	10904	3	18/01/2013	2013	H/W/P	75	AC	899	1975
Stellenbosch		18194	4		2011		200	AC	899	1990
Stellenbosch		18638	4		2011		100	AC	899	1990
Stellenbosch		19583	4		2011		315	UNK	899	1990
Stellenbosch		20024	2		2011		100	AC	899	1990
Stellenbosch		19895	3		2011		355	UNK	899	1990
Stellenbosch		18536	4		2011		75	AC	899	1990
Stellenbosch		20300	4		2011		400	AC	899	1990
Stellenbosch		19877	4		2011		150	AC	899	1990
Stellenbosch		19877	4		2011		150	AC	899	1990
Stellenbosch		19877	4		2011		150	AC	899	1990
Stellenbosch		19187	4		2011		100	AC	899	1990
Stellenbosch		19400	4		2011		355	UNK	899	0
Klapmuts	WILLIAMSSTRAAT 22	50350	1		2011		200	uPVC	1200	0
Stellenbosch		13826	4		2011		150	AC	899	1965
Stellenbosch		11930	4		2011		100	AC	899	1965
Stellenbosch		12185	4		2011		100	AC	899	1965
Stellenbosch	PROVINSIELAAN 14	20300	1		2011		400	AC	899	1990
Stellenbosch	RHEEZICHTLAAN 3	20291	1		2011		75	AC	899	1990
Stellenbosch	DU PLESSISSTRAAT 3	19955	1		2011		100	AC	899	1990
Stellenbosch	VAN DER STELSTRAAT 44	19298	1		2011		225	AC	899	1990
Stellenbosch	POOLSTRAAT 11	13802	1		2011		110	uPVC	1200	1965
Stellenbosch	CHIPPENDALESTRAAT 48	12188	1		2011		100	AC	899	1965
Stellenbosch	TALANASTRAAT 4	21821	1		2011		150	AC	899	1980
Stellenbosch	LANGSTRAAT 136	13388	1		2011		150	AC	899	1965
Stellenbosch	STELLITAPARK 24	11879	1		2011		75	AC	899	1965
Stellenbosch	STELLITAPARK 1	11510	1		2011		75	AC	899	1965
Stellenbosch	RHEEZICHTLAAN 9	20051	1		2011		225	AC	899	1940
Stellenbosch	RHEEZICHTLAAN 8	20249	1		2011		225	AC	899	1940
Stellenbosch	ZWAANSWYKLAAN 14	20294	1		2011		75	AC	899	1990
Stellenbosch	BOSCH-EN-DALLAAN 1	20222	1		2011		100	AC	899	1990
Dwars River	WILLIAMSSTRAAT 20	30455	1		2011		75	AC	899	0

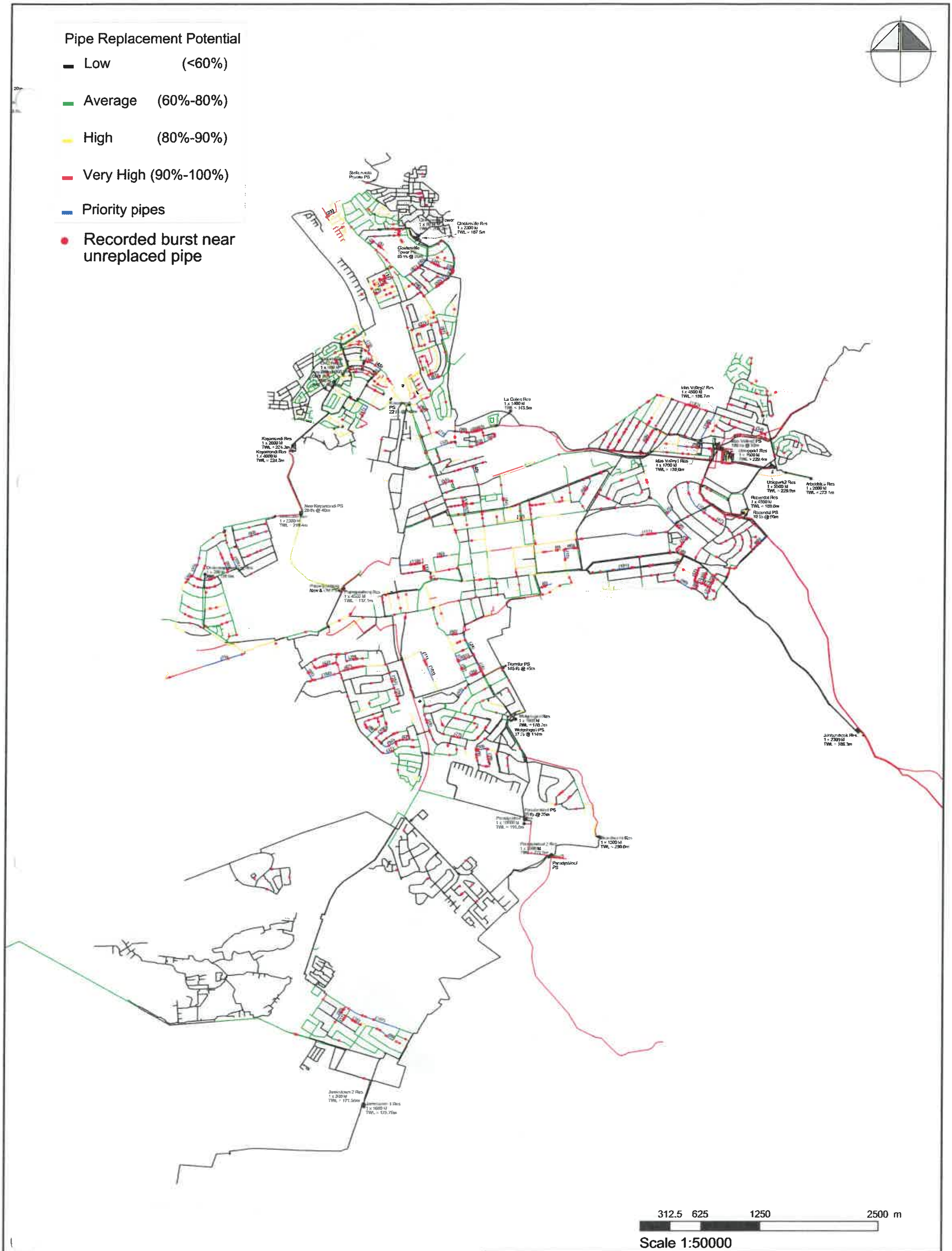
Stellenbosch	ERASMUS SMITSTRAAT 39	19505	1		2011		75	uPVC	899	2010
Stellenbosch		20171	3		2011		75	AC	899	1945
Stellenbosch		20171	3		2011		75	AC	899	1945
Stellenbosch		19877	4		2011		150	AC	899	1990
Stellenbosch	BOTMASKOPWEG 22	19527	1		2011		315	UNK	899	1990
Stellenbosch	ERASMUS SMITSTRAAT 9	19505	1		2011		75	uPVC	899	2010
Stellenbosch		19505	4		2011		75	uPVC	899	2010
Stellenbosch		20258	4		2011		100	AC	899	1945
Stellenbosch	DAVYSTRAAT 83	21782	1		2011		150	AC	899	1980
Stellenbosch		19655	4		2011		100	AC	899	1945
Stellenbosch		18884	4		2011		300	AC	899	1965
Stellenbosch	Dan Pienaar	15797	3	19/09/2014	2014	H/W/P	100	AC	899	1990
Stellenbosch	Dr Malan	15770	2	26/09/2014	2014	H/W/P	150	AC	899	1945
Stellenbosch	Sylvia	14054	3	03/10/2014	2014	H/W/P	110	uPVC	899	2000
Stellenbosch	Dr Malan	15770	2	06/09/2014	2014	H/W/P	150	AC	899	1945
Stellenbosch	A.F.Louw Skool	14584	1	08/09/2014	2014	H/W/P	100	AC	899	1945
Stellenbosch	Dr Malan	15770	2	17/09/2014	2014	H/W/P	150	AC	899	1945
Stellenbosch	Rhode	13676	2	23/10/2014	2014	H/W/P	225	AC	899	1965
Stellenbosch	Valentyn	14609	3	29/10/2014	2014	H/W/P	110	uPVC	1200	1965
Stellenbosch	School crecent	11024	3	13/11/2014	2014	H/W/P	100	AC	899	1980
Stellenbosch	Dr Malan	15770	2	04/10/2014	2014	H/W/P	150	AC	899	1945
Stellenbosch	5 Isaac	14858	1	20/10/2014	2014	H/W/P	75	AC	899	1965
Stellenbosch	9 King	14738	1	22/10/2014	2014	H/W/P	75	AC	899	1965
Stellenbosch	Dan Pinaar	15797	3	29/06/2014	2014	H/W/P	100	AC	899	1990
Stellenbosch	North End	13589	3	24/07/2014	2014	H/W/P	100	AC	899	1965
Stellenbosch	Hercules st	11828	3	02/08/2014	2014	H/W/P	75	AC	899	1965
Stellenbosch	Rhode/Raziet	13223	2	06/06/2014	2014	H/W/P	75	HDPE	1250	1965
Stellenbosch	Lang/North End	14495	2	26/06/2014	2014	H/W/P	100	AC	899	1965
Stellenbosch	Everberry	10991	3	28/06/2014	2014	H/W/P	110	uPVC	1200	2010
Stellenbosch	King/Williams	14738	2	18/08/2014	2014	H/W/P	75	AC	899	1965
Stellenbosch	23 Cupido	12005	1	27/08/2014	2014	H/W/P	75	AC	899	1965
Stellenbosch	Tongaat st	11897	3	07/08/2014	2014	H/W/P	110	uPVC	899	1984
Stellenbosch	21 Omega st	21698	1	01/08/2014	2014	H/W/P	100	AC	899	1960
Stellenbosch	Williams/King	14738	2	08/12/2014	2014	H/W/P	75	AC	899	1965
Stellenbosch	Ismail	12002	3	15/12/2014	2014	H/W/P	75	AC	899	1965
Klapmuts	Jacob st	50370	3	13/07/2014	2014	H/W/P	110	uPVC	1200	0
Stellenbosch	Febuary	11819	2	27/11/2014	2014	H/W/P	150	AC	899	1965
Stellenbosch	9 King	14738	1	28/11/2014	2014	H/W/P	75	AC	899	1965
Stellenbosch	23 King	14111	1	06/12/2014	2014	H/W/P	75	AC	899	1965
Stellenbosch	Hammanshand	18680	3	19/06/2014	2014	H/W/P	250	AC	899	1940
Stellenbosch	5 Verreweide	19190	1	29/07/2014	2014	H/W/P	100	AC	899	1990
Stellenbosch	21 Borcherd	15008	1	02/12/2014	2014	H/W/P	110	HDPE	1250	1990
Stellenbosch	Joubert st	16757	3	17/05/2014	2014	H/W/P	100	AC	899	1990
Stellenbosch	Verreweide st	19190	3	30/05/2014	2014	H/W/P	100	AC	899	1990
Stellenbosch	70 Dahlia	20285	1	19/04/2014	2014	H/W/P	300	AC	899	1965
Stellenbosch	Khaler st	19691	3	17/05/2014	2014	H/W/P	75	AC	899	1945
Stellenbosch	Martinson/Simons wyk	19766	2	06/06/2014	2014	H/W/P	150	AC	899	1990
Stellenbosch	9 Johnson st	20393	1	20/01/2014	2014	H/W/P	110	uPVC	1200	2012
Stellenbosch	Oranje st	20207	3	27/01/2014	2014	H/W/P	150	AC	899	1965
Stellenbosch	Ryneveld/Banghoek	16184	2	20/08/2014	2014	H/W/P	100	AC	899	1990
Stellenbosch	65 Borcherd	15575	1	10/09/2014	2014	H/W/P	110	HDPE	1250	1990
Stellenbosch	Langenhoven	14726	3	12/09/2014	2014	H/W/P	100	AC	899	1990
Stellenbosch	Langenhoven	14726	3	15/07/2014	2014	H/W/P	100	AC	899	1990
Stellenbosch	Denneaig st	13046	3	21/07/2014	2014	H/W/P	90	HDPE	1250	1990
Stellenbosch	Molteno st	14033	3	24/07/2014	2014	H/W/P	90	HDPE	1250	1990
Stellenbosch	Borcherd st	15575	3	01/10/2014	2014	H/W/P	110	HDPE	1250	1990
Stellenbosch	Borcherd st	15575	3	15/11/2014	2014	H/W/P	110	HDPE	1250	1990
Stellenbosch	Ryneveld/Banhoek	16184	2	16/11/2014	2014	H/W/P	100	AC	899	1990
Stellenbosch	Borcherd st	15575	3	24/09/2014	2014	H/W/P	110	HDPE	1250	1990
Stellenbosch	Molteno st	14033	3	21/09/2014	2014	H/W/P	90	HDPE	1250	1990
Stellenbosch	North End	13589	3	09/04/2014	2014	H/W/P	100	AC	899	1965
Stellenbosch	Eike st	14291	3	14/04/2014	2014	H/W/P	110	uPVC	1200	1965
Stellenbosch	112 Eike st	14291	1	07/05/2014	2014	H/W/P	110	uPVC	1200	1965
Stellenbosch	60 Lang suid	14657	2	20/02/2014	2014	H/W/P	150	AC	899	1965
Stellenbosch	22 Tannant	13646	1	03/04/2014	2014	H/W/P	150	AC	899	1965
Stellenbosch	Masithandane	11516	3	03/04/2014	2014	H/W/P	100	AC	899	1970
Stellenbosch	38 Pacham st	21704	1	26/05/2014	2014	H/W/P	100	AC	899	1980
Stellenbosch	Williams/Hendrickse	14087	2	02/06/2014	2014	H/W/P	100	AC	899	1965
Stellenbosch	7 Hendrickse	14087	1	04/06/2014	2014	H/W/P	100	AC	899	1965
Stellenbosch	17 McCoy st	21785	2	22/05/2014	2014	H/W/P	100	AC	899	1945
Stellenbosch	Stellita Park	11726	3	16/05/2014	2014	H/W/P	75	AC	899	1965
Stellenbosch	Provinsie	20693	3	01/11/2014	2014	H/W/P	110	uPVC	1200	2006
Stellenbosch	Unie/Transvalia	19961	2	12/11/2014	2014	H/W/P	110	uPVC	1200	2002
Stellenbosch	30 Kahler	19691	1	23/12/2014	2014	H/W/P	75	AC	899	1945
Stellenbosch	20 Bakker st	19439	1	06/08/2014	2014	H/W/P	75	uPVC	899	2010

Stellenbosch	Martinson/Unie	19880	2	02/10/2014	2014	H/W/P	150	AC	899	1965
Stellenbosch	Tennant st	13646	1	25/01/2014	2014	H/W/P	150	AC	899	1965
Stellenbosch	Bell st	14612	3	18/02/2014	2014	H/W/P	150	AC	899	0
Stellenbosch	9 Adelaar st	8084	1	12/02/2014	2014	H/W/P	150	AC	899	1965
Stellenbosch	La Colline weg	15308	3	10/01/2014	2014	H/W/P	100	AC	899	1990
Stellenbosch	2 Hercules	11855	1	01/01/2014	2014	H/W/P	75	AC	899	1965
Stellenbosch	Alexander/Bergzight	14042	2	13/06/2015	2015	H/W/P	100	AC	899	1990
Stellenbosch	3 Herold st	12698	1	11/02/2015	2015	H/W/P	100	AC	899	1940
Stellenbosch	Dorp/R44	12251	2	24/02/2015	2015	H/W/P	150	AC	899	1940
Stellenbosch	17 Du Toit st	12677	1	24/02/2015	2015	H/W/P	110	HDPE	1250	1990
Stellenbosch	79 Lovel laan	12041	1	12/02/2015	2015	H/W/P	100	AC	899	1960
Stellenbosch	79 Lovel laan	12041	1	17/02/2015	2015	H/W/P	100	AC	899	1960
Stellenbosch	Santa Rosa	11180	3	20/02/2015	2015	H/W/P	110	uPVC	900	2011
Stellenbosch	Saffraan/Rokewood	12182	2	27/06/2015	2015	H/W/P	150	AC	899	0
Stellenbosch	Du Toit st	14513	3	27/06/2015	2015	H/W/P	150	AC	899	1940
Stellenbosch	Doornbosch	13976	1	25/07/2015	2015	H/W/P	150	AC	899	1940
Stellenbosch	Rokewood st	10583	3	13/05/2015	2015	H/W/P	160	uPVC	1200	2012
Stellenbosch	Culmborg	10586	3	24/05/2015	2015	H/W/P	75	AC	899	0
Stellenbosch	1 Lovell laan	10115	1	24/05/2015	2015	H/W/P	100	AC	899	0
Stellenbosch	Adamtas Distel	8657	1	24/02/2015	2015	H/W/P	100	AC	899	1940
Stellenbosch	Adamtas/Dorp st	10727	2	27/02/2015	2015	H/W/P	100	AC	899	1940
Stellenbosch	Distillery weg	10763	3	30/04/2015	2015	H/W/P	150	AC	899	1940
Stellenbosch	Rokkewood/Kaneel	10583	2	26/07/2015	2015	H/W/P	160	uPVC	1200	2012
Stellenbosch	Distillery weg	10763	3	10/11/2015	2015	Toevo	150	AC	899	1940
Stellenbosch	7 Lovel laan	10118	1	01/07/2015	2015	H/W/P	100	AC	899	0
Stellenbosch	Saffraan laan	10334	1	20/06/2015	2015	H/W/P	150	AC	899	0
Stellenbosch	12 Rokewood	12515	1	24/05/2015	2015	H/W/P	150	AC	899	1960
Stellenbosch	13 Woltemade	12047	1	05/08/2015	2015	H/W/P	100	AC	899	1960
Stellenbosch	Keiffer/Sultan	11687	2	02/09/2015	2015	H/W/P	100	AC	899	1960
Stellenbosch	12 Lovel laan	10358	1	23/03/2015	2015	H/W/P	160	uPVC	900	2011
Stellenbosch	Lang R44	12809	1	12/04/2015	2015	H/W/P	450	AC	899	0
Stellenbosch	Saffraan/Eldorado	9149	2	13/05/2015	2015	H/W/P	150	AC	899	0
Stellenbosch	Koch st	15365	3	14/05/2015	2015	H/W/P	100	AC	899	1940
Stellenbosch	Koch/Cruse	15557	2	16/05/2015	2015	H/W/P	100	AC	899	1940
Stellenbosch	Piet retief/Vrede	15605	2	20/05/2015	2015	H/W/P	200	AC	899	1940
Stellenbosch	10 Vrede st	15701	1	30/04/2015	2015	H/W/P	75	AC	899	1940
Stellenbosch	De Wet st	14642	1	29/11/2015	2015	H/W/P	100	AC	899	0
Stellenbosch	11 Berry st	14153	1	23/02/2015	2015	H/W/P	150	AC	899	1965
Stellenbosch	21 Berry laan	14447	1	26/02/2015	2015	H/W/P	160	uPVC	899	2012
Stellenbosch	18 Hoep Hoep st	8303	1	26/02/2015	2015	H/W/P	100	AC	899	1955
Stellenbosch	14 Peeka st	12755	1	23/02/2015	2015	H/W/P	150	AC	899	1973
Stellenbosch	73 Lovel laan	12041	1	23/02/2015	2015	H/W/P	100	AC	899	1960
Stellenbosch	30 Binnekring	14870	1	23/02/2015	2015	H/W/P	100	AC	899	1965
Stellenbosch	95 Lovel laan	12743	1	26/02/2015	2015	H/W/P	100	AC	899	1960
Stellenbosch	97 Lovel laan	12743	1	27/02/2015	2015	H/W/P	100	AC	899	1960
Stellenbosch	28 Woltemade	13298	1	20/03/2015	2015	H/W/P	110	uPVC	1200	2012
Stellenbosch	34 Berry laan	14447	1	26/02/2015	2015	H/W/P	160	uPVC	899	2012
Stellenbosch	14 Berry laan	14153	1	26/02/2015	2015	H/W/P	150	AC	899	1965
Stellenbosch	12 Hoep-Hoep	8249	1	03/02/2015	2015	H/W/P	100	AC	899	1955
Stellenbosch	1 Dgbreek st	8426	1	11/02/2015	2015	H/W/P	150	AC	899	1965
Stellenbosch	Tarantaal/Keikewyn	8411	2	24/02/2015	2015	H/W/P	100	AC	899	1955
Stellenbosch	5 Dagbreek	8426	1	16/03/2015	2015	H/W/P	150	AC	899	1965
Stellenbosch	1 Dagbreek	8426	1	08/01/2015	2015	H/W/P	150	AC	899	1965
Stellenbosch	Jan Frederik	22571	3	23/01/2015	2015	H/W/P	110	HDPE	1250	2012
Stellenbosch	31 Ostara	10079	1	12/02/2015	2015	H/W/P	100	AC	899	1975
Stellenbosch	20 Pison st	15371	1	19/02/2015	2015	H/W/P	110	uPVC	1200	1985
Stellenbosch	22 Pison st	15371	1	19/02/2015	2015	H/W/P	110	uPVC	1200	1985
Stellenbosch	8 Flamingo	8330	1	22/03/2015	2015	H/W/P	150	AC	899	1965
Stellenbosch	Adamtas/Devonvally	8117	2	23/05/2015	2015	H/W/P	100	AC	899	1940
Stellenbosch	Faber st	19004	3	11/02/2015	2015	H/W/P	75	HDPE	1250	1965
Stellenbosch	Nared	10754	1	08/11/2015	2015	H/W/P	75	AC	899	1975
Stellenbosch	18 Kleinvallei	8465	1	13/06/2015	2015	H/W/P	110	HDPE	1250	2012
Stellenbosch	Langenhoven	14726	1	24/07/2015	2015	H/W/P	100	AC	899	1990
Stellenbosch	Jamestown Hoerskool	75020	1	02/11/2015	2015	H/W/P	250	AC	899	2001
Stellenbosch	Rorine st	10754	1	06/11/2015	2015	H/W/P	75	AC	899	1975
Stellenbosch	21 Rorine	10754	1	08/11/2015	2015	H/W/P	75	AC	899	1975
Stellenbosch	1 Borcherd	15011	1	24/05/2015	2015	H/W/P	160	HDPE	1250	1990
Stellenbosch	Rokewood	10583	3	08/01/2015	2015	H/W/P	160	uPVC	1200	2012
Stellenbosch	8 Kleinvallei	8465	1	12/02/2015	2015	H/W/P	110	HDPE	1250	2012
Stellenbosch	Jancillier	14852	2	12/02/2015	2015	H/W/P	100	AC	899	1940
Stellenbosch	Drukkers laan	14303	1	02/10/2015	2015	H/W/P	200	AC	899	1990
Stellenbosch	5 Everbearing	10508	1	02/04/2015	2015	H/W/P	75	AC	899	1975
Stellenbosch	10 Elektron	8591	1	06/04/2015	2015	H/W/P	110	uPVC	899	1985
Stellenbosch	Kolbe/Leseuer	18674	2	23/02/2015	2015	H/W/P	150	AC	899	1965
Stellenbosch	14 Gidion st	15368	1	26/02/2015	2015	H/W/P	75	uPVC	1200	1985

Stellenbosch	23 Quantum st	8825	1	27/02/2015	2015	H/W/P	110	uPVC	899	1985
Stellenbosch	Jamestown begrafplaas	8777	1	26/05/2015	2015	H/W/P	75	UNK	899	0
Stellenbosch	Selecta st	9953	3	31/07/2015	2015	H/W/P	100	AC	899	1975
Stellenbosch	Nana st	13211	3	20/05/2015	2015	H/W/P	110	uPVC	1200	1985
Stellenbosch	James town laer skool	75020	2	11/05/2015	2015	H/W/P	250	AC	899	2001
Stellenbosch	12 Uitsig st	21674	1	17/04/2013	2013	H/W/P	110	uPVC	899	2012
Stellenbosch	19 Waterweg	21392	1	18/04/2013	2013	H/W/P	110	uPVC	899	2012
Stellenbosch	Uitsig/Waterweg	21461	2	18/05/2013	2013	H/W/P	110	uPVC	899	2012
Stellenbosch	83 Bloekomlaan	21311	1	06/03/2013	2013	H/W/P	110	uPVC	899	2012
Stellenbosch	117 Helshoogte	21662	1	14/03/2013	2013	H/W/P	110	uPVC	1200	2012
Stellenbosch	23 Lindley	20171	1	17/03/2013	2013	H/W/P	75	AC	899	1945
Stellenbosch	14 Zwaanz wyk	20141	1	25/06/2013	2013	H/W/P	75	AC	899	1990
Stellenbosch	Bloekom	20696	3	02/07/2013	2013	H/W/P	110	uPVC	899	2012
Stellenbosch	9 Libertas	20192	1	10/07/2013	2013	H/W/P	75	AC	899	1965
Stellenbosch	81 Bloekom	21311	1	02/06/2013	2013	H/W/P	110	uPVC	899	2012
Stellenbosch	12 Oranje	20207	1	07/06/2013	2013	H/W/P	150	AC	899	1965
Stellenbosch	12 Rozendal	20327	1	13/06/2013	2013	H/W/P	315	UNK	899	0
Stellenbosch	Welgevonden st	11252	3	20/01/2013	2013	H/W/P	160	uPVC	1200	2006
Stellenbosch	25 Berry st	13775	1	03/04/2013	2013	H/W/P	110	uPVC	899	2000
Dwars River	Pniel Kantoor	31220	3	01/01/2013	2013	H/W/P	75	PVC	1200	0
Stellenbosch	8 Dahlia	19853	1	27/12/2013	2013	H/W/P	75	AC	899	1945
Stellenbosch	45 Primrose	14129	1	29/12/2013	2013	H/W/P	110	uPVC	1200	1965
Stellenbosch	33 Gabriel	12308	1	30/12/2013	2013	H/W/P	75	AC	899	1965
Stellenbosch	19 Omega st	21698	1	18/02/2013	2013	H/W/P	100	AC	899	1960
Stellenbosch	121 Helshoogte	21794	1	19/02/2013	2013	H/W/P	100	AC	899	1945
Stellenbosch	22 Van coppenhagen	20897	1	06/03/2013	2013	H/W/P	110	uPVC	899	2012
Stellenbosch	5 Libertas	20192	1	09/02/2013	2013	H/W/P	75	AC	899	1965
Stellenbosch	101 Helshoogte Rd	21398	1	19/01/2013	2013	H/W/P	110	uPVC	1200	2012
Stellenbosch	Eldorado	9149	3	15/04/2014	2014	H/W/P	150	AC	899	0
Stellenbosch	Culemborg	10586	3	15/06/2014	2014	H/W/P	75	AC	899	0
Stellenbosch	7 Lovel laan	10118	1	17/06/2014	2014	H/W/P	100	AC	899	0
Stellenbosch	Eldorado	9149	3	01/06/2014	2014	H/W/P	150	AC	899	0
Stellenbosch	Adamtas/Devonvalley	8117	2	08/06/2014	2014	H/W/P	100	AC	899	1940
Stellenbosch	Bosch-en-dal	20507	2	10/08/2013	2013	H/W/P	100	AC	899	1965
Stellenbosch	97 Helshoogte	21398	1	17/08/2013	2013	H/W/P	110	uPVC	1200	2012
Stellenbosch	Mc Coy st	21695	3	06/09/2013	2013	H/W/P	100	AC	899	1945
Stellenbosch	19 Hendrik bergh	21413	1	19/07/2013	2013	H/W/P	110	uPVC	899	2012
Stellenbosch	9 Libertas	20192	1	30/07/2013	2013	H/W/P	75	AC	899	1965
Stellenbosch	5 Libertas	20192	1	07/08/2013	2013	H/W/P	75	AC	899	1965
Stellenbosch	Martinson	20279	3	30/10/2013	2013	H/W/P	160	uPVC	899	2012
Stellenbosch	Mc Coy st	21695	3	27/10/2013	2013	H/W/P	100	AC	899	1945
Stellenbosch	9 Martin	21179	1	16/10/2013	2013	H/W/P	100	AC	899	1945
Stellenbosch	Jacob/Williams	15032	2	23/03/2013	2013	H/W/P	100	AC	899	1965
Stellenbosch	Jonkershoek/Morkel	20021	2	01/04/2013	2013	H/W/P	100	AC	899	1990
Stellenbosch	Helshoogte	20033	3	02/04/2013	2013	H/W/P	110	uPVC	900	2012
Stellenbosch	10 Rhode st	13025	1	23/02/2013	2013	H/W/P	225	AC	899	1965
Stellenbosch	North end	13589	3	28/02/2013	2013	H/W/P	100	AC	899	1965
Stellenbosch	North end st	13589	3	01/03/2013	2013	H/W/P	100	AC	899	1965
Stellenbosch	Lang st	13997	3	19/04/2013	2013	H/W/P	150	AC	899	1965
Stellenbosch	Lang/North End	14495	2	26/04/2013	2013	H/W/P	100	AC	899	1965
Stellenbosch	Hof/Unie	20066	2	18/05/2013	2013	H/W/P	150	AC	899	1965
Stellenbosch	Protea/Juffernbruch	19835	2	08/04/2013	2013	H/W/P	100	AC	899	1945
Stellenbosch	Reyger/ Here singel	19643	2	09/04/2014	2013	H/W/P	100	AC	899	1990
Stellenbosch	Unie/Hof Laan	20066	2	10/04/2013	2013	H/W/P	150	AC	899	1965
Stellenbosch	Irene Park	16238	3	29/08/2013	2013	H/W/P	100	AC	899	1990
Stellenbosch	Paul Roos	16172	3	29/08/2013	2013	H/W/P	100	AC	899	1990
Stellenbosch	16 Dan Pinaar	15797	1	14/10/2013	2013	H/W/P	100	AC	899	1990
Stellenbosch	41 Tennant	13973	1	25/11/2013	2013	H/W/P	150	AC	899	1965
Stellenbosch	23 Erasmus Smit st	19505	1	18/01/2013	2013	H/W/P	75	uPVC	899	2010
Stellenbosch	Dr Malan	15770	3	28/08/2013	2013	H/W/P	150	AC	899	1945
Stellenbosch	Rustenburg	19568	3	31/01/2013	2013	H/W/P	110	uPVC	899	2010
Stellenbosch	Juffernbruch	19760	3	02/02/2013	2013	H/W/P	110	uPVC	899	2012
Stellenbosch	Endler st	19583	3	15/02/2013	2013	H/W/P	315	UNK	899	1990
Stellenbosch	Dr Malan	15770	3	18/11/2013	2013	H/W/P	150	AC	899	1945
Stellenbosch	Dr Malan	15770	3	16/11/2013	2013	H/W/P	150	AC	899	1945
Stellenbosch	Rhode st	13676	3	31/10/2013	2013	H/W/P	225	AC	899	1965
Stellenbosch	Dahlia st	19982	3	08/11/2013	2013	H/W/P	100	AC	899	1945
Stellenbosch	48 Dahlia st	19982	1	08/11/2013	2013	H/W/P	100	AC	899	1945
Stellenbosch	33 Lang-Suid	14795	1	23/08/2013	2013	H/W/P	160	HDPE	899	2012
Stellenbosch	38 William st	14888	1	28/09/2013	2013	H/W/P	75	AC	899	1965
Stellenbosch	Du Plessis	19997	3	18/11/2013	2013	H/W/P	100	AC	899	1990
Stellenbosch	Thibault	19967	3	19/11/2013	2013	H/W/P	100	AC	899	1990
Stellenbosch	Thibault	19967	3	18/11/2013	2013	H/W/P	100	AC	899	1990
Stellenbosch	Botmaskop	19979	3	14/11/2013	2013	Toevo	100	AC	899	1945
Stellenbosch	27 Bloekom	20057	1	09/06/2013	2013	H/W/P	100	AC	899	1945

	Stellenbosch	Meerlust st	20138	3	11/06/2013	2013		H/W/P					75	AC	899	1990				
	Stellenbosch	4 Keet st	20000	1	12/06/2013	2013		H/W/P					75	AC	899	1990				
	Stellenbosch	5 Raziet st	13970	1	24/05/2013	2013		H/W/P					75	HDPE	1250	1965				
	Stellenbosch	29 Bloekom	20069	1	06/06/2013	2013		H/W/P					100	AC	899	1945				
	Stellenbosch	Botmaskop	19979	3	07/06/2013	2013		H/W/P					100	AC	899	1945				
	Stellenbosch	50 William st	15032	1	11/07/2013	2013		H/W/P					100	AC	899	1965				
	Stellenbosch	21 Isaac st	14525	1	13/07/2013	2013		H/W/P					75	AC	899	1965				
	Stellenbosch	Endler st	19583	3	11/08/2013	2013		H/W/P					315	UNK	899	1990				
	Stellenbosch	Juffenburg	19760	3	03/07/2013	2013		H/W/P					110	uPVC	899	2012				
	Stellenbosch	Martinson	20279	3	25/07/2014	2014		H/W/P					160	uPVC	899	2012				
	Stellenbosch	Morkel st	20018	3	22/08/2014	2014		H/W/P					100	AC	899	1990				
	Stellenbosch	Morkel st	20018	3	22/08/2014	2014		H/W/P					100	AC	899	1990				
	Stellenbosch	Laerskool Stellenbosch	19583	1	21/05/2014	2014		H/W/P					315	UNK	899	1990				
	Stellenbosch	Morkel	20018	3	14/06/2014	2014		H/W/P					100	AC	899	1990				
	Stellenbosch	Morkel	20018	3	03/11/2014	2014		H/W/P					100	AC	899	1990				
	Stellenbosch	34 Bergh st	16034	1	02/02/2014	2014		H/W/P					100	AC	899	0				
	Stellenbosch	Martinson	20279	3	27/08/2014	2014		H/W/P					160	uPVC	899	2012				
	Stellenbosch	Meerlust	20138	3	03/10/2014	2014		H/W/P					75	AC	899	1990				
	Stellenbosch	Waterweg	21296	3	29/10/2014	2014		H/W/P					110	uPVC	899	2012				
	Stellenbosch	Thibault	19967	3	05/09/2014	2014		H/W/P					100	AC	899	1990				
	Stellenbosch	Otterkuil	20225	3	12/09/2014	2014		H/W/P					75	AC	899	1990				
	Stellenbosch	Anreith	20105	3	16/11/2014	2014		H/W/P					75	AC	899	1990				
	Stellenbosch	Die Laan/Noordwal-Oos	19079	2	16/07/2014	2014		H/W/P					75	AC	899	1990				
	Stellenbosch	5 Meerlust	20138	1	30/07/2014	2014		H/W/P					75	AC	899	1990				
	Stellenbosch	Otterkuil	20225	3	10/08/2014	2014		H/W/P					75	AC	899	1990				
	Stellenbosch	Boschendal	21185	1	31/03/2014	2014		H/W/P					100	AC	899	1965				
	Stellenbosch	van Coppenhagen	21296	3	23/04/2014	2014		H/W/P					110	uPVC	899	2012				
	Stellenbosch	Endler st	19583	3	09/05/2014	2014		H/W/P					315	UNK	899	1990				
	Stellenbosch	2 Oranje laan	20207	1	04/02/2014	2014		H/W/P					150	AC	899	1965				
	Stellenbosch	5 Rheezight	20291	1	25/12/2014	2014		H/W/P					75	AC	899	1990				
	Stellenbosch	Koch/Nelmapius	15488	2	12/09/2014	2014		H/W/P					100	AC	899	1965				
	Stellenbosch	103 Lovel laan	12575	1	14/12/2014	2014		H/W/P					100	AC	899	1960				
	Stellenbosch	21 Omega	21698	1	31/07/2014	2014		H/W/P					100	AC	899	1960				
	Stellenbosch	8 Rokewood	12515	1	06/09/2014	2014		H/W/P					150	AC	899	1960				
	Stellenbosch	4 Rokewood	12668	1	11/09/2014	2014		H/W/P					150	AC	899	1960				
	Stellenbosch	Muller st	15353	3	17/05/2014	2014		H/W/P					110	HDPE	1250	1990				
	Stellenbosch	Banhoek/Andringa	15173	2	27/05/2014	2014		H/W/P					100	AC	899	1990				
	Stellenbosch	Langenhoven/DS Botha	15218	2	12/07/2014	2014		H/W/P					100	AC	899	1990				
	Stellenbosch	Andringa/Borcherd	15572	2	15/04/2014	2014		H/W/P					100	AC	899	1990				
	Stellenbosch	Borcherd st	15575	3	30/01/2014	2014		H/W/P					110	HDPE	1250	1990				
	Stellenbosch	4 De Wet	15326	1	19/06/2014	2014		H/W/P					100	AC	899	0				
	Stellenbosch	Bergh laan	16034	3	27/06/2014	2014		H/W/P					100	AC	899	0				
	Stellenbosch	57 Whitheart	12566	1	27/06/2014	2014		H/W/P					75	AC	899	1975				
	Stellenbosch	30 Buitekring	15911	1	19/03/2014	2014		H/W/P					100	AC	899	1965				
	Stellenbosch	Faber st	19004	3	09/06/2014	2014		H/W/P					75	HDPE	1250	1965				
	Stellenbosch	Nelmapius	15488	3	12/06/2014	2014		H/W/P					100	AC	899	1965				
	Stellenbosch	Bergh/Brandwaght	16031	2	01/07/2014	2014		H/W/P					110	uPVC	899	2012				
	Stellenbosch	Woltemade	12575	3	22/07/2014	2014		H/W/P					100	AC	899	1960				
	Stellenbosch	Kolbe st	18899	3	04/08/2014	2014		H/W/P					75	HDPE	1250	1965				
	Stellenbosch	Whitheart	11891	3	28/06/2014	2014		H/W/P					75	AC	899	1975				
	Stellenbosch	11 Tayee	12737	1	27/06/2014	2014		H/W/P					75	AC	899	1975				
	Stellenbosch	5 Dagbreek	8426	1	27/12/2014	2014		H/W/P					150	AC	899	1965				
	Stellenbosch	Selecta st	10247	3	03/01/2014	2014		H/W/P					75	AC	899	1975				
	Stellenbosch	1 Selecta st	10247	1	14/01/2014	2014		H/W/P					75	AC	899	1975				
	Stellenbosch	Dagbreek	8426	3	11/12/2014	2014		H/W/P					150	AC	899	1965				
	Stellenbosch	Jan Fredrick	22571	3	15/12/2014	2014		H/W/P					110	HDPE	1250	2012				
	Stellenbosch	17 Dagbreek	8426	1	18/12/2014	2014		H/W/P					150	AC	899	1965				
	Stellenbosch	16 Tarentaal	8066	1	17/07/2014	2014		H/W/P					100	AC	899	1955				
	Stellenbosch	Piet My Vrou	8042	3	23/07/2014	2014		H/W/P					75	AC	899	1955				
	Stellenbosch	Adamtas/Vredenburg	8012	2	28/07/2014	2014		H/W/P					100	AC	899	1940				
	Stellenbosch	62 Saffraan	9275	1	25/09/2014	2014		H/W/P					150	AC	899	1973				
	Stellenbosch	Devonvallei	8024	3	14/02/2014	2014		H/W/P					110	uPVC	1200	2008				
	Stellenbosch	9 Jan fiskaal	8030	1	20/03/2014	2014		H/W/P					100	AC	899	1955				
	Stellenbosch	Aldorado	9149	3	02/11/2014	2014		H/W/P					150	AC	899	0				
	Stellenbosch	Tintinkie	8147	3	26/09/2014	2014		H/W/P					100	AC	899	1955				
	Stellenbosch	27 Saffraan	10334	1	26/09/2014	2014		H/W/P					150	AC	899	0				
	Stellenbosch	Saffraan	10334	3	30/09/2014	2014		H/W/P					150	AC	899	0				
	Stellenbosch	Pelikaan	8369	3	16/09/2014	2014		H/W/P					100	AC	899	1965				
	Stellenbosch	Dagbreek	8426	3	17/11/2014	2014		H/W/P					150	AC	899	1965				
	Stellenbosch	Kleinvallei	8465	3	11/12/2014	2014		H/W/P					110	HDPE	1250	2012				
	Stellenbosch	14 Troupan	8252	1	23/08/2014	2014		H/W/P					100	AC	899	1965				
	Stellenbosch	Marina	9527	3	31/12/2014	2014		H/W/P					100	AC	899	0				
	Stellenbosch	Hofmeyer st	18866	3	08/05/2014	2014		H/W/P					100	AC	899	1990				
	Stellenbosch	Hofmeyer st	18866	3	23/05/2014	2014		H/W/P					100	AC	899	1990				
	Stellenbosch	Hofmeyer st	18866	3	02/06/2014	2014		H/W/P					100	AC	899	1990				

Stellenbosch	Alexander	14648	3	12/09/2014	2014	H/W/P	100	AC	899	1940
Stellenbosch	Bergzight	14042	3	03/10/2014	2014	H/W/P	100	AC	899	1990
Stellenbosch	Hofmeyer st	18866	3	28/01/2014	2014	H/W/P	100	AC	899	1990
Stellenbosch	5 Libertas	20192	1	04/05/2014	2014	H/W/P	75	AC	899	1965
Stellenbosch	Coetzenburg	19037	3	18/05/2014	2014	H/W/P	75	AC	899	1940
Stellenbosch	34 Die Laan	18536	1	14/07/2014	2014	H/W/P	75	AC	899	1990
Stellenbosch	Hofmeyer st	18866	3	27/09/2014	2014	H/W/P	100	AC	899	1990
Stellenbosch	Neethling	17477	3	24/08/2014	2014	H/W/P	150	AC	899	1990
Stellenbosch	10 Vrede	15701	1	30/07/2014	2014	H/W/P	75	AC	899	1940
Stellenbosch	Vrede/Piet Retief	16052	2	22/08/2014	2014	H/W/P	150	AC	899	1940
Stellenbosch	Vrede/Strand	15701	2	02/09/2014	2014	H/W/P	75	AC	899	1940
Stellenbosch	Aan de Wagen	13082	3	08/04/2014	2014	H/W/P	150	AC	899	1940
Stellenbosch	Papegaai st	13178	3	20/05/2014	2014	H/W/P	50	AC	899	1940
Stellenbosch	Pietretief/Vrede	16052	2	24/06/2014	2014	H/W/P	150	AC	899	1940
Stellenbosch	Skone uitsig	14441	3	15/10/2014	2014	H/W/P	150	AC	899	1940
Stellenbosch	Doornbosch	13976	3	27/11/2014	2014	H/W/P	150	AC	899	1940
Stellenbosch	Bird/Alexander	15284	2	22/06/2014	2014	H/W/P	100	AC	899	1990
Stellenbosch	Suidwal	15104	3	20/09/2014	2014	H/W/P	150	AC	899	1940
Stellenbosch	Piet Retief	16052	2	07/09/2014	2014	H/W/P	150	AC	899	1940



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Pipe replacement study Stellenbosch

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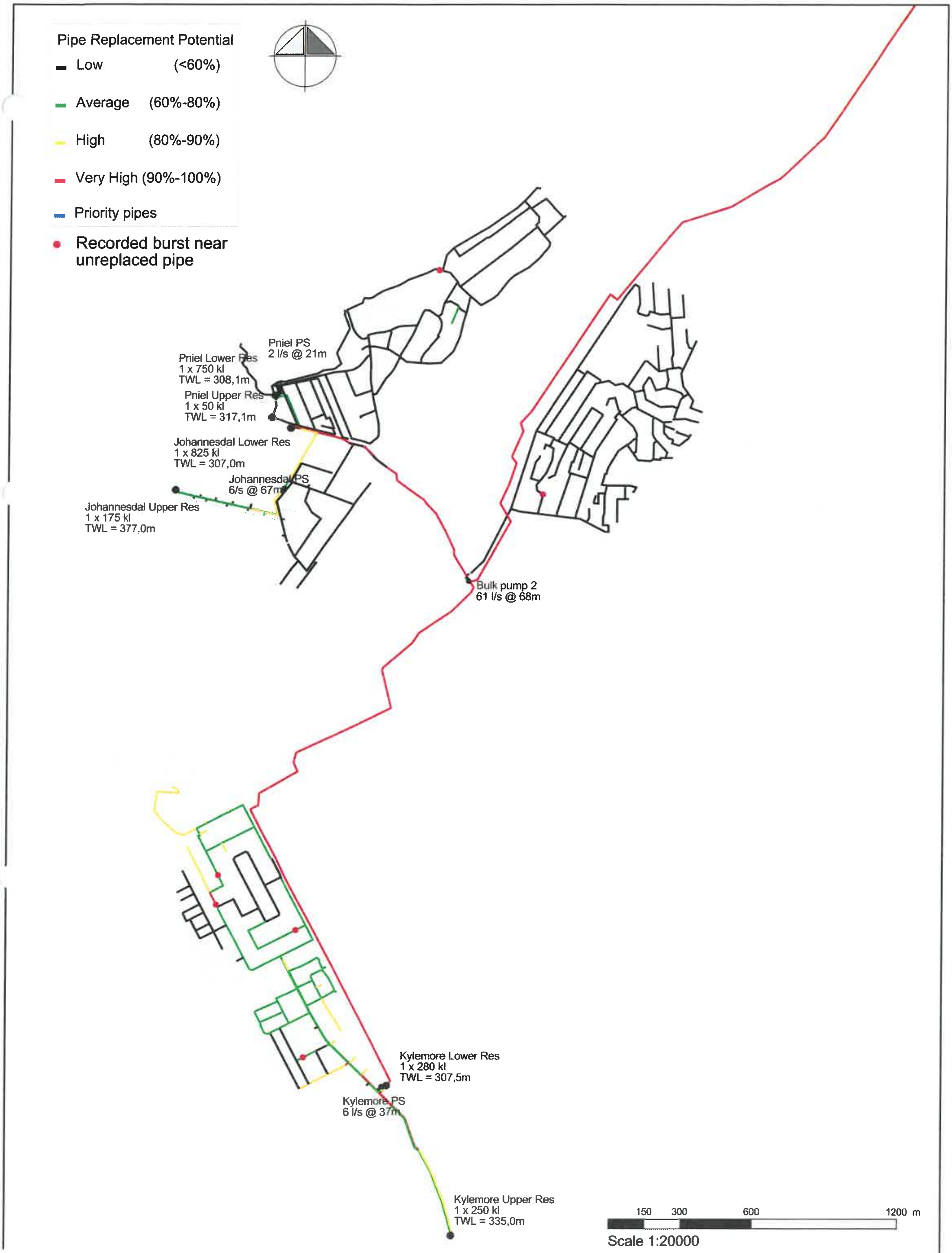
Figure SRW 1 (a)

Pipe replacement potential for Stellenbosch



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Pipe replacement study Stellenbosch

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Figure SRW 1 (b)

Pipe replacement potential for Dwars River

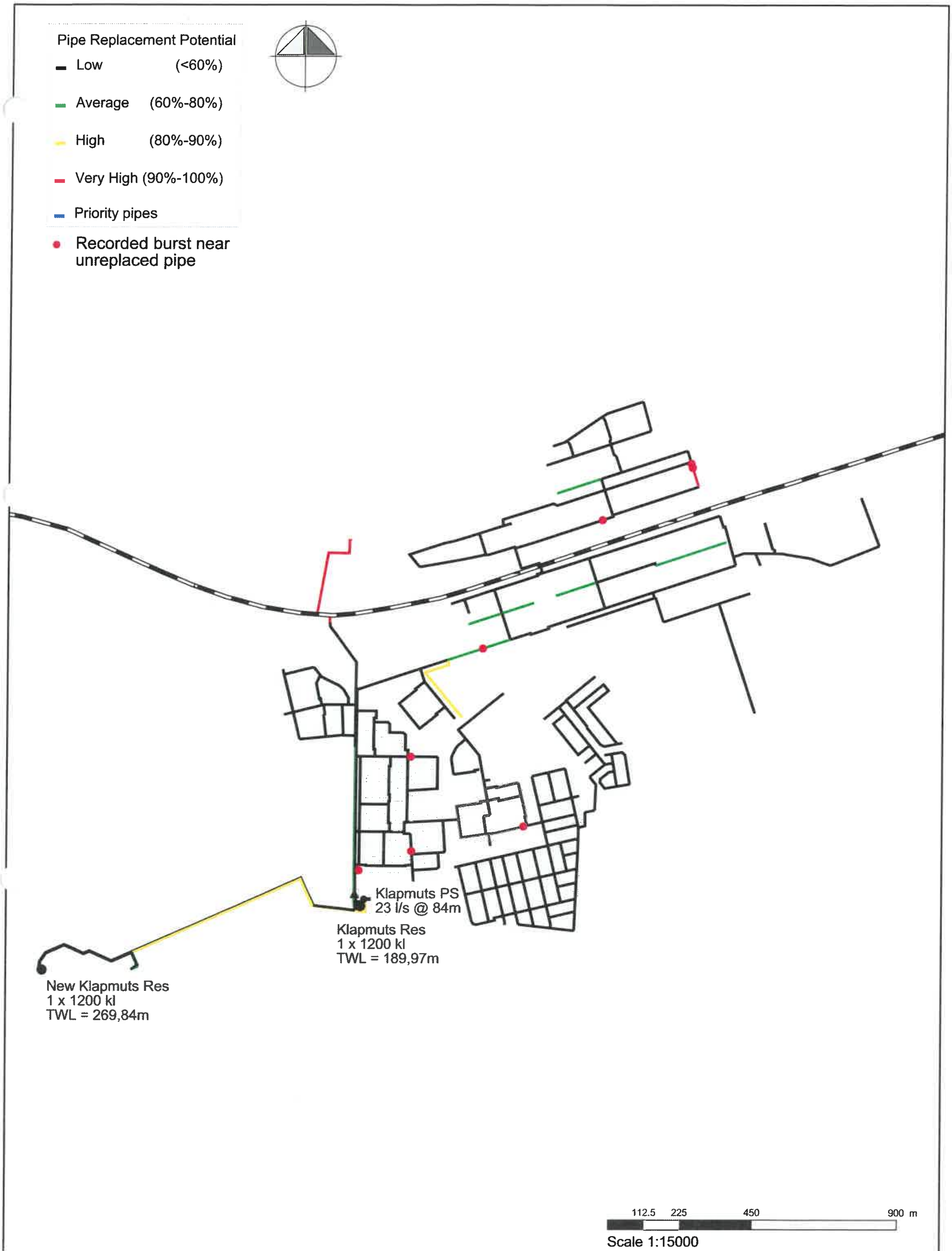

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Figure SRW 1 (c)

Pipe replacement potential for Klapmuts

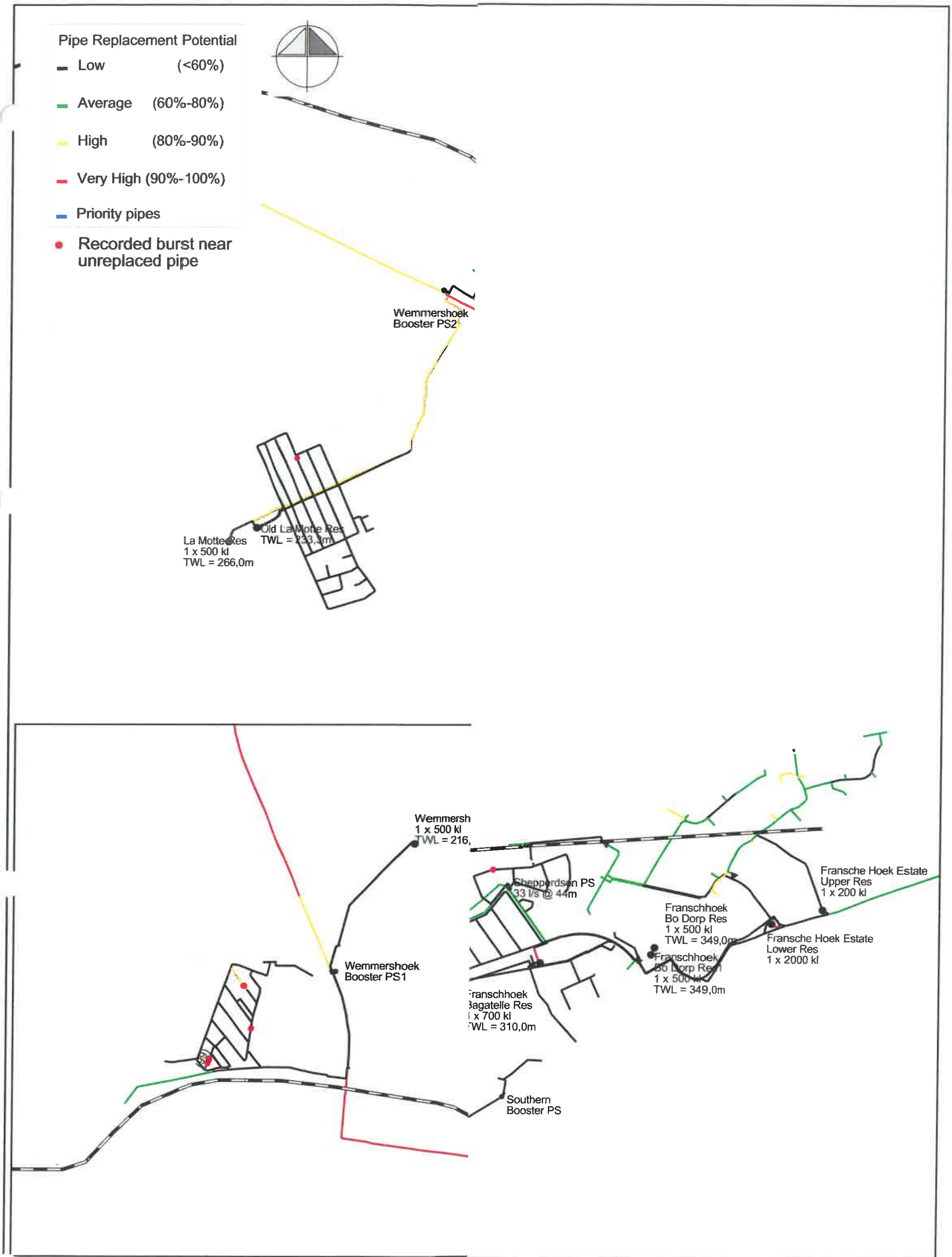

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Figure SRW 1 (d)

Pipe replacement potential for Franschhoek

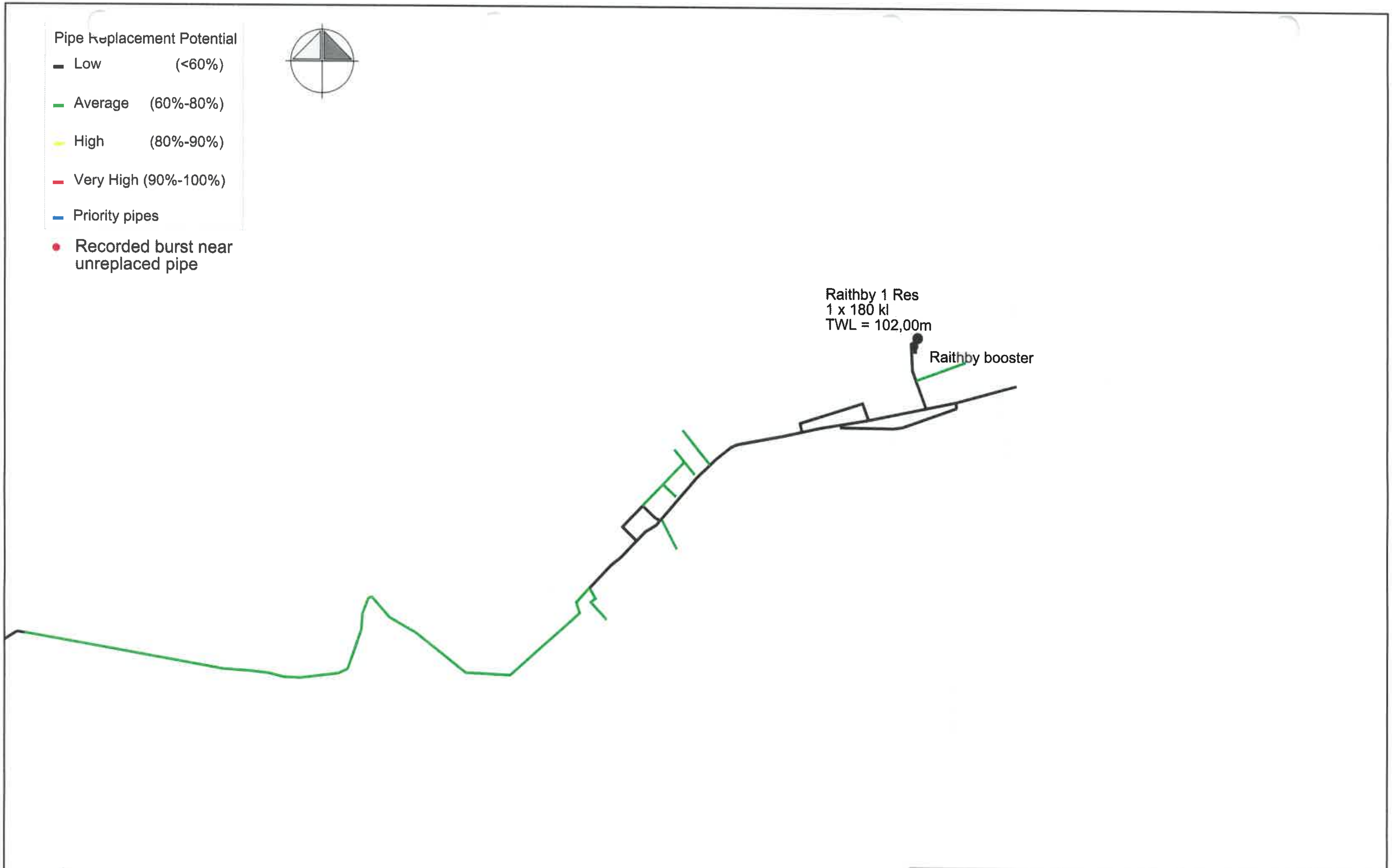

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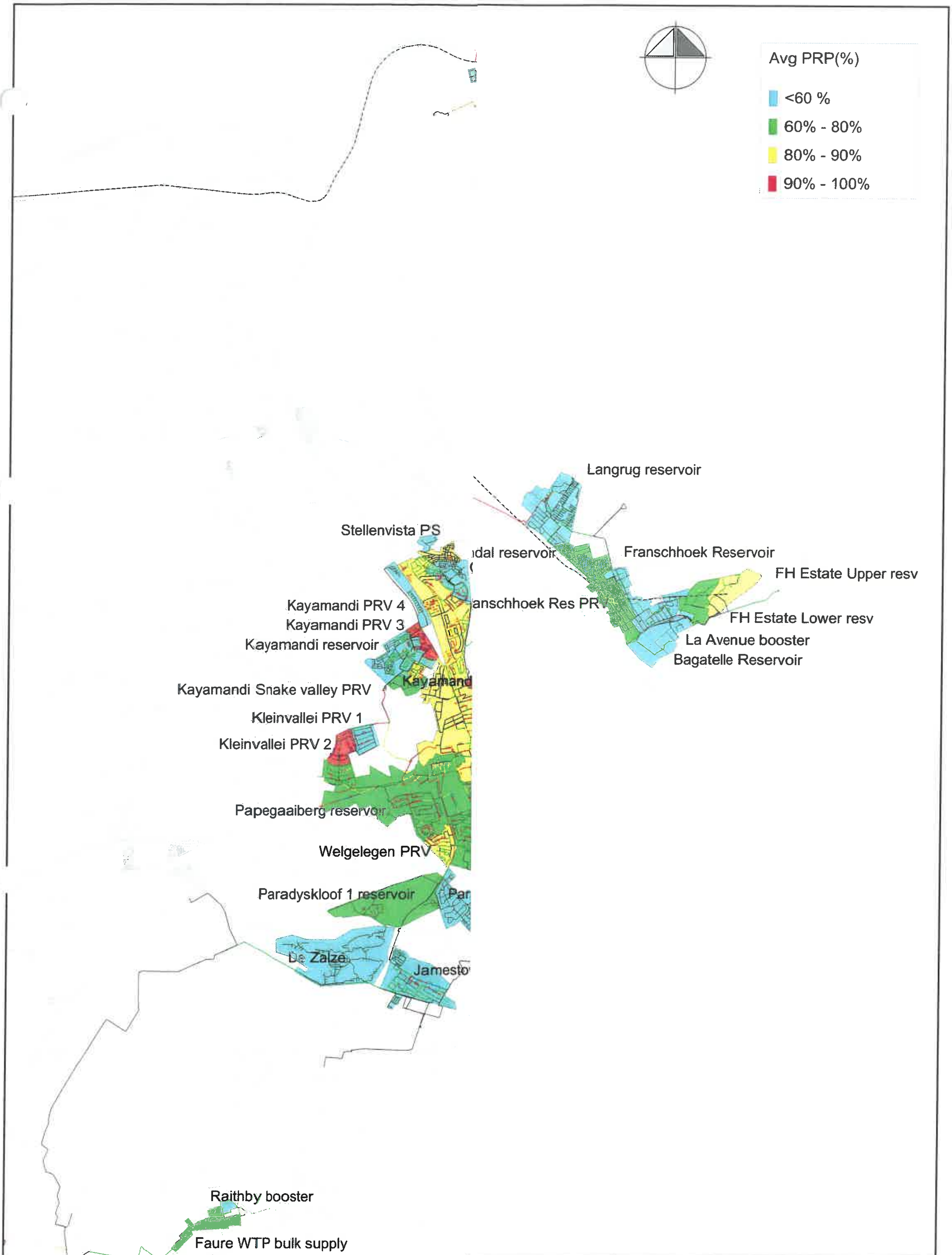
Figure SRW 1 (e)

Pipe replacement potential for Raithby



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Pipe replacement study Stellenbosch

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Figure SRW 2

Pipe length weighted average PRP per Region (%)

LF weights				
Property	Weight	MaxRULDel	RULZeroPos	RULMode
L_NomDiam	5.4	25	3	1
L_ResPR	2.6	25	3	1
L_CRUL	4.6	25	3	1
L_MPItem	1.4	25	3	1
L_FailFreq	8.9	25	3	1
L_Material	7.1	25	3	1
L_Conditn	5	25	3	1

CF Weights	
Property	Weight
C_ConLossH	2.2
C_ConLossQ	2.2
C_RepCost	3.5
C_RoadSlpe	7.3
C_StratLoc	6
C_NWRedund	7.3
C_PMS	0

LF Legend				
Property	Criteria	Rating	Count	CountP
L_NomDiam	0.001	2.5	0	0.0
L_NomDiam	50	5.0	309	4.4
L_NomDiam	76	4.0	639	9.0
L_NomDiam	98.9	3.0	69	1.0
L_NomDiam	99	2.5	252	3.6
L_NomDiam	110	3.0	2697	38.2
L_NomDiam	160	2.0	1587	22.5
L_NomDiam	250	1.0	961	13.6
L_NomDiam	400	0.5	474	6.7
L_NomDiam	10000	0.1	73	1.0
L_ResPR	0.0	0.1	287	4.1
L_ResPR	0.25	1.0	641	9.1
L_ResPR	0.5	2.0	2006	28.4
L_ResPR	0.75	3.0	2242	31.8
L_ResPR	0.999	4.0	1697	24.0
L_ResPR	10000	5.0	188	2.7
L_CRUL	-100	5.0	0	0.0
L_CRUL	0	5.0	1934	27.4
L_CRUL	10	4.0	1837	26.0
L_CRUL	20	3.0	1086	15.4
L_CRUL	30	2.0	396	5.6
L_CRUL	50	1.0	832	11.8
L_CRUL	10000	0.1	976	13.8
L_MPItem		3.0	7061	100.0
L_MPItem	FS	3.0	0	0.0
L_MPItem	MP	5.0	0	0.0
L_FailFreq	0.00	0.1	6508	92.2
L_FailFreq	1	0.5	121	1.7
L_FailFreq	2	1.0	163	2.3
L_FailFreq	3	3.0	87	1.2
L_FailFreq	4	4.0	48	0.7
L_FailFreq	10000	5.0	134	1.9
L_Material	AC	5.0	2897	41.0
L_Material	CI	3.0	13	0.2
L_Material	COPPER	5.0	0	0.0
L_Material	DI	1.0	2	0.0
L_Material	FC	5.0	0	0.0
L_Material	GRP	1.0	0	0.0
L_Material	HDPE	1.0	229	3.2
L_Material	LDPE	2.0	0	0.0
L_Material	MPVC	2.0	0	0.0
L_Material	OPVC	2.0	0	0.0
L_Material	PVC	2.0	402	5.7
L_Material	POLY	4.0	0	0.0
L_Material	STEEL	1.0	284	4.0
L_Material	SS	1.0	0	0.0
L_Material	UNK	3.0	1490	21.1
L_Material	UPVC	2.0	2028	28.72114431
L_Material	ST	1.0	0	0.0
L_Material	CU	5.0	0	0.0
L_Conditn		3.0	7056	99.9
L_Conditn	F	3.0	0	0
L_Conditn	G	2.0	0	0
L_Conditn	P	4.0	3	0.0424869
L_Conditn	VG	1.0	0	0
L_Conditn	VP	5.0	2	0.0283246

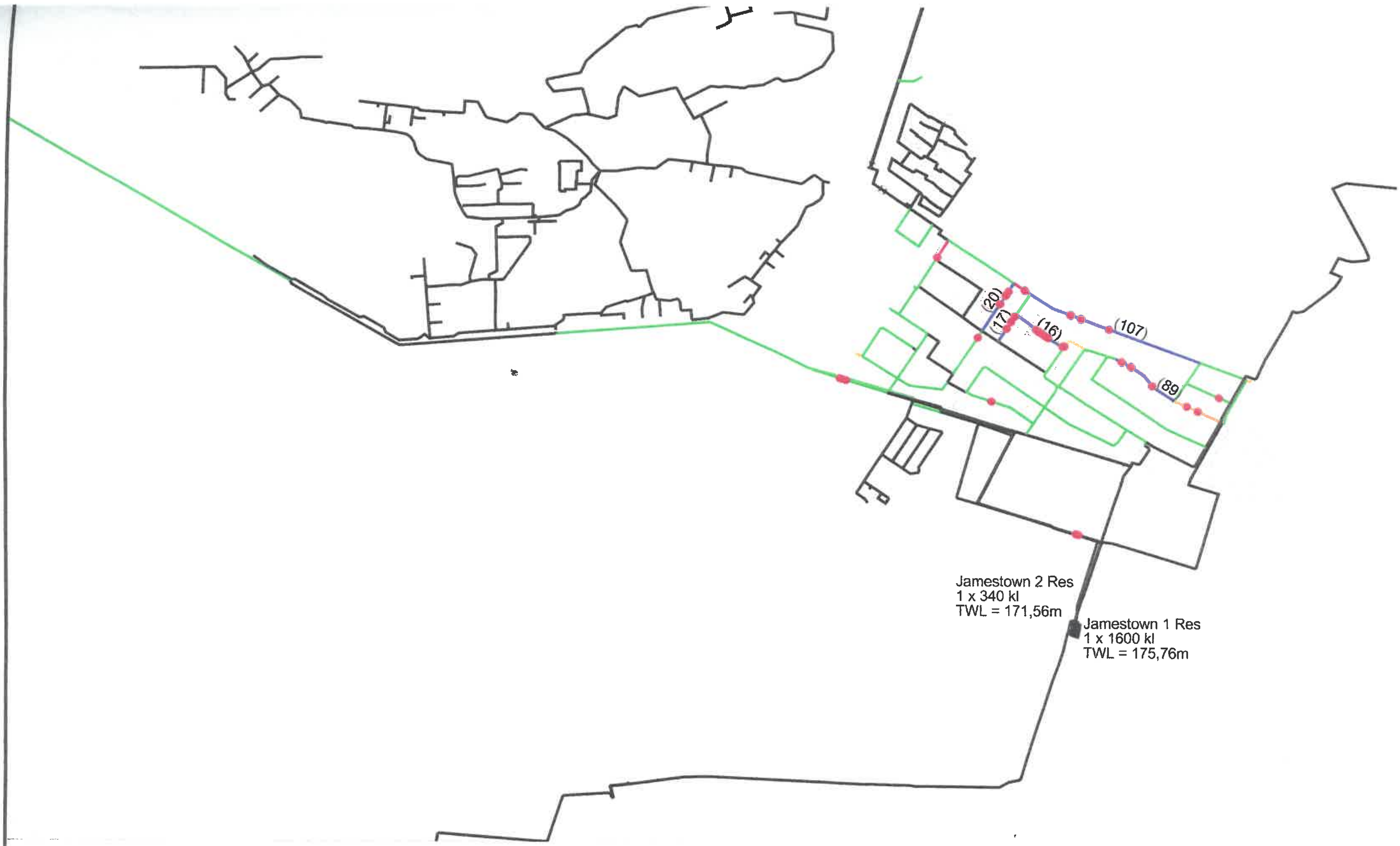
CF Legend				
Property	Criteria	Rating	Count	CountP
C_ConLossH	0	0.1	265	3.8
C_ConLossH	25	1.0	685	9.7
C_ConLossH	50	2.0	2298	32.5
C_ConLossH	75	3.0	2845	40.3
C_ConLossH	100	4.0	875	12.4
C_ConLossH	10000	5.0	93	1.3
C_ConLossQ	0	0.1	174	2.5
C_ConLossQ	5	1.0	5975	84.6
C_ConLossQ	10	2.0	201	2.8
C_ConLossQ	20	3.0	191	2.7
C_ConLossQ	50	4.0	117	1.7
C_ConLossQ	10000	5.0	403	5.7
C_RepCost	0	1.0	539	7.6
C_RepCost	1	1.0	6522	92.4
C_RepCost	2	3.0	0	0.0
C_RepCost	3	5.0	0	0.0
C_RoadSlpe		3.0	7055	99.9
C_RoadSlpe	MIDBLOCK	5.0	6	0.1
C_StratLoc		3.0	6407	90.7
C_StratLoc	CBD	4.0	146	2.1
C_StratLoc	EDU	5.0	78	1.1
C_StratLoc	HOS	5.0	19	0.3
C_StratLoc	IND	5.0	102	1.4
C_StratLoc	UNI	5.0	309	4.4
C_NWRedund	0	0.1	4211	59.6
C_NWRedund	5	1.0	2185	30.9
C_NWRedund	10	2.0	102	1.4
C_NWRedund	20	3.0	86	1.2
C_NWRedund	50	4.0	91	1.3
C_NWRedund	10000	5.0	386	5.5
C_PMS		1.0	7061	100.0
C_PMS	F	3.0	0	0.0
C_PMS	G	2.0	0	0.0
C_PMS	P	4.0	0	0.0
C_PMS	VG	1.0	0	0.0
C_PMS	VP	5.0	0	0.0

June 2019

Pipe replacement study Stellenbosch

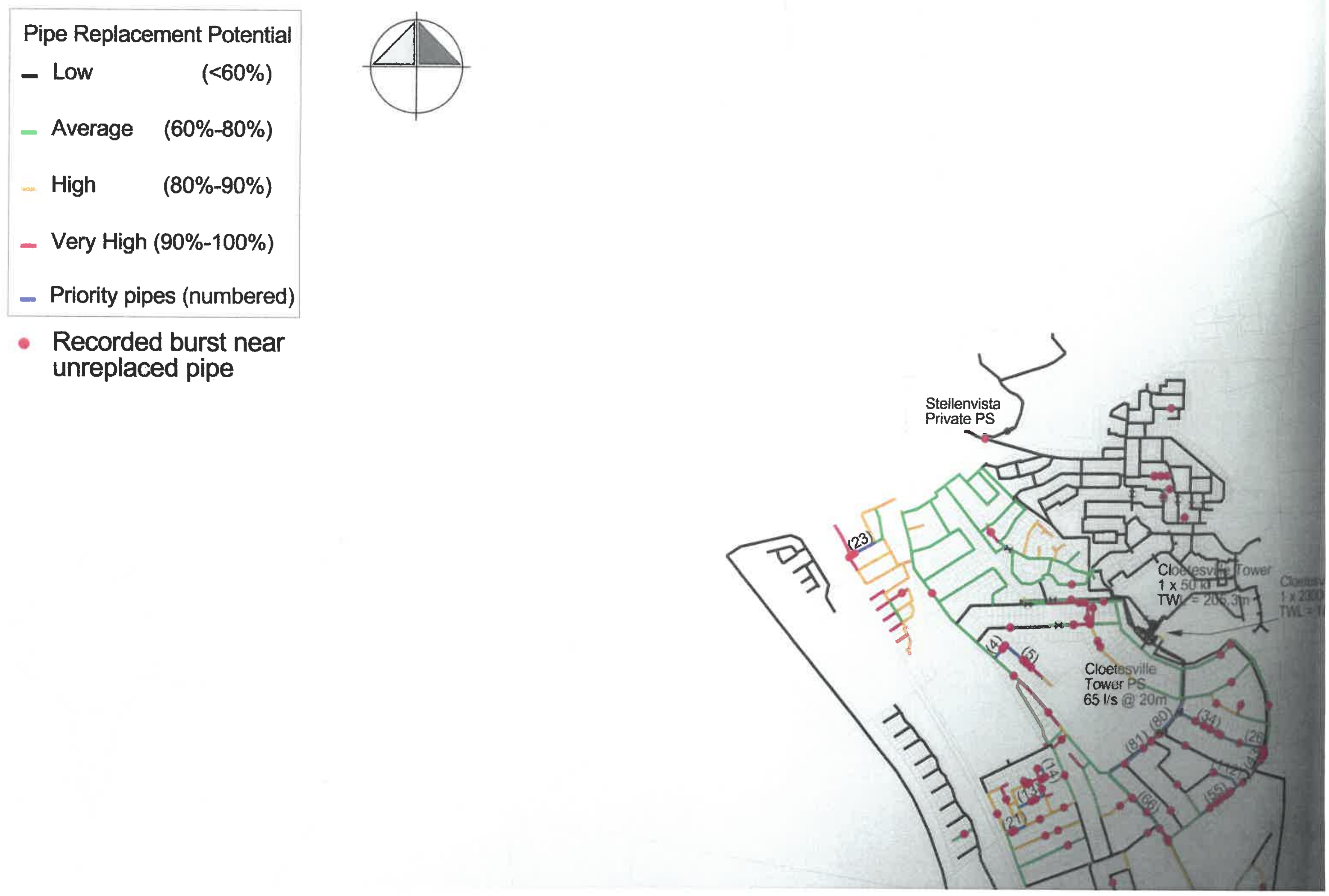
Pipe Replacement Potential

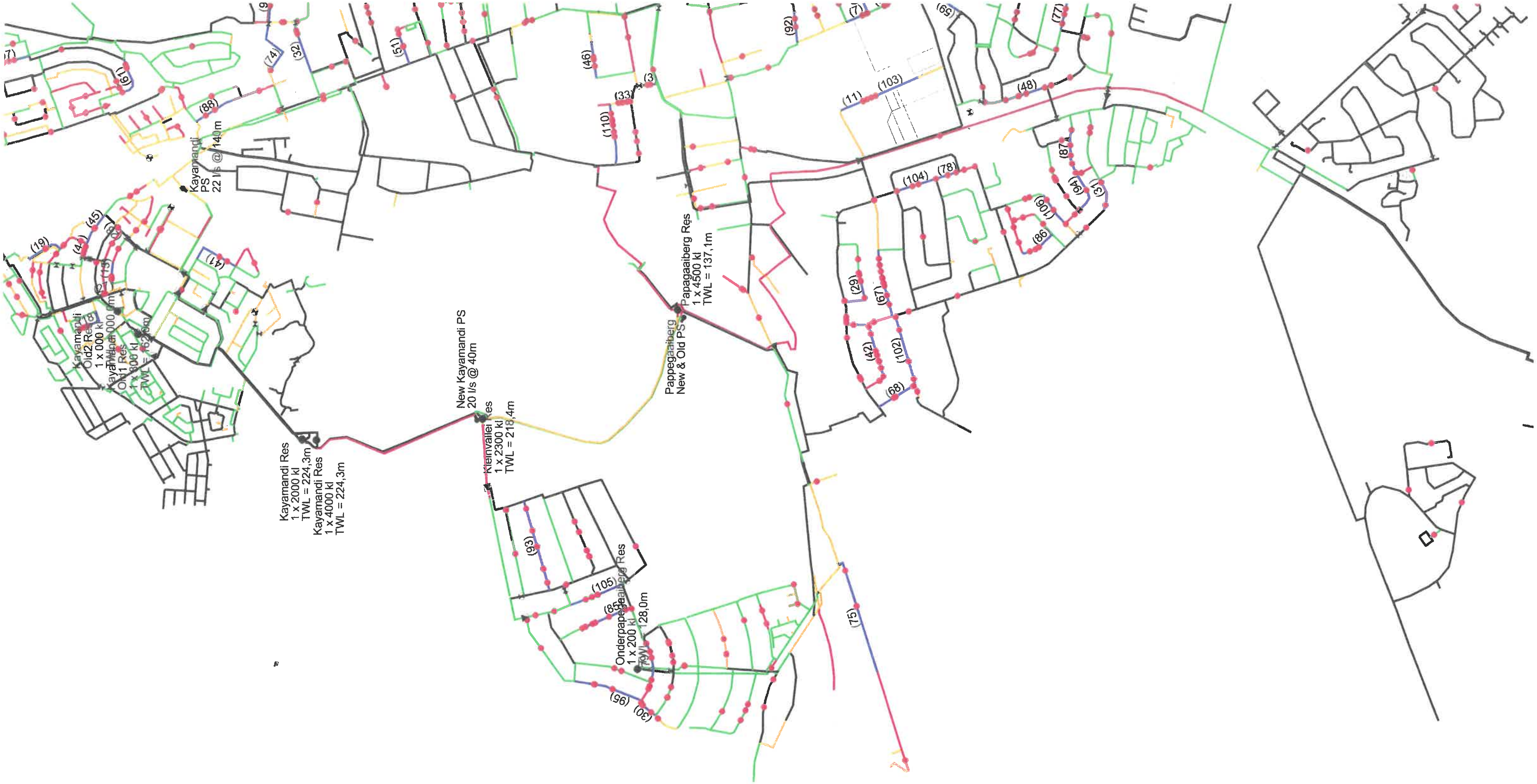
- Low (<60%)
- Average (60%-80%)
- High (80%-90%)
- Very High (90%-100%)
- Priority pipes (numbered)
- Recorded burst near unreplaced pipe

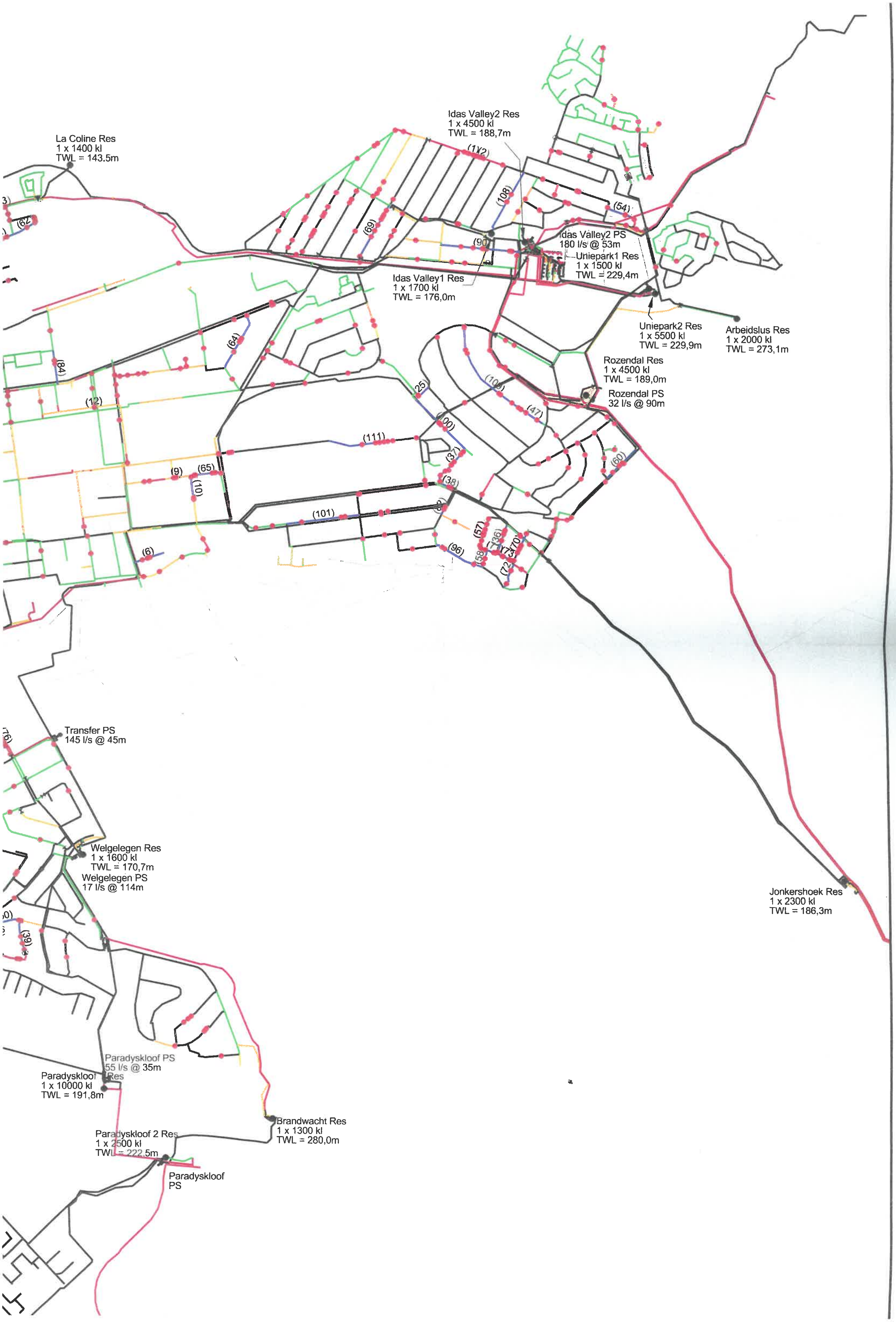


June 2019

Pipe replacement study Stellenbosch




Kayamandi
PS
22 l/s @ 140m
Papagaaiberg Res
1 x 4500 kl
TWL = 137,1m
Pappegaaiberg
New & Old PS
New Kayamandi PS
20 l/s @ 40m
Kleinvallei Res
1 x 2300 kl
TWL = 218,4m
Kayamandi Res
1 x 2000 kl
TWL = 224,3m
Kayamandi Res
1 x 4000 kl
TWL = 224,3m



La Coline Res
1 x 1400 kl
TWL = 143.5m
Idas Valley2 Res
1 x 4500 kl
TWL = 188,7m
Idas Valley2 PS
180 l/s @ 53m
Uniepark1 Res
1 x 1500 kl
TWL = 229,4m
Idas Valley1 Res
1 x 1700 kl
TWL = 176,0m
Uniepark2 Res
1 x 5500 kl
TWL = 229,9m
Arbeidslus Res
1 x 2000 kl
TWL = 273,1m
Rozendal Res
1 x 4500 kl
TWL = 189,0m
Rozendal PS
32 l/s @ 90m
Transfer PS
145 l/s @ 45m
Welgelegen Res
1 x 1600 kl
TWL = 170,7m
Welgelegen PS
17 l/s @ 114m
Jonkershoek Res
1 x 2300 kl
TWL = 186,3m
Paradyskloof PS
55 l/s @ 35m
Paradyskloof Res
1 x 10000 kl
TWL = 191,8m
Brandwacht Res
1 x 1300 kl
TWL = 280,0m
Paradyskloof 2 Res
1 x 2500 kl
TWL = 222.5m
Paradyskloof
PS
(108)
(69)
(54)
(64)
(84)
(12)
(111)
(9)
(65)
(10)
(101)
(6)
(47)
(60)
(57)
(96)
(39)