

TRANSNET



freight rail

A Division of Transnet SOC Limited Registration number 1990/00900/30

REQUEST FOR QUOTATION

**KBY/52593
KBC_12200**

Senior Buyer
Supply Chain Services
TRANSNET FREIGHT RAIL
Austen Street
KIMBERLEY
8301

TRANSNET



Transnet Freight Rail, a division of

TRANSNET SOC LTD

Registration Number 1990/000900/30

[Hereinafter referred to as **Transnet**]

REQUEST FOR QUOTATION [RFQ] No KBY/ 52593

**RE-ADVERTISEMENT: CLEANING OF CULVERTS (DE AAR- BEUFORT
WEST AND BELMONT -DOUGLAS) KBS FOR A
PERIOD OF THREE (3) MONTHS**

**FOR DELIVERY TO : TRANSNET FREIGHT RAIL, INFRASRTUCTURE
KIMBERLEY SOUTH**

ISSUE DATE : 14 JANUARY 2014

CLOSING DATE : 04 FEBRUARY 2014

CLOSING TIME : 10:00

Section 1 NOTICE TO BIDDERS

Quotations which must be completed as indicated in Section 2 of this RFQ are to be submitted as follows:

METHOD: Tender Box
CLOSING VENUE: Transnet Freight Rail, Property Management Building, Office no. 2, Austen Street, Beaconsfield

1 Responses to RFQ

Responses to this RFQ [**Quotations**] must not include documents or reference relating to any other quotation or proposal. Any additional conditions must be embodied in an accompanying letter.

2 Broad-Based Black Economic Empowerment [B-BBEE]

Transnet fully endorses and supports the Government's Broad-Based Black Economic Empowerment Programme and it would therefore prefer to do business with local business enterprises who share these same values. Transnet will accordingly allow a "preference" to companies who provide a valid B-BBEE Verification Certificate. All procurement transactions will be evaluated accordingly.

2.1 B-BBEE Scorecard and Rating

As prescribed in terms of the Preferential Procurement Policy Framework Act (PPPFA), Act 5 of 2000 and its Regulations, Respondents are to note the following:

- Proposals will be evaluated on price which will be allocated 80 points and preference which will be allocated 20 points, dependent on the value of the Services.
- The 80/20 preference point system applies where the acquisition of the Services will be less than R1 000 000.00.
- If the 80/20 preference point system is stipulated and all Bids received exceed R1 000 000.00, the RFQ will be cancelled.
- In this RFQ, Transnet will apply **80/20** preference point system prescribed in the PPPFA.

In compliance with the Government Gazette No 34612, Notice No. 754 dated 23 September 2011, as from 1 October 2011 valid B-BBEE Verification Certificates must be issued by:

- (i) Verification Agencies accredited by the South African National Accreditation System [SANAS]; or
- (ii) Registered Auditors approved by the Independent Regulatory Board of Auditors [IRBA], in accordance with the approval granted by the Department of Trade and Industry.

Enterprises will be rated by such agencies based on the following:

- a) **Large Enterprises** [i.e. annual turnover greater than R35 million]:
 - Rating level based on all seven elements of the B-BBEE scorecard

- b) **Qualifying Small Enterprises – QSE** [i.e. annual turnover between R5 million and R35 million]:

- Rating based on any four of the elements of the B-BBEE scorecard

- c) **Exempted Micro Enterprises – EME** [i.e. annual turnover less than R5 million]:

In accordance with B-BBEE Codes of Good Practice [Statement 000, Section 4], any enterprise with an annual total revenue of R 5 million or less qualifies as an EME.

- Automatic rating of B-BBEE Level 4 irrespective of race or ownership
- Black ownership greater than 50% or Black Women ownership greater than 50% automatically qualify as B-BBEE Level 3

Sufficient evidence to qualify as an EME would be a certificate (which may be in the form of a letter) from an auditor or accounting officer or a certificate from a Verification Agency accredited by SANAS. The certificate must confirm the company's turnover, black ownership / black female ownership, B-BBEE status level and validity date.

Respondents are required to furnish proof of the above to Transnet. [i.e. a valid detailed scorecard as stipulated above in respect of Large Enterprises and QSEs, or a valid certificate in respect of EMEs].

Transnet will accordingly allocate a maximum of **20 [twenty] points** in accordance with the **80/20** preference point system prescribed in the Preferential Procurement Policy Framework Act (PPPFA), Act 5 of 2000 and its Regulations to the Respondent's final score based on an entity's B-BBEE scorecard rating.

N.B. Failure to submit a B-BBEE certificate, which is valid as at the Closing Date of this RFQ, will result in a score of zero being allocated for B-BBEE.

[Refer clause 0 below for Returnable Documents required]

3 Communication

- a) Respondents are warned that a response will be liable for disqualification should any attempt be made by a Respondent either directly or indirectly to canvass any officer(s) or employee of Transnet in respect of this RFQ between the closing date and the date of the award of the business.
- b) A Respondent may, however, before the closing date and time, direct any written enquiries relating to the RFQ to the following Transnet employee:

Name: Refilwe Ramothwala

Email: Refilwe.Ramothwala@transnet.net

4 Tax Clearance

The Respondent's original valid Tax Clearance Certificate must accompany the Quotation. Failure to provide this document with the RFQ submission will result in disqualification.

5 VAT Registration

The valid VAT registration number must be stated here: _____ *[if applicable].*

6 Legal Compliance

The successful Respondent shall be in full and complete compliance with any and all applicable national and local laws and regulations.

7 Changes to Quotations

Changes by the Respondent to its submission will not be considered after the closing date and time.

8 Pricing

All prices must be quoted in South African Rand on a fixed price basis, excluding VAT.

9 Prices Subject to Confirmation

Prices quoted which are subject to confirmation will not be considered.

10 Negotiations

Transnet reserves the right to undertake post-tender negotiations with selected Respondents or any number of short-listed Respondents.

11 Binding Offer

Any Quotation furnished pursuant to this Request shall be deemed to be an offer. Any exceptions to this statement must be clearly and specifically indicated.

12 Disclaimers

Transnet is not committed to any course of action as a result of its issuance of this RFQ and/or its receipt of a Quotation in response to it. Please note that Transnet reserves the right to:

- modify the RFQ's goods / service(s) and request Respondents to re-bid on any changes;
- reject any Quotation which does not conform to instructions and specifications which are detailed herein;
- disqualify Quotations submitted after the stated submission deadline;
- not necessarily accept the lowest priced Quotation;
- reject all Quotations, if it so decides;
- place an order in connection with this Quotation at any time after the RFQ's closing date;
- award only a portion of the proposed goods / service/s which are reflected in the scope of this RFQ;
- split the award of the order/s between more than one Supplier/Service Provider; or
- make no award at all.

In addition, Transnet reserves the right to exclude any Respondent from the bidding process who has been convicted of a serious breach of law during the preceding 5 [five] years, including but not limited to breaches of the Competition Act 89 of 1998. Respondents are required to indicate below whether or not they have been found guilty of a serious breach of law during the past 5 [five] years:

I/We _____ do hereby certify that *I/we have/have not been* found guilty during the preceding 5 [five] years of a serious breach of law, including but not limited to a breach of the Competition Act, 89 of 1998, by a court of law, tribunal or

other administrative body. The type of breach that the Respondent is required to disclose excludes relatively minor offences or misdemeanours, e.g. traffic offences.

Where found guilty of such a serious breach, please disclose:

NATURE OF BREACH:

DATE OF BREACH: _____

Furthermore, I/we acknowledge that Transnet SOC Ltd reserves the right to exclude any Respondent from the bidding process, should that person or entity have been found guilty of a serious breach of law, tribunal or regulatory obligation.

13 Evaluation Criteria

Transnet will utilise the following criteria [not necessarily in this order] in choosing a Supplier/Service Provider, if so required:

- Administrative responsiveness - Completeness of response and returnable documents
- Substantive responsiveness – Prequalification criteria, if any, must be met and whether the Bid materially complies with the scope and/or specification given
- Technical threshold of 60%: Compliance to specification / quality, previous performance, delivery lead-time
- Weighted evaluation based on 80/20 preference point system as indicated in paragraph 2 above:
 - Pricing and price basis [firm] - whilst not the sole factor for consideration, competitive pricing and overall level of unconditional discounts¹ will be critical
 - B-BBEE status of company

Preference points will be awarded to a bidder for attaining the B-BBEE status level of contribution in accordance with the table below:

B-BBEE Status Level of Contributor	Number of points (80/20 system)
1	20
2	18
3	16
4	12
5	8
6	6
7	4
8	2
Non-compliant contributor	0

¹ Only unconditional discounts will be taken into account during evaluation. A discount which has been offered conditionally will, despite not being taken into account for evaluation purposes, be implemented when payment is effected.

14 Validity Period

Transnet desires a validity period of 30 [thirty] days from the closing date of this RFQ.

This RFQ is valid until _____.

15 Banking Details

BANK: _____

BRANCH NAME / CODE: _____

ACCOUNT HOLDER: _____

ACCOUNT NUMBER: _____

16 Company Registration

Registration number of company / C.C. _____

Registered name of company / C.C. _____

17 Disclosure of Prices Quoted

Respondents must indicate here whether Transnet may disclose their quoted prices and conditions to other Respondents:

YES NO

Respondent's Signature

Date & Company Stamp

18 Returnable Documents

Returnable Documents means all the documents, Sections and Annexures, as listed in the tables below.

- a) Respondents are required to submit with their Quotations the **Compulsory Returnable Documents**, as detailed below and marked with an *

Failure to provide all these Compulsory Returnable Documents at the Closing Date and time of this RFQ will result in a Respondent's disqualification. Respondents are therefore urged to ensure that all these Documents are returned with their Quotations.

All Sections, as indicated in the footer of each page, must be signed, stamped and dated by the Respondent. Please confirm submission of these mandatory Returnable Documents by so indicating [Yes or No] in the table below:

Returnable Documents	Submitted [Yes or No]
SECTION 1 : Notice to Bidders	
- Valid B-BBEE Verification Certificate [RSA Large Enterprises and QSEs] Note: failure to provide a valid B-BBEE Verification Certificate at the closing date and time of the tender will result in an automatic score of zero being allocated for B-BBEE scorecard	
- Valid B-BBEE certificate from auditor, accounting officer or SANAS accredited Verification Agency [RSA EMEs] Note: failure to provide a valid B-BBEE Verification Certificate at the closing date and time of the tender will result in an automatic score of zero being allocated for B-BBEE scorecard	
- In the case of Joint Ventures, a copy of the Joint Venture Agreement or written confirmation of the intention to enter into a Joint Venture Agreement	
SECTION 2 : Quotation Form	*
SECTION 3: Vendor Application Form	
• Original cancelled cheque or bank verification of banking details	
• Certified copies of IDs of shareholder/directors/members [as applicable]	
• Certified copy of Certificate of Incorporation [CM29/CM9 name change]	
• Certified copy of share certificates [CK1/CK2 if C.C.]	
• Entity's letterhead	
• Certified copy of VAT Registration Certificate [RSA entities only]	
• Certified copy of valid Company Registration Certificate [if applicable]	
• Original valid Tax Clearance Certificate [Consortia / Joint Ventures / Sub-contractors must submit a separate Tax Clearance Certificate for each party]	*
Valid Letter of Good Standing	
ANNEXURE A – Project Specifications	*

Respondent's Signature

Date & Company Stamp

Section 2
QUOTATION FORM

I/We _____
hereby offer to supply the services at the prices quoted in the Price Schedule below, in accordance with the conditions related thereto and as per Annexure A

I/We agree to be bound by those terms and conditions in:

the Standard Terms and Conditions for the Supply of Goods or Services to Transnet, the E4E and the E7/1 [all available on request]; and

any other standard or special conditions mentioned and/or embodied in this Request for Quotation.

I/We accept that unless Transnet should otherwise decide and so inform me/us, this Quotation [and, if any, its covering letter and any subsequent exchange of correspondence], together with Transnet's acceptance thereof shall constitute a binding contract between Transnet and me/us.

I/We further agree that if, after I/we have been notified of the acceptance of my/our Quotation, I/we fail to deliver the said service within the delivery lead-time quoted, Transnet may, without prejudice to any other legal remedy which it may have, cancel the order and recover from me/us any expenses incurred by Transnet in calling for Quotations afresh and/or having to accept any less favourable offer.

Respondent's Signature

Date & Company Stamp

Price Schedule

I/We quote as follows for the Service required, excluding VAT: See Annexure A for Specifications.

SCHEDULE OF WORK AND PRICES PROJECT SPECIFICATION FOR CLEANING OF CULVERTS (DE AAR- BEUFORT WEST AND BELMONT -DOUGLAS) KBS FOR A PERIOD OF THREE (3) MONTH						
ITEM	RAILWAY SECTIONS	AREA TO BE CLEANED (m ²)	NUMBER OF CULVERTS	DIASTANCE ON TRACK (KM)	UNIT PRICE	TOTAL AMOUNT
1.	De Aar- Beufort West	40107.716	418	258.813		
2.	Belmont-Douglas	6376.480	156	86.116		
3.	Totals	46484.196	574	344.929		
4.	P and G's					
SUB TOTAL						
VAT						
TOTAL						

Notes to Pricing:

- a) All Prices must be quoted in South African Rand, exclusive of VAT
- b) Please note that should you have offered a discounted price(s), Transnet will only consider such price discount(s) in the final evaluation stage if offered on an unconditional basis.

Respondent's Signature

Date & Company Stamp

Section 3

Transnet Supplier Declaration/Application

The Financial Director or Company Secretary

Transnet Vendor Management has received a request to load your company on to the Transnet vendor database. Please furnish us with the following to enable us to process this request:

1. Complete the "Supplier Declaration Form" (SDF) on page 2 of this letter
2. **Original** cancelled cheque **OR** letter from the bank verifying banking details (**with bank stamp**)
3. **Certified** copy of Identity document of Shareholders/Directors/Members (where applicable)
4. **Certified** copy of certificate of incorporation, CM29 / CM9 (name change)
5. **Certified** copy of share Certificates of Shareholders, CK1 / CK2 (if CC)
6. A letter with the company's letterhead confirming physical and postal addresses
7. **Original** or **certified** copy of SARS Tax Clearance certificate and Vat registration certificate
8. A signed letter from the Auditor / Accountant confirming most recent annual turnover and percentage black ownership in the company **AND/OR** BBBEE certificate and detailed scorecard from an accredited rating agency (SANAS member).

NB:

- **Failure to submit the above documentation will delay the vendor creation process.**
- *Where applicable, the respective Transnet business unit processing your application may request further information from you. E.g. proof of an existence of a Service/Business contract between your business and the respective Transnet business unit etc.*

IMPORTANT NOTES:

- a) **If your annual turnover is less than R5 million**, then in terms of the DTI codes, you are classified as an Exempted Micro Enterprise (EME). If your company is classified as an EME, please include in your submission, a signed letter from your Auditor / Accountant confirming your company's most recent annual turnover is less than R5 million and percentage of black ownership and black female ownership in the company AND/OR BBBEE certificate and detailed scorecard from an accredited rating agency (e.g. permanent SANAS Member), should you feel you will be able to attain a better BBBEE score.
- b) **If your annual turnover is between R5 million and R35million**, then in terms of the DTI codes, you are classified as a Qualifying Small Enterprise (QSE) and you claim a specific BBBEE level based on any 4 of the 7 elements of the BBBEE score-card, please include your BEE certificate in your submission as confirmation of your status.
NB: BBBEE certificate and detailed scorecard should be obtained from an accredited rating agency (e.g. permanent SANAS Member).
- c) **If your annual turnover is in excess of R35million**, then in terms of the DTI codes, you are classified as a Large Enterprise and you claim a specific BEE level based on all seven elements of the BBBEE generic score-card. Please include your BEE certificate in your submission as confirmation of your status.
NB: BBBEE certificate and detailed scorecard should be obtained from an accredited rating agency (permanent SANAS Member).
- d) **To avoid PAYE tax being automatically deducted from any invoices received from you**, you must also contact the Transnet person who lodged this request on your behalf, so as to be correctly classified in terms of Tax legislation.
- e) Unfortunately, **No payments can be made to a vendor** until the vendor has been registered, and no vendor can be registered until the vendor application form, together with its supporting documentation, has been received and processed.
- f) **Please return the completed Supplier Declaration Form (SDF) together with the required supporting documents mentioned above to the Transnet Official who is intending to procure your company's services/products in order that he/she should complete and Internal Transnet Departmental Questionnaire before referring the matter to the appropriate Transnet Vendor Master Office.**

Regards,

Respondent's Signature

Date & Company Stamp

Supplier Declaration Form

Company Trading Name							
Company Registered Name							
Company Registration Number Or ID Number If A Sole Proprietor							
Form of entity	CC	Trust	Pty Ltd	Limited	Partnership	Sole Proprietor	
VAT number (if registered)							
Company Telephone Number							
Company Fax Number							
Company E-Mail Address							
Company Website Address							
Bank Name				Bank Account Number			
Postal Address						Code	
Physical Address						Code	
Contact Person							
Designation							
Telephone							
Email							
Annual Turnover Range (Last Financial Year)	< R5 Million		R5-35 million		> R35 million		
Does Your Company Provide	Products		Services		Both		
Area Of Delivery	National		Provincial		Local		
Is Your Company A Public Or Private Entity				Public		Private	
Does Your Company Have A Tax Directive Or IRP30 Certificate				Yes		No	
Main Product Or Service Supplied (E.G.: Stationery/Consulting)							

BEE Ownership Details

% Black Ownership		% Black women ownership		% Disabled person/s ownership	
Does your company have a BEE certificate	Yes	No			
What is your broad based BEE status (Level 1 to 9 / Unknown)					
How many personnel does the firm employ	Permanent		Part time		

Transnet Contact Person						
Contact number						
Transnet operating division						

Duly Authorised To Sign For And On Behalf Of Firm / Organisation

Name				Designation		
Signature				Date		

Stamp And Signature Of Commissioner Of Oath

Name				Date		
Signature				Telephone No.		

Respondent's Signature

Date & Company Stamp

418 Culverts

De Aar - Beaufort West
(Line 101 and 102)

	Number	Culvert						Area	Area	m ²	Type
		Asset number	Fence (LHS)	km distance on track	Fence (RHS)	Number of Spans	Width of Span	m ² (Fence L)	m ² (Fence R)	Total Area	
De Aar - Britsville	1	05JB134	11.00	0.157	11.00	1	2.70	29.700	29.700	59.400	Box
De Aar - Britsville	2	05JG001	11.00	0.923	11.00	2	4.60	50.600	50.600	202.400	Box
Britsville - Die Put	3	05HG003	11.00	7.281	11.00	1	1.80	19.800	19.800	39.600	Box
Britsville - Die Put	4	05HG005	11.00	7.709	11.00	1	1.60	17.600	17.600	35.200	Box
Britsville - Die Put	5	05HG008	11.00	9.635	11.00	1	1.80	19.800	19.800	39.600	Box
Britsville - Die Put	6	05JG006	11.00	10.160	11.00	2	4.40	48.400	48.400	193.600	Box
Britsville - Die Put	7	05JG007	11.00	10.252	11.00	4	2.60	28.600	28.600	228.800	Box
Britsville - Die Put	8	05JG008	11.00	10.416	11.00	4	4.40	48.400	48.400	387.200	Box
Britsville - Die Put	9	05JG009	11.00	10.518	11.00	4	4.10	45.100	45.100	360.800	Box
Britsville - Die Put	10	05JG010	11.00	11.130	11.00	1	2.75	30.250	30.250	60.500	Box
Britsville - Die Put	11	05HG009	11.00	11.537	11.00	1	1.85	20.350	20.350	40.700	Box
Britsville - Die Put	12	05HG010	11.00	12.015	11.00	1	1.70	18.700	18.700	37.400	Box
Britsville - Die Put	13	05HG011	11.00	12.363	11.00	1	1.70	18.700	18.700	37.400	Box
Britsville - Die Put	14	05HG012	11.00	12.843	11.00	1	1.90	20.900	20.900	41.800	Box
Britsville - Die Put	15	05HG013	11.00	12.938	11.00	3	1.80	19.800	19.800	118.800	Box
Britsville - Die Put	16	05JG011	11.00	12.996	11.00	3	2.70	29.700	29.700	178.200	Box
Britsville - Die Put	17	05HG014	11.00	13.465	11.00	1	1.70	18.700	18.700	37.400	Box
Britsville - Die Put	18	05JG012	11.00	14.387	11.00	2	3.00	33.000	33.000	132.000	Box
Britsville - Die Put	19	05JG013	11.00	14.567	11.00	6	2.70	29.700	29.700	356.400	Box
Britsville - Die Put	20	05JG014	11.00	14.781	11.00	1	2.70	29.700	29.700	59.400	Box
Britsville - Die Put	21	05JG015	11.00	15.192	11.00	3	2.50	27.500	27.500	165.000	Box
Die Put - Oloff	22	05JG018	11.00	16.459	11.00	1	2.70	29.700	29.700	59.400	Box
Die Put - Oloff	23	05JG020	11.00	17.533	11.00	1	2.70	29.700	29.700	59.400	Box
Die Put - Oloff	24	05JG023	11.00	18.763	11.00	1	2.80	30.800	30.800	61.600	Box
Die Put - Oloff	25		11.00	19.670	11.00	1	2.30	25.300	25.300	50.600	Box
Die Put - Oloff	26	05JG025	11.00	20.738	11.00	2	2.70	29.700	29.700	118.800	Box
Die Put - Oloff	27	05JG026	11.00	21.344	11.00	2	2.60	28.600	28.600	114.400	Box
Die Put - Oloff	28	05HG016	11.00	22.155	11.00	1	1.85	20.350	20.350	40.700	Box
Die Put - Oloff	29	05HG017	11.00	22.171	11.00	1	1.80	19.800	19.800	39.600	Box
Die Put - Oloff	30	05HG018	11.00	22.494	11.00	1	1.85	20.350	20.350	40.700	Box

Die Put - Oloff	31	05HG019	11.00	22.959	11.00	1	0.60	6.600	6.600	13.200	Pipe
Oloff - Joen	32	05JG033	11.00	27.833	11.00	1	2.70	29.700	29.700	59.400	Box
Oloff - Joen	33	05HG020	11.00	28.348	11.00	1	1.80	19.800	19.800	39.600	Box
Oloff - Joen	34	05HG021	11.00	29.327	11.00	1	1.90	20.900	20.900	41.800	Box
Oloff - Joen	35	05JG034	11.00	29.883	11.00	2	2.60	28.600	28.600	114.400	Box
Oloff - Joen	36	05JG035	11.00	29.946	11.00	2	2.70	29.700	29.700	118.800	Box
Oloff - Joen	37	05HG022	11.00	30.264	11.00	1	1.90	20.900	20.900	41.800	Box
Oloff - Joen	38	05JG036	11.00	30.859	11.00	3	2.80	30.800	30.800	184.800	Box
Oloff - Joen	39	05JG037	11.00	31.047	11.00	1	2.70	29.700	29.700	59.400	Box
Oloff - Joen	40	05HG023	11.00	31.282	11.00	1	1.90	20.900	20.900	41.800	Box
Oloff - Joen	41	05JG040	11.00	33.465	11.00	1	2.80	30.800	30.800	61.600	Box
Oloff - Joen	42	05JG041	11.00	33.662	11.00	2	2.70	29.700	29.700	118.800	Box
Oloff - Joen	43	05JG042	11.00	34.066	11.00	1	2.75	30.250	30.250	60.500	Box
Oloff - Joen	44	05HG026	11.00	34.509	11.00	1	1.80	19.800	19.800	39.600	Box
Oloff - Joen	45	05HG027	11.00	35.054	11.00	1	1.90	20.900	20.900	41.800	Box
Oloff - Joen	46	05HG028	11.00	35.739	11.00	1	1.90	20.900	20.900	41.800	Box
Oloff - Joen	47	05HG029	11.00	36.183	11.00	1	1.85	20.350	20.350	40.700	Box
Oloff - Joen	48	05HG030	11.00	36.707	11.00	1	1.90	20.900	20.900	41.800	Box
Oloff - Joen	49	05JG043	11.00	36.982	11.00	2	2.80	30.800	30.800	123.200	Box
Oloff - Joen	50	05JG044	11.00	37.252	11.00	1	2.70	29.700	29.700	59.400	Box
Oloff - Joen	51	05JG045	11.00	37.695	11.00	2	2.70	29.700	29.700	118.800	Box
										1449.800	
Joen - Deelfontein	52	05JG046	11.00	38.444	11.00	2	2.70	29.700	29.700	118.800	Box
Joen - Deelfontein	53	05JG048	11.00	39.650	11.00	2	2.80	30.800	30.800	123.200	Box
Joen - Deelfontein	54	05JG049	11.00	40.313	11.00	2	2.70	29.700	29.700	118.800	Box
Joen - Deelfontein	55	05HG031	11.00	40.953	11.00	1	1.70	18.700	18.700	37.400	Box
Joen - Deelfontein	56	05HG032	11.00	40.964	11.00	1	1.70	18.700	18.700	37.400	Box
Joen - Deelfontein	57	05HG033	11.00	41.469	11.00	1	1.85	20.350	20.350	40.700	Box
Joen - Deelfontein	58	05HG034	11.00	42.154	11.00	1	1.80	19.800	19.800	39.600	Box
Joen - Deelfontein	59	05JG050	11.00	43.587	11.00	1	2.70	29.700	29.700	59.400	Box
Joen - Deelfontein	60	05HG035	11.00	44.011	11.00	1	1.80	19.800	19.800	39.600	Box
Joen - Deelfontein	61	05HG036	11.00	44.454	11.00	1	1.80	19.800	19.800	39.600	Box
Joen - Deelfontein	62	05HG039	11.00	45.818	11.00	1	1.30	14.300	14.300	28.600	Box
Joen - Deelfontein	63	05HG040	11.00	46.023	11.00	1	1.90	20.900	20.900	41.800	Box
										774.800	
Deelfontein - Plaatfontein	64	05HG041	11.00	46.408	11.00	1	1.90	20.900	20.900	41.800	Box
Deelfontein - Plaatfontein	65	05HG042	11.00	46.813	11.00	1	1.80	19.800	19.800	39.600	Box
Deelfontein - Plaatfontein	66	05JG051	11.00	47.438	11.00	1	2.70	29.700	29.700	59.400	Box
Deelfontein - Plaatfontein	67	05HG043	11.00	47.904	11.00	1	1.80	19.800	19.800	39.600	Box

Deelfontein - Plaatfontein	68	05HG044	11.00	48.519	11.00	1	1.80	19.800	19.800	39.600	Box
Deelfontein - Plaatfontein	69	05JG052	11.00	48.892	11.00	1	2.90	31.900	31.900	63.800	Box
Deelfontein - Plaatfontein	70	05HG046	11.00	50.142	11.00	1	1.80	19.800	19.800	39.600	Box
Deelfontein - Plaatfontein	71	05JG053	11.00	50.767	11.00	2	2.70	29.700	29.700	118.800	Box
Deelfontein - Plaatfontein	72	05JG054	11.00	51.190	11.00	3	2.80	30.800	30.800	184.800	Box
Deelfontein - Plaatfontein	73	05JG055	11.00	51.458	11.00	1	2.70	29.700	29.700	59.400	Box
Deelfontein - Plaatfontein	74	05HG047	11.00	51.561	11.00	1	1.40	15.400	15.400	30.800	Box
Deelfontein - Plaatfontein	75	05HG048	11.00	51.795	11.00	1	0.60	6.600	6.600	13.200	Box
Deelfontein - Plaatfontein	76	05JG056	11.00	52.319	11.00	2	2.80	30.800	30.800	123.200	Box
Deelfontein - Plaatfontein	77	05JG057	11.00	52.763	11.00	1	2.70	29.700	29.700	59.400	Box
Plaatfontein - Sterkaar	78	05HG049	11.00	54.254	11.00	1	1.80	19.800	19.800	39.600	Box
Plaatfontein - Sterkaar	79	05HG050	11.00	54.878	11.00	1	1.75	19.250	19.250	38.500	Box
Plaatfontein - Sterkaar	80	05HG051	11.00	55.623	11.00	1	1.90	20.900	20.900	41.800	Box
Plaatfontein - Sterkaar	81	05JG059	11.00	56.187	11.00	1	2.70	29.700	29.700	59.400	Box
Plaatfontein - Sterkaar	82	05HG052	11.00	57.338	11.00	1	1.80	19.800	19.800	39.600	Box
Plaatfontein - Sterkaar	83	05HG053	11.00	57.849	11.00	1	1.80	19.800	19.800	39.600	Box
Plaatfontein - Sterkaar	84	05JG061	11.00	59.370	11.00	2	2.60	28.600	28.600	114.400	Box
Plaatfontein - Sterkaar	85	05JG062	11.00	60.257	11.00	2	2.70	29.700	29.700	118.800	Box
Sterkaar - Laken	86	05HG638	11.00	61.123	11.00	1	2.00	22.000	22.000	44.000	Box
Sterkaar - Laken	87	05HG056	11.00	63.238	11.00	1	1.70	18.700	18.700	37.400	Box
Sterkaar - Laken	88	05HG059	11.00	67.349	11.00	1	1.90	20.900	20.900	41.800	Box
Sterkaar - Laken	89	05HG060	11.00	67.712	11.00	1	2.00	22.000	22.000	44.000	Box
Sterkaar - Laken	90	05JG069	11.00	68.316	11.00	2	3.00	33.000	33.000	132.000	Box
Laken - Merriman	91	05JG071	11.00	70.250	11.00	1	2.70	29.700	29.700	59.400	Box
Laken - Merriman	92	05HG063	11.00	72.103	11.00	1	2.10	23.100	23.100	46.200	Box
Laken - Merriman	93	05JG074	11.00	72.586	11.00	1	2.80	30.800	30.800	61.600	Box
Laken - Merriman	94	05JG075	11.00	73.472	11.00	1	3.00	33.000	33.000	66.000	Box
Laken - Merriman	95	05JG076	11.00	73.875	11.00	1	3.00	33.000	33.000	66.000	Box
Laken - Merriman	96	05JG077	11.00	74.319	11.00	1	2.90	31.900	31.900	63.800	Box
Laken - Merriman	97	05JG078	11.00	75.018	11.00	1	3.00	33.000	33.000	66.000	Box
Laken - Merriman	98	05JG079	11.00	75.482	11.00	1	3.00	33.000	33.000	66.000	Box
Laken - Merriman	99	05JG080	11.00	75.923	11.00	2	2.90	31.900	31.900	127.600	Box
Laken - Merriman	100	05JG081	11.00	77.013	11.00	3	4.00	44.000	44.000	264.000	Box
Merriman - Wildebeeste	101	05BG003	11.00	78.230	11.00	4	1.22	13.420	13.420	107.360	Box
Merriman - Wildebeeste	102	05JG082	11.00	78.582	11.00	3	3.00	33.000	33.000	198.000	Box
Merriman - Wildebeeste	103	05JG083	11.00	79.083	11.00	3	2.80	30.800	30.800	184.800	Box

Merriman - Wildebeeste	104	05JG084	11.00	79.909	11.00	1	2.60	28.600	28.600	57.200	Box
Merriman - Wildebeeste	105	05HG064	11.00	81.801	11.00	1	2.00	22.000	22.000	44.000	Box
Merriman - Wildebeeste	106	05JG085	11.00	82.324	11.00	3	3.00	33.000	33.000	198.000	Box
Merriman - Wildebeeste	107	05HG065	11.00	83.794	11.00	1	1.80	19.800	19.800	39.600	Box
Merriman - Wildebeeste	108	05JG087	11.00	84.998	11.00	2	5.40	59.400	59.400	237.600	Box
Merriman - Wildebeeste	109	05BG004	11.00	85.117	11.00	1	5.80	63.800	63.800	127.600	Box
Merriman - Wildebeeste	110	05BG005	11.00	85.773	11.00	2	5.40	59.400	59.400	237.600	Box
Merriman - Wildebeeste	111	05BG006	11.00	86.125	11.00	2	3.40	37.400	37.400	149.600	Box
Merriman - Wildebeeste	112	05HG066	11.00	86.529	11.00	1	1.80	19.800	19.800	39.600	Box
Merriman - Wildebeeste	113	05HG067	11.00	87.054	11.00	1	1.80	19.800	19.800	39.600	Box
Merriman - Wildebeeste	114	05HG068	11.00	87.737	11.00	1	1.20	13.200	13.200	26.400	Box
Merriman - Wildebeeste	115	05HG069	11.00	88.190	11.00	1	1.20	13.200	13.200	26.400	Box
Merriman - Wildebeeste	116	05JG088	11.00	88.540	11.00	1	2.70	29.700	29.700	59.400	Box
Merriman - Wildebeeste	117	05HG070	11.00	89.247	11.00	1	1.90	20.900	20.900	41.800	Box
Merriman - Wildebeeste	118	05HG071	11.00	89.731	11.00	1	1.90	20.900	20.900	41.800	Box
Merriman - Wildebeeste	119	05JG089	11.00	90.396	11.00	2	3.60	39.600	39.600	158.400	Box
Merriman - Wildebeeste	120	05JG090	11.00	91.019	11.00	2	2.60	28.600	28.600	114.400	Box
Merriman - Wildebeeste	121	05JG091	11.00	91.623	11.00	2	2.70	29.700	29.700	118.800	Box
Merriman - Wildebeeste	122	05JG092	11.00	92.227	11.00	2	2.70	29.700	29.700	118.800	Box
Merriman - Wildebeeste	123	05HG072	11.00	92.790	11.00	1	1.80	19.800	19.800	39.600	Box
Merriman - Wildebeeste	124	05HG073	11.00	93.352	11.00	1	1.80	19.800	19.800	39.600	Box
Merriman - Wildebeeste	125	05HG074	11.00	93.834	11.00	1	1.20	13.200	13.200	26.400	Box
Merriman - Wildebeeste	126	05JG093	11.00	94.399	11.00	1	2.80	30.800	30.800	61.600	Box
Merriman - Wildebeeste	127	05HG075	11.00	94.802	11.00	1	1.90	20.900	20.900	41.800	Box
Merriman - Wildebeeste	128	05JG094	11.00	95.549	11.00	2	2.70	29.700	29.700	118.800	Box
Merriman - Wildebeeste	129	05JG095	11.00	96.428	11.00	3	3.00	33.000	33.000	198.000	Box
Merriman - Wildebeeste	130	05JG096	11.00	96.759	11.00	2	2.90	31.900	31.900	127.600	Box
Merriman - Wildebeeste	131	05JG097	11.00	96.938	11.00	5	3.00	33.000	33.000	330.000	Box
Wildebeeste - Brakpoort	132	05JG098	11.00	97.516	11.00	1	2.80	30.800	30.800	61.600	Box
Wildebeeste - Brakpoort	133	05HG076	11.00	97.960	11.00	1	1.90	20.900	20.900	41.800	Box
Wildebeeste - Brakpoort	134	05HG077	11.00	98.434	11.00	1	1.80	19.800	19.800	39.600	Box
Wildebeeste - Brakpoort	135	05HG078	11.00	99.388	11.00	1	1.90	20.900	20.900	41.800	Box
Wildebeeste - Brakpoort	136	05JG099	11.00	100.162	11.00	2	2.50	27.500	27.500	110.000	Box
Wildebeeste - Brakpoort	137	05HG079	11.00	101.007	11.00	1	1.80	19.800	19.800	39.600	Box
Wildebeeste - Brakpoort	138	05HG080	11.00	101.420	11.00	1	1.80	19.800	19.800	39.600	Box
Wildebeeste - Brakpoort	139	05HG081	11.00	101.701	11.00	1	1.80	19.800	19.800	39.600	Box
Wildebeeste - Brakpoort	140	05HG082	11.00	102.173	11.00	1	1.80	19.800	19.800	39.600	Box
Wildebeeste - Brakpoort	141	05HG083	11.00	103.422	11.00	1	1.20	13.200	13.200	26.400	Box
Wildebeeste - Brakpoort	142	05JG100	11.00	104.328	11.00	3	3.60	39.600	39.600	237.600	Box

Wildebееste - Brakpoort	143	05JG101	11.00	104.740	11.00	2	2.80	30.800	30.800	123.200	Box
Wildebееste - Brakpoort	144	05JG102	11.00	105.054	11.00	2	2.70	29.700	29.700	118.800	Box
Wildebееste - Brakpoort	145	05JG103	11.00	105.799	11.00	2	2.70	29.700	29.700	118.800	Box
Wildebееste - Brakpoort	146	05HG084	11.00	106.706	11.00	1	1.60	17.600	17.600	35.200	Box
										113.200	
Brakpoort - Fortrug	147	05JG104	11.00	107.008	11.00	1	2.90	31.900	31.900	63.800	Box
Brakpoort - Fortrug	148	05HG085	11.00	107.532	11.00	1	1.90	20.900	20.900	41.800	Box
Brakpoort - Fortrug	149	05HG086	11.00	107.895	11.00	1	1.80	19.800	19.800	39.600	Box
Brakpoort - Fortrug	150	05HG087	11.00	108.016	11.00	1	1.10	12.100	12.100	24.200	Box
Brakpoort - Fortrug	151	05JG105	11.00	108.852	11.00	2	2.60	28.600	28.600	114.400	Box
Brakpoort - Fortrug	152	05JG106	11.00	109.340	11.00	2	2.80	30.800	30.800	123.200	Box
Brakpoort - Fortrug	153	05JG107	11.00	109.859	11.00	2	3.60	39.600	39.600	158.400	Box
Brakpoort - Fortrug	154	05JG108	11.00	110.233	11.00	2	3.60	39.600	39.600	158.400	Box
Brakpoort - Fortrug	155	05JG109	11.00	110.417	11.00	2	3.60	39.600	39.600	158.400	Box
Brakpoort - Fortrug	156	05HG088	11.00	110.927	11.00	1	1.80	19.800	19.800	39.600	Box
Brakpoort - Fortrug	157	05JG110	11.00	111.422	11.00	2	3.60	39.600	39.600	158.400	Box
Brakpoort - Fortrug	158	05JG111	11.00	111.966	11.00	2	2.70	29.700	29.700	118.800	Box
Brakpoort - Fortrug	159	05JG114	11.00	113.332	11.00	3	4.50	49.500	49.500	297.000	Box
Brakpoort - Fortrug	160	05JG114	11.00	113.339	11.00	1	5.50	60.500	60.500	121.000	Box
										1647.600	
Fortrug - Hutchinson	161	05JG115	11.00	113.997	11.00	2	3.40	37.400	37.400	149.600	Box
Fortrug - Hutchinson	162	05JG116	11.00	114.365	11.00	1	3.60	39.600	39.600	79.200	Box
Fortrug - Hutchinson	163	05HG090	11.00	114.625	11.00	1	1.80	19.800	19.800	39.600	Box
Fortrug - Hutchinson	164	05HG091	11.00	114.928	11.00	1	1.20	13.200	13.200	26.400	Box
Fortrug - Hutchinson	165	05HG092	11.00	115.687	11.00	1	1.20	13.200	13.200	26.400	Box
Fortrug - Hutchinson	166	05HG093	11.00	116.721	11.00	1	1.20	13.200	13.200	26.400	Box
Fortrug - Hutchinson	167	05JG119	11.00	117.493	11.00	2	3.70	40.700	40.700	162.800	Box
Fortrug - Hutchinson	168	05JG120	11.00	118.429	11.00	1	3.70	40.700	40.700	81.400	Box
Fortrug - Hutchinson	169	05JG121	11.00	119.007	11.00	1	3.70	40.700	40.700	81.400	Box
Fortrug - Hutchinson	170	05JG122	11.00	119.875	11.00	1	3.70	40.700	40.700	81.400	Box
Fortrug - Hutchinson	171	05JG123	11.00	120.373	11.00	1	3.60	39.600	39.600	79.200	Box
Fortrug - Hutchinson	172	05HG094	11.00	120.950	11.00	1	1.90	20.900	20.900	41.800	Box
Fortrug - Hutchinson	173	05JG124	11.00	121.553	11.00	2	3.70	40.700	40.700	162.800	Box
Fortrug - Hutchinson	174	05JG125	11.00	122.127	11.00	2	3.70	40.700	40.700	162.800	Box
Fortrug - Hutchinson	175	05JG126	11.00	122.529	11.00	2	3.60	39.600	39.600	158.400	Box
Fortrug - Hutchinson	176	05HG095	11.00	123.054	11.00	1	1.20	13.200	13.200	26.400	Box
Fortrug - Hutchinson	177	05JG127	11.00	123.500	11.00	3	3.70	40.700	40.700	244.200	Box
Fortrug - Hutchinson	178		11.00	123.730	11.00	1	0.40	4.400	4.400	8.800	Pipe
Fortrug - Hutchinson	179		11.00	123.959	11.00	1	0.40	4.400	4.400	8.800	Pipe

Fortrug - Hutchinson	180		11.00	124.187	11.00	1	0.40	4.400	4.400	8.800	Pipe
Fortrug - Hutchinson	181	05JG128	11.00	124.416	11.00	1	2.70	29.700	29.700	59.400	Box
Fortrug - Hutchinson	182	05JG129	11.00	124.883	11.00	2	3.70	40.700	40.700	162.800	Box
Fortrug - Hutchinson	183	05JG130	11.00	125.332	11.00	2	3.60	39.600	39.600	158.400	Box
Fortrug - Hutchinson	184	05JG131	11.00	125.734	11.00	2	3.70	40.700	40.700	162.800	Box
Fortrug - Hutchinson	185	05JG132	11.00	126.097	11.00	2	3.70	40.700	40.700	162.800	Box
Fortrug - Hutchinson	186	05JG133	11.00	126.350	11.00	2	3.60	39.600	39.600	158.400	Box
Fortrug - Hutchinson	187	05JG134	11.00	127.105	11.00	1	3.60	39.600	39.600	79.200	Box
Fortrug - Hutchinson	188		11.00	127.856	11.00	1	0.20	2.200	2.200	4.400	Pipe
Fortrug - Hutchinson	189	05HG096	11.00	128.235	11.00	1	1.20	13.200	13.200	26.400	Box
Fortrug - Hutchinson	190	05BG008	11.00	129.138	11.00	1	6.00	66.000	66.000	132.000	Box
Fortrug - Hutchinson	191	05JG135	11.00	129.731	11.00	1	2.70	29.700	29.700	59.400	Box
										218.200	
Hutchinson - Eggoklip	192	05JG136	11.00	130.565	11.00	2	2.10	23.100	23.100	92.400	Box
Hutchinson - Eggoklip	193	05JG137	11.00	130.753	11.00	2	3.00	33.000	33.000	132.000	Box
Hutchinson - Eggoklip	194	05JG138	11.00	131.277	11.00	2	2.80	30.800	30.800	123.200	Box
Hutchinson - Eggoklip	195	05JG139	11.00	131.782	11.00	1	2.70	29.700	29.700	59.400	Box
Hutchinson - Eggoklip	196	05HG097	11.00	132.235	11.00	1	1.80	19.800	19.800	39.600	Box
Hutchinson - Eggoklip	197	05HG098	11.00	132.526	11.00	1	1.80	19.800	19.800	39.600	Box
Hutchinson - Eggoklip	198	05JG140	11.00	132.914	11.00	1	2.60	28.600	28.600	57.200	Box
Hutchinson - Eggoklip	199	05JG141	11.00	133.440	11.00	1	2.70	29.700	29.700	59.400	Box
Hutchinson - Eggoklip	200	05HG099	11.00	133.682	11.00	1	1.10	12.100	12.100	24.200	Box
Hutchinson - Eggoklip	201	05JG142	11.00	134.080	11.00	1	2.60	28.600	28.600	57.200	Box
Hutchinson - Eggoklip	202	05HG100	11.00	135.125	11.00	1	1.80	19.800	19.800	39.600	Box
Hutchinson - Eggoklip	203	05JG143	11.00	135.421	11.00	1	2.70	29.700	29.700	59.400	Box
Hutchinson - Eggoklip	204	05HG101	11.00	136.074	11.00	1	1.20	13.200	13.200	26.400	Box
Hutchinson - Eggoklip	205	05JG144	11.00	136.438	11.00	2	2.70	29.700	29.700	118.800	Box
Hutchinson - Eggoklip	206	05JG145	11.00	136.505	11.00	1	2.70	29.700	29.700	59.400	Box
Hutchinson - Eggoklip	207	05JG146	11.00	136.839	11.00	1	2.70	29.700	29.700	59.400	Box
Hutchinson - Eggoklip	208	05JG147	11.00	137.472	11.00	1	2.70	29.700	29.700	59.400	Box
Hutchinson - Eggoklip	209	05JG148	11.00	137.728	11.00	1	2.80	30.800	30.800	61.600	Box
Hutchinson - Eggoklip	210	05JG149	11.00	138.206	11.00	1	2.60	28.600	28.600	57.200	Box
Hutchinson - Eggoklip	211	05JG150	11.00	139.441	11.00	3	2.70	29.700	29.700	178.200	Box
Hutchinson - Eggoklip	212	05HG102	11.00	140.198	11.00	1	1.20	13.200	13.200	26.400	Box
Hutchinson - Eggoklip	213	05HG103	11.00	140.435	11.00	1	1.20	13.200	13.200	26.400	Box
Hutchinson - Eggoklip	214	05HG104	11.00	140.882	11.00	1	1.30	14.300	14.300	28.600	Box
Hutchinson - Eggoklip	215	05HG105	11.00	141.381	11.00	1	1.80	19.800	19.800	39.600	Box
Hutchinson - Eggoklip	216	05HG106	11.00	142.086	11.00	1	1.80	19.800	19.800	39.600	Box
Hutchinson - Eggoklip	217	05HG107	11.00	142.494	11.00	1	1.80	19.800	19.800	39.600	Box
Hutchinson - Eggoklip	218	05HG108	11.00	142.509	11.00	1	1.80	19.800	19.800	39.600	Box

Hutchinson - Eggoklip	219	05JG151	11.00	142.913	11.00	1	2.70	29.700	29.700	59.400	Box
Hutchinson - Eggoklip	220	05HG109	11.00	143.232	11.00	1	1.60	17.600	17.600	35.200	Box
Hutchinson - Eggoklip	221	05JG152	11.00	143.509	11.00	2	2.80	30.800	30.800	123.200	Box
Hutchinson - Eggoklip	222	05HG110	11.00	144.000	11.00	1	1.70	18.700	18.700	37.400	Box
Hutchinson - Eggoklip	223	05JG153	11.00	144.866	11.00	1	2.40	26.400	26.400	52.800	Box
Hutchinson - Eggoklip	224	05HG111	11.00	145.968	11.00	1	1.30	14.300	14.300	28.600	Box
Hutchinson - Eggoklip	225	05JG155	11.00	146.467	11.00	2	2.80	30.800	30.800	123.200	Box
Hutchinson - Eggoklip	226	05JG156	11.00	146.734	11.00	1	2.90	31.900	31.900	63.800	Box
Hutchinson - Eggoklip	227	05JG157	11.00	147.166	11.00	3	3.60	39.600	39.600	237.600	Box
Hutchinson - Eggoklip	228	05JG158	11.00	148.998	11.00	1	2.30	25.300	25.300	50.600	Box
Hutchinson - Eggoklip	229	05JG159	11.00	149.116	11.00	2	2.70	29.700	29.700	118.800	Box
										267.000	
Eggoklip - Biesiespoort	230	05JG160	11.00	149.432	11.00	2	2.70	29.700	29.700	118.800	Box
Eggoklip - Biesiespoort	231	05JG161	11.00	149.763	11.00	3	2.80	30.800	30.800	184.800	Box
Eggoklip - Biesiespoort	232	05JG162	11.00	149.988	11.00	3	2.80	30.800	30.800	184.800	Box
Eggoklip - Biesiespoort	233	05JG163	11.00	150.153	11.00	4	2.80	30.800	30.800	246.400	Box
Eggoklip - Biesiespoort	234	05JG164	11.00	150.744	11.00	2	2.80	30.800	30.800	123.200	Box
Eggoklip - Biesiespoort	235	05JG165	11.00	151.496	11.00	2	2.70	29.700	29.700	118.800	Box
Eggoklip - Biesiespoort	236	05JG166	11.00	151.742	11.00	3	2.70	29.700	29.700	178.200	Box
Eggoklip - Biesiespoort	237	05JG167	11.00	152.019	11.00	3	2.70	29.700	29.700	178.200	Box
Eggoklip - Biesiespoort	238	05JG168	11.00	153.378	11.00	1	2.70	29.700	29.700	59.400	Box
Eggoklip - Biesiespoort	239	05JG169	11.00	153.652	11.00	1	2.70	29.700	29.700	59.400	Box
Eggoklip - Biesiespoort	240	05JG170	11.00	154.290	11.00	1	3.80	41.800	41.800	83.600	Box
Eggoklip - Biesiespoort	241	05JG171	11.00	154.873	11.00	1	2.70	29.700	29.700	59.400	Box
										1595.000	
Biesiespoort - Stapelia	242	05JG172	11.00	155.384	11.00	1	2.80	30.800	30.800	61.600	Box
Biesiespoort - Stapelia	243	05JG173	11.00	155.536	11.00	1	2.70	29.700	29.700	59.400	Box
Biesiespoort - Stapelia	244	05JG174	11.00	158.724	11.00	3	3.20	35.200	35.200	211.200	Box
										882.200	
Stapelia - Hazel	245	05JG178	11.00	160.743	11.00	2	3.00	33.000	33.000	132.000	Box
Stapelia - Hazel	246	05JG179	11.00	160.804	11.00	1	3.70	40.700	40.700	81.400	Box
Stapelia - Hazel	247	1666	11.00	161.304	11.00	2	0.60	6.600	6.600	26.400	Pipe
Stapelia - Hazel	248	05JG180	11.00	161.477	11.00	1	2.70	29.700	29.700	59.400	Box
Stapelia - Hazel	249		11.00	161.762	11.00	2	0.40	4.400	4.400	17.600	Pipe
Stapelia - Hazel	250	05JG181	11.00	162.659	11.00	3	2.70	29.700	29.700	178.200	Box
Stapelia - Hazel	251	05JG182	11.00	162.761	11.00	1	2.10	23.100	23.100	46.200	Box
Stapelia - Hazel	252	05JG183	11.00	163.112	11.00	1	2.70	29.700	29.700	59.400	Box
Stapelia - Hazel	253	05JG184	11.00	163.909	11.00	1	2.80	30.800	30.800	61.600	Box
Stapelia - Hazel	254	05HG112	11.00	164.480	11.00	1	1.80	19.800	19.800	39.600	Box
Stapelia - Hazel	255	05JG185	11.00	165.022	11.00	3	2.70	29.700	29.700	178.200	Box

Stapelia - Hazel	256	05HG113	11.00	165.640	11.00	1	1.80	19.800	19.800	39.600	Box
Stapelia - Hazel	257	05JG186	11.00	165.937	11.00	1	2.80	30.800	30.800	61.600	Box
Stapelia - Hazel	258	05JG187	11.00	166.052	11.00	2	3.60	39.600	39.600	158.400	Box
Stapelia - Hazel	259	05JG188	11.00	166.268	11.00	1	3.10	34.100	34.100	68.200	Box
Stapelia - Hazel	260	05JG189	11.00	166.847	11.00	2	2.80	30.800	30.800	123.200	Box
Stapelia - Hazel	261	05HG114	11.00	167.151	11.00	1	1.80	19.800	19.800	39.600	Box
Stapelia - Hazel	262	05JG190	11.00	167.798	11.00	1	2.80	30.800	30.800	61.600	Box
Stapelia - Hazel	263	05JG191	11.00	167.996	11.00	2	2.60	28.600	28.600	114.400	Box
Stapelia - Hazel	264	05HG115	11.00	168.380	11.00	1	1.80	19.800	19.800	39.600	Box
Stapelia - Hazel	265	05HG116	11.00	168.696	11.00	1	1.80	19.800	19.800	39.600	Box
Stapelia - Hazel	266	05JG192	11.00	168.951	11.00	1	2.70	29.700	29.700	59.400	Box
Stapelia - Hazel	267	05BG010	11.00	170.026	11.00	2	1.22	13.409	13.409	53.636	Box
Stapelia - Hazel	268	05JG193	11.00	170.289	11.00	2	2.70	29.700	29.700	118.800	Box
Stapelia - Hazel	269	05JG194	11.00	170.583	11.00	1	2.80	30.800	30.800	61.600	Box
Stapelia - Hazel	270	05HG117	11.00	170.998	11.00	2	1.80	19.800	19.800	79.200	Box
Stapelia - Hazel	271	05JG195	11.00	171.332	11.00	1	2.80	30.800	30.800	61.600	Box
Stapelia - Hazel	272	05HG118	11.00	171.921	11.00	2	1.50	16.500	16.500	66.000	Box
										2126.036	
Hazel - Three Sisters	273	05JG196	11.00	172.631	11.00	2	2.70	29.700	29.700	118.800	Box
Hazel - Three Sisters	274	05HG119	11.00	172.971	11.00	2	1.70	18.700	18.700	74.800	Box
Hazel - Three Sisters	275	05JG197	11.00	173.997	11.00	2	2.80	30.800	30.800	123.200	Box
Hazel - Three Sisters	276	05JG198	11.00	174.865	11.00	1	2.70	29.700	29.700	59.400	Box
Hazel - Three Sisters	277	05JG199	11.00	175.113	11.00	1	2.70	29.700	29.700	59.400	Box
Hazel - Three Sisters	278	05JG200	11.00	175.367	11.00	2	2.80	30.800	30.800	123.200	Box
Hazel - Three Sisters	279	05JG201	11.00	176.578	11.00	1	2.60	28.600	28.600	57.200	Box
Hazel - Three Sisters	280	05JG202	11.00	177.244	11.00	1	2.70	29.700	29.700	59.400	Box
Hazel - Three Sisters	281	05JG203	11.00	177.643	11.00	1	3.60	39.600	39.600	79.200	Box
Hazel - Three Sisters	282	05JG204	11.00	178.098	11.00	1	2.70	29.700	29.700	59.400	Box
Hazel - Three Sisters	283	05HG120	11.00	179.002	11.00	1	1.90	20.900	20.900	41.800	Box
Hazel - Three Sisters	284	05HG121	11.00	179.243	11.00	1	1.90	20.900	20.900	41.800	Box
										2076.604	
Three Sisters - Trivalia	285	05JG205	11.00	179.879	11.00	2	2.70	29.700	29.700	118.800	Box
Three Sisters - Trivalia	286	05JG206	11.00	182.286	11.00	2	5.60	61.600	61.600	246.400	Box
Three Sisters - Trivalia	287	05JG207	11.00	182.542	11.00	2	5.70	62.700	62.700	250.800	Box
Three Sisters - Trivalia	288	05JG208	11.00	183.124	11.00	1	2.80	30.800	30.800	61.600	Box
Three Sisters - Trivalia	289	05JG209	11.00	183.320	11.00	1	2.80	30.800	30.800	61.600	Box
Three Sisters - Trivalia	290	05JG210	11.00	183.799	11.00	1	2.70	29.700	29.700	59.400	Box
Three Sisters - Trivalia	291	05JG211	11.00	184.402	11.00	1	2.80	30.800	30.800	61.600	Box
Three Sisters - Trivalia	292	05JG212	11.00	185.026	11.00	1	2.80	30.800	30.800	61.600	Box
Three Sisters - Trivalia	293	05JG213	11.00	185.627	11.00	1	2.80	30.800	30.800	61.600	Box

Three Sisters - Travalia	294	05JG214	11.00	186.096	11.00	1	2.70	29.700	29.700	59.400	Box
										1162.800	
Travelia - Kromrivier	295	05JG215	11.00	186.576	11.00	2	3.00	33.000	33.000	132.000	Box
Travelia - Kromrivier	296	05JG216	11.00	186.794	11.00	2	3.00	33.000	33.000	132.000	Box
Travelia - Kromrivier	297	05JG217	11.00	187.260	11.00	2	2.70	29.700	29.700	118.800	Box
Travelia - Kromrivier	298	05JG218	11.00	187.915	11.00	3	3.00	33.000	33.000	198.000	Box
Travelia - Kromrivier	299	05HG122	11.00	188.359	11.00	1	1.80	19.800	19.800	39.600	Box
Travelia - Kromrivier	300	05HG123	11.00	188.753	11.00	1	1.80	19.800	19.800	39.600	Box
Travelia - Kromrivier	301	05HG124	11.00	189.447	11.00	1	1.80	19.800	19.800	39.600	Box
Travelia - Kromrivier	302	05HG125	11.00	189.720	11.00	1	1.80	19.800	19.800	39.600	Box
Travelia - Kromrivier	303	05JG219	11.00	190.340	11.00	1	2.60	28.600	28.600	57.200	Box
Travelia - Kromrivier	304	05JG220	11.00	190.941	11.00	2	2.70	29.700	29.700	118.800	Box
Travelia - Kromrivier	305	05JG221	11.00	191.334	11.00	2	2.60	28.600	28.600	114.400	Box
Travelia - Kromrivier	306	05JG222	11.00	191.943	11.00	2	2.70	29.700	29.700	118.800	Box
Travelia - Kromrivier	307	05JG223	11.00	192.941	11.00	1	2.60	28.600	28.600	57.200	Box
										1200.600	
Kromrivier - Ganna	308	05JG224	11.00	195.127	11.00	2	3.50	38.500	38.500	154.000	Box
Kromrivier - Ganna	309	05JG225	11.00	195.151	11.00	1	3.50	38.500	38.500	77.000	Box
Kromrivier - Ganna	310	05JG226	11.00	195.261	11.00	1	2.60	28.600	28.600	57.200	Box
Kromrivier - Ganna	311	05JG227	11.00	195.372	11.00	1	2.60	28.600	28.600	57.200	Box
Kromrivier - Ganna	312	05HG127	11.00	195.993	11.00	1	1.90	20.900	20.900	41.800	Box
Kromrivier - Ganna	313	05JG228	11.00	196.681	11.00	1	2.60	28.600	28.600	57.200	Box
Kromrivier - Ganna	314	05JG229	11.00	196.854	11.00	4	2.60	28.600	28.600	228.800	Box
Kromrivier - Ganna	315	05JG230	11.00	197.083	11.00	1	2.70	29.700	29.700	59.400	Box
Kromrivier - Ganna	316	05HG128	11.00	197.269	11.00	2	2.70	29.700	29.700	118.800	Box
Kromrivier - Ganna	317	05JG231	11.00	197.633	11.00	1	2.70	29.700	29.700	59.400	Box
Kromrivier - Ganna	318	05JG232	11.00	198.173	11.00	1	2.70	29.700	29.700	59.400	Box
Kromrivier - Ganna	319	05JG233	11.00	199.275	11.00	2	2.70	29.700	29.700	118.800	Box
Kromrivier - Ganna	320	05JG234	11.00	199.749	11.00	2	2.70	29.700	29.700	118.800	Box
Kromrivier - Ganna	321	05HG129	11.00	199.939	11.00	1	1.90	20.900	20.900	41.800	Box
Kromrivier - Ganna	322	05JG235	11.00	200.754	11.00	1	2.70	29.700	29.700	59.400	Box
										1309.400	
Ganna - Nelspoort	323	05HG130	11.00	201.440	11.00	1	1.80	19.800	19.800	39.600	Box
Ganna - Nelspoort	324		11.00	202.026	11.00	5	7.62	83.820	83.820	838.200	Box
Ganna - Nelspoort	325	05HG131	11.00	202.333	11.00	1	1.70	18.700	18.700	37.400	Box
Ganna - Nelspoort	326	05JG236	11.00	203.262	11.00	1	2.60	28.600	28.600	57.200	Box
Ganna - Nelspoort	327	05JG237	11.00	204.049	11.00	1	2.60	28.600	28.600	57.200	Box
Ganna - Nelspoort	328	05JG238	11.00	204.332	11.00	1	2.70	29.700	29.700	59.400	Box
Ganna - Nelspoort	329	05JG239	11.00	204.778	11.00	3	2.80	30.800	30.800	184.800	Box
Ganna - Nelspoort	330		11.00	204.890	11.00	1	0.30	3.300	3.300	6.600	Pipe

Ganna - Nelspoort	331	05HG132	11.00	205.116	11.00	1	1.90	20.900	20.900	41.800	Box
Ganna - Nelspoort	332	05JG240	11.00	205.284	11.00	1	4.70	51.700	51.700	103.400	Box
Ganna - Nelspoort	333	05HG133	11.00	205.424	11.00	1	1.90	20.900	20.900	41.800	Box
Ganna - Nelspoort	334	05JG241	11.00	205.619	11.00	1	2.90	31.900	31.900	63.800	Box
Ganna - Nelspoort	335	05HG134	11.00	205.913	11.00	1	1.70	18.700	18.700	37.400	Box
Ganna - Nelspoort	336	05JG242	11.00	206.245	11.00	1	2.70	29.700	29.700	59.400	Box
Ganna - Nelspoort	337	05JG243	11.00	206.522	11.00	1	2.70	29.700	29.700	59.400	Box
Ganna - Nelspoort	338		11.00	207.024	11.00	2	10.00	110.000	110.000	440.000	Box
Ganna - Nelspoort	339	05HG135	11.00	207.592	11.00	1	1.20	13.200	13.200	26.400	Box
Ganna - Nelspoort	340	05JG245	11.00	207.986	11.00	1	3.60	39.600	39.600	79.200	Box
Nelspoort - Juk	341	05HG136	11.00	208.489	11.00	1	1.80	19.800	19.800	39.600	Box
Nelspoort - Juk	342	05JG246	11.00	209.059	11.00	2	2.40	26.400	26.400	105.600	Box
Nelspoort - Juk	343	05JG247	11.00	209.512	11.00	2	2.60	28.600	28.600	114.400	Box
Nelspoort - Juk	344	05HG137	11.00	210.147	11.00	1	1.50	16.500	16.500	33.000	Box
Nelspoort - Juk	345	05JG248	11.00	210.389	11.00	2	2.60	28.600	28.600	114.400	Box
Nelspoort - Juk	346	05JG249	11.00	211.102	11.00	1	2.90	31.900	31.900	63.800	Box
Nelspoort - Juk	347	05JG250	11.00	211.132	11.00	1	2.80	30.800	30.800	61.600	Box
Nelspoort - Juk	348	05JG251	11.00	211.582	11.00	1	2.70	29.700	29.700	59.400	Box
Nelspoort - Juk	349	05JG252	11.00	212.692	11.00	1	2.90	31.900	31.900	63.800	Box
Juk - Riem	350	05HG138	11.00	213.995	11.00	2	2.70	29.700	29.700	118.800	Box
Juk - Riem	351	05JG253	11.00	214.182	11.00	2	3.60	39.600	39.600	158.400	Box
Juk - Riem	352	05JG254	11.00	214.431	11.00	2	3.70	40.700	40.700	162.800	Box
Juk - Riem	353	05JG255	11.00	215.074	11.00	2	2.70	29.700	29.700	118.800	Box
Juk - Riem	354	05JG256	11.00	215.192	11.00	2	2.80	30.800	30.800	123.200	Box
Juk - Riem	355	05JG257	11.00	215.943	11.00	2	3.60	39.600	39.600	158.400	Box
Juk - Riem	356	05JG258	11.00	216.413	11.00	1	2.80	30.800	30.800	61.600	Box
Juk - Riem	357	05JG259	11.00	216.501	11.00	1	3.00	33.000	33.000	66.000	Box
Juk - Riem	358		11.00	216.717	11.00	4	5.90	64.900	64.900	519.200	Box
Juk - Riem	359		11.00	217.007	11.00	1	1.80	19.800	19.800	39.600	Box
Juk - Riem	360		11.00	217.081	11.00	1	1.90	20.900	20.900	41.800	Box
Juk - Riem	361		11.00	217.210	11.00	1	1.80	19.800	19.800	39.600	Box
Juk - Riem	362	05HG142	11.00	217.812	11.00	1	1.90	20.900	20.900	41.800	Box
Riem - Ysterrante	363		11.00	218.272	11.00	1	0.40	4.400	4.400	8.800	Pipe
Riem - Ysterrante	364	05HG143	11.00	218.386	11.00	2	1.90	20.900	20.900	83.600	Box
Riem - Ysterrante	365	05HG144	11.00	219.424	11.00	2	1.80	19.800	19.800	79.200	Box
Riem - Ysterrante	366	05JG260	11.00	219.840	11.00	2	3.50	38.500	38.500	154.000	Box
Riem - Ysterrante	367	05JG261	11.00	220.031	11.00	1	3.00	33.000	33.000	66.000	Box

Riem - Ysterrante	368	05HG145	11.00	220.181	11.00	1	1.80	19.800	19.800	39.600	Box
Riem - Ysterrante	369	05JG262	11.00	220.450	11.00	1	3.00	33.000	33.000	66.000	Box
Riem - Ysterrante	370	05HG146	11.00	220.676	11.00	1	2.00	22.000	22.000	44.000	Box
Riem - Ysterrante	371	05JG263	11.00	220.910	11.00	1	3.00	33.000	33.000	66.000	Box
Riem - Ysterrante	372	05HG147	11.00	221.196	11.00	1	1.80	19.800	19.800	39.600	Box
Riem - Ysterrante	373	05HG148	11.00	221.601	11.00	2	1.90	20.900	20.900	83.600	Box
Riem - Ysterrante	374	05JG264	11.00	222.034	11.00	1	3.60	39.600	39.600	79.200	Box
Riem - Ysterrante	375	05HG149	11.00	222.507	11.00	1	2.00	22.000	22.000	44.000	Box
										442.500	
Yaterrante - Renosterkop	376	05HG150	11.00	222.813	11.00	1	1.20	13.200	13.200	26.400	Box
Yaterrante - Renosterkop	377	05JG265	11.00	223.061	11.00	1	3.70	40.700	40.700	81.400	Box
Yaterrante - Renosterkop	378	05HG151	11.00	223.283	11.00	1	1.00	11.000	11.000	22.000	Box
Yaterrante - Renosterkop	379	05JG266	11.00	223.405	11.00	1	2.50	27.500	27.500	55.000	Box
Yaterrante - Renosterkop	380	05HG152	11.00	223.579	11.00	1	1.10	12.100	12.100	24.200	Box
Yaterrante - Renosterkop	381	05HG153	11.00	223.978	11.00	1	1.80	19.800	19.800	39.600	Box
Yaterrante - Renosterkop	382	05JG267	11.00	224.240	11.00	1	3.60	39.600	39.600	79.200	Box
Yaterrante - Renosterkop	383	05HG154	11.00	224.529	11.00	1	1.20	13.200	13.200	26.400	Box
Yaterrante - Renosterkop	384	05HG155	11.00	224.927	11.00	1	1.20	13.200	13.200	26.400	Box
Yaterrante - Renosterkop	385	05JG268	11.00	225.347	11.00	3	3.90	42.900	42.900	257.400	Box
Yaterrante - Renosterkop	386	05JG269	11.00	225.836	11.00	1	2.70	29.700	29.700	59.400	Box
Yaterrante - Renosterkop	387	05JG270	11.00	226.107	11.00	4	2.70	29.700	29.700	237.600	Box
Yaterrante - Renosterkop	388	05JG271	11.00	226.829	11.00	3	2.70	29.700	29.700	178.200	Box
Yaterrante - Renosterkop	389	05JG272	11.00	227.341	11.00	6	3.50	38.500	38.500	462.000	Box
Yaterrante - Renosterkop	390	05HG156	11.00	227.495	11.00	1	1.80	19.800	19.800	39.600	Box
										4614.800	
Renosterkop - Lemoen	391	05HG157	11.00	228.193	11.00	2	2.50	27.500	27.500	110.000	Box
Renosterkop - Lemoen	392	05JG273	11.00	229.636	11.00	2	2.80	30.800	30.800	123.200	Box
Renosterkop - Lemoen	393	05JG274	11.00	231.367	11.00	4	2.40	26.400	26.400	211.200	Box
Renosterkop - Lemoen	394	05HG158	11.00	233.416	11.00	1	1.80	19.800	19.800	39.600	Box
Renosterkop - Lemoen	395	05BG016	11.00	235.490	11.00	4	6.09	66.990	66.990	535.920	Box
Renosterkop - Lemoen	396	05JG275	11.00	235.817	11.00	1	2.70	29.700	29.700	59.400	Box
Renosterkop - Lemoen	397	05JG276	11.00	237.446	11.00	4	2.60	28.600	28.600	228.800	Box
Renosterkop - Lemoen	398	05JG277	11.00	237.824	11.00	3	5.50	60.500	60.500	363.000	Box
Renosterkop - Lemoen	399	05JG278	11.00	238.183	11.00	5	3.20	35.200	35.200	352.000	Box
										4077.120	
Lemoen - Beaufort West	400	05JG279	11.00	239.593	11.00	2	3.60	39.600	39.600	158.400	Box
Lemoen - Beaufort West	401	05BG017	11.00	241.260	11.00	1	6.00	66.000	66.000	132.000	Box
Lemoen - Beaufort West	402	05HG159	11.00	243.903	11.00	1	1.10	12.100	12.100	24.200	Box
Lemoen - Beaufort West	403	05JG280	11.00	244.803	11.00	1	2.70	29.700	29.700	59.400	Box
Lemoen - Beaufort West	404	05JG281	11.00	246.253	11.00	1	3.60	39.600	39.600	79.200	Box

Lemoen - Beaufort West	405	05JG282	11.00	247.732	11.00	2	2.80	30.800	30.800	123.200	Box
Lemoen - Beaufort West	406	05JG283	11.00	248.309	11.00	2	2.60	28.600	28.600	114.400	Box
Lemoen - Beaufort West	407	05BG018	11.00	249.864	11.00	1	5.80	63.800	63.800	127.600	Box
Lemoen - Beaufort West	408	05JG284	11.00	250.288	11.00	1	3.60	39.600	39.600	79.200	Box
Lemoen - Beaufort West	409	05JG285	11.00	251.037	11.00	1	2.70	29.700	29.700	59.400	Box
Lemoen - Beaufort West	410	05HG160	11.00	253.812	11.00	1	1.80	19.800	19.800	39.600	Box
Lemoen - Beaufort West	411	05BG019	11.00	254.263	11.00	2	5.90	64.900	64.900	259.600	Box
Lemoen - Beaufort West	412	05BG020	11.00	254.438	11.00	2	6.00	66.000	66.000	264.000	Box
Lemoen - Beaufort West	413	05BG021	11.00	254.560	11.00	1	5.80	63.800	63.800	127.600	Box
Lemoen - Beaufort West	414	05BG022	11.00	255.964	11.00	3	6.00	66.000	66.000	396.000	Box
Lemoen - Beaufort West	415	05BG023	11.00	256.290	11.00	5	6.00	66.000	66.000	660.000	Box
Lemoen - Beaufort West	416	05JG286	11.00	256.679	11.00	1	2.80	30.800	30.800	61.600	Box
Lemoen - Beaufort West	417	05JG287	11.00	257.508	11.00	1	2.60	28.600	28.600	57.200	Box
Lemoen - Beaufort West	418	05JG288	11.00	257.776	11.00	1	4.30	47.300	47.300	94.600	Box
										2917.200	
De Aar - Britsville				251.800							
Britsville - Die Put				239.200							
Die Put - Oloff				198.400							
Oloff - Joen				149.600							
Joen - Deelfontein				754.000							
Deelfontein - Plaatfontein				918.000							
Plaatfontein - Sterkaar				154.700							
Sterkaar - Laken				330.200							
Laken - Merriman				336.000							
Merriman - Wildebeeste				330.100							
Wildebeeste - Brakpoort				113.200							
Brakpoort - Fortrug				117.000							
Fortrug - Hutchinson				282.600							
Hutchinson - Eggoklip				274.000							
Eggoklip - Biesiespoort				135.000							
Biesiespoort - Stapelia				332.200							
Stapelia - Hazel				313.000							
Hazel - Three Sisters				397.300							
Three Sisters - Travalia				1042.300							
Travalia - Kromrivier				1205.000							
Kromrivier - Ganna				1309.000							
Ganna - Nelspoort				2233.000							
Nelspoort - Juk				655.600							

Juk - Riem		
Riem - Ysterrante		
Yaterrante - Renosterkop		
Renosterkop - Lemoen		
Lemoen - Beaufort West		

Total Area = 40107.716 m² = 0.040108 km²

156 Culverts

**Belmont - Douglas
(Line 119)**

Number	Culvert						Area	Area	m ²	Type	
	Asset number	Fence (LHS)	km distance on track	Fence (RHS)	Number of Spans	Width of Span	m ² (Fence L)	m ² (Fence R)	Total Area		
Salt Lake - Bakenskop	1	05JB341	11.00	42.418	11.00	1	1.85	20.350	20.350	40.700	Box
Salt Lake - Bakenskop	2	05JB342	11.00	42.731	11.00	1	1.85	20.350	20.350	40.700	Box
Salt Lake - Bakenskop	3	05JB343	11.00	43.197	11.00	1	1.85	20.350	20.350	40.700	Box
Salt Lake - Bakenskop	4	05JB344	11.00	43.560	11.00	1	1.85	20.350	20.350	40.700	Box
Salt Lake - Bakenskop	5	05JB345	11.00	43.922	11.00	1	1.85	20.350	20.350	40.700	Box
Salt Lake - Bakenskop	6	05JB346	11.00	44.380	11.00	1	1.85	20.350	20.350	40.700	Box
Salt Lake - Bakenskop	7	05JB347	11.00	44.790	11.00	1	1.85	20.350	20.350	40.700	Box
Salt Lake - Bakenskop	8	05JB348	11.00	45.272	11.00	1	1.85	20.350	20.350	40.700	Box
Salt Lake - Bakenskop	9	05JB349	11.00	46.018	11.00	1	1.85	20.350	20.350	40.700	Box
Salt Lake - Bakenskop	10	05JB350	11.00	46.195	11.00	1	1.85	20.350	20.350	40.700	Box
Salt Lake - Bakenskop	11	05JB351	11.00	47.239	11.00	1	1.85	20.350	20.350	40.700	Box
Salt Lake - Bakenskop	12	05JB352	11.00	47.430	11.00	1	1.85	20.350	20.350	40.700	Box
Salt Lake - Bakenskop	13	05JB353	11.00	47.772	11.00	1	1.85	20.350	20.350	40.700	Box
Salt Lake - Bakenskop	14	05JB354	11.00	48.290	11.00	1	1.85	20.350	20.350	40.700	Box
Salt Lake - Bakenskop	15	05JB355	11.00	48.977	11.00	1	1.85	20.350	20.350	40.700	Box
Salt Lake - Bakenskop	16	05JB356	11.00	49.254	11.00	1	1.85	20.350	20.350	40.700	Box
Salt Lake - Bakenskop	17	05JB357	11.00	49.565	11.00	1	2.75	30.250	30.250	60.500	Box
Salt Lake - Bakenskop	18	05JB358	11.00	50.020	11.00	1	1.85	20.350	20.350	40.700	Box
Salt Lake - Bakenskop	19	05JB359	11.00	50.432	11.00	1	2.75	30.250	30.250	60.500	Box
Salt Lake - Bakenskop	20	05JB360	11.00	51.209	11.00	1	1.85	20.350	20.350	40.700	Box
Salt Lake - Bakenskop	21	05JB361	11.00	51.621	11.00	1	2.75	30.250	30.250	60.500	Box
Salt Lake - Bakenskop	22	05JB	11.00	51.666	11.00	1	0.90	9.900	9.900	19.800	Pipe
Salt Lake - Bakenskop	23	05JB362	11.00	51.722	11.00	1	2.75	30.250	30.250	60.500	Box
Salt Lake - Bakenskop	24	05JB363	11.00	51.903	11.00	1	1.80	19.800	19.800	39.600	Box
Salt Lake - Bakenskop	25	05JB364	11.00	52.092	11.00	1	1.85	20.350	20.350	40.700	Box
Salt Lake - Bakenskop	26	05JB365	11.00	52.280	11.00	1	1.85	20.350	20.350	40.700	Box
Salt Lake - Bakenskop	27	05JB366	11.00	52.701	11.00	1	1.85	20.350	20.350	40.700	Box
Salt Lake - Bakenskop	28	05JB	11.00	52.760	11.00	3	0.30	3.300	3.300	19.800	Pipe
Salt Lake - Bakenskop	29	05JB	11.00	52.771	11.00	2	0.90	9.900	9.900	39.600	Pipe

Salt Lake - Bakenskop	30	05JB	11.00	52.880	11.00	2	0.30
Salt Lake - Bakenskop	31	05JB367	11.00	53.007	11.00	1	1.85
Salt Lake - Bakenskop	32	05JB368	11.00	53.188	11.00	1	1.85
Salt Lake - Bakenskop	33	05JB369	11.00	53.604	11.00	1	1.85
Salt Lake - Bakenskop	34	05JB370	11.00	53.896	11.00	1	1.85
Salt Lake - Bakenskop	35	05JB371	11.00	54.680	11.00	1	1.85
Salt Lake - Bakenskop	36	05JB	11.00	54.969	11.00	1	0.45
Salt Lake - Bakenskop	37	05JB372	11.00	55.292	11.00	1	1.85
Salt Lake - Bakenskop	38	05JB373	11.00	55.710	11.00	1	1.85
Salt Lake - Bakenskop	39	05JB374	11.00	56.138	11.00	1	1.85
Salt Lake - Bakenskop	40	05JB375	11.00	56.579	11.00	1	1.85
Salt Lake - Bakenskop	41	05JB376	11.00	56.876	11.00	1	1.85
Salt Lake - Bakenskop	42	05JB377	11.00	57.400	11.00	1	1.85
Salt Lake - Bakenskop	43	05JB378	11.00	57.904	11.00	1	1.85
Salt Lake - Bakenskop	44	05JB379	11.00	57.957	11.00	1	1.85
Salt Lake - Bakenskop	45	05JB380	11.00	58.155	11.00	1	1.85
Salt Lake - Bakenskop	46	05JB381	11.00	58.512	11.00	1	1.85
Salt Lake - Bakenskop	47	05JB382	11.00	58.775	11.00	1	1.85
Salt Lake - Bakenskop	48	05JB383	11.00	59.066	11.00	1	1.85
Salt Lake - Bakenskop	49	05JB384	11.00	59.575	11.00	1	1.85
Salt Lake - Bakenskop	50	05JB385	11.00	60.185	11.00	1	1.85
Salt Lake - Bakenskop	51	05JB386	11.00	60.406	11.00	1	1.85
Salt Lake - Bakenskop	52	05JB387	11.00	60.825	11.00	1	1.85
Salt Lake - Bakenskop	53	05JB388	11.00	61.175	11.00	1	1.85
Salt Lake - Bakenskop	54	05JB389	11.00	61.691	11.00	1	1.85
Salt Lake - Bakenskop	55	05JB390	11.00	62.259	11.00	1	1.85
Salt Lake - Bakenskop	56	05JB391	11.00	62.478	11.00	1	1.85
Salt Lake - Bakenskop	57	05JB392	11.00	62.802	11.00	1	1.85
Salt Lake - Bakenskop	58	05JB393	11.00	63.064	11.00	1	1.85
Salt Lake - Bakenskop	59	05JB394	11.00	63.245	11.00	1	1.85
Salt Lake - Bakenskop	60	05JB395	11.00	63.846	11.00	1	1.80
Salt Lake - Bakenskop	61	05JB396	11.00	64.249	11.00	1	1.80
Salt Lake - Bakenskop	62	05JB397	11.00	64.533	11.00	1	1.80
Salt Lake - Bakenskop	63	05JB398	11.00	65.148	11.00	1	2.73
Salt Lake - Bakenskop	64	05JB399	11.00	65.400	11.00	1	1.90
Salt Lake - Bakenskop	65	05JB400	11.00	65.601	11.00	1	1.80
Salt Lake - Bakenskop	66	05JB401	11.00	66.136	11.00	1	1.90
Salt Lake - Bakenskop	67	05JB402	11.00	66.427	11.00	1	1.80

3.300	3.300	13.200	Pipe
20.350	20.350	40.700	Box
20.350	20.350	40.700	Box
20.350	20.350	40.700	Box
20.350	20.350	40.700	Box
20.350	20.350	40.700	Box
4.950	4.950	9.900	Pipe
20.350	20.350	40.700	Box
20.350	20.350	40.700	Box
20.350	20.350	40.700	Box
20.350	20.350	40.700	Box
20.350	20.350	40.700	Box
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20.350	20.350	40.700	Box
20.350	20.350	40.700	Box
20.350	20.350	40.700	Box
20.350	20.350	40.700	Box
19.800	19.800	39.600	Box
19.800	19.800	39.600	Box
19.800	19.800	39.600	Box
30.030	30.030	60.060	Box
20.900	20.900	41.800	Box
19.800	19.800	39.600	Box
20.900	20.900	41.800	Box
19.800	19.800	39.600	Box

											244,860	
Bakenskop - Broadwaters	68	05JB403	11.00	67.162	11.00	1	1.80	19.800	19.800	39.600	Box	
Bakenskop - Broadwaters	69	05JB404	11.00	67.303	11.00	1	1.80	19.800	19.800	39.600	Box	
Bakenskop - Broadwaters	70	05JB405	11.00	67.904	11.00	2	2.75	30.250	30.250	121.000	Box	
Bakenskop - Broadwaters	71	05JB406	11.00	68.359	11.00	1	1.80	19.800	19.800	39.600	Box	
Bakenskop - Broadwaters	72	05JB407	11.00	68.766	11.00	1	1.90	20.900	20.900	41.800	Box	
Bakenskop - Broadwaters	73	05JB408	11.00	69.129	11.00	1	1.80	19.800	19.800	39.600	Box	
Bakenskop - Broadwaters	74	05JB409	11.00	69.350	11.00	1	1.80	19.800	19.800	39.600	Box	
Bakenskop - Broadwaters	75	05JB410	11.00	69.652	11.00	1	1.80	19.800	19.800	39.600	Box	
Bakenskop - Broadwaters	76	05JB411	11.00	70.035	11.00	1	1.80	19.800	19.800	39.600	Box	
Bakenskop - Broadwaters	77	05JB412	11.00	70.374	11.00	1	1.80	19.800	19.800	39.600	Box	
Bakenskop - Broadwaters	78	05JB413	11.00	70.765	11.00	1	1.80	19.800	19.800	39.600	Box	
Bakenskop - Broadwaters	79	05JB414	11.00	71.149	11.00	1	1.80	19.800	19.800	39.600	Box	
Bakenskop - Broadwaters	80		11.00	71.240	11.00	1	0.20	2.200	2.200	4.400	Pipe	
Bakenskop - Broadwaters	81		11.00	71.310	11.00	1	0.20	2.200	2.200	4.400	Pipe	
Bakenskop - Broadwaters	82	05JB415	11.00	71.713	11.00	1	1.80	19.800	19.800	39.600	Box	
Bakenskop - Broadwaters	83		11.00	71.770	11.00	1	0.20	2.200	2.200	4.400	Pipe	
Bakenskop - Broadwaters	84		11.00	72.000	11.00	1	0.20	2.200	2.200	4.400	Pipe	
Bakenskop - Broadwaters	85	05JB416	11.00	72.498	11.00	2	2.70	29.700	29.700	118.800	Box	
Bakenskop - Broadwaters	86	05JB417	11.00	72.843	11.00	1	1.80	19.800	19.800	39.600	Box	
Bakenskop - Broadwaters	87	05JB	11.00	73.211	11.00	1	0.90	9.900	9.900	19.800	Pipe	
Bakenskop - Broadwaters	87	05HB001	11.00	73.460	11.00	1	0.50	5.500	5.500	11.000	Box	
											305,240	
Broadwaters - Douglas	88		11.00	73.789	11.00	2	2.65	29.150	29.150	116.600	Box	
Broadwaters - Douglas	89	05JB	11.00	73.843	11.00	1	0.40	4.400	4.400	8.800	Pipe	
Broadwaters - Douglas	90	05JB	11.00	74.016	11.00	1	0.40	4.400	4.400	8.800	Pipe	
Broadwaters - Douglas	91	05JB	11.00	74.195	11.00	1	0.90	9.900	9.900	19.800	Pipe	
Broadwaters - Douglas	92	05JB	11.00	74.298	11.00	1	0.90	9.900	9.900	19.800	Pipe	
Broadwaters - Douglas	93	05JB	11.00	74.500	11.00	1	0.90	9.900	9.900	19.800	Pipe	
Broadwaters - Douglas	94	05JB419	11.00	74.746	11.00	1	2.80	30.800	30.800	61.600	Box	
Broadwaters - Douglas	95	05JB420	11.00	74.861	11.00	1	2.70	29.700	29.700	59.400	Box	
Broadwaters - Douglas	96	05JB421	11.00	74.948	11.00	1	1.80	19.800	19.800	39.600	Box	
Broadwaters - Douglas	97	05JB422	11.00	75.059	11.00	1	1.80	19.800	19.800	39.600	Box	
Broadwaters - Douglas	98	05JB423	11.00	75.231	11.00	1	2.70	29.700	29.700	59.400	Box	
Broadwaters - Douglas	99	05JB424	11.00	75.442	11.00	1	2.75	30.250	30.250	60.500	Box	
Broadwaters - Douglas	100	05JB	11.00	75.519	11.00	1	0.90	9.900	9.900	19.800	Pipe	
Broadwaters - Douglas	101	05JB425	11.00	75.662	11.00	1	1.80	19.800	19.800	39.600	Box	
Broadwaters - Douglas	102	05JB426	11.00	76.015	11.00	1	1.80	19.800	19.800	39.600	Box	

Broadwaters - Douglas	103		11.00	76.130	11.00	1	0.20
Broadwaters - Douglas	104	05JB427	11.00	76.337	11.00	1	1.80
Broadwaters - Douglas	105		11.00	76.450	11.00	1	0.20
Broadwaters - Douglas	106	05JB428	11.00	76.671	11.00	1	1.90
Broadwaters - Douglas	107	05JB429	11.00	76.845	11.00	1	1.75
Broadwaters - Douglas	108	05JB430	11.00	77.025	11.00	2	1.86
Broadwaters - Douglas	109	05JB431	11.00	77.190	11.00	2	1.85
Broadwaters - Douglas	110	05JB432	11.00	77.376	11.00	2	2.70
Broadwaters - Douglas	111	05JB	11.00	77.521	11.00	1	0.90
Broadwaters - Douglas	112	05JB	11.00	77.738	11.00	1	0.90
Broadwaters - Douglas	113	05JB433	11.00	77.786	11.00	2	2.75
Broadwaters - Douglas	114	05JB	11.00	77.973	11.00	1	0.90
Broadwaters - Douglas	115	05JB434	11.00	78.074	11.00	1	1.80
Broadwaters - Douglas	116		11.00	78.090	11.00	1	0.20
Broadwaters - Douglas	117		11.00	78.120	11.00	1	0.30
Broadwaters - Douglas	118	05JB435	11.00	78.274	11.00	2	2.70
Broadwaters - Douglas	119		11.00	78.400	11.00	1	0.23
Broadwaters - Douglas	120		11.00	78.550	11.00	1	0.20
Broadwaters - Douglas	121	05JB436	11.00	78.613	11.00	1	1.85
Broadwaters - Douglas	122		11.00	78.710	11.00	1	0.20
Broadwaters - Douglas	123		11.00	78.900	11.00	1	0.20
Broadwaters - Douglas	124	05JB437	11.00	79.021	11.00	1	2.70
Broadwaters - Douglas	125	05JB438	11.00	79.153	11.00	1	2.10
Broadwaters - Douglas	126		11.00	79.340	11.00	1	0.20
Broadwaters - Douglas	127	05JB439	11.00	79.674	11.00	1	2.70
Broadwaters - Douglas	128		11.00	79.760	11.00	1	0.20
Broadwaters - Douglas	129	05JB440	11.00	80.003	11.00	2	1.80
Broadwaters - Douglas	130		11.00	80.120	11.00	1	0.20
Broadwaters - Douglas	131		11.00	80.200	11.00	1	0.20
Broadwaters - Douglas	132		11.00	80.320	11.00	1	0.20
Broadwaters - Douglas	133		11.00	80.400	11.00	1	0.20
Broadwaters - Douglas	134		11.00	80.410	11.00	1	0.20
Broadwaters - Douglas	135	05JB	11.00	80.487	11.00	1	0.40
Broadwaters - Douglas	136	05JB	11.00	80.533	11.00	1	0.40
Broadwaters - Douglas	137		11.00	80.700	11.00	2	1.80
Broadwaters - Douglas	138	05JB441	11.00	80.933	11.00	1	1.80
Broadwaters - Douglas	139	05JB442	11.00	81.394	11.00	3	1.90
Broadwaters - Douglas	140	05JB443	11.00	81.899	11.00	1	1.70

2.200	2.200	4.400	Pipe
19.800	19.800	39.600	Box
2.200	2.200	4.400	Pipe
20.900	20.900	41.800	Box
19.250	19.250	38.500	Box
20.460	20.460	81.840	Box
20.350	20.350	81.400	Box
29.700	29.700	118.800	Box
9.900	9.900	19.800	Pipe
9.900	9.900	19.800	Pipe
30.250	30.250	121.000	Box
9.900	9.900	19.800	Pipe
19.800	19.800	39.600	Box
2.200	2.200	4.400	Pipe
3.300	3.300	6.600	Pipe
29.700	29.700	118.800	Box
2.530	2.530	5.060	Pipe
2.200	2.200	4.400	Pipe
20.350	20.350	40.700	Box
2.200	2.200	4.400	Pipe
2.200	2.200	4.400	Pipe
29.700	29.700	59.400	Box
23.100	23.100	46.200	Box
2.200	2.200	4.400	Pipe
29.700	29.700	59.400	Box
2.200	2.200	4.400	Pipe
19.800	19.800	79.200	Box
2.200	2.200	4.400	Pipe
2.200	2.200	4.400	Pipe
2.200	2.200	4.400	Pipe
2.200	2.200	4.400	Pipe
2.200	2.200	4.400	Pipe
4.400	4.400	8.800	Pipe
4.400	4.400	8.800	Pipe
19.800	19.800	79.200	Box
19.800	19.800	39.600	Box
20.900	20.900	125.400	Box
18.700	18.700	37.400	Box

SCHEDULE OF QUANTITIES

Railway Sections	Area to be cleaned (m ²)	Number of Culverts	Distance on track (km)	Unit Price (Rands)	Grand Total (Rands)
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]		
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]		
Totals	46484.196	574	344.929		