



water affairs

Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

REGISTRATION/LICENSING PART 1

COMPANY, BUSINESS, PARTNERSHIP OR COMMUNITY, NATIONAL OR PROVINCIAL GOVERNMENT

1. GENERAL INFORMATION

Mark the applicable option(s) with an X and/or complete details where applicable/available.

Indicate the nature of this
application:

- ☒ New registration ☐ Minor change
☐ Formal amendment
Registration Number

--	--	--	--	--	--	--	--

2. PARTICULARS OF THE APPLICANT

Application for:
(Mark one block with an X)

- ☒ Company, business, partnership or community (complete part 3,5,6,7 and 8)
☐ National or provincial government (complete part 4,5,6,7 and 8 excl. 8.1.2)

3. PARTICULARS OF THE COMPANY, BUSINESS, PARTNERSHIP OR COMMUNITY

3.1 Name of company, business, partnership or community:

LIMPOPO COAL COMPANY (PTY) LTD

3.2 Trading name if different from name of company, business, partnership or community:

3.3 Type of enterprise:
(Mark one block with an X)

- ☐ 06 Public Company (Ltd) ☒ 07 Private Company (Pty) Ltd
☐ 08 Article 21 (Association Inc. under Article 21 of the Company Act No. 61 of 1973) ☐ 09 Limited By Guarantee
☐ 10 External Company ☐ 11 External Company under article 21 of the Company Act No. 61 of 1973
☐ 20 Transvaal Ordinance ☐ 21 Incorporated (Inc)
☐ 22 Unlimited ☐ 23 Close Corporation (CC)
☐ Parastatal ☐ Trust
☐ Other [i.e. non-CIPRO Company types (e.g. Churches, Schools, Community Groups, etc.) excluding Trust and Parastatal]

3.4 Business enterprise registration number:

2005/006072/07

3.5 Date established:
(ccyy/mm/dd)

20050224

3.6 Country where established:

SOUTH AFRICA

3.7 VAT registration number:

SARS CURRENTLY PROCESSING
VAT APPLICATION

4. PARTICULARS OF NATIONAL OR PROVINCIAL GOVERNMENT

4.1 National Department:

4.2 a) Provincial Department:

b) Province:

5. APPLICANT CONTACT DETAILS

5.1 Postal Address:

PO BOX 69517

BRYANSTON

Postal Code 2021

5.2 Street Address (only if different from postal address):

COAL HOUSE (NEWWOOD) OFFICE PARK

33 RILEY ROAD

WOODMEAD

Postal Code

5.3 Contact telephone number during office hours

Area/cell code 011

Number 7854518

Ext

Alternative contact number

Area/cell code 082

Number 6101147

Ext

5.4 E-mail

6. CONTACT PERSON DETAILS

6.1 Title MR

6.2 Name MICO PRETORIUS

6.3 Surname PRETORIUS

6.4 Telephone

Area/cell code 011

Number 7854518

Ext

6.5 Cell Phone Number

Area/cell code

Number

6.6 Fax

Area/cell code

Number

Ext

6.7 E-mail npretorius@coalofafrica.co.za

6.8 Preferred Form Of Communication email

Declaration by applicant (or person who was granted power of attorney by the applicant)

Surname of delegated person:

K H O S A

Title:

M R

Initials:

B

ID Number:

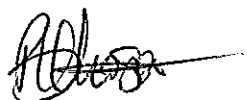
7 8 0 5 0 2 5 5 2 9 0 8 7

Passport Number:

(if not a holder of South African ID)

Expiry Date (ccyy/mmdd):

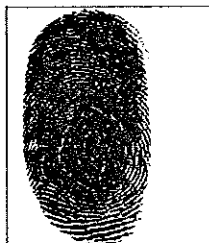
Delete the words that are not applicable I/we _____ (FULL NAME(S))
 hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Signature

Company Representative

Designation of signatory



Thumb print

COID 735 4518

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

7. LIST OF PART 2 DOCUMENTS (WATER USE RELATED FORMS)

Mark with an X which of the following documents have been submitted with this application

- | | |
|---|---|
| <input checked="" type="checkbox"/> DW760 NWA-Section 21(a) | <input checked="" type="checkbox"/> DW768 NWA-Section 21(i) |
| <input type="checkbox"/> DW761 NWA-Section 21(b) | <input type="checkbox"/> DW780 NWA-Section 21(h) |
| <input checked="" type="checkbox"/> DW762 NWA-Section 21(b) | <input checked="" type="checkbox"/> DW805 NWA-Section 21(j) |
| <input checked="" type="checkbox"/> DW763 NWA-Section 21(c) | <input type="checkbox"/> DW806 NWA-Section 21(k) |
| <input type="checkbox"/> DW764 NWA-Section 21(d) | <input checked="" type="checkbox"/> DW901 Property or properties where water use occurs |
| <input checked="" type="checkbox"/> DW765 NWA-Section 21(e) | <input checked="" type="checkbox"/> DW902 Details of property owner |
| <input type="checkbox"/> DW766 NWA-Section 21(f) | <input type="checkbox"/> DW903 Actual/Monitored waste discharge details NWA-Section 21(f/h) |
| <input checked="" type="checkbox"/> DW767 NWA-Section 21(g) | <input type="checkbox"/> DW904 Actual/Monitored waste discharge details NWA-Section 21(e/g) |

8. THIS SECTION IS RESERVED FOR OFFICE USE ONLY

8.1 Billing information

8.1.1 WMA for billing*

* Water Management Area Codes

- | | | | | |
|--------------------------|--------------------|-----------------------|---------------------|-------------------|
| 01 Limpopo | 05 Inkomati | 09 Middle Vaal | 13 Upper Orange | 17 Olifants/Doorn |
| 02 Luvuvhu/Letaba | 06 Usutu-Mhlathuze | 10 Lower Vaal | 14 Lower Orange | 18 Breede |
| 03 Crocodile (W), Marico | 07 Thukela | 11 Mvoti-Umzimkulu | 15 Fish-Tsitsikamma | 19 Berg |
| 04 Olifants | 08 Upper Vaal | 12 Mzimvubu-Keiskamma | 16 Gouritz | |

8.1.2 District Municipal Establishment Levy Payable ☐ Yes ☐ No

8.2 Mark with an X which of the following documents have been submitted with this application

- ☒ Certified copy of South African identity document
- ☐ Certified copy of passport

[illegible]

--	--	--	--	--	--	--	--

Surname

[illegible]

--	--	--	--	--

[illegible]

Date (ccyymmdd)

--	--	--	--	--	--	--	--

Captured by:

Sumame

[illegible]

--	--	--	--

100% 99% 98% 97% 96% 95% 94% 93% 92% 91% 90% 89% 88% 87% 86% 85% 84% 83% 82% 81% 80% 79% 78% 77% 76% 75% 74% 73% 72% 71% 70% 69% 68% 67% 66% 65% 64% 63% 62% 61% 60% 59% 58% 57% 56% 55% 54% 53% 52% 51% 50% 49% 48% 47% 46% 45% 44% 43% 42% 41% 40% 39% 38% 37% 36% 35% 34% 33% 32% 31% 30% 29% 28% 27% 26% 25% 24% 23% 22% 21% 20% 19% 18% 17% 16% 15% 14% 13% 12% 11% 10% 9% 8% 7% 6% 5% 4% 3% 2% 1% 0%

Date stamp of receiving office

Surname

[illegible]

Initials

--	--	--	--

[illegible]

Date (ccyymmdd)

--	--	--	--	--	--	--	--

L I M P O P O C O A L C O M P A N Y
(P T Y) L T D

2005/006072/07

CoAL House, Pinewood Office Park, Riley Road, Woodmead, Sandton, South
Africa

Telephone: +27 11 785 4510 Facsimile: +27 11 807 6654 Website:
www.coalofafrica.com

CIRCULAR RESOLUTION OF DIRECTORS

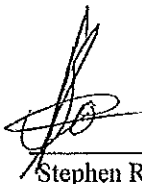
I the undersigned, being the Director of Limpopo Coal (Pty) Ltd, in accordance with the company's constitution **HEREBY RESOLVE** as follows:

**MINING, PROSPECTING,
EPLORATION AND PRODUCTION
RIGHTS APPLICATION**

That, Baldwin Khosa , ID No 7805025529087, be appointed as a company representative in relation to dealings between the Company and the South African Department of Minerals and Energy and the Petroleum Agency SA.

I **FURTHER RESOLVE** that, as a company representative, Baldwin Khosa be authorised and empowered to sign all documentation submitted or to be submitted to by or on behalf of the Company to the South African Department of Minerals and Energy and the Petroleum Agency SA and to give such undertakings on behalf of the Company as may be required from time to time to obtain prospecting rights, mining rights, exploration rights, production rights and any other rights or permits in terms of Mineral and Petroleum Resources development Act 28 of 2002.

Dated this 03 November 2008



Stephen Rowse

Directors: S R Rowse

L I M P O P O C O A L C O M P A N Y
(P T Y) L T D

2005/006072/07

CoAL House, Pinewood Office Park, Riley Road, Woodmead, Sandton, South
Africa

Telephone: +27 11 785 4510 Facsimile: +27 11 807 6654 Website:
www.coalofafrica.com

CIRCULAR RESOLUTION OF DIRECTORS


I the undersigned, being the Director of Limpopo Coal (Pty) Ltd, in accordance with the company's constitution HEREBY RESOLVE as follows:

MINING, PROSPECTING,
EXPLORATION AND PRODUCTION
RIGHTS APPLICATION

That, Baldwin Khosa , ID No 7805025529087, be appointed as a company representative in relation to dealings between the Company and the South African Department of Minerals and Energy and the Petroleum Agency SA.

I FURTHER RESOLVE that, as a company representative, Baldwin Khosa be authorised and empowered to sign all documentation submitted or to be submitted to by or on behalf of the Company to the South African Department of Minerals and Energy and the Petroleum Agency SA and to give such undertakings on behalf of the Company as may be required from time to time to obtain prospecting rights, mining rights, exploration rights, production rights and any other rights or permits in terms of Mineral and Petroleum Resources development Act 28 of 2002.

Dated this 03 November 2008


Stephen Rowse

Directors: S R Rowse

GEREGISTREEDE WOON- EN POSADRES

1. Bewaar die bewys van u GEREGISTREEDE WOON- EN POSADRES in hierdie sakkie.

2. Indien u van adres verander het, of indien besonderhede van u huidige adres, bv. straatnaam en/of -nommer, ens. verander het, moet die vorm KENNISGEWING VAN ADRESVERANDERING, wat in die sakkie agter in die identiteitsdokument is, gebruik word om die verandering aan te meld en moet dit ingedien word by of gepos word aan die naaste streek-distrikkantoor van die DEPARTMENT OF HOME AFFAIRS BINNELANDSE SAKE

REGISTERED RESIDENTIAL AND POSTAL ADDRESS

1. Keep the proof of your REGISTERED RESIDENTIAL AND POSTAL ADDRESS in this pocket

2. If you have changed your address, or, if particulars of your present address, e.g. name of street and/or street number, etc., have been changed, the NOTICE OF CHANGE OF ADDRESS form in the pocket at the back of the identity document must be used to report the change and it must be handed in at or posted to the nearest regional district office of the DEPARTMENT OF HOME AFFAIRS.

I.D.No. 780502 5529 08 7



S.A. BURGER/S.A. CITIZEN

VAN/SURNAME

KHOSA

VOORNAME/FORENAMES

BALDWIN

GEBORTEDISTRIK OF-LAND/
DISTRICT OR COUNTRY OF BIRTH

SOUTH AFRICA

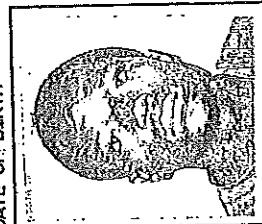
GEBORTEDATUM/
DATE OF BIRTH

1978-05-02

DATUM UITGEREIK
DATE ISSUED

1996-06-24

UITGEREIK OP GESAG VAN DIE
DIREKTEUR-GENERAAL:
BINNELANDSE SAKE



ISSUED BY AUTHORITY OF THE
DIRECTOR-GENERAL:
HOME AFFAIRS

COMMISSIONER OF OATHS
Stephen Rowse
SAICA

Ref: 04859282

Commissioner of Oaths (RSA)
Ground floor, Nimag House
Pinewood Office Park, Riley road
Woodmead
P.O. Box 1401
Kelvin, 2054

[Signature] 5/11/2009

CERTIFIED A TRUE
COPY OF THE ORIGINAL



water & forestry

Department
Water Affairs & Forestry
REPUBLIC OF SOUTH AFRICA

SUPPLEMENTARY WATER USE INFORMATION

PROPERTY WHERE WATER USE OCCURS

DW901 serves to address the following: The property (or properties) where water use(s) is to take place.

• Complete one DW901 form for each property impacted / applicable to a water use registration application.

• Should more than one property owner be applicable to a "property where water occurs" an additional DW902 must be completed for each additional property owner.

1. PROPERTY WHERE WATER USE(S) OCCURS

- 1.1 Property where water use takes place (farm, stand or community): description as per the Deeds Act if applicable, or name of agricultural holding, farm, township, town or city.

Portions 3 & 4 of Overvlakte 125 MS

Registration Date (ccyymmdd):

--	--	--	--	--	--	--	--	--	--

- 1.2 Property Type (mark only one with an X)

☐ Agricultural Holding

☐ Erf

☐ Exclusive Use Areas (EUA)

☒ Farm

☐ Sectional Scheme (To Obtain EUA)

☐ Sectional Scheme (to obtain units)

☐ Sectional Scheme Unit

☐ Township

☐ Unspecified

☐ Unsurveyed

- 1.3 If the property type is unsurveyed, complete the following:

- a) Surname and initials of leader of village, community or tribal authority

Initials

--	--	--	--	--	--

- b) Local Authority

&/or

- c) Magisterial District

&/or

- d) Tribal Authority/Council

- 1.4 If the property type is not equal to unsurveyed, complete the following:

- a) Deeds Office

Pretoria - both portions of the farm

- b) Registration Division

Musina

- c) Property No (i.e. Farm No./Erf No./Holding Area No./Scheme No.)

Overvlakte 125 MS

- d) Portion of Property

3 & 4

- e) Title Deed Number

Portions 3 & 4 - T44946/2009

1	2	3	4	5
T	M S			
-	-	-	-	-
			1 2 5	3 4 4

1. Refers to the Surveyor's-General Office (T = Pretoria, F = Free State, C = Cape Town & N = Kwazulu-Natal)
2. Major Code (Registration Division)
3. Minor code
4. Property No (i.e. Farm No./Erf No./Holding Area No./Scheme No.)
5. Portion Number

Note: All fields "left padded with 0"

1.5 Property Area Size

1	1	8	4	8	2	3
---	---	---	---	---	---	---

Measure Unit: ☒ Hectares ☐ Square Meters ☐ Acres

- 1.6 Ownership of the property (mark only one with an X)**
- | | | | |
|-------------------------------------|--|--------------------------|-------------------------------|
| <input checked="" type="checkbox"/> | Property owned by applicant (100% Share value) | <input type="checkbox"/> | Property leased by applicant |
| <input type="checkbox"/> | Property owned by applicant (Share value less than 100%) | <input type="checkbox"/> | The property is communal land |

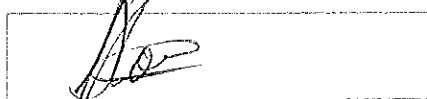
2. PROPERTY OWNER RELATIONSHIP

Individual (Identity Number or Passport Number)	Company, Business, Partnership or Community (Business Enterprise Registration Number)	Property Owner Name	Property Owner Document Number (Owner's Title Deed Reference Number)	Property Owner and Property Relationship Date		Owner Share Value %
				From:	To:	
	2008/011655/07	Harrisia Investment Holdings (Pty) Ltd	T44946/2009	12 August 2009	Present	100%

3. DECLARATION BY APPLICANT (or person that was granted power of attorney by the applicant)

I declare that the property information given by me for registering this Water Use is true and correct.

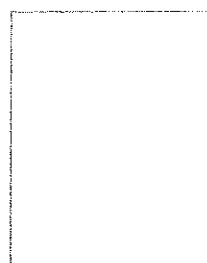
Signature



Date (ccyymmdd)

1102

Thumbprint (only if requested)



4. FOR OFFICE USE ONLY

Received by:

Surname

Initials

Position / Rank

Signature



Captured on NRWU database (ccyymmdd)

Captured by:

Surname

Initials

Signature



Date stamp of receiving office

Quality Assurance Executed by:

Surname

Initials

Position / Rank

Signature



Date (ccyymmdd)



water & forestry

Department:
Water Affairs & Forestry
REPUBLIC OF SOUTH AFRICA

SUPPLEMENTARY WATER USE INFORMATION PROPERTY WHERE WATER USE OCCURS

DW901 serves to address the following: The property (or properties) where water use(s) is to take place.

• Complete one DW901 form for each property impacted / applicable to a water use registration application.

• Should more than one property owner be applicable to a "property where water occurs" an additional DW902 must be completed for each additional property owner.

1. PROPERTY WHERE WATER USE(S) OCCURS

1.1 Property where water use takes place (farm, stand or community): description as per the Deeds Act if applicable, or name of agricultural holding, farm, township, town or city.

Portion 5 of Overvlakte 125 MS

Registration Date (ccyymmdd):

--	--	--	--	--	--	--	--	--	--

1.2 Property Type (mark only one with an X)

- | | |
|---|---|
| <input type="checkbox"/> Agricultural Holding | <input type="checkbox"/> Erf |
| <input type="checkbox"/> Exclusive Use Areas (EUA) | <input checked="" type="checkbox"/> Farm |
| <input type="checkbox"/> Sectional Scheme (To Obtain EUA) | <input type="checkbox"/> Sectional Scheme (to obtain units) |
| <input type="checkbox"/> Sectional Scheme Unit | <input type="checkbox"/> Township |
| <input type="checkbox"/> Unspecified | <input type="checkbox"/> Unsurveyed |

1.3 If the property type is unsurveyed, complete the following:

a) Surname and initials of leader of village, community or tribal authority

Initials

--	--	--	--	--	--

b) Local Authority

&/or

c) Magisterial District

&/or

d) Tribal Authority/Council

1.4 If the property type is not equal to unsurveyed, complete the following:

a) Deeds Office

Pretoria

b) Registration Division

Musina

c) Property No (i.e. Farm No./Erf No./Holding Area No./Scheme No.)

Overvlakte 125 MS

d) Portion of Property

5

e) Title Deed Number

Portion 5 - T22619/2009

1		-	T
2		-	an s
3		-	
4		-	1 2 5
5		-	5

1. Refers to the Surveyor's-General Office (T = Pretoria, F = Free State, C = Cape Town & N = Kwazulu-Natal)
2. Major Code (Registration Division)
3. Minor code
4. Property No (i.e. Farm No./Erf No./Holding Area No./Scheme No.)
5. Portion Number

Note: All fields "left padded with 0"

1.5 Property Area Size

8	4	2	2	1	1	7
---	---	---	---	---	---	---

Measure Unit: ☒ Hectares ☐ Square Meters ☐ Acres

- 1.6 Ownership of the property (mark only one with an X)**
- | | | | |
|-------------------------------------|--|--------------------------|-------------------------------|
| <input checked="" type="checkbox"/> | Property owned by applicant (100% Share value) | <input type="checkbox"/> | Property leased by applicant |
| <input type="checkbox"/> | Property owned by applicant (Share value less than 100%) | <input type="checkbox"/> | The property is communal land |

2. PROPERTY OWNER RELATIONSHIP

Individual (Identity Number or Passport Number)	Company, Business, Partnership or Community (Business Enterprise Registration Number)	Property Owner Name	Property Owner Document Number (Owner's Title Deed Reference Number)	Property Owner and Property Relationship Date		Owner Share Value %
				From:	To:	
	2008/011655/07	Harrisia Investment Holdings (Pty) Ltd	T22619/2009	30 April 2009	Present	100%

3. DECLARATION BY APPLICANT (or person that was granted power of attorney by the applicant)

I declare that the property information given by me for registering this Water Use is true and correct.

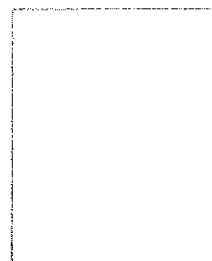
Signature



Date (ccyymmdd)

1 1 0 2

Thumbprint (only if requested)



4. FOR OFFICE USE ONLY

Given by:

Surname

Initials

Position / Rank

Signature

Captured on NRWU database (ccyymmdd)

Captured by:

Surname

Initials

Signature

Date stamp of receiving office

Quality Assurance Executed by:

Surname

Initials

Position / Rank

Signature

Date (ccyymmdd)



water & forestry

Department:
Water Affairs & Forestry
REPUBLIC OF SOUTH AFRICA

SUPPLEMENTARY WATER USE INFORMATION PROPERTY WHERE WATER USE OCCURS

DW901 serves to address the following: The property (or properties) where water use(s) is to take place.

• Complete one DW901 form for each property impacted / applicable to a water use registration application.

• Should more than one property owner be applicable to a "property where water occurs" an additional DW902 must be completed for each additional property owner.

1. PROPERTY WHERE WATER USE(S) OCCURS

1.1 Property where water use takes place (farm, stand or community): description as per the Deeds Act if applicable, or name of agricultural holding, farm, township, town or city.

R/E of Bergen Op Zoom 124 MS

Registration Date (ccyymmdd):

2							
---	--	--	--	--	--	--	--

1.2 Property Type (mark only one with an X)

- | | |
|---|---|
| <input type="checkbox"/> Agricultural Holding | <input type="checkbox"/> Erf |
| <input type="checkbox"/> Exclusive Use Areas (EUA) | <input checked="" type="checkbox"/> Farm |
| <input type="checkbox"/> Sectional Scheme (To Obtain EUA) | <input type="checkbox"/> Sectional Scheme (to obtain units) |
| <input type="checkbox"/> Sectional Scheme Unit | <input type="checkbox"/> Township |
| <input type="checkbox"/> Unspecified | <input type="checkbox"/> Unsurveyed |

1.3 If the property type is unsurveyed, complete the following:

a) Surname and initials of leader of village, community or tribal authority

--

Initials

--	--	--	--	--

b) Local Authority

--

&/or

c) Magisterial District

--

&/or

d) Tribal Authority/Council

--

1.4 If the property type is not equal to unsurveyed, complete the following:

a) Deeds Office

Pretoria

b) Registration Division

Musina

c) Property No (i.e. Farm No./Erf No./Holding Area No./Scheme No.)

Bergen Op Zoom 124 MS

d) Portion of Property

Remaining Extent

e) Title Deed Number

T12375/2009

f) Surveyor-General Cadastral Code

1	2	3	4	5
T	M	S		

1. Refers to the Surveyor's-General Office (T = Pretoria, F = Free State, C = Cape Town & N = Kwazulu-Natal)

2. Major Code (Registration Division)

3. Minor code

4. Property No (i.e. Farm No./Erf No./Holding Area No./Scheme No.)

5. Portion Number

Note: All fields "left padded with 0"

1.5 Property Area Size

2	0	7	8	1	3	3
---	---	---	---	---	---	---

Measure Unit:

☒ Hectares☐ Square Meters☐ Acres

1.6 Ownership of the property (mark only one with an X)

☐ Property owned by applicant (100% Share value)☐ Property leased by applicant☐ Property owned by applicant (Share value less than 100%)☐ The property is communal land

2. PROPERTY OWNER RELATIONSHIP


Individual (Identity Number or Passport Number)	Company, Business, Partnership or Community (Business Enterprise Registration Number)	Property Owner Name	Property Owner Document Number (Owner's Title Deed Reference Number)	Property Owner and Property Relationship Date		Owner Share Value %
				From:	To:	
	2008/011655/07	Harrisia Investment Holdings (Pty) Ltd	T12375/2009	11 March 2009	Present	100%

Signature

Thumbprint (only if requested)



				1105
--	--	--	--	------



Surname

[illegible]

Initials

--	--	--	--

Position / Rank

[illegible]

Signature

Captured on NRWU database (ccyymmdd)

[illegible]

Captured by:

Surname

[illegible]

Initials

gnature

Date stamp of receiving office

Quality Assurance Executed by:

Surname

Initials

[illegible]

--	--	--	--

Position / Rank

[illegible]

Signature

Date (ccyymmdd)

(continued)

Item	Unit	Quantity	Unit Price	Total Price
1. Labor				
2. Material				
3. Equipment				
4. Other				
5. Total				



water & forestry

Department:
Water Affairs & Forestry
REPUBLIC OF SOUTH AFRICA

SUPPLEMENTARY WATER USE INFORMATION PROPERTY WHERE WATER USE OCCURS

DW901 serves to address the following: The property (or properties) where water use(s) is to take place.

• Complete one DW901 form for each property impacted / applicable to a water use registration application.

• Should more than one property owner be applicable to a "property where water occurs" an additional DW902 must be completed for each additional property owner.

1. PROPERTY WHERE WATER USE(S) OCCURS

1.1 Property where water use takes place (farm, stand or community): description as per the Deeds Act if applicable, or name of agricultural holding, farm, township, town or city.

Erfrust 123 MS

Registration Date (ccyymmdd):

2							
---	--	--	--	--	--	--	--

1.2 Property Type (mark only one with an X)

- | | |
|---|---|
| <input type="checkbox"/> Agricultural Holding | <input type="checkbox"/> Erf |
| <input type="checkbox"/> Exclusive Use Areas (EUA) | <input checked="" type="checkbox"/> Farm |
| <input type="checkbox"/> Sectional Scheme (To Obtain EUA) | <input type="checkbox"/> Sectional Scheme (to obtain units) |
| <input type="checkbox"/> Sectional Scheme Unit | <input type="checkbox"/> Township |
| <input type="checkbox"/> Unspecified | <input type="checkbox"/> Unsurveyed |

1.3 If the property type is unsurveyed, complete the following:

a) Surname and initials of leader of village, community or tribal authority

Initials

--	--	--	--	--

b) Local Authority

&/or

c) Magisterial District

&/or

d) Tribal Authority/Council

1.4 If the property type is not equal to unsurveyed, complete the following:

a) Deeds Office

Pretoria

b) Registration Division

Musina

c) Property No (i.e. Farm No./Erf No./Holding Area No./Scheme No.)

Erfrust 123 MS

d) Portion of Property

Farm

e) Title Deed Number

T11442/2009

f) Surveyor-General Cadastral Code

1	2	3	4	5
T	MS	-	1 2 3	-

1. Refers to the Surveyor's-General Office (T = Pretoria, F = Free State, C = Cape Town & N = Kwazulu-Natal)

2. Major Code (Registration Division)

3. Minor code

4. Property No (i.e. Farm No./Erf No./Holding Area No./Scheme No.)

5. Portion Number

Note: All fields "left padded with 0"

1.5 Property Area Size

3	3	3	7	8	1	4
---	---	---	---	---	---	---

Measure Unit:

☒ Hectares☐ Square Meters☐ Acres

1.6 Ownership of the property (mark only one with an X)

☒ Property owned by applicant (100% Share value)☐ Property owned by applicant (Share value less than 100%)☐ Property leased by applicant☐ The property is communal land

2. PROPERTY OWNER RELATIONSHIP

Individual (Identity Number or Passport Number)	Company, Business, Partnership or Community (Business Enterprise Registration Number)	Property Owner Name	Property Owner Document Number (Owner's Title Deed Reference Number)	Property Owner and Property Relationship Date	Owner Share Value %
	2008/011655/07	Harrisia Investment Holdings (Pty) Ltd	T11442/2009	From: 6 March 2009 To: Present	100%



water & forestry

Department:
Water Affairs & Forestry
REPUBLIC OF SOUTH AFRICA

SUPPLEMENTARY WATER USE INFORMATION

DETAILS OF PROPERTY OWNER

Should more than one property owner be applicable to a 'property where water use occurs', an additional DW902 must be completed for each additional property owner.

1. DETAILS OF PROPERTY OWNER

1.1 Nature of property owner (mark only one block with X)

- | | |
|--|---|
| <input type="checkbox"/> Individual (complete 1.2) | <input type="checkbox"/> Provincial Department (complete 1.5) |
| <input checked="" type="checkbox"/> Company, business, partnership or community (complete 1.3) | <input type="checkbox"/> Water Services Provider (complete 1.6) |
| <input type="checkbox"/> National Department (complete 1.4) | <input type="checkbox"/> Water User Association (complete 1.7) |

1.2 If property owner is an individual

1.2.1 Surname Maiden Name
me

Initials Title Position or official status

Marital Status (mark only one): ☐ Married In Community Of Property ☐ Married Out Of Community Of Property
☐ Unmarried

1.2.2 If holder of South African ID:

ID Number

1.2.3 If not holder of South African ID:

Passport No.

Expiry Date (ccyyymmdd)

Country of issue

1.3 If the property owner is a company, business, partnership or community:

1.3.1 Name of company, business, partnership or community:

Harrisia Investment Holdings (Pty) Ltd

1.3.2 Trading name if different from name of company, business, partnership or community:

Harrisia

1.3.3 Type of Enterprise (mark only one with an X)

- | | | |
|---|--|---|
| <input type="checkbox"/> 06 Public Company (Ltd) | <input checked="" type="checkbox"/> 07 Private Company (Pty) Ltd | <input type="checkbox"/> 08 Article 21 (Association inc under Section 21) |
| <input type="checkbox"/> 09 Limited By Guarantee | <input type="checkbox"/> 10 External Company | <input type="checkbox"/> 11 External Company under Article 21 |
| <input type="checkbox"/> 20 Transvaal Ordinance | <input type="checkbox"/> 21 Incorporated (Inc) | <input type="checkbox"/> 22 Unlimited |
| <input type="checkbox"/> 23 Close Corporation (CC) | <input type="checkbox"/> Parastatal | <input type="checkbox"/> Trust |
| <input type="checkbox"/> Other [i.e. Non-CIPRO Company Types (e.g. Churches, Schools, Community Groups, etc.) excluding Trust & Parastatal] | | |

1.3.4 Business Enterprise Registration Number 0 8 0 1 1 6 5 5 / 0 7

1.3.5 Date Established (ccyyymmdd) 2 0 0 8 0 9 0 5

Country Where Established

1.4 If the property owner is a National Department:

1.4.1 National Department Name:

1.5 If the property owner is a Provincial Department:

1.5.1 Province:

1.5.2 Provincial Department Name:

1.6 If the property owner is a Water Services Provider:

1.6.1 Name of WSP:

1.7 If the property owner is a Water User Association:

1.7.1 Name of WUA:

1.8 Postal Address:

PO Box 69517

Bryanston

Postal Code 2 0 2 1

1.9 Street Address (only if different from postal address):

CoAL House

33 Riley road

Woodmead

Postal Code

1.10 Contact Telephone Number During Office Hours

Area/cell code 0 1 1

Number 7 8 5 4 5 1 8

Ext

Alternative contact number

Area/cell code 0 1 1

Number 4 5 9 2 8 4 0

Ext

2. DECLARATION BY PROPERTY OWNER**2.1 Property owner or delegated person:**

Surname	Rowse												
Initials	SR				Title	Mr							
ID number	7	4	0	1	1	3	5	1	9	1	0	8	1

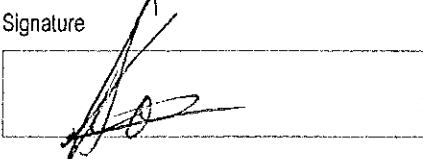
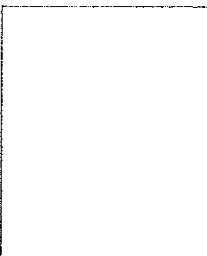
2.2 If not a holder of South African ID:

Passport No.												
Expiry Date (ccyymmdd)												
Country of issue												

2.3 Position or official status:

Director

I declare that the applicant defined in this application has lawful access to the property and carry out the water use activity or activities related to this application.

Signature	Date (ccyymmdd)	Thumbprint (only if requested)
	2 0 0 9 1 0 2 8	

3. LIST OF ATTACHED DOCUMENTS (mark each document type attached with an X)

- 3.1 ☒ Certified copy of identity document or passport.
- 3.2 ☐ Certified copy of Property Owner Document [refer Section 2 of DW901 (Property Title Deed or Deeds printout)].
- 3 ☐ Certified copy of lease agreement (refer paragraph 1.6 of DW901)
- 3.4 ☐ Certified copy of the "power of attorney" or appropriate supporting documentation

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

[illegible]

Case No.	Case Name	Case Address	Case Phone	Case Email	Case Fax	Case Web	Case Notes
1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9
10	10	10	10	10	10	10	10
11	11	11	11	11	11	11	11
12	12	12	12	12	12	12	12
13	13	13	13	13	13	13	13
14	14	14	14	14	14	14	14
15	15	15	15	15	15	15	15
16	16	16	16	16	16	16	16
17	17	17	17	17	17	17	17
18	18	18	18	18	18	18	18
19	19	19	19	19	19	19	19
20	20	20	20	20	20	20	20
21	21	21	21	21	21	21	21
22	22	22	22	22	22	22	22
23	23	23	23	23	23	23	23
24	24	24	24	24	24	24	24
25	25	25	25	25	25	25	25
26	26	26	26	26	26	26	26
27	27	27	27	27	27	27	27
28	28	28	28	28	28	28	28
29	29	29	29	29	29	29	29
30	30	30	30	30	30	30	30
31	31	31	31	31	31	31	31
32	32	32	32	32	32	32	32
33	33	33	33	33	33	33	33
34	34	34	34	34	34	34	34
35	35	35	35	35	35	35	35
36	36	36	36	36	36	36	36
37	37	37	37	37	37	37	37
38	38	38	38	38	38	38	38
39	39	39	39	39	39	39	39
40	40	40	40	40	40	40	40
41	41	41	41	41	41	41	41
42	42	42	42	42	42	42	42
43	43	43	43	43	43	43	43
44	44	44	44	44	44	44	44
45	45	45	45	45	45	45	45
46	46	46	46	46	46	46	46
47	47	47	47	47	47	47	47
48	48	48	48	48	48	48	48
49	49	49	49	49	49	49	49
50	50	50	50	50	50	50	50
51	51	51	51	51	51	51	51
52	52	52	52	52	52	52	52
53	53	53	53	53	53	53	53
54	54	54	54	54	54	54	54
55	55	55	55	55	55	55	55
56	56	56	56	56	56	56	56
57	57	57	57	57	57	57	57
58	58	58	58				

[illegible]

[illegible]

--	--	--	--	--

[illegible]

--	--	--	--	--	--	--	--

GEREGISTERDE WOON- EN POSADRES

1. Bewaar die bewys van u GEREGEREERDE WOON- EN POSADRES in hierdie sakkie.

2. Indien u van adres verander het, of indien besonderhede van u huidige adres, bv. straatnaam en/of -nommer, ens. verander het, moet die vorm KENNIGING VAN ADRES/VERANDERING, wat in die sakkie agter in die identiteitsdokument is, gebruik word om die verandering aan te meld en moet dit ingedien word by of gegee word aan die naaste streek-identiteitskantoor van die DEPARTEMENT VAN BINNELANDSE SAKE.

REGISTERED RESIDENTIAL AND POSTAL ADDRESS

1. Keep the proof of your REGISTERED RESIDENTIAL AND POSTAL ADDRESS in this pocket.

2. If you have changed your address, or, if particulars of your present address, e.g. name of street and/or street number, etc., have been changed, the NOTICE OF CHANGE OF ADDRESS form in the pocket at the back of the identity document must be used to report the change and it must be handed in at or posted to the nearest regional/district office of the DEPARTMENT OF HOME AFFAIRS.

I.D. No. 740113 5191 08 1



S.A. BURGER/S.A. CITIZEN

VAN/SURNAME

ROWSE

VOORNAME/FORENAMES

STEPHEN ROBERT

GEBORTEDISTRIK OF-LAND/
DISTRICT OR COUNTRY OF BIRTH

SOUTH AFRICA

GEBORTEDATUM/
DATE OF BIRTH

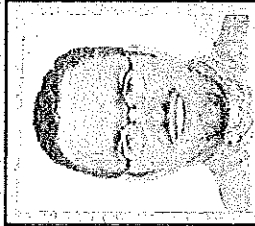
1974-01-13

DATUM UITGEREIK
DATE ISSUED

2002-01-08

UITGEREIK OP BESAG VAN DIE
DIREKTEUR-GENERAAL:
BINNELANDSE SAKE

ISSUED BY AUTHORITY OF THE
DIRECTOR-GENERAL:
HOME AFFAIRS



SOUTH AFRICAN POLICE SERVICE	
CLIENT SERVICE CENTRE	
2002-01-02	ISS
SUID-AFRIKAANSE POLISDIENST	

EK SERTIFISEER DAT HIERDIE DOKUMENT DIE AFDRIK (AFSKRIJF) VAN DIE OORSPRONKELIKE DOKUMENT IS. EK SERTIFISEER VERDER DAT DIT 'N KENNIGING VAN ADRES/VERANDERING OF 'N VERANDERING VAN ADRES/VERANDERING IS. EK SERTIFISEER VERDER DAT DIT 'N KENNIGING VAN ADRES/VERANDERING OF 'N VERANDERING VAN ADRES/VERANDERING IS. EK SERTIFISEER VERDER DAT DIT 'N KENNIGING VAN ADRES/VERANDERING OF 'N VERANDERING VAN ADRES/VERANDERING IS.

I CERTIFY THAT THIS DOCUMENT IS A TRUE REPRODUCTION (COPY) OF THE ORIGINAL DOCUMENT WHICH WAS SUBMITTED TO ME FOR AUTHENTICATION. I FURTHER CERTIFY THAT THIS DOCUMENT IS A TRUE REPRODUCTION (COPY) OF THE ORIGINAL DOCUMENT WHICH WAS SUBMITTED TO ME FOR AUTHENTICATION. I FURTHER CERTIFY THAT THIS DOCUMENT IS A TRUE REPRODUCTION (COPY) OF THE ORIGINAL DOCUMENT WHICH WAS SUBMITTED TO ME FOR AUTHENTICATION.

MAGSNUMMER 740113 5191 08 1
RANG RANK
NAME IN DRUKSKRIJF NAME IN PRINT



DEPARTMENT OF WATER AFFAIRS AND FORESTRY

SUPPLEMENTARY WATER USE INFORMATION
TAKING WATER FROM A WATER RESOURCE
POWER GENERATION, INDUSTRIAL OR MINING USE

1. INDUSTRIAL ACTIVITIES

1.1	Description of activities	SIC code
	Limpopo Coal Company (Pty) Ltd has applied	
	for a mining right for coal on the farms	
	Overulakla 125 MS (Ptn 3, 4, 5, 6, 13, RE), Bergen	
	Op Zoom 124 MS, Semphe 155 MS and Uorspeed	
	836 MS. The water use requirements for	
	Phase (1) of the project (first 5 yrs) is being	
	applied for in this submission, and involves	
	opencast mining of the East Pit, a temporary	
	modular plant with a production capacity of	
	0.9 Mt/annum and associated water management	
	and discard (residue) infrastructure.	

2. ANNUAL CONSUMPTION FOR INDUSTRIAL PROCESSES

2.1	The total amount of water abstracted per year is	1533000	cubic metres
a)	The total volume for industrial use per year	1497000	cubic metres
b)	Estimated volume for industrial use five years hence	1533000	cubic metres
c)	The total volume for domestic use per year (if any)	36000	cubic metres
d)	The number of people supplied with domestic water	826	(permanent employees)

FOR OFFICIAL USE ONLY

File number

Water use licence or registration number

Water Management Area

Received by:

Surname

Initials

Rank

Signature

Captured by:

Initials

Date stamp of receiving office



DEPARTMENT OF WATER AFFAIRS AND FORESTRY

APPLICATION FOR THE PERMANENT TRANSFER OF EXISTING LAWFUL WATER USE
IN TERMS OF SECTION 25(2) OF THE NATIONAL WATER ACT 1998
(ACT NO.36 OF 1998)

1 DETAILS OF PERSON RELINQUISHING WATER USE.

SURNAME ESTERHUYSE	FULL NAMES ESTEWE LYNETTE
POSTAL ADDRESS PO BOX 98 MUSINA 0900	
ID NUMBER 491211 0042 08 4	TITLE MRS
TELEPHONE NUMBER AND CODE	FAX NO. AND CODE
CELLPHONE NO.	EMAIL

2. DETAILS OF PROPERTY(IES) from which water use are being transferred.

NAME OF PROPERTY(IES)	EXTENT IN ha	TITLE DEED NUMBER
1 PTN3 OVER VLAKTE 125 MS	342,6128	T44346/2009
2 PTN4 OVER VLAKTE 125 MS	842,2097	T44346/2009
3		
4		

3. DETAILS OF EXISTING LAWFUL WATER USE.
(Scheduling of property (ies) mentioned under 2)

Scheduling in ha (A)	Annual Quota in m ³ (B)	Total Allocation C = (AxB)	Annual Charge (R)
1			R
2			R
3			R
4			R

4. DETAILS OF EXISTING LAWFUL WATER USE THAT ARE BEING RELINQUISHED.
(Water uses mentioned under 3)

SCHEDULING in ha	Annual Quota in m ³	Balance remaining in m ³
1		
2		
3		
4		

5. DETAILS OF APPLICABLE WATER USE.

Irrigation Board	Name	Permit no. /Date	License no /Date
Water User Association		① 27006702	
Government Water Scheme		② 27006711	
Other body			
River			
Borehole.			

6. DECLARATIONS BY APPLICANTS:

- 6.1 I, the **OWNER OR AUTHORISED REPRESENTATIVE** of the property(ies) described by paragraph 2 hereby permanently relinquish my lawful water use as described by paragraph no. 3. This(ese) water uses will be transferred permanently in terms of section 25(2) of the National Water Act 1998 (Act no. 36 of 1998) to the **BENEFICIARY** to facilitate a license application in terms of section 41 of the Act. This applicant takes place as a willing buyer/ seller transaction without any intervention by the Department of Water Affairs and Forestry.

Signed at..... on theday of200.. in the presence of the witnesses below:

RELINQUISHER.

Witness 1:.....Initials and Surname:.....

Witness 2:.....Initials and Surname

7 DETAILS OF BENEFICIARY:

SURNAME COMPANY	FULL NAMES
HARRISIA INVESTMENT HOLDINGS	(PTY) LIMITED
POSTAL ADDRESS	
PO BOX 1401 KELVIN 2054	
ID NUMBER REGISTRATION NO	TITLE
2008 / 011655107	
TELEPHONE NUMBER AND CODE	FAX NUMBER AND CODE
011 785 4518	011 507 2161
CELL PHONE NO.	EMAIL
083 545 9144	stephen@coalofafrica.co.za

8 DETAILS OF PROPERTY(IES) TO WHICH WATER USE ARE BEING TRANSFERRED:

NAME OF PROPERTY	EXTENT IN ha	TITLE DEED NUMBER
1 PTN 3 OVER VLAKTE 125 MS	342,6128	TA4346/2009
2 PTN 4 OVER VLAKTE 125 MS	842,7097	TA4346/2009
3		
4		

9 DECLARATION BY BENEFICIARY:

I, the **OWNER OR AUTHORISED REPRESENTATIVE** of the above-mentioned property(ies), hereby apply for a water use license in terms of section 41 of the National Water Act 1998 (Act no. 36 of 1998). Should the license be granted, I undertake to comply with all the obligations that accompany the granting of a water use allocation in respect of the responsible authority.

Signed at Woodward on the 7th day of October 2009 in the presence of the witnesses below.


BENEFICIARY.

Witness 1:.....Initials and Surname: S. Ndlovu

Witness 2: B. Mawuna Initials and Surname B. MAWUNA

Transfer recommended/ not recommended.....(Stamp of the Responsible Authority here)

Date :.....



DEPARTMENT OF WATER AFFAIRS AND FORESTRY

APPLICATION FOR THE PERMANENT TRANSFER OF EXISTING LAWFUL WATER USE
IN TERMS OF SECTION 25(2) OF THE NATIONAL WATER ACT 1998
(ACT NO.36 OF 1998)

1 DETAILS OF PERSON RELINQUISHING WATER USE.

SURNAME ESTERHUYSE	FULL NAMES WILLEM PETRUS
POSTAL ADDRESS PO BOX 87 MUSINA 0900	
ID NUMBER 460307 5006 08 7	TITLE MR
TELEPHONE NUMBER AND CODE 015 534 2852	FAX NO. AND CODE 086 604 9783
CELLPHONE NO.	EMAIL wpesterhuyse@limpopo.co.za

2. DETAILS OF PROPERTY(IES) from which water use are being transferred.

NAME OF PROPERTY(IES)	EXTENT IN ha	TITLE DEED NUMBER
1 PTN S OVER VLAKE 125 MR LIMPOPO	842,2117	T 22619/2009
2		(PREVIOUS TITLE DEED NO
3		T 2400/2000)
4		

3. DETAILS OF EXISTING LAWFUL WATER USE.
(Scheduling of property (ies) mentioned under 2)

Scheduling in ha (A)	Annual Quota in m ³ (B)	Total Allocation C = (AxB)	Annual Charge (R)
1	3026200 m³		R
2			R
3			R
4			R

4. DETAILS OF EXISTING LAWFUL WATER USE THAT ARE BEING RELINQUISHED.
(Water uses mentioned under 3)

SCHEDULING in ha	Annual Quota in m ³	Balance remaining in m ³
1	3026200 m³	
2		
3		
4		

5. DETAILS OF APPLICABLE WATER USE.

Irrigation Board	Name	Permit no. /Date	License no /Date
Water User Association			
Government Water Scheme			
Other body			
River	LIMPOPO RIVER	27019556	
Borehole.		DATED 25/5/2001	

6. DECLARATIONS BY APPLICANTS:

- 6.1 I, the OWNER OR AUTHORISED REPRESENTATIVE of the property(ies) described by paragraph 2 hereby permanently relinquish my lawful water use as described by paragraph no. 3. This(ese) water uses will be transferred permanently in terms of section 25(2) of the National Water Act 1998 (Act no. 36 of 1998) to the BENEFICIARY to facilitate a license application in terms of section 41 of the Act. This applicant takes place as a willing buyer/ seller transaction without any intervention by the Department of Water Affairs and Forestry.

Signed at..... on theday of200... in the presence of the witnesses below:

RELINQUISHER.

Witness 1:.....Initials and Surname:.....

Witness. 2:.....Initials and Surname

7 DETAILS OF BENEFICIARY:

SURNAME	FULL NAMES
HARRISIA INVESTMENT HOLDINGS (PTY) LIMITED	
POSTAL ADDRESS	
PO BOX 1574 HOUGHTON 2041	
ID NUMBER REGISTRATION NO	TITLE COMPANY
2008/011655/07	
TELEPHONE NUMBER AND CODE	FAX NUMBER AND CODE
011 785 4507	0866 381 041
CELL PHONE NO.	EMAIL
083 545 9144	stephen.rowse@coalofafrica.co.za

8 DETAILS OF PROPERTY(IES) TO WHICH WATER USE ARE BEING TRANSFERRED:

NAME OF PROPERTY	EXTENT IN ha	TITLE DEED NUMBER
1 PTNS OVER VLAKE 125 MR	842,2117	T 22619 2009
2 LIMPOPO		
3		
4		

9 DECLARATION BY BENEFICIARY:

I, the OWNER OR AUTHORISED REPRESENTATIVE of the above-mentioned property(ies), hereby apply for a water use license in terms of section 41 of the National Water Act 1998 (Act no. 36 of 1998). Should the license be granted, I undertake to comply with all the obligations that accompany the granting of a water use allocation in respect of the responsible authority.

Signed at Windward on the 7th day of October 200⁹ in the presence of the witnesses below.

BENEFICIARY.

Witness 1: B. MOUNA Initials and Surname: B. MOUNA

Witness 2: L.P. MOKETZ Initials and Surname L.P. MOKETZ

Transfer recommended/ not recommended..... (Stamp of the Responsible Authority here)

Date :.....



DEPARTMENT OF WATER AFFAIRS AND FORESTRY

APPLICATION FOR THE PERMANENT TRANSFER OF EXISTING LAWFUL WATER USE
IN TERMS OF SECTION 25(2) OF THE NATIONAL WATER ACT 1998
(ACT NO.36 OF 1998)

1 DETAILS OF PERSON RELINQUISHING WATER USE.

SURNAME ESTERHUYSE	FULL NAMES ESTEWE LYNETTE
POSTAL ADDRESS PO BOX 98 MUSINA 0900	
ID NUMBER 491211 0042 08 4	TITLE MRS
TELEPHONE NUMBER AND CODE	FAX NO. AND CODE
CELLPHONE NO.	EMAIL

2. DETAILS OF PROPERTY(IES) from which water use are being transferred.

NAME OF PROPERTY(IES)	EXTENT in ha	TITLE DEED NUMBER
1 PTN 3 OVER VLAKTE 12S MS	342,6128	T44346/2009
2 PTN 4 OVER VLAKTE 12S MS	842,2097	T44346/2009
3		
4		

3. DETAILS OF EXISTING LAWFUL WATER USE.
(Scheduling of property (ies) mentioned under 2)

Scheduling in ha (A)	Annual Quota in m ³ (B)	Total Allocation C = (AxB)	Annual Charge (R)
1			R
2			R
3			R
4			R

4. DETAILS OF EXISTING LAWFUL WATER USE THAT ARE BEING RELINQUISHED.
(Water uses mentioned under 3)

SCHEDULING in ha	Annual Quota in m ³	Balance remaining in m ³
1		
2		
3		
4		


5. DETAILS OF APPLICABLE WATER USE.

Irrigation Board	Name	Permit no. /Date	License no /Date
Water User Association		① 27006702	
Government Water Scheme		② 27006711	
Other body			
River			
Borehole			

6. DECLARATIONS BY APPLICANTS:

- 6.1 I, the **OWNER OR AUTHORISED REPRESENTATIVE** of the property(ies) described by paragraph 2 hereby permanently relinquish my lawful water use as described by paragraph no. 3. This(ese) water uses will be transferred permanently in terms of section 25(2) of the National Water Act 1998 (Act no. 36 of 1998) to the **BENEFICIARY** to facilitate a license application in terms of section 41 of the Act. This applicant takes place as a willing buyer/ seller transaction without any intervention by the Department of Water Affairs and Forestry.

Signed at MUSINA on the 15TH day of SEPTEMBER 2009 in the presence of the witnesses below:


RELINQUISHER: Sterlyu

Witness 1: E. van der Walt Initials and Surname: E. van der Walt

Witness 2: M. Monyani Initials and Surname: M. Monyani


7 DETAILS OF BENEFICIARY:

SURNAME COMPANY		FULL NAMES	
HARRISIA INVESTMENT HOLDINGS (PTY) LIMITED			
POSTAL ADDRESS			
PO BOX 1401 KELVIN 2054			
ID NUMBER REGISTRATION NO		TITLE	
2008 / 011655107			
TELEPHONE NUMBER AND CODE		FAX NUMBER AND CODE	
CELL PHONE NO.		EMAIL	

8 DETAILS OF PROPERTY(IES) TO WHICH WATER USE ARE BEING TRANSFERRED:

	NAME OF PROPERTY	EXTENT IN ha	TITLE DEED NUMBER
1	PTN 3 OVERVLAKTE 125 MS	342,6128	T44346/2009
2	PTN 4 OVERVLAKTE 125 MS	842,2097	T44346/2009
3			
4			

9 DECLARATION BY BENEFICIARY:

 SEE SEPARATELY SIGNED APPLICATION FOR SIGNATURE BY BENEFICIARY

I, the **OWNER OR AUTHORISED REPRESENTATIVE** of the above-mentioned property(ies), hereby apply for a water use license in terms of section 41 of the National Water Act 1998 (Act no. 36 of 1998). Should the license be granted, I undertake to comply with all the obligations that accompany the granting of a water use allocation in respect of the responsible authority.

Signed at on the day of 200 in the presence of the witnesses below.

BENEFICIARY.

Witness 1: Initials and Surname:

Witness 2: Initials and Surname:

Transfer recommended/ not recommended (Stamp of the Responsible Authority here)

Date:



DEPARTMENT OF WATER AFFAIRS AND FORESTRY

APPLICATION FOR THE PERMANENT TRANSFER OF EXISTING LAWFUL WATER USE
IN TERMS OF SECTION 25(2) OF THE NATIONAL WATER ACT 1998
(ACT NO.36 OF 1998)

1 DETAILS OF PERSON RELINQUISHING WATER USE.

SURNAME ESTERHUYSE	FULL NAMES ESTEE LYNETTE
POSTAL ADDRESS PO BOX 98 MUSINA 0900	
ID NUMBER 491211 0042 08 4	TITLE MRS
TELEPHONE NUMBER AND CODE	FAX NO. AND CODE
CELLPHONE NO.	EMAIL

2 DETAILS OF PROPERTY(IES) from which water use are being transferred.

NAME OF PROPERTY(IES)	EXTENT IN ha	TITLE DEED NUMBER
1 PIN 3 OVER VLAKE 125 MS	342,6128	T44346/2009
2 PIN 4 OVER VLAKE 125 MS	342,2097	T44346/2009
3		
4		

3. DETAILS OF EXISTING LAWFUL WATER USE.
(Scheduling of property (ies) mentioned under 2)

Scheduling in ha (A)	Annual Quota in m ³ (B)	Total Allocation C = (AxB)	Annual Charge (R)
1			R
2			R
3			R
4			R

4. DETAILS OF EXISTING LAWFUL WATER USE THAT ARE BEING RELINQUISHED.
(Water uses mentioned under 3)

SCHEDULING in ha	Annual Quota in m ³	Balance remaining in m ³
1		
2		
3		
4		

5. DETAILS OF APPLICABLE WATER USE.

Irrigation Board	Name	Permit no. /Date	License no /Date
Water User Association		① 27006702	
Government Water Scheme		② 27006711	
Other body			
River			
Borehole			

6. DECLARATIONS BY APPLICANTS:

- 6.1 I, the OWNER OR AUTHORISED REPRESENTATIVE of the property(ies) described by paragraph 2 hereby permanently relinquish my lawful water use as described by paragraph no. 3. This(ese) water uses will be transferred permanently in terms of section 25(2) of the National Water Act 1998 (Act no. 36 of 1998) to the BENEFICIARY to facilitate a license application in terms of section 41 of the Act. This applicant takes place as a willing buyer/ seller transaction without any intervention by the Department of Water Affairs and Forestry.

Signed at..... on theday of200.. In the presence of the witnesses below:

* SEE SEPARATELY SIGNED APPLICATION FOR SIGNATURE BY RELINQUISHER

RELINQUISHER.

Witness 1:.....Initials and Surname:.....

Witness 2:.....Initials and Surname.....

7 DETAILS OF BENEFICIARY:

SURNAME COMPANY	FULL NAMES
HARRISIA INVESTMENT HOLDINGS	(PTY) LIMITED
POSTAL ADDRESS	
PO BOX 1401 KELVIN 2054	
ID NUMBER REGISTRATION NO	TITLE
2008/011655107	
TELEPHONE NUMBER AND CODE	FAX NUMBER AND CODE
011 785 4518	011 807 2161
CELL PHONE NO.	EMAIL
083 545 9144	stephen@coalofafrica.co.za

8 DETAILS OF PROPERTY(IES) TO WHICH WATER USE ARE BEING TRANSFERRED:

NAME OF PROPERTY	EXTENT in ha	TITLE DEED NUMBER
1 PTN 3 OVERVLAKTE 125 MS	242,6128	T44346/2009
2 PTN 4 OVERVLAKTE 125 MS	242,2097	T44346/2009
3		
4		

9 DECLARATION BY BENEFICIARY:

I, the OWNER OR AUTHORISED REPRESENTATIVE of the above-mentioned property(ies), hereby apply for a water use license in terms of section 41 of the National Water Act 1998 (Act no. 36 of 1998). Should the license be granted, I undertake to comply with all the obligations that accompany the granting of a water use allocation in respect of the responsible authority.

Signed at Worcester on the 7th day of October 2009 In the presence of the witnesses below.

BENEFICIARY.

Witness 1:.....Initials and Surname:..... S. Ndlovu

Witness 2:.....Initials and Surname..... B. Mhouna

Transfer recommended/ not recommended..... (Stamp of the Responsible Authority here)

Date:



DEPARTMENT OF WATER AFFAIRS AND FORESTRY



27006702

REGISTRATION CERTIFICATE

ISSUED IN TERMS OF THE NATIONAL WATER ACT, 1998 (ACT NO. 36 OF 1998)

This Registration Certificate is issued to :-

Ms EL ESTERHUYSE
4812110042001
POSBUS 98
MESSINA
0800

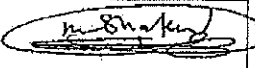
To use water on the following property :-

OVER VLAKTE MS 125 GED 3
T81218/1984

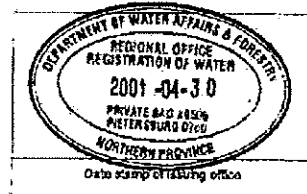
For the water use(s) of :-

Section 21(a) Taking water from a water resource.

(See attached Annexure)


Regional Director

Date / /
Northern Province Region



DISCLAIMER

This certificate is :-

1. not an acknowledgment of an entitlement to the registered water use;
2. issued without alterations or erasures and is invalid if it contains alterations not in conformity with the Department's official copy; and
3. in substitution of any registration certificate that may have been previously issued by the Department.



DEPARTMENT OF WATER AFFAIRS AND FORESTRY



Taking water from a water resource in terms of Section 21(a) of the National Water Act

Water resource: BOORGATE

Source: Borehole

Total volume taken per year: 1900000.00 cubic metres

Date registered: 2001-03-20

Water Use No: 1

Water resource: LIMPOPORIVIER

Source: Rivers

Total volume taken per year: 1100000.00 cubic metres

Date registered: 2001-03-20

Water Use No: 2

DISCLAIMER:

- This certificate is:-
1. not an acknowledgement of an entitlement to the registered water use;
 2. issued without alterations or erasures and is invalid if it contains alterations not in conformity with the Department's official copy; and
 3. in substitution of any registration certificate that may have been previously issued by the Department.



DEPARTMENT OF WATER AFFAIRS AND FORESTRY



27006711

REGISTRATION CERTIFICATE

ISSUED IN TERMS OF THE NATIONAL WATER ACT, 1998 (ACT NO. 36 OF 1998)

This Registration Certificate is issued to :-

M^s EL ESTERHUYSE
4912110042001
POSBUS 98
MESSINA
0900

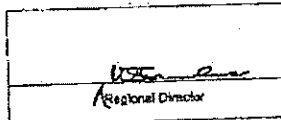
To use water on the following property :-

OVER VLAKTE MS 125 GED 4
T81216/1094

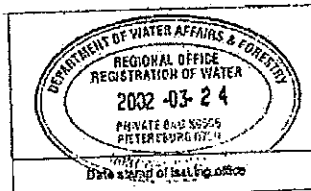
For the water use(s) of :-

Section 21(a) Taking water from a water resource.
Section 21(b) Storing water.

(See attached Annexure)



Regional Director



Date 15/03/02

Northern Province Region

DISCLAIMER:

This certificate is :-

1. not an acknowledgement of an entitlement to the registered water use;
2. issued without alterations or erasures and is invalid if it contains alterations not in conformity with the Department's official copy; and
3. a substitution of any registration certificate that may have been previously issued by the Department.



DEPARTMENT OF WATER AFFAIRS AND FORESTRY



Taking water from a water resource in terms of Section 21(a) of the National Water Act

Water resource: BOORGATE

Source: Borehole

Total volume taken per year: 230000.00 cubic metres

Date registered: 2001-03-20

Water Use No: 1

Water resource: LIMPOPORIVIER

Source: Rivers

Total volume taken per year: 1100000.00 cubic metres

Date registered: 2001-03-20

Water Use No: 2

Handwritten signature

DISCLAIMER:

This certificate is:-

1. not an acknowledgment of an entitlement to the registered water use;
2. issued without alterations or erasures and is invalid if it contains alterations not in conformity with the Department's official copy; and
3. in substitution of any registration certificate that may have been previously issued by the Department.



DEPARTMENT OF WATER AFFAIRS AND FORESTRY



Storing water in terms of Section 21(b) of the National Water Act

Storing water not containing waste

Total volume: 74000.00 cubic metres in 2 dams

Water course(s): ONBEKEND

Date registered: 2001-03-20

Water Use No: 3

UG

DISCLAIMER:

This certificate is:

1. not an acknowledgement of an entitlement to the registered water use;
2. issued without alterations or erasures and is invalid if it contains alterations not in conformity with the Department's official copy; and
3. in substitution of any registration certificate that may have been previously issued by the Department.



DEPARTMENT OF WATER AFFAIRS AND FORESTRY

APPLICATION FOR THE PERMANENT TRANSFER OF EXISTING LAWFUL WATER USE
IN TERMS OF SECTION 25(2) OF THE NATIONAL WATER ACT 1998
(ACT NO.36 OF 1998)

1 DETAILS OF PERSON RELINQUISHING WATER USE.

SURNAME ESTERHUYSE	FULL NAMES WILLEM PETRUS
POSTAL ADDRESS PO BOX 87 MUSINA 0900	
ID NUMBER A6 0307 5006 087	TITLE MR
TELEPHONE NUMBER AND CODE 015 534 2852	FAX NO. AND CODE 086 604 9783
CELLPHONE NO. 0833 008 915	EMAIL wpesterhuyse@limpopo.co.za

2. DETAILS OF PROPERTY(IES) from which water use are being transferred.

NAME OF PROPERTY(IES)	EXTENT IN ha	TITLE DEED NUMBER
1 PTN 5 OVERVLAKTE 125	842, 2117	T 22619/2009
2 MS LIMPOPO		(PREVIOUS TITLE DEED NO
3		T 2400/2000)
4		

3. DETAILS OF EXISTING LAWFUL WATER USE.
(Scheduling of property (ies) mentioned under '2)

Scheduling in ha (A)	Annual Quota in m ³ (B)	Total Allocation C = (AxB)	Annual Charge (R)
1	4126200 m³		
2			R
3			R
4			R

4. DETAILS OF EXISTING LAWFUL WATER USE THAT ARE BEING RELINQUISHED.
(Water uses mentioned under 3)

SCHEDULING in ha	Annual Quota in m ³	Balance remaining in m ³
1	4126200 m³	
2		
3		
4		

5. DETAILS OF APPLICABLE WATER USE.

Irrigation Board	Name	Permit no. /Date	License no /Date
Water User Association			
Government Water Scheme			
Other body			
River	LIMPOPO RIVER	27019556	
Borehole.		DATED 25/5/2001	

WPE

6. DECLARATIONS BY APPLICANTS:

- 6.1 I, the **OWNER OR AUTHORISED REPRESENTATIVE** of the property(ies) described by paragraph 2 hereby permanently relinquish my lawful water use as described by paragraph no. 3. This(ese) water uses will be transferred permanently in terms of section 25(2) of the National Water Act 1998 (Act no. 36 of 1998) to the **BENEFICIARY** to facilitate a license application in terms of section 41 of the Act. This applicant takes place as a willing buyer/ seller transaction without any intervention by the Department of Water Affairs and Forestry.

Signed at MUSINA on the 23RD day of SEPTEMBER 2009 in the presence of the witnesses below:

RELINQUISHER.

Witness 1: W.P. Esterhuysen Initials and Surname: M.S. ESTERHUYSEN

Witness 2: M. A. Roux Initials and Surname: A. U. ROUX

7 DETAILS OF BENEFICIARY:

SURNAME COMPANY		FULL NAMES	
HARRISIA INVESTMENT HOLDINGS (PTY) LIMITED			
POSTAL ADDRESS			
PO BOX 1574 HOUGHTON 2041			
ID NUMBER REGISTRATION NUMBER		TITLE COMPANY	
011 785 4507 2008/011		655/07	
TELEPHONE NUMBER AND CODE		FAX NUMBER AND CODE	
011 785 4507		stephen. rowse@coalofafrica.co.za	
CELL PHONE NO.		EMAIL	
083 545			

8 DETAILS OF PROPERTY(IES) TO WHICH WATER USE ARE BEING TRANSFERRED:

NAME OF PROPERTY	EXTENT IN ha	TITLE DEED NUMBER
1 PTN 5 OVER VLAARIE 125	842,2117	T22619/2009
2 MS LIMPOPO		
3		
4		

- 9 DECLARATION BY BENEFICIARY: ☒ SEE SEPARATE APPLICATION SIGNED BY THE NEW REGISTERED OWNER
- I, the **OWNER OR AUTHORISED REPRESENTATIVE** of the above-mentioned property(ies), hereby apply for a water use license in terms of section 41 of the National Water Act 1998 (Act no. 36 of 1998). Should the license be granted, I undertake to comply with all the obligations that accompany the granting of a water use allocation in respect of the responsible authority.

Signed at on the day of 200 in the presence of the witnesses below.

BENEFICIARY.

Witness 1: Initials and Surname:

Witness 2: Initials and Surname:

Transfer recommended/ not recommended (Stamp of the Responsible Authority here)

Date:



DEPARTMENT OF WATER AFFAIRS AND FORESTRY

APPLICATION FOR THE PERMANENT TRANSFER OF EXISTING LAWFUL WATER USE
IN TERMS OF SECTION 25(2) OF THE NATIONAL WATER ACT 1998
(ACT NO.36 OF 1998)

1 DETAILS OF PERSON RELINQUISHING WATER USE.

SURNAME ESTERHUYSE	FULL NAMES WILLEM PETRUS
POSTAL ADDRESS PO BOX 87 MUSINA 0900	
ID NUMBER AG 0307 5006 087	TITLE MR
TELEPHONE NUMBER AND CODE 015 534 2852	FAX NO. AND CODE 086 604 9783
CELLPHONE NO. 0833 008 915	EMAIL wpesterhuysen@limpopo.co.za

2. DETAILS OF PROPERTY(IES) from which water use are being transferred.

NAME OF PROPERTY(IES)	EXTENT in ha	TITLE DEED NUMBER
1 PTN 5 OVERVLAKTE 125	842, 2117	T 22619 2009
2 M. LIMPOPO		(PREVIOUS TITLE DEED NO
3		T 2400 2000)
4		

3. DETAILS OF EXISTING LAWFUL WATER USE.
(Scheduling of property (ies) mentioned under '2)

Scheduling in ha (A)	Annual Quota in m ³ (B)	Total Allocation C = (AxB)	Annual Charge (R)
1	4126200 m ³		R
2			R
3			R
4			R

4. DETAILS OF EXISTING LAWFUL WATER USE THAT ARE BEING RELINQUISHED.
(Water uses mentioned under 3)

SCHEDULING in ha	Annual Quota in m ³	Balance remaining in m ³
1	4126200 m ³	
2		
3		
4		

5. DETAILS OF APPLICABLE WATER USE.

Irrigation Board	Name	Permit no. /Date	License no /Date
Water User Association			
Government Water Scheme			
Other body			
River	LIMPOPO RIVER	27019556	
Borehole.		DATED 25/5/2001	



SEE SEPARATE APPLICATION SIGNED BY PREVIOUS OWNER

2

6. DECLARATIONS BY APPLICANTS:

- 6.1 I, the OWNER OR AUTHORISED REPRESENTATIVE of the property(ies) described by paragraph 2 hereby permanently relinquish my lawful water use as described by paragraph no. 3. This (ese) water uses will be transferred permanently in terms of section 25(2) of the National Water Act 1998 (Act no. 36 of 1998) to the BENEFICIARY to facilitate a license application in terms of section 41 of the Act. This applicant takes place as a willing buyer/ seller transaction without any intervention by the Department of Water Affairs and Forestry.

Signed at..... on theday of200.. in the presence of the witnesses below:

RELINQUISHER.

Witness 1:.....Initials and Surname:.....

Witness 2:.....Initials and Surname

7 DETAILS OF BENEFICIARY:

SURNAME	FULL NAMES
HARRISIA INVESTMENT HOLDINGS (PTY) LIMITED	
POSTAL ADDRESS	
PO BOX 1574 HOUGHTON 2041	
ID NUMBER REGISTRATION NO	HTLS COMPANY
2008/010655/07	
TELEPHONE NUMBER AND CODE	FAX NUMBER AND CODE
011 785 4507	0866 581 041
CELL PHONE NO.	EMAIL
083 645 9144	stephen.rowse@coalofafrica.co.za

8 DETAILS OF PROPERTY(IES) TO WHICH WATER USE ARE BEING TRANSFERRED:

NAME OF PROPERTY	EXTENT IN ha	TITLE DEED NUMBER
1 PTNSOVER VLAKTE 125 MS	842,2117	T 22619 2009
2 LIMPOPO		
3		
4		

9 DECLARATION BY BENEFICIARY:

I, the OWNER OR AUTHORISED REPRESENTATIVE of the above-mentioned property(ies), hereby apply for a water use license in terms of section 41 of the National Water Act 1998 (Act no. 36 of 1998). Should the license be granted, I undertake to comply with all the obligations that accompany the granting of a water use allocation in respect of the responsible authority.

Signed at Woodhead on the 7th day of October 200¹ in the presence of the witnesses below.

BENEFICIARY.

Witness 1: R. MAOUNA Initials and Surname: R. MAOUNA

Witness 2: L. P. MORESE Initials and Surname L. P. MORESE

Transfer recommended/ not recommended..... (Stamp of the Responsible Authority here)

Date :.....



DEPARTMENT OF WATER AFFAIRS AND FORESTRY



27019556

REGISTRATION CERTIFICATE

ISSUED IN TERMS OF THE NATIONAL WATER ACT, 1998 (ACT NO. 36 OF 1998)

This Registration Certificate is issued to :-

Mr WP ESTERHUYSE
4603075006087
POSBUS 87
MESSINA
0900

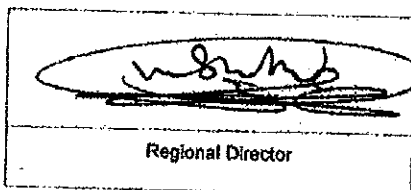
To use water on the following property :-

OVERVLAKTE MS 125 GED 5
T2400/2000

For the water use(s) of :-

Section 21(a) Taking water from a water resource.
Section 21(b) Storing water.

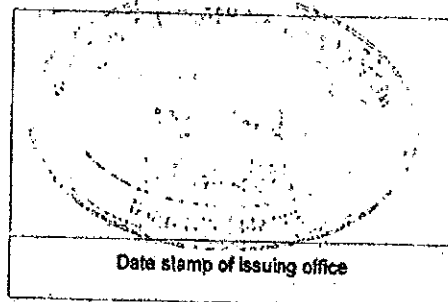
(See attached Annexure)



Regional Director

Date ____/____/____

Northern Province Region



Data stamp of issuing office

DISCLAIMER:

This certificate is :-

1. not an acknowledgement of an entitlement to the registered water use;
2. issued without alterations or erasures and is invalid if it contains alterations not in conformity with the Department's official copy; and
3. In substitution of any registration certificate that may have been previously issued by the Department.



DEPARTMENT OF WATER AFFAIRS AND FORESTRY



Taking water from a water resource in terms of Section 21(a) of the National Water Act

Water resource: LIMPOPORIVIER

Source: Rivers

Total volume taken per year: 1100000.00 cubic metres

Date registered: 2001-05-25

Water Use No: 1

Water resource: BOORGATE

Source: Borehole

Total volume taken per year: 3026200.00 cubic metres

Date registered: 2001-05-25

Water Use No: 3

DISCLAIMER:

This certificate is :-

1. not an acknowledgement of an entitlement to the registered water use;
2. issued without alterations or erasures and is invalid if it contains alterations not in conformity with the Department's official copy; and
3. in substitution of any registration certificate that may have been previously issued by the Department.



DEPARTMENT OF WATER AFFAIRS AND FORESTRY



Storing water in terms of Section 21(b) of the National Water Act

Storing water not containing waste

Total volume: 24500.00 cubic metres in 3 dams

Water course(s): ONBEKEND

Date registered: 2001-05-25

Water Use No: 2

DISCLAIMER:

This certificate is :-

1. not an acknowledgement of an entitlement to the registered water use;
2. issued without alterations or erasures and is invalid if it contains alterations not in conformity with the Department's official copy; and
3. in substitution of any registration certificate that may have been previously issued by the Department.



DEPARTMENT OF WATER AFFAIRS AND FORESTRY

APPLICATION FOR THE PERMANENT TRANSFER OF EXISTING LAWFUL WATER USE
IN TERMS OF SECTION 25(2) OF THE NATIONAL WATER ACT 1998
(ACT NO.36 OF 1998)

1 DETAILS OF PERSON RELINQUISHING WATER USE.

ON BEHALF OF HARRISIA INVESTMENT HOLDINGS (PTY) LTD

SURNAME ROWSE	FULL NAMES STEPHEN ROBERT
POSTAL ADDRESS PO BOX 69517 BRYANSTON 2021	
ID NUMBER 740113 5191 021	TITLE MR
TELEPHONE NUMBER AND CODE 011-785-4518	FAX NO. AND CODE 0866 381 041
CELLPHONE NO. 083 545 9144	EMAIL stephen@coalofafrica.co.za

2. DETAILS OF PROPERTY(IES) from which water use are being transferred.

NAME OF PROPERTY(IES)	EXTENT IN ha	TITLE DEED NUMBER
1 OVERVLAKTE (PORTION 3)	342 ha	} T44946/2009
2 OVERVLAKTE - PORTION 4	842 ha	
3		
4		

3. DETAILS OF EXISTING LAWFUL WATER USE.
(Scheduling of property (ies) mentioned under 2)

Scheduling in ha (A)	Annual Quota in m ³ (B)	Total Allocation C = (AxB)	Annual Charge (R)
1	4.33 million		R
2			R
3			R
4			R

4. DETAILS OF EXISTING LAWFUL WATER USE THAT ARE BEING RELINQUISHED.
(Water uses mentioned under 3)

SCHEDULING in ha	Annual Quota in m ³	Balance remaining in m ³
1	1.533 million.	2.797 million
2	From agriculture	
3	to industrial	
4	(mining)	

5. DETAILS OF APPLICABLE WATER USE.

Irrigation Board	Name	Permit no. /Date	License no /Date
Water User Association	①	27006702	
Government Water Scheme	②	27006711	
Other body			
River			
Borehole			

6. DECLARATIONS BY APPLICANTS:

- 6.1 I, the **OWNER OR AUTHORISED REPRESENTATIVE** of the property(ies) described by paragraph 2 hereby permanently relinquish my lawful water use as described by paragraph no. 3. This(ese) water uses will be transferred permanently in terms of section 25(2) of the National Water Act 1998 (Act no. 36 of 1998) to the **BENEFICIARY** to facilitate a license application in terms of section 41 of the Act. This applicant takes place as a willing buyer/ seller transaction without any intervention by the Department of Water Affairs and Forestry.

Signed at Woodmead on the 5TH day of November 2009 in the presence of the witnesses below:



RELINQUISHER.

Witness 1: B. Khosa Initials and Surname: B. Khosa

Witness 2: M.R. Mourins Initials and Surname: M.R. Mourins

7 DETAILS OF BENEFICIARY:

ON BEHALF OF LIMPOPO COAL COMPANY (PTY) LTD

SURNAME <u>ROWSE</u>	FULL NAMES <u>STEPHEN ROBERT</u>
POSTAL ADDRESS <u>PO BOX 69517</u> <u>BRYANSTON, 2021</u>	
ID NUMBER <u>7401135791081</u>	TITLE <u>MR</u>
TELEPHONE NUMBER AND CODE <u>011-785-4510</u>	FAX NUMBER AND CODE <u>0866 381 041</u>
CELL PHONE NO. <u>083 545 9144</u>	EMAIL <u>stephen@coalofafrica.co.za</u>

8 DETAILS OF PROPERTY(IES) TO WHICH WATER USE ARE BEING TRANSFERRED:

	NAME OF PROPERTY	EXTENT IN ha	TITLE DEED NUMBER
1			
2			
3			
4			

9 DECLARATION BY BENEFICIARY:

I, the **OWNER OR AUTHORISED REPRESENTATIVE** of the above-mentioned property(ies), hereby apply for a water use license in terms of section 41 of the National Water Act 1998 (Act no. 36 of 1998). Should the license be granted, I undertake to comply with all the obligations that accompany the granting of a water use allocation in respect of the responsible authority.

Signed at Woodmead on the 5TH day of November 2009 in the presence of the witnesses below.



BENEFICIARY.

Witness 1: B. Khosa Initials and Surname: B. Khosa

Witness 2: M.R. Mourins Initials and Surname: M.R. Mourins

Transfer recommended/ not recommended..... (Stamp of the Responsible Authority here)

Date :

HARRISIA INVESTMENT HOLDINGS (PTY) LTD

2008/011655/07

(a wholly owned subsidiary of Coal of Africa Limited)

8 October 2009

To whom It may concern

RE: HARRISIA INVESTMENT HOLDINGS' WATER RIGHTS

Harrisia Investment Holdings (Pty) Ltd ("Harrisia" or "the Company") is a wholly owned subsidiary of Coal of Africa Limited ("CoAL"), an Australian company listed on the ASX, AIM (London) and JSE. CoAL owns 74% of Limpopo Coal Company (Pty) Ltd ("LCC"), the company that owns the New Order Prospecting Rights for the Vele coking coal project located approximately 45 km's west of Musina in the Limpopo Province.

Harrisia has acquired portions 3, 4 and 5 of the farm Overvlakte 125 MS as well as the water rights associated with these farms. The Company is in the process of transferring the water rights from the previous owners and plans on amending the purpose of the water use of some of the licenses from agricultural to industrial use.

Assuming the Department of Mineral Resources grants LCC a New Order Mining Right, a portion of the farms will be leased to LCC for mining purposes and the remaining area will be leased for farming. The Industrial water use licenses will be used on the areas where mining activities occur.



Regards

Stephen Rowse





DEPARTMENT OF WATER AFFAIRS AND FORESTRY



27006702

REGISTRATION CERTIFICATE

ISSUED IN TERMS OF THE NATIONAL WATER ACT, 1998 (ACT NO. 36 OF 1998)

This Registration Certificate is Issued to :-

Ms EL ESTERHUYSE
4912110042001
POSBUS 98
MESSINA
0200

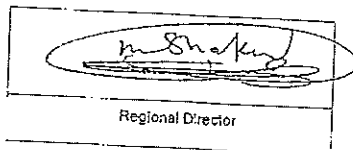
To use water on the following property :-

OVER VLAKE MS 125 GED 3
T81218/1994

For the water use(s) of :-

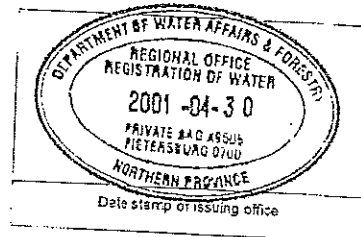
Section 21(a) Taking water from a water resource.

(See attached Annexure)



Regional Director

Date _____
Northern Province Region



DISCLAIMER:

This certificate is :-

1. not an acknowledgement of an entitlement to the registered water use;
2. issued without alterations or erasures and is invalid if it contains alterations not in conformity with the Department's official copy; and
3. in substitution of any registration certificate that may have been previously issued by the Department.

27006702/2

2001/03/20 12:14:41 PM

Page 1 of 2



DEPARTMENT OF WATER AFFAIRS AND FORESTRY



Taking water from a water resource in terms of Section 21(a) of the National Water Act

Water resource: BOORGATE

Source: Borehole

Total volume taken per year: 1900000.00 cubic metres

Date registered: 2001-03-20

Water Use No: 1

Water resource: LIMPOPORIVIER

Source: Rivers

Total volume taken per year: 1100000.00 cubic metres

Date registered: 2001-03-20

Water Use No: 2

DISCLAIMER:

This certificate is :-

1. not an acknowledgement of an entitlement to the registered water use;
2. Issued without alterations or erasures and is invalid if it contains alterations not in conformity with the Department's official copy; and
3. in substitution of any registration certificate that may have been previously issued by the Department.



DEPARTMENT OF WATER AFFAIRS AND FORESTRY



27006711

REGISTRATION CERTIFICATE

ISSUED IN TERMS OF THE NATIONAL WATER ACT, 1998 (ACT NO. 36 OF 1998)

This Registration Certificate is issued to :-

Ms EL ESTERHUYSE
4912110042001
POSBUS 98
MESSINA
0900

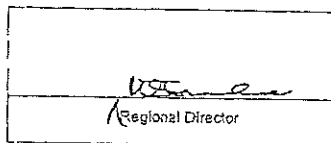
To use water on the following property :-

OVER VLAKTE MS 125 GED 4
T81218/1994

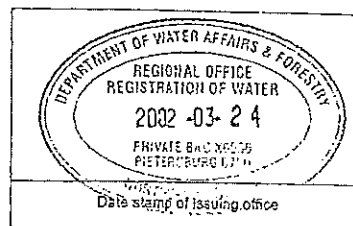
For the water use(s) of :-

Section 21(a) Taking water from a water resource.
Section 21(b) Storing water.

(See attached Annexure)



Date 15/04/08
Northern Province Region



DISCLAIMER:

This certificate is :-

1. not an acknowledgement of an entitlement to the registered water use;
2. issued without alterations or erasures and is invalid if it contains alterations not in conformity with the Department's official copy; and
3. is substitution of any registration certificate that may have been previously issued by the Department.



DEPARTMENT OF WATER AFFAIRS AND FORESTRY



Taking water from a water resource in terms of Section 21(a) of the National Water Act

Water resource: BOORGATE

Source: Borehole

Total volume taken per year: 230000.00 cubic metres

Date registered: 2001-03-20

Water Use No: 1

Water resource: LIMPOPORIVIER

Source: Rivers

Total volume taken per year: 1100000.00 cubic metres

Date registered: 2001-03-20

Water Use No: 2

Handwritten signature

DISCLAIMER :

This certificate is :-

1. not an acknowledgement of an entitlement to the registered water use;
2. Issued without alterations or erasures and is invalid if it contains alterations not in conformity with the Department's official copy; and
3. In substitution of any registration certificate that may have been previously issued by the Department.



DEPARTMENT OF WATER AFFAIRS AND FORESTRY



Storing water in terms of Section 21(b) of the National Water Act

Storing water not containing waste

Total volume: 74000.00 cubic metres in 2 dams

Water course(s): ONBEKEND

Date registered: 2001-03-20

Water Use No: 3

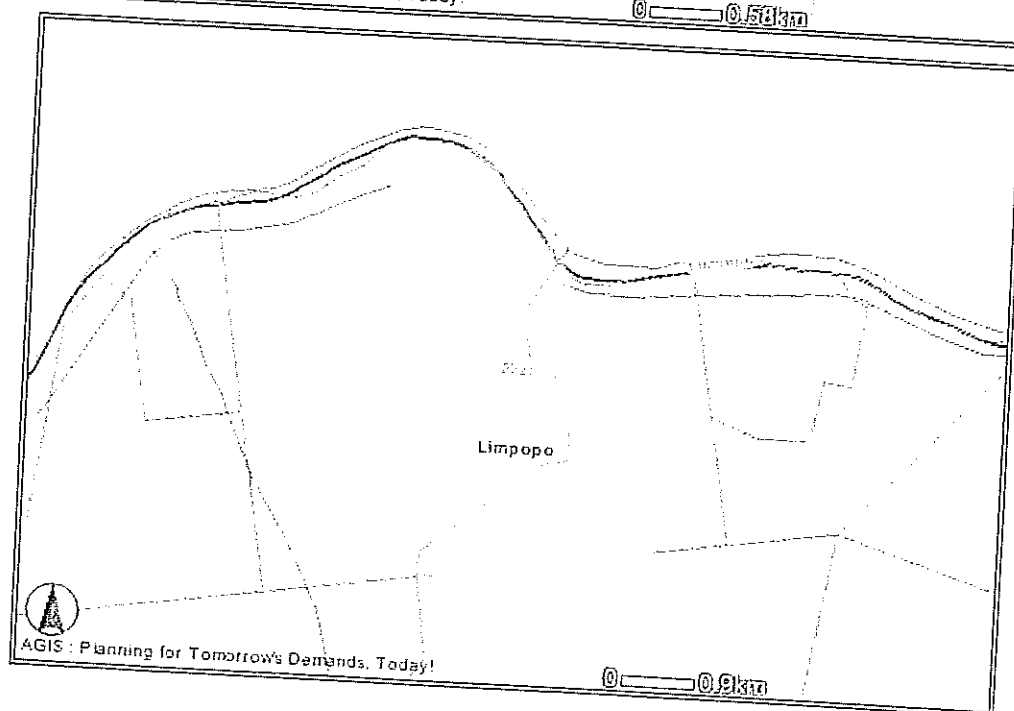
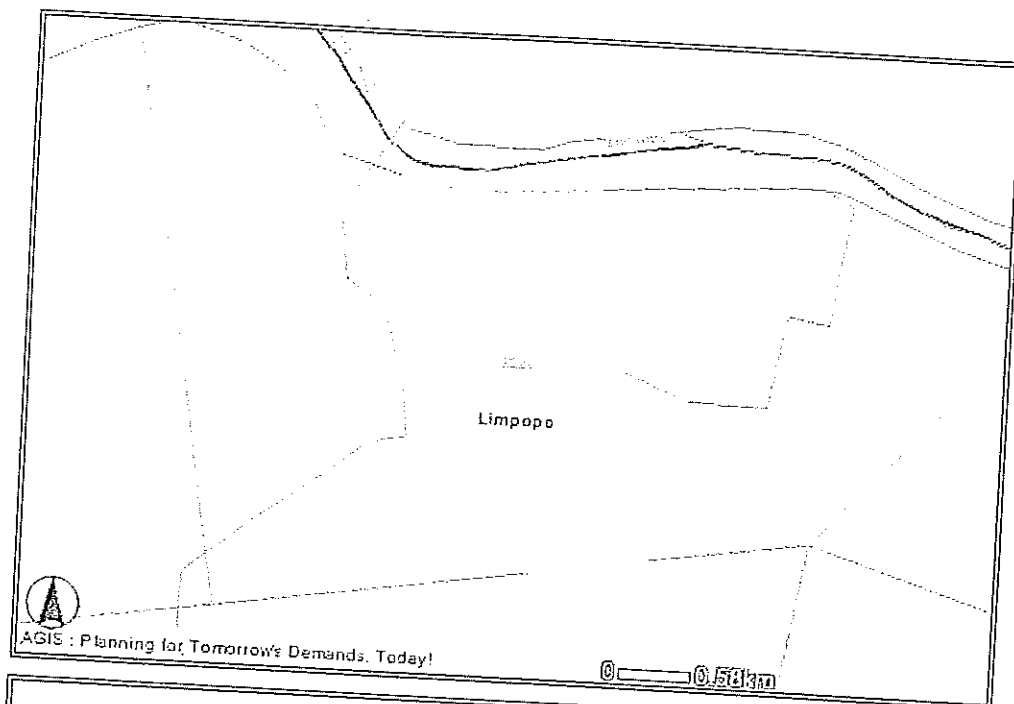
US.

DISCLAIMER:

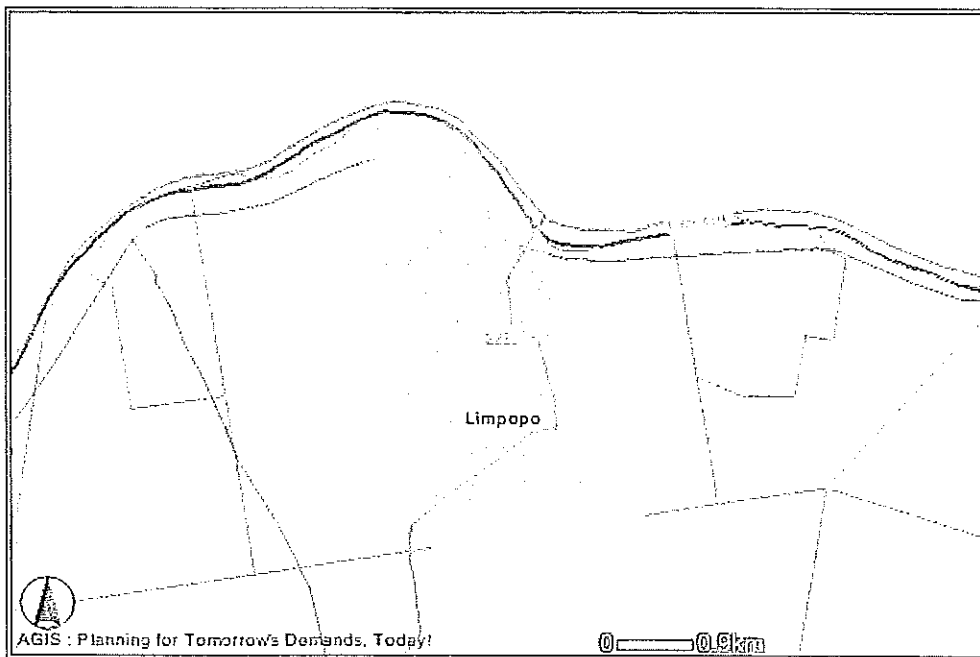
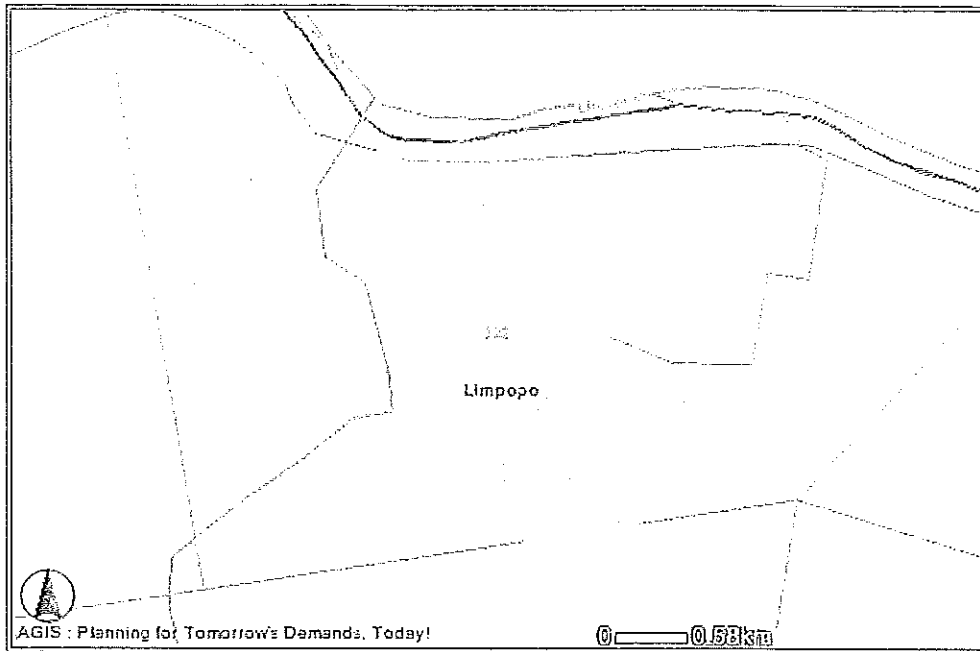
This certificate is :-

1. not an acknowledgement of an entitlement to the registered water use;
2. issued without alterations or erasures and is invalid if it contains alterations not in conformity with the Department's official copy; and
3. in substitution of any registration certificate that may have been previously issued by the Department.

Farm Location



Arm Location





DEPARTMENT OF WATER AFFAIRS AND FORESTRY



27019556

REGISTRATION CERTIFICATE

ISSUED IN TERMS OF THE NATIONAL WATER ACT, 1998 (ACT NO. 36 OF 1998)

This Registration Certificate is issued to :-

Mr WP ESTERHUYSE
4603075006087
POSBUS 87
MESSINA
0900

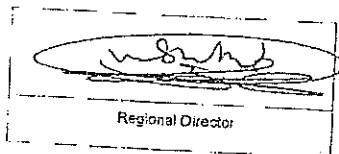
To use water on the following property :-

OVERVLAKTE MS 125 GED 5
T2400/2000

For the water use(s) of :-

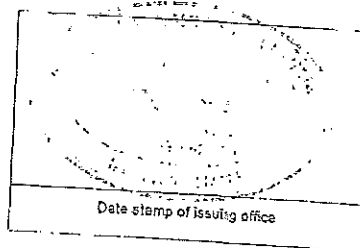
Section 21(a) Taking water from a water resource.
Section 21(b) Storing water.

(See attached Annexure)



Regional Director

Date ____/____/____
Northern Province Region



Date stamp of issuing office

DISCLAIMER:
This certificate is :-
1. not an acknowledgement of an entitlement to the registered water use;
2. issued without alterations or erasures and is invalid if it contains alterations not in conformity with the Department's official copy; and
3. in substitution of any registration certificate that may have been previously issued by the Department.

27019556/1

2001/05/25 12:13:43 PM

Page 1 of 3



DEPARTMENT OF WATER AFFAIRS AND FORESTRY



Taking water from a water resource in terms of Section 21(a) of the National Water Act

Water resource: LIMPOPORIVIER

Source: Rivers

Total volume taken per year: 1100000.00 cubic metres

Date registered: 2001-05-25

Water Use No: 1

Water resource: BOORGATE

Source: Borehole

Total volume taken per year: 3026200.00 cubic metres

Date registered: 2001-05-25

Water Use No: 3

DISCLAIMER:

This certificate is:-

1. not an acknowledgement of an entitlement to the registered water use;
2. issued without alterations or erasures and is invalid if it contains alterations not in conformity with the Department's official copy; and
3. in substitution of any registration certificate that may have been previously issued by the Department.



DEPARTMENT OF WATER AFFAIRS AND FORESTRY



Storing water in terms of Section 21(b) of the National Water Act

Storing water not containing waste

Total volume: 24500.00 cubic metres in 3 dams

Water course(s): ONBEKEND

Date registered: 2001-05-25

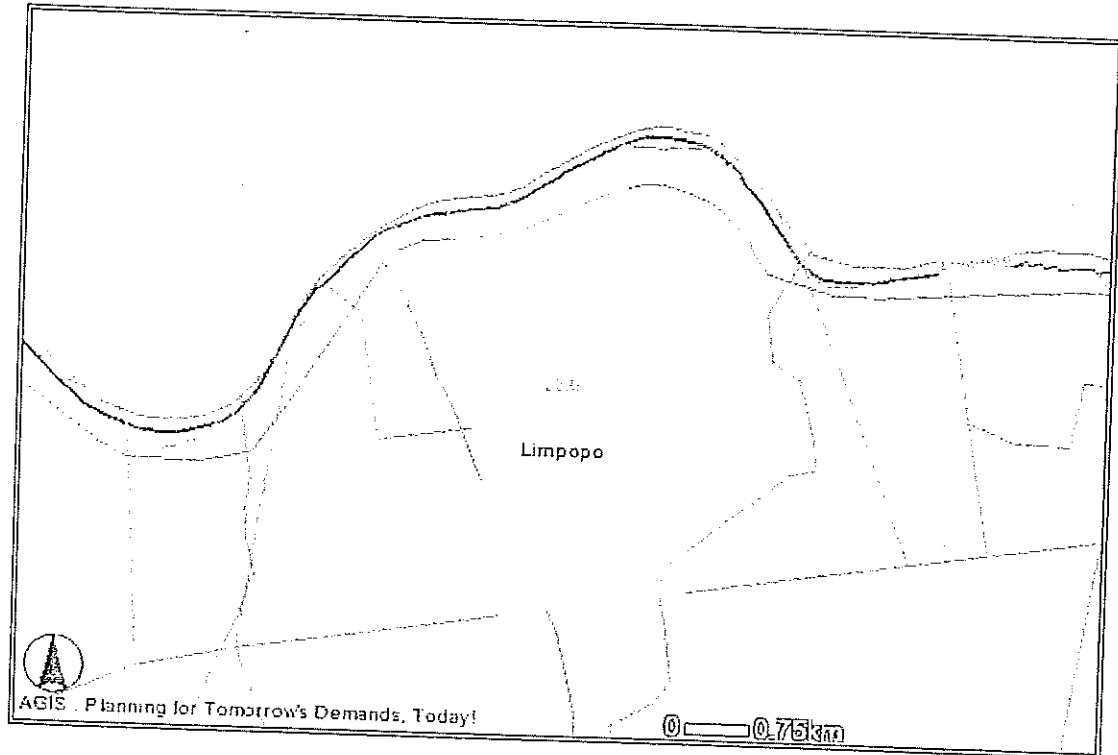
Water Use No: 2

DISCLAIMER:

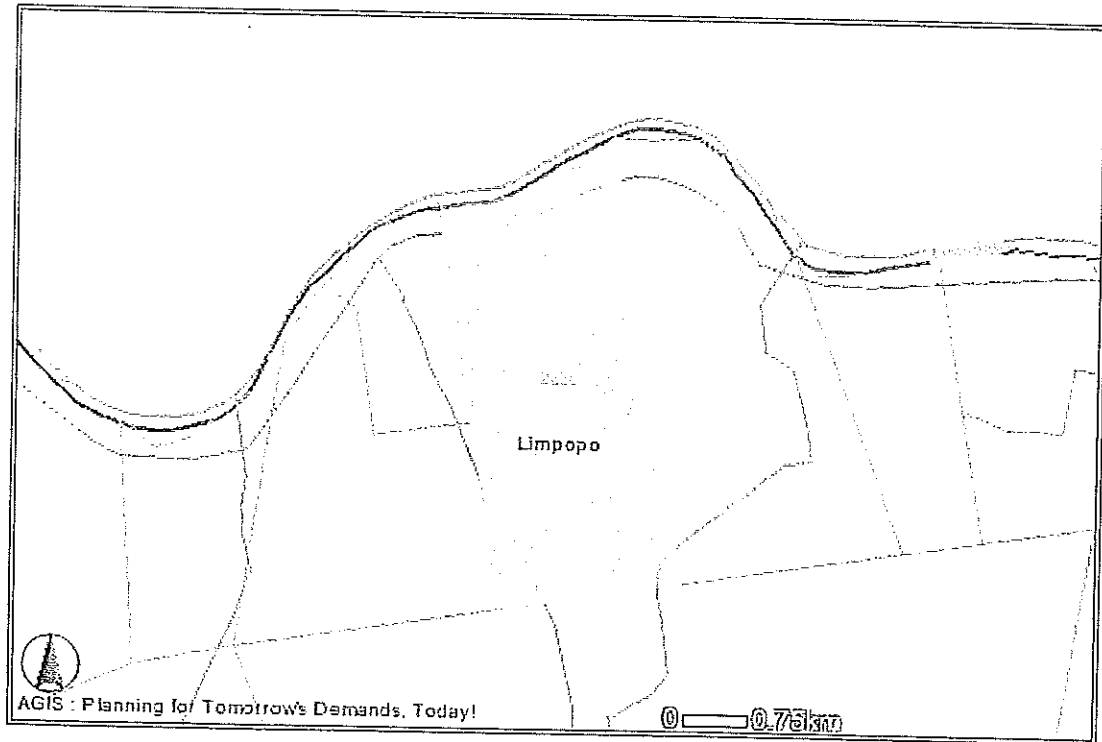
This certificate is :-

1. not an acknowledgement of an entitlement to the registered water use;
2. issued without alterations or erasures and is invalid if it contains alterations not in conformity with the Department's official copy; and
3. in substitution of any registration certificate that may have been previously issued by the Department.

Farm Location



Farm Location



PART 2 – SECTION 21(a)

- 1. BH-001**
- 2. BH-002**
- 3. BH-003**
- 4. BH-004**
- 5. BH-005**
- 6. BH-006**
- 7. BH-007**
- 8. BH-008**

ASSOCIATED FORMS:

- 1. DW784**



water affairs

Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

Registration / Licensing

Part 2

Section 21(a) of the National Water Act

TAKING WATER FROM A WATER RESOURCE

Mark the applicable option(s) with an X and/or complete details where applicable/available

1. WATER USE DETAILS

1.1 Have you already registered a water use with the Department of Water Affairs and Forestry?

☐ Yes ☒ No

Registration Number:

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Water Use Number:

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

☐ Licence Related WU

RLA Reference

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

NRWU Licence Number

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

RLA Business Unit

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

(NRWU = National Register of Water Use; RLA = Responsible Licensing Authority; WU = Water Use)

1.2 Applicant Type (mark only one block with X)

☐ Individual (complete 1.3)

☒ Company, business, partnership or community (complete 1.4)

☐ National Department (complete 1.5)

☐ Provincial Department (complete 1.6)

☐ Water Services Provider (complete 1.7)

☐ Water User Association (complete 1.8)

1.3 If the applicant is an individual

1.3.1 Title

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

 Surname

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

 Initials

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

1.3.2 South African ID (if holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Passport Expiry Date (ccyyymmdd)

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Passport Country Of Issue

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

For office use only

Allocated Reg. No.

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

WU No.

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

1.4 If the applicant is a company, business, partnership or community:

1.4.1 Name of company, business, partnership or community:

LIMPOPO COAL COMPANY (PTY) LTD

1.4.2 Business Enterprise Registration Number

006072107

1.4.3 Date Established (ccyymmdd)

20050224

Country Where Established

RSA

1.5 If the applicant is a National Department:

1.5.1 National Department Name:

1.6 If the applicant is a Provincial Department:

1.6.1 Province:

1.6.2 Provincial Department Name:

1.7 If the applicant is a Water Services Provider:


1.7.1 Name of WSP:

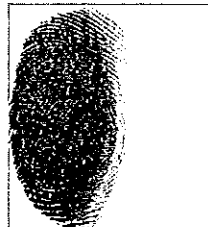
1.8 If the applicant is a Water User Association:

1.8.1 Name of WUA:

Declaration by applicant

Delete the words that are not applicable I/we BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.


 Signature
Company Representative
 Designation of signatory



Thumb print

(011) 785 4518
 Contact number during office hours
2009/11/05
 Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

4.2 Period of water use

Date of first use or proposed first use
(ccyymmdd)

20100101

End date (if applicable)
(ccyymmdd)

--	--	--	--	--	--	--	--

4.3 Volume of water abstracted (*minus a realistic estimate of the transmission losses in the case of a WUA / WSP related water use)

***WU /WSP: Transmission Loss**
(taken into account i.r.o gross volume)

	Start date (ccyymmdd)	Volume		Time interval (mark only one with X)				
a)	20100101	840	m ³	<input checked="" type="checkbox"/> Daily	<input type="checkbox"/> Monthly	<input type="checkbox"/> Annually		%
b)			m ³	<input type="checkbox"/> Daily	<input type="checkbox"/> Monthly	<input type="checkbox"/> Annually		%
c)			m ³	<input type="checkbox"/> Daily	<input type="checkbox"/> Monthly	<input type="checkbox"/> Annually		%

4.4 Estimated water abstraction pattern:

in total cubic meters

☒ or

% per month

☐

Jan	25,550	Apr	25,550	Jul	25,550	Oct	25,550
Feb	25,550	May	25,550	Aug	25,550	Nov	25,550
Mar	25,550	Jun	25,550	Sep	25,550	Dec	25,550

4.5 Method of abstraction (mark with an X the abstraction method currently used or to be installed)

☒ Pump *☐ Canal☐ Gravity or outlet pipe☐ Other (specify) **

* Also complete supplementary form DW784pmp ('Taking water from a water resource – pump technical data'), if 'pump' was selected.

** If the method of abstraction is not PUMP / CANAL / GRAVITY OR OUTLET PIPE, please define method utilised:

--

4.6 Number of households served with water (if known)

--	--	--	--	--	--	--	--

4.7 Is this water provided by a Water User Association or Water Services Provider?

☐ WUA☐ WSP

4.8 Name of Water User Association / Water Services Provider:

5. EXISTING AUTHORISATION AND REGISTRATION (PERMIT INFORMATION)

5.1 Existing permit information

Permit number

Date (ccyymmdd)

Permit No.	
Permit No.	
Permit No.	
Permit No.	
Permit No.	
Permit No.	

5.2 If water use takes place in terms of the General Authorisation, mark with an X

☐

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

<u>Date(s) from which applicable GA is/was applicable to this water use</u>			
South African Act:		Applicable section of the act	
[E.g. National Water Act (Act No. 36 of 1998)]		[E.g. Section 21]	
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			

5.3 If an authorisation has been issued under other legislation

Law /Regulation

6. SUBSIDY DETAILS

6.1 Resource Poor Farmer (RPF)

Should this WU application be considered for RPF subsidy?

☐ Yes ☒ No

7. PROPERTY RELATIONSHIP DETAILS (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property	Property Relationship Date	
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property		From:	To:
Overulabte	T 44946/2009	MS	125	3 + 4	Surname of the Leader of Village, Community or Tribal Authority		
					Initial of the Leader of Village, Community or Tribal Authority		
					Local Authority (if applicable)		
					Magisterial District (if applicable)		
Overulabte	T 22619/2009	MS	125	5	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority		
					Initial of the Leader of Village, Community or Tribal Authority		
					Local Authority (if applicable)		
					Magisterial District (if applicable)		
					Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority		
					Initial of the Leader of Village, Community or Tribal Authority		
					Local Authority (if applicable)		
					Magisterial District (if applicable)		
					Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority		
					Initial of the Leader of Village, Community or Tribal Authority		
					Local Authority (if applicable)		
					Magisterial District (if applicable)		
					Tribal Authority/Council (if applicable)		

8. FOR OFFICE USE ONLY

8.1 List of attached forms and documents

8.1.1 Supplementary forms attached with this form (mark with an X)

- ☐ DW787: Irrigated Field and Crop Information
- ☐ DW788: Power Generation, Industrial or Mining Use
- ☐ DW789: Domestic, Urban, Commercial or Industrial Use

8.1.2 Specify the number of other documents submitted with this form (mark with an X)

- ☐
- Environment impact assessment

- ☐
- Other: (specify) _____

[illegible]

- ☐
- Other: (specify) _____

- ☐
- Other: (specify) _____

- ☐
- Other: (specify) _____

8.2 Succession transfer and source Part 2 details

Source Register number

WU Number

WU Status to be allocated

WU Close Date (if applicable)
(ccyyymmdd)

[illegible]

8.3 Billing Information

8.3.1 Applicant to be billed as ☐ An Individual

☐ Via a WUA / WSP

Start date (ccyymmdd)

End date (ccyymmdd)

[illegible]

8.3.2 Applicant to be charged ☐ On actual volume ☐ Registered volume

8.3.3 Billing frequency ☐ Annually ☐ Bi-annually ☐ Monthly

8.3.4 If to be billed via a WUA / WSP

Name of WUA / WSP

Is WUA / WSP a Billing Agent?

☐ Yes☐ No

Billing Agent's Register Number

--	--	--	--	--	--	--	--

8.3.5 If this WU is to be billed via a Bulk Billing Party that is not a WSP / WUA, complete the following:

Name of Customer

Bulk-Bill-to-Party Register Number

--	--	--	--	--	--	--	--

8.4 Water Resource Information

If water source is a Government Water Scheme,

give the GWS name:

8.5 District Municipality

District Municipality Name (if applicable)

8.6 Late Registration Penalty

Is this a late registration?

☐ Yes☐ No

If yes, mark with an X, the applicable penalty to be levied

☐ R300.00 OR☐ 10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable

☐ Waive penalty

File number

Water Use Register Number

Received by:

Surname

Initials

Position / Rank

Signature

Captured on NRWU database
(ccyymmdd)

Captured by:

Surname

Initials

Signature

Date stamp of receiving office



DEPARTMENT OF WATER AFFAIRS AND FORESTRY

SUPPLEMENTARY WATER USE INFORMATION

TAKING WATER FROM A WATER RESOURCE

PUMP TECHNICAL DATA

1. PUMP IDENTIFICATION	
1.1 Pump number (if more than one, enter a sequence number starting from 001)	001
1.2 Installation date	Y Y Y Y M M D D
1.3 Geographic location of the pump (use one format only)	
S 22° 07' 58.9" or S° or S°	Cape datum Clarke <input type="checkbox"/>
E 029° 38' 29.5" or E 0° or E 0°	WGS-84 datum <input checked="" type="checkbox"/>
2. PUMPING HOURS	
2.1 Maximum pumping hours per week	68 h
2.2 Total pumping hours per year	3538 h
3. PUMP DATA	
3.1 Pump type (mark one with X)	
<input type="checkbox"/> a) Centrifugal	<input type="checkbox"/> b) Positive displacement
<input checked="" type="checkbox"/> c) Turbine	<input type="checkbox"/> d) Axial flow
<input type="checkbox"/> e) Other (specify) _____	
3.2 Pump model	SUPER D T90/S-110
3.3 Pulley diameter	mm
3.4 Speed	2900 rpm
3.5 Impeller size (only for a centrifugal pump)	mm
3.6 Suction hose	
3.6.1 Hose material	_____
3.6.2 Hose diameter	mm
3.6.3 Hose length	m
3.7 Type of flow meter (mark one with X)	
<input checked="" type="checkbox"/> a) Inline	<input type="checkbox"/> b) Bypass
<input type="checkbox"/> c) Doppler effect	<input type="checkbox"/> d) None
<input type="checkbox"/> e) Other (specify below) _____	
3.8 Pressure gauge reading	
At inlet =	3 m
At outlet =	45 m

4. POWER SOURCE DATA

4.1 Power source type (mark one with X)

- ☒ a) Electric
 ☐ b) Diesel
 ☐ c) Petrol
 ☐ d) Tractor
 ☐ e) Wind
 ☐ f) Other (specify) _____

4.2 Model

FRANKLIN 2 POLE 400V AC 15 kW

4.3 Pulley diameter

mm

4.4 Speed

2900 rpm

4.5 Coupling:

a) Type (mark one with X)

- ☐ V-belt
 ☐ Flat belt
 ☐ Gearbox
 ☒ Direct
 ☐ Other (specify below) _____

b) For gearbox coupling or direct coupling, enter the ratio

1 : 1

4.6 Power rating

15 kW

5. PUMP OPERATION

	Maximum pressure	Maximum discharge	Average operation	
5.1 Discharge			15	litres / second
5.2 Suction height	3	3	3	metres
5.3 Static height	21	21	21	metres
5.4 Working height			0	metres
5.5 Friction height			19	metres
5.6 Other losses			0	metres
5.7 Total head			40	metres
5.8 Efficiency			60	%
5.9 Power absorbed			11.25	kilowatts
5.10 Ammeter reading				amps

6. BOREHOLE INFORMATION (where applicable)

6.1 a) Borehole number

BH-001

b) Geographic location of the borehole, if different from pump

- ☐ S ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ or ☐ S ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ or ☐ S ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ Cape datum Clarke ☐
☐ E 0 ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ or ☐ E 0 ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ WGS-84 datum ☐

6.2 Yield of borehole

litres / second

6.3 Depth of borehole

metres

6.4 Previous authorisation or licensing reference

7. ESKOM TRANSFORMER (where applicable)

7.1 a) ESKOM reference number

b) Geographic location of the transformer, if different from pump

S	<input type="text"/>	°	<input type="text"/>	'	<input type="text"/>	°	or	S	<input type="text"/>	°	or	S	<input type="text"/>	°	<input type="text"/>	'	<input type="text"/>	°	Cape datum Clarke	<input type="checkbox"/>	
E	0	<input type="text"/>	°	<input type="text"/>	'	<input type="text"/>	°	E	0	<input type="text"/>	°	E	0	<input type="text"/>	°	<input type="text"/>	'	<input type="text"/>	°	WGS-84 datum	<input type="checkbox"/>

7.2 Power rating of the transformer

kVA

FOR OFFICIAL USE ONLY

File number

Water use licence or registration number

Water Management Area

Received by:

Surname

Initials

Rank

Signature

Captured by:

Initials

Date stamp of receiving office



Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

TAKING WATER FROM A WATER RESOURCE

1. WATER USE DETAILS

- [illegible]

☐ Water User Association (complete 1.8)

- | | |
|---------------------------|--|
| Passport Country Of Issue | |
|---------------------------|--|

WU No.			
--------	--	--	--

1.4 If the applicant is a company, business, partnership or community:

1.4.1 Name of company, business, partnership or community:

LIMPOPO COAL COMPANY (PTY) LTD

1.4.2 Business Enterprise Registration Number

006072107

1.4.3 Date Established (ccyymmdd)

20050224

Country Where Established

RSA

1.5 If the applicant is a National Department:

1.5.1 National Department Name:

1.6 If the applicant is a Provincial Department:

1.6.1 Province:

1.6.2 Provincial Department Name:

1.7 If the applicant is a Water Services Provider:


1.7.1 Name of WSP:

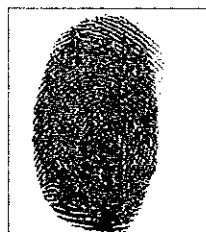
1.8 If the applicant is a Water User Association:

1.8.1 Name of WUA:

Declaration by applicant

Delete the words that are not applicable I/we BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.


 Signature
Company Representative
 Designation of signatory



Thumb print

(011) 785 4518
 Contact number during office hours
2009/11/05
 Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

4.2 Period of water use

Date of first use or proposed first use
(ccyymmdd)

20100101

End date (if applicable)
(ccyymmdd)

4.3 Volume of water abstracted (*minus a realistic estimate of the transmission losses in the case of a WUA / WSP related water use)

*WU /WSP: Transmission Loss

(taken into account i.r.o gross volume)

	Start date (ccyymmdd)	Volume		Time interval (mark only one with X)				
a)	20100101	840	m ³	<input checked="" type="checkbox"/> Daily	<input type="checkbox"/> Monthly	<input type="checkbox"/> Annually		%
b)			m ³	<input type="checkbox"/> Daily	<input type="checkbox"/> Monthly	<input type="checkbox"/> Annually		%
c)			m ³	<input type="checkbox"/> Daily	<input type="checkbox"/> Monthly	<input type="checkbox"/> Annually		%

4.4 Estimated water abstraction pattern:

in total cubic meters

☒ or

% per month

☐

Jan	25,500	Apr	25,500	Jul	25,500	Oct	25,500
Feb	25,500	May	25,500	Aug	25,500	Nov	25,500
Mar	25,500	Jun	25,500	Sep	25,500	Dec	25,500

4.5 Method of abstraction (mark with an X the abstraction method currently used or to be installed)

☒ Pump *☐ Canal☐ Gravity or outlet pipe☐ Other (specify) **

* Also complete supplementary form DW784pmp ('Taking water from a water resource – pump technical data'), if 'pump' was selected.

** If the method of abstraction is not PUMP / CANAL / GRAVITY OR OUTLET PIPE, please define method utilised:

4.6 Number of households served with water (if known)

4.7 Is this water provided by a Water User Association or Water Services Provider?

☐ WUA☐ WSP

4.8 Name of Water User Association / Water Services Provider:

5. EXISTING AUTHORISATION AND REGISTRATION (PERMIT INFORMATION)

5.1 Existing permit information

Permit number

Date (ccyymmdd)

Permit No.	
Permit No.	
Permit No.	
Permit No.	
Permit No.	
Permit No.	

5.2 If water use takes place in terms of the General Authorisation, mark with an X

☐

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

<u>Date(s) from which applicable GA is/was applicable to this water use</u>			
South African Act:		Applicable section of the act	
[E.g. National Water Act (Act No. 36 of 1998)]		[E.g. Section 21]	
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			

5.3 If an authorisation has been issued under other legislation

Law /Regulation

6. SUBSIDY DETAILS

6.1 Resource Poor Farmer (RPF)

Should this WU application be considered for RPF subsidy?

☐ Yes

☒ No

7. PROPERTY RELATIONSHIP DETAILS (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property	Property Relationship Date	
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property		From:	To:
Ovarulabete	T44946/2009				Surname of the Leader of Village, Community or Tribal Authority		
		MS			Initial of the Leader of Village, Community or Tribal Authority		
		125			Local Authority (if applicable)		
		3+6			Magisterial District (if applicable)		
Ovarulabete	T22619/2009				Tribal Authority/Council (if applicable)		
		MS			Surname of the Leader of Village, Community or Tribal Authority		
		125			Initial of the Leader of Village, Community or Tribal Authority		
		S			Local Authority (if applicable)		
					Magisterial District (if applicable)		
					Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority		
					Initial of the Leader of Village, Community or Tribal Authority		
					Local Authority (if applicable)		
					Magisterial District (if applicable)		
					Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority		
					Initial of the Leader of Village, Community or Tribal Authority		
					Local Authority (if applicable)		
					Magisterial District (if applicable)		
					Tribal Authority/Council (if applicable)		

8.6 Late Registration Penalty

Is this a late registration?

☐ Yes☐ No

If yes, mark with an X, the applicable penalty to be levied

☐ R300.00 OR☐ 10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable

☐ Waive penalty

File number

Water Use Register Number

Received by:

Surname

Initials

Position / Rank

Signature

Captured on NRWU database

(ccyymmdd)

Captured by:

Surname

Initials

Signature

Date stamp of receiving office



DEPARTMENT OF WATER AFFAIRS AND FORESTRY

 SUPPLEMENTARY WATER USE INFORMATION
 TAKING WATER FROM A WATER RESOURCE
 PUMP TECHNICAL DATA

1. PUMP IDENTIFICATION

1.1 Pump number (if more than one, enter a sequence number starting from 001)

002

1.2 Installation date

Y Y Y Y M M D D

1.3 Geographic location of the pump (use one format only)

S 22° 07' 59.4"

or S

or S

Cape datum Clarke

E 029° 38' 24.9"

E 0

E 0

WGS-84 datum

X

2. PUMPING HOURS

2.1 Maximum pumping hours per week

068 h

2.2 Total pumping hours per year

3538 h

3. PUMP DATA

3.1 Pump type (mark one with X)

☐ a) Centrifugal☐ b) Positive displacement☒ c) Turbine☐ d) Axial flow☐ e) Other (specify)

3.2 Pump model

SUPER D T901S-110

3.3 Pulley diameter

mm

3.4 Speed

2900 rpm

3.5 Impeller size (only for a centrifugal pump)

mm

3.6 Suction hose

3.6.1 Hose material

3.6.2 Hose diameter

mm

3.6.3 Hose length

m

3.7 Type of flow meter (mark one with X)

☒ a) Inline☐ b) Bypass☐ c) Doppler effect☐ d) None☐ e) Other (specify below)

3.8 Pressure gauge reading

At inlet = 3 m

At outlet = 4.5 m

4. POWER SOURCE DATA

4.1 Power source type (mark one with X)

- ☒ a) Electric
 ☐ b) Diesel
 ☐ c) Petrol
 ☐ d) Tractor
 ☐ e) Wind
 ☐ f) Other (specify) _____

4.2 Model

FRANKLIN 2 POLE 400VAC 15kW

4.3 Pulley diameter

 mm

4.4 Speed

 2900 rpm

4.5 Coupling:

a) Type (mark one with X)

- ☐ V-belt
 ☐ Flat belt
 ☐ Gearbox
 ☒ Direct
 ☐ Other (specify below) _____

b) For gearbox coupling or direct coupling, enter the ratio

 1 :

4.6 Power rating

 15 kW**5. PUMP OPERATION**

	Maximum pressure	Maximum discharge	Average operation	
5.1 Discharge	<input type="text"/>	<input type="text"/>	<input type="text"/> 15	litres / second
5.2 Suction height	<input type="text"/>	<input type="text"/>	<input type="text"/> 3	metres
5.3 Static height	<input type="text"/>	<input type="text"/>	<input type="text"/> 21	metres
5.4 Working height	<input type="text"/>	<input type="text"/>	<input type="text"/> 0	metres
5.5 Friction height	<input type="text"/>	<input type="text"/>	<input type="text"/> 19	metres
5.6 Other losses	<input type="text"/>	<input type="text"/>	<input type="text"/> 0	metres
5.7 Total head	<input type="text"/>	<input type="text"/>	<input type="text"/> 40	metres
5.8 Efficiency	<input type="text"/>	<input type="text"/>	<input type="text"/> 60	%
5.9 Power absorbed	<input type="text"/>	<input type="text"/>	<input type="text"/> 11.25	kilowatts
5.10 Ammeter reading	<input type="text"/>	<input type="text"/>	<input type="text"/>	amps

6. BOREHOLE INFORMATION (where applicable)

6.1 a) Borehole number

 BH-002

b) Geographic location of the borehole, if different from pump

- ☐ S or ☐ S Cape datum Clarke ☐
☐ E 0 or ☐ E 0 WGS-84 datum ☐

6.2 Yield of borehole

 litres / second

6.3 Depth of borehole

 metres

6.4 Previous authorisation or licensing reference

7. ESKOM TRANSFORMER (where applicable)

7.1 a) ESKOM reference number

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

b) Geographic location of the transformer, if different from pump

S			
E	0		

03

S					
E	0				

0

S			
E	0		

Cape datum Clarke

1

WGS-84 datum

7

7.2 Power rating of the transformer

NAME	
DATE	
TIME	
LOCATION	
REMARKS	

kVA

FOR OFFICIAL USE ONLY

File number

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	52
--	---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	----

Water use licence or registration number

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

Water Management Area

Received by:

Surname

[illegible]

Initials

1	1
2	2
3	3
4	4
5	5

Rank

[illegible]

Signature

[illegible]

Captured by:

Initials

11/11/2019

Date stamp of receiving office



water affairs

Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

Registration / Licensing

Part 2

Section 21(a) of the National Water Act

TAKING WATER FROM A WATER RESOURCE

Mark the applicable option(s) with an X and/or complete details where applicable/available

1. WATER USE DETAILS

1.1 Have you already registered a water use with the Department of Water Affairs and Forestry?

☐ Yes

☒ No

Registration Number:

--	--	--	--	--	--	--	--	--	--

Water Use Number:

--	--	--	--	--

☐ Licence Related WU

RLA Reference

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

NRWU Licence Number

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

RLA Business Unit

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

(NRWU = National Register of Water Use; RLA = Responsible Licensing Authority; WU = Water Use)

1.2 Applicant Type (mark only one block with X)

☐ Individual (complete 1.3)

☒ Company, business, partnership or community (complete 1.4)

☐ National Department (complete 1.5)

☐ Provincial Department (complete 1.6)

☐ Water Services Provider (complete 1.7)

☐ Water User Association (complete 1.8)

1.3 If the applicant is an individual

1.3.1 Title Surname Initials

1.3.2 South African ID (if holder of South African ID) alternatively Passport Number:

ID Number or Passport Number

Passport Expiry Date (ccyyymmdd)

Passport Country Of Issue

For office use only

Allocated Reg. No.

WU No.

1.4 If the applicant is a company, business, partnership or community:

1.4.1 Name of company, business, partnership or community:

LIMPOPO COAL COMPANY (PTY) LTD

1.4.2 Business Enterprise Registration Number

006072107

1.4.3 Date Established (ccyymmdd)

20050224

Country Where Established

RSA

1.5 If the applicant is a National Department:

1.5.1 National Department Name:

1.6 If the applicant is a Provincial Department:

1.6.1 Province:

1.6.2 Provincial Department Name:

1.7 If the applicant is a Water Services Provider:


1.7.1 Name of WSP:

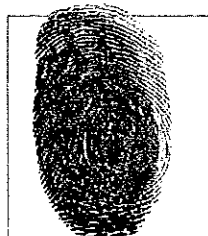
1.8 If the applicant is a Water User Association:

1.8.1 Name of WUA:

Declaration by applicant

Delete the words that are not applicable I/we BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.


 Signature
Company Representative
 Designation of signatory



Thumb print

(011) 785 4518
 Contact number during office hours
2009/11/05
 Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

2. SUCCESSION/TRANSFER AND SOURCE PART 2 DETAILS

- 2.1 Is this a Succession or a Transfer related Water Use? ☒ Yes
(Mark only one box with an X) ☐ No
- 2.2 If yes, mark with an X the Succession / Transfer Type ☐ Full Temporary Transfer ☐ Partial Temporary Transfer
☐ Permanent Transfer ☒ Succession in Title
- 2.3 Source Register Number

2	7	0	1	9	5	5	6
---	---	---	---	---	---	---	---

 WU Number

--	--	--	--

Source Register Number

2	7	0	0	6	7	0	2
---	---	---	---	---	---	---	---

 WU Number

--	--	--	--

Source Register Number

2	7	0	0	6	7	1	1
---	---	---	---	---	---	---	---

 WU Number

--	--	--	--

3. WATER RESOURCE INFORMATION

- 3.1 Name of water resource

LIMPOPO ALLUVIAL AQUIFER

- 3.2 Name or reference number of abstraction point (if any)

BH - 003

- 3.3 Type of water source (mark only one with X) ☐ River / stream ☐ Spring / Eye ☒ Borehole ☐ Dam ☐ Estuary
☐ Wetland ☐ Lake ☐ GWS (scheme) ☐ Boreholes And Windmills On Government Land
- If water source is government water scheme, give the name:

--
- 3.4 Geographic location of the abstraction point
- Latitude S

2	2
---	---

 °

0	7
---	---

 '

5	9
---	---

 .

8

 " or S

--	--

 ° or S

--	--

 °
- Longitude E

2	9
---	---

 °

3	8
---	---

 '

2	0
---	---

 .

8

 " or E

--	--

 ° or E

--	--

 °
- Datum Type: ☐ Cape (Modified Clarke 1880) ☒ WGS-84
- 3.5 Reliability of water resource (mark only one with an X) ☒ Water always available ☐ Dry during certain seasons ☐ Frequently Dry
- 3.6 Quaternary Drainage Region

A	7	1	L
---	---	---	---

4. DESCRIPTION OF WATER USE

- 4.1 Select only one WU sector – purpose of the WU: (NB: Complete a separate DW760/773 form for each sector if more than one is applicable)
- | | |
|---|--|
| <input type="checkbox"/> Agriculture: Aquaculture | <input type="checkbox"/> Power Generation (also complete DW788) |
| <input type="checkbox"/> Agriculture: Irrigation (also complete form DW787) | <input type="checkbox"/> Recreation |
| <input type="checkbox"/> Agriculture: Watering Livestock | <input type="checkbox"/> Schedule 1 |
| <input type="checkbox"/> Industrial (also complete form DW788) | <input type="checkbox"/> Urban (excl. Domestic &/or Industrial) |
| <input checked="" type="checkbox"/> Mining (also complete form DW788) | <input type="checkbox"/> Water Supply Service (also complete form DW789) |

4.2 Period of water use
Date of first use or proposed first use (ccyymmdd) End date (if applicable) (ccyymmdd)

4.3 Volume of water abstracted (*minus a realistic estimate of the transmission losses in the case of a WUA / WSP related water use)
*WU /WSP: Transmission Loss (taken into account i.r.o gross volume)

	Start date (ccyymmdd)	Volume	Time interval (mark only one with X)	
a)	<input type="text" value="20100101"/>	<input type="text" value="840"/>	<input checked="" type="checkbox"/> Daily <input type="checkbox"/> Monthly <input type="checkbox"/> Annually	<input type="text"/>
b)	<input type="text"/>	<input type="text"/>	<input type="checkbox"/> Daily <input type="checkbox"/> Monthly <input type="checkbox"/> Annually	<input type="text"/>
c)	<input type="text"/>	<input type="text"/>	<input type="checkbox"/> Daily <input type="checkbox"/> Monthly <input type="checkbox"/> Annually	<input type="text"/>

4.4 Estimated water abstraction pattern: in total cubic meters ☒ or % per month ☐

Jan	<input type="text" value="25,500"/>	Apr	<input type="text" value="25,500"/>	Jul	<input type="text" value="25,500"/>	Oct	<input type="text" value="25,500"/>
Feb	<input type="text" value="25,500"/>	May	<input type="text" value="25,500"/>	Aug	<input type="text" value="25,500"/>	Nov	<input type="text" value="25,500"/>
Mar	<input type="text" value="25,500"/>	Jun	<input type="text" value="25,500"/>	Sep	<input type="text" value="25,500"/>	Dec	<input type="text" value="25,500"/>

4.5 Method of abstraction (mark with an X the abstraction method currently used or to be installed)
☒ Pump * ☐ Canal ☐ Gravity or outlet pipe ☐ Other (specify) **
 * Also complete supplementary form DW784pmp ('Taking water from a water resource -- pump technical data'), if 'pump' was selected.
 ** If the method of abstraction is not PUMP / CANAL / GRAVITY OR OUTLET PIPE, please define method utilised:

4.6 Number of households served with water (if known)

4.7 Is this water provided by a Water User Association or Water Services Provider? ☐ WUA ☐ WSP

4.8 Name of Water User Association / Water Services Provider:

5. EXISTING AUTHORISATION AND REGISTRATION (PERMIT INFORMATION)

5.1 Existing permit information

Permit No.	Permit number	Date (ccyymmdd)
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>
Permit No.	<input type="text"/>	<input type="text"/>

5.2 If water use takes place in terms of the General Authorisation, mark with an X ☐

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

<u>Date(s) from which applicable GA is/was applicable to this water use</u>			
South African Act:		Applicable section of the act	
[E.g. National Water Act (Act No. 36 of 1998)]		[E.g. Section 21]	
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			

5.3 If an authorisation has been issued under other legislation

Law /Regulation

6. SUBSIDY DETAILS

6.1 Resource Poor Farmer (RPF)

Should this WU application be considered for RPF subsidy?

☐ Yes ☒ No

7. PROPERTY RELATIONSHIP DETAILS (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property	Property Relationship Date	
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property		From:	To:
Overlake		T44946/2009	MS		Surname of the Leader of Village, Community or Tribal Authority		
			125		Initial of the Leader of Village, Community or Tribal Authority		
			3+4		Local Authority (if applicable)		
					Magisterial District (if applicable)		
Overlake		T22619/2009	MS		Surname of the Leader of Village, Community or Tribal Authority		
			125		Initial of the Leader of Village, Community or Tribal Authority		
			5		Local Authority (if applicable)		
					Magisterial District (if applicable)		
					Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority		
					Initial of the Leader of Village, Community or Tribal Authority		
					Local Authority (if applicable)		
					Magisterial District (if applicable)		
					Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority		
					Initial of the Leader of Village, Community or Tribal Authority		
					Local Authority (if applicable)		
					Magisterial District (if applicable)		
					Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority		
					Initial of the Leader of Village, Community or Tribal Authority		
					Local Authority (if applicable)		
					Magisterial District (if applicable)		
					Tribal Authority/Council (if applicable)		

8.6 Late Registration Penalty

Is this a late registration?

☐ Yes☐ No

If yes, mark with an X, the applicable penalty to be levied

☐ R300.00 OR☐ 10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable

☐ Waive penalty

File number

Water Use Register Number

Received by:

Surname

Initials

Position / Rank

Signature

Captured on NRWU database
(ccyymmdd)

Captured by:

Surname

Initials

Signature

Date stamp of receiving office



DEPARTMENT OF WATER AFFAIRS AND FORESTRY

SUPPLEMENTARY WATER USE INFORMATION

TAKING WATER FROM A WATER RESOURCE

PUMP TECHNICAL DATA

1. PUMP IDENTIFICATION																			
1.1 Pump number (if more than one, enter a sequence number starting from 001)			003																
1.2 Installation date			<table border="1" style="display: inline-table; text-align: center;"> <tr> <td>Y</td><td>Y</td><td>Y</td><td>Y</td><td>M</td><td>M</td><td>D</td><td>D</td> </tr> </table>	Y	Y	Y	Y	M	M	D	D								
Y	Y	Y	Y	M	M	D	D												
1.3 Geographic location of the pump (use one format only)																			
<table border="1" style="display: inline-table; text-align: center;"> <tr> <td>S</td><td>22</td><td>07</td><td>59.8</td> </tr> <tr> <td>E 0</td><td>29</td><td>38</td><td>20.8</td> </tr> </table>		S	22	07	59.8	E 0	29	38	20.8	or <table border="1" style="display: inline-table; text-align: center;"> <tr> <td>S</td><td></td><td></td><td></td> </tr> <tr> <td>E 0</td><td></td><td></td><td></td> </tr> </table>		S				E 0			
S	22	07	59.8																
E 0	29	38	20.8																
S																			
E 0																			
		or <table border="1" style="display: inline-table; text-align: center;"> <tr> <td>S</td><td></td><td></td><td></td> </tr> <tr> <td>E 0</td><td></td><td></td><td></td> </tr> </table>		S				E 0											
S																			
E 0																			
			Cape datum Clarke <input type="checkbox"/> WGS-84 datum <input checked="" type="checkbox"/>																
2. PUMPING HOURS																			
2.1 Maximum pumping hours per week		068 h																	
2.2 Total pumping hours per year		3538 h																	
3. PUMP DATA																			
3.1 Pump type (mark one with X)																			
<input type="checkbox"/> a) Centrifugal <input type="checkbox"/> b) Positive displacement <input checked="" type="checkbox"/> c) Turbine <input type="checkbox"/> d) Axial flow <input type="checkbox"/> e) Other (specify) _____																			
3.2 Pump model SUPER D T90/S-110																			
3.3 Pulley diameter			mm																
3.4 Speed			2900 rpm																
3.5 Impeller size (only for a centrifugal pump)			mm																
3.6 Suction hose																			
3.6.1 Hose material _____																			
3.6.2 Hose diameter			mm																
3.6.3 Hose length			m																
3.7 Type of flow meter (mark one with X)																			
<input checked="" type="checkbox"/> a) Inline <input type="checkbox"/> b) Bypass <input type="checkbox"/> c) Doppler effect <input type="checkbox"/> d) None <input type="checkbox"/> e) Other (specify below) _____																			
3.8 Pressure gauge reading																			
At inlet =		3 m																	
At outlet =		4.5 m																	

4. POWER SOURCE DATA

4.1 Power source type (mark one with X)

- ☒ a) Electric
 ☐ b) Diesel
 ☐ c) Petrol
 ☐ d) Tractor
 ☐ e) Wind
 ☐ f) Other (specify) _____

4.2 Model

FRANKLIN 2POLE 400VAC 15kW

4.3 Pulley diameter

mm

4.4 Speed

2900 rpm

4.5 Coupling:

a) Type (mark one with X)

- ☐ V-belt
 ☐ Flat belt
 ☐ Gearbox
 ☒ Direct
 ☐ Other (specify below) _____

b) For gearbox coupling or direct coupling, enter the ratio

1 : 1

4.6 Power rating

15 kW

5. PUMP OPERATION

	Maximum pressure	Maximum discharge	Average operation	
5.1 Discharge			15	litres / second
5.2 Suction height			3	metres
5.3 Static height			2.1	metres
5.4 Working height			0	metres
5.5 Friction height			1.9	metres
5.6 Other losses			0	metres
5.7 Total head			4.0	metres
5.8 Efficiency			60	%
5.9 Power absorbed			11.25	kilowatts
5.10 Ammeter reading				amps

6. BOREHOLE INFORMATION (where applicable)

6.1 a) Borehole number

BH-003

b) Geographic location of the borehole, if different from pump

☐ S ☐ ☐ ☐ ☐ ☐ or ☐ S ☐ ☐ ☐ ☐ ☐ or ☐ S ☐ ☐ ☐ ☐ ☐ Cape datum Clarke ☐
☐ E 0 ☐ ☐ ☐ ☐ ☐ or ☐ E 0 ☐ ☐ ☐ ☐ ☐ WGS-84 datum ☐

6.2 Yield of borehole

litres / second

6.3 Depth of borehole

metres

6.4 Previous authorisation or licensing reference

7. ESKOM TRANSFORMER (where applicable)

7.1 a) ESKOM reference number

Category	Sub-category	Value
Total	Mean	1.00
	Standard deviation	0.00
Frequency	Mean	1.00
	Standard deviation	0.00
Percentage	Mean	1.00
	Standard deviation	0.00

b) Geographic location of the transformer, if different from pump

S or S or S Cape datum Clarke
 E 0 or E 0 or E 0 WGS-84 datum

7.2 Power rating of the transformer

Time (min)	Temperature (°C)	Pressure (atm)	Flow Rate (L/min)	Sample Weight (g)
0	100	1.0	1.0	1.0
10	100	1.0	1.0	1.0
20	100	1.0	1.0	1.0
30	100	1.0	1.0	1.0
40	100	1.0	1.0	1.0
50	100	1.0	1.0	1.0
60	100	1.0	1.0	1.0
70	100	1.0	1.0	1.0
80	100	1.0	1.0	1.0
90	100	1.0	1.0	1.0
100	100	1.0	1.0	1.0
110	100	1.0	1.0	1.0
120	100	1.0	1.0	1.0
130	100	1.0	1.0	1.0
140	100	1.0	1.0	1.0
150	100	1.0	1.0	1.0
160	100	1.0	1.0	1.0
170	100	1.0	1.0	1.0
180	100	1.0	1.0	1.0
190	100	1.0	1.0	1.0
200	100	1.0	1.0	1.0
210	100	1.0	1.0	1.0
220	100	1.0	1.0	1.0
230	100	1.0	1.0	1.0
240	100	1.0	1.0	1.0
250	100	1.0	1.0	1.0
260	100	1.0	1.0	1.0
270	100	1.0	1.0	1.0
280	100	1.0	1.0	1.0
290	100	1.0	1.0	1.0
300	100	1.0	1.0	1.0
310	100	1.0	1.0	1.0
320	100	1.0	1.0	1.0
330	100	1.0	1.0	1.0
340	100	1.0	1.0	1.0
350	100	1.0	1.0	1.0
360	100	1.0	1.0	1.0
370	100	1.0	1.0	1.0
380	100	1.0	1.0	1.0
390	100	1.0	1.0	1.0
400	100	1.0	1.0	1.0
410	100	1.0	1.0	1.0
420	100	1.0	1.0	1.0
430	100	1.0	1.0	1.0
440	100	1.0	1.0	1.0
450	100	1.0	1.0	1.0
460	100	1.0	1.0	1.0
470	100	1.0	1.0	1.0
480	100	1.0	1.0	1.0
490	100	1.0	1.0	1.0
500	100	1.0	1.0	1.0
510	100	1.0	1.0	1.0
520	100	1.0	1.0	1.0
530	100	1.0	1.0	1.0
540	100	1.0	1.0	1.0
550	100	1.0	1.0	1.0
560	100	1.0	1.0	1.0
570	100	1.0	1.0	1.0
580	100	1.0	1.0	1.0
590	100	1.0	1.0	1.0
600	100	1.0	1.0	1.0
610	100	1.0	1.0	1.0
620	100	1.0	1.0	1.0
630	100	1.0	1.0	1.0
640	100	1.0	1.0	1.0
650	100	1.0	1.0	1.0
660	100	1.0	1.0	1.0
670	100	1.0	1.0	1.0
680	100	1.0	1.0	1.0
690	100	1.0	1.0	1.0
700	100	1.0	1.0	1.0
710	100	1.0	1.0	1.0
720	100	1.0	1.0	1.0
730	100	1.0	1.0	1.0
740	100	1.0	1.0	1.0
750	100	1.0	1.0	1.0
760	100	1.0	1.0	1.0
770	100	1.0		

kVA

FOR OFFICIAL USE ONLY

File number

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	52
--	---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	----

Water use licence or registration number

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	52
--	---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	----

Water Management Area

Received by:

Surname

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Initials

1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	16
17	18
19	20
21	22
23	24
25	26
27	28
29	30
31	32
33	34
35	36
37	38
39	40
41	42
43	44
45	46
47	48
49	50
51	52
53	54
55	56
57	58
59	60
61	62
63	64
65	66
67	68
69	70
71	72
73	74
75	76
77	78
79	80
81	82
83	84
85	86
87	88
89	90
91	92
93	94
95	96
97	98
99	100

Rank

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Signature

[illegible]

Captured by:

Initials

Date stamp of receiving office



water affairs

Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

Registration / Licensing

Part 2

Section 21(a) of the National Water Act

TAKING WATER FROM A WATER RESOURCE

Mark the applicable option(s) with an X and/or complete details where applicable/available

1. WATER USE DETAILS

1.1 Have you already registered a water use with the Department of Water Affairs and Forestry?

☐ Yes ☒ No

Registration Number:

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Water Use Number:

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

☐ Licence Related WU

RLA Reference

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

NRWU Licence Number

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

RLA Business Unit

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

(NRWU = National Register of Water Use; RLA = Responsible Licensing Authority; WU = Water Use)

1.2 Applicant Type (mark only one block with X)

- | | |
|--|---|
| <input type="checkbox"/> Individual (complete 1.3) | <input type="checkbox"/> Provincial Department (complete 1.6) |
| <input checked="" type="checkbox"/> Company, business, partnership or community (complete 1.4) | <input type="checkbox"/> Water Services Provider (complete 1.7) |
| <input type="checkbox"/> National Department (complete 1.5) | <input type="checkbox"/> Water User Association (complete 1.8) |

1.3 If the applicant is an individual

1.3.1 Title Surname Initials

1.3.2 South African ID (If holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

Passport Expiry Date (ccyymmdd)

Passport Country Of Issue

For office use only

Allocated Reg. No.

WU No.

1.4 If the applicant is a company, business, partnership or community:

1.4.1 Name of company, business, partnership or community:

LIMPOPO COAL COMPANY (PTY) LTD

1.4.2 Business Enterprise Registration Number

006072107

1.4.3 Date Established (ccyymmdd)

20050224

Country Where Established

RSA

1.5 If the applicant is a National Department:

1.5.1 National Department Name:

1.6 If the applicant is a Provincial Department:

1.6.1 Province:

1.6.2 Provincial Department Name:

1.7 If the applicant is a Water Services Provider:

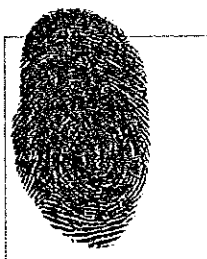
1.7.1 Name of WSP:

1.8 If the applicant is a Water User Association:

1.8.1 Name of WUA:

Declaration by applicant

Delete the words that are not applicable I/we BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Signature

Company Representative

Designation of signatory

Thumb print

(011) 785 4518

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

- 2.1 Is this a Succession or a Transfer related Water Use? ☒ Yes
(Mark only one box with an X) ☐ No

2.2 If yes, mark with an X the Succession / Transfer Type ☐ Full Temporary Transfer ☐ Partial Temporary Transfer
☐ Permanent Transfer ☒ Succession in Title

2.3 Source Register Number

2	7	0	1	9	5	5	6
---	---	---	---	---	---	---	---

 WU Number

--	--	--	--

Source Register Number

2	7	0	0	6	7	0	2
---	---	---	---	---	---	---	---

 WU Number

--	--	--	--

Source Register Number

2	7	0	0	6	7	1	1
---	---	---	---	---	---	---	---

 WU Number

--	--	--	--

3. WATER RESOURCE INFORMATION

- 3.1 Name of water resource
LIMPOPO ALLUVIAL AQUIFER
- 3.2 Name or reference number of abstraction point (if any)
BH-004
- 3.3 Type of water source
(mark only one with X)
- ☐ River / stream ☐ Spring / Eye ☒ Borehole ☐ Dam ☐ Estuary
- ☐ Wetland ☐ Lake ☐ GWS (scheme) ☐ Boreholes And Windmills On Government Land
- If water source is government water scheme, give the name:

- 3.4 Geographic location of the abstraction point
- Latitude S 22 ° 08 ' 00 . 5 " or S ° or S °
- Longitude E 29 ° 38 ' 19 . 2 " or E ° or E °
- Datum Type: ☐ Cape (Modified Clarke 1880) ☒ WGS-84
- 3.5 Reliability of water resource (mark only one with an X)
- ☒ Water always available ☐ Dry during certain seasons ☐ Frequently Dry
- 3.6 Quaternary Drainage Region
A711

4. DESCRIPTION OF WATER USE

- 4.1** Select only **one** WU sector – purpose of the WU: (NB: Complete a separate DW760/773 form for each sector if more than one is applicable)
- | | |
|---|--|
| <input type="checkbox"/> Agriculture: Aquaculture | <input type="checkbox"/> Power Generation (also complete DW788) |
| <input type="checkbox"/> Agriculture: Irrigation (also complete form DW787) | <input type="checkbox"/> Recreation |
| <input type="checkbox"/> Agriculture: Watering Livestock | <input type="checkbox"/> Schedule 1 |
| <input type="checkbox"/> Industrial (also complete form DW788) | <input type="checkbox"/> Urban (excl. Domestic &/or Industrial) |
| <input checked="" type="checkbox"/> Mining (also complete form DW788) | <input type="checkbox"/> Water Supply Service (also complete form DW789) |

4.2 Period of water use

Date of first use or proposed first use
(ccyymmdd)

20100101

End date (if applicable)
(ccyymmdd)

4.3 Volume of water abstracted (*minus a realistic estimate of the transmission losses in the case of a WUA / WSP related water use)

*WU /WSP: Transmission Loss

(taken into account i.r.o gross volume)

	Start date (ccyymmdd)	Volume		Time interval (mark only one with X)				
a)	20100101	840	m ³	<input checked="" type="checkbox"/> Daily	<input type="checkbox"/> Monthly	<input type="checkbox"/> Annually		%
b)			m ³	<input type="checkbox"/> Daily	<input type="checkbox"/> Monthly	<input type="checkbox"/> Annually		%
c)			m ³	<input type="checkbox"/> Daily	<input type="checkbox"/> Monthly	<input type="checkbox"/> Annually		%

4.4 Estimated water abstraction pattern:

in total cubic meters

☒ or

% per month

☐

Jan	25,500	Apr	25,500	Jul	25,500	Oct	25,500
Feb	25,500	May	25,500	Aug	25,500	Nov	25,500
Mar	25,500	Jun	25,500	Sep	25,500	Dec	25,500

4.5 Method of abstraction (mark with an X the abstraction method currently used or to be installed)

☒ Pump *☐ Canal☐ Gravity or outlet pipe☐ Other (specify) **

* Also complete supplementary form DW784pmp ('Taking water from a water resource – pump technical data'), if 'pump' was selected.

** If the method of abstraction is not PUMP / CANAL / GRAVITY OR OUTLET PIPE, please define method utilised:

4.6 Number of households served with water (if known)

4.7 Is this water provided by a Water User Association or Water Services Provider?

☐ WUA☐

WSP

4.8 Name of Water User Association / Water Services Provider:

5. EXISTING AUTHORISATION AND REGISTRATION (PERMIT INFORMATION)

5.1 Existing permit information

Permit number

Date (ccyymmdd)

Permit No.	
Permit No.	
Permit No.	
Permit No.	
Permit No.	
Permit No.	

5.2 If water use takes place in terms of the General Authorisation, mark with an X

☐

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

<u>Date(s) from which applicable GA is/was applicable to this water use</u>	
South African Act:	Applicable section of the act
[E.g. National Water Act (Act No. 36 of 1998)]	[E.g. Section 21]
Date From (ccyymmdd) <input type="text"/>	Government Notice No. <input type="text"/>
Date To (ccyymmdd) <input type="text"/>	Government Notice Date (ccyymmdd) <input type="text"/>
Applicable Section Of The General Authorisation	
Date From (ccyymmdd) <input type="text"/>	Government Notice No. <input type="text"/>
Date To (ccyymmdd) <input type="text"/>	Government Notice Date (ccyymmdd) <input type="text"/>
Applicable Section Of The General Authorisation	
Date From (ccyymmdd) <input type="text"/>	Government Notice No. <input type="text"/>
Date To (ccyymmdd) <input type="text"/>	Government Notice Date (ccyymmdd) <input type="text"/>
Applicable Section Of The General Authorisation	

- 5.3 If an authorisation has been issued under other legislation
Law /Regulation

6. SUBSIDY DETAILS

- 6.1 Resource Poor Farmer (RPF)
Should this WU application be considered for RPF subsidy? ☐ Yes ☒ No

7. PROPERTY RELATIONSHIP DETAILS (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property	Property Relationship Date	
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property		From:	To:
Overlakte	T44946/2009	MS	125	3+4	Surname of the Leader of Village, Community or Tribal Authority		
					Initial of the Leader of Village, Community or Tribal Authority		
					Local Authority (if applicable)		
					Magisterial District (if applicable)		
Overlakte	T22619/2009	MS	125	S	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority		
					Initial of the Leader of Village, Community or Tribal Authority		
					Local Authority (if applicable)		
					Magisterial District (if applicable)		
					Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority		
					Initial of the Leader of Village, Community or Tribal Authority		
					Local Authority (if applicable)		
					Magisterial District (if applicable)		
					Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority		
					Initial of the Leader of Village, Community or Tribal Authority		
					Local Authority (if applicable)		
					Magisterial District (if applicable)		
					Tribal Authority/Council (if applicable)		

8.6 Late Registration Penalty

Is this a late registration?

☐ Yes☐ No

If yes, mark with an X, the applicable penalty to be levied

☐ R300.00 OR☐ 10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable

☐ Waive penalty

File number

Water Use Register Number

Received by:

Surname

Initials

Position / Rank

Signature

Captured on NRWU database
(ccyymmdd)

Captured by:

Surname

Initials

Signature

Date stamp of receiving office



DEPARTMENT OF WATER AFFAIRS AND FORESTRY

SUPPLEMENTARY WATER USE INFORMATION
TAKING WATER FROM A WATER RESOURCE
PUMP TECHNICAL DATA

1. PUMP IDENTIFICATION

1.1 Pump number (if more than one, enter a sequence number starting from 001)

004

1.2 Installation date

Y Y Y Y M M D D

1.3 Geographic location of the pump (use one format only)

S 22° 08' 00.5" or S

E 029° 38' 19.2" or E 0

S or S

Cape datum Clarke

WGS-84 datum

**2. PUMPING HOURS**

2.1 Maximum pumping hours per week

068 h

2.2 Total pumping hours per year

3538 h

3. PUMP DATA

3.1 Pump type (mark one with X)



a) Centrifugal



b) Positive displacement



c) Turbine



d) Axial flow



e) Other (specify)

3.2 Pump model

SUPER D T90/S-110

3.3 Pulley diameter

mm

3.4 Speed

2900 rpm

3.5 Impeller size (only for a centrifugal pump)

mm

3.6 Suction hose

3.6.1 Hose material

3.6.2 Hose diameter

mm

3.6.3 Hose length

m

3.7 Type of flow meter (mark one with X)



a) Inline



b) Bypass



c) Doppler effect



d) None



e) Other (specify below)

3.8 Pressure gauge reading

At inlet = 3 m

At outlet = 4.5 m

4. POWER SOURCE DATA

4.1 Power source type (mark one with X)

- ☒ a) Electric
 ☐ b) Diesel
 ☐ c) Petrol
 ☐ d) Tractor
 ☐ e) Wind
 ☐ f) Other (specify) _____

4.2 Model

FRANKLIN 2POLE 400VAC 15LW

4.3 Pulley diameter

 mm

4.4 Speed

 rpm

4.5 Coupling:

a) Type (mark one with X)

- ☐ V-belt
 ☐ Flat belt
 ☐ Gearbox
 ☒ Direct
 ☐ Other (specify below) _____

b) For gearbox coupling or direct coupling, enter the ratio

 :

4.6 Power rating

 kW**5. PUMP OPERATION**

	Maximum pressure	Maximum discharge	Average operation	
5.1 Discharge	<input type="text"/>	<input type="text"/>	<input type="text"/>	litres / second
5.2 Suction height	<input type="text"/>	<input type="text"/>	<input type="text"/>	metres
5.3 Static height	<input type="text"/>	<input type="text"/>	<input type="text"/>	metres
5.4 Working height	<input type="text"/>	<input type="text"/>	<input type="text"/>	metres
5.5 Friction height	<input type="text"/>	<input type="text"/>	<input type="text"/>	metres
5.6 Other losses	<input type="text"/>	<input type="text"/>	<input type="text"/>	metres
5.7 Total head	<input type="text"/>	<input type="text"/>	<input type="text"/>	metres
5.8 Efficiency	<input type="text"/>	<input type="text"/>	<input type="text"/>	%
5.9 Power absorbed	<input type="text"/>	<input type="text"/>	<input type="text"/>	kilowatts
5.10 Ammeter reading	<input type="text"/>	<input type="text"/>	<input type="text"/>	amps

6. BOREHOLE INFORMATION (where applicable)

6.1 a) Borehole number

b) Geographic location of the borehole, if different from pump

☐ S or ☐ S Cape datum Clarke ☐
☐ E 0 ☐ E 0 WGS-84 datum ☐

6.2 Yield of borehole

 litres / second

6.3 Depth of borehole

 metres

6.4 Previous authorisation or licensing reference

7. ESKOM TRANSFORMER (where applicable)

7.1 a) ESKOM reference number

Category	Value
Category 1	Value 1
Category 2	Value 2
Category 3	Value 3
Category 4	Value 4
Category 5	Value 5
Category 6	Value 6
Category 7	Value 7
Category 8	Value 8
Category 9	Value 9
Category 10	Value 10
Category 11	Value 11
Category 12	Value 12
Category 13	Value 13
Category 14	Value 14
Category 15	Value 15
Category 16	Value 16
Category 17	Value 17
Category 18	Value 18
Category 19	Value 19
Category 20	Value 20
Category 21	Value 21
Category 22	Value 22
Category 23	Value 23
Category 24	Value 24
Category 25	Value 25
Category 26	Value 26
Category 27	Value 27
Category 28	Value 28
Category 29	Value 29
Category 30	Value 30
Category 31	Value 31
Category 32	Value 32
Category 33	Value 33
Category 34	Value 34
Category 35	Value 35
Category 36	Value 36
Category 37	Value 37
Category 38	Value 38
Category 39	Value 39
Category 40	Value 40
Category 41	Value 41
Category 42	Value 42
Category 43	Value 43
Category 44	Value 44
Category 45	Value 45
Category 46	Value 46
Category 47	Value 47
Category 48	Value 48
Category 49	Value 49
Category 50	Value 50
Category 51	Value 51
Category 52	Value 52
Category 53	Value 53
Category 54	Value 54
Category 55	Value 55
Category 56	Value 56
Category 57	Value 57
Category 58	Value 58
Category 59	Value 59
Category 60	Value 60
Category 61	Value 61
Category 62	Value 62
Category 63	Value 63
Category 64	Value 64
Category 65	Value 65
Category 66	Value 66
Category 67	Value 67
Category 68	Value 68
Category 69	Value 69
Category 70	Value 70
Category 71	Value 71
Category 72	Value 72
Category 73	Value 73
Category 74	Value 74
Category 75	Value 75
Category 76	Value 76
Category 77	Value 77
Category 78	Value 78
Category 79	Value 79
Category 80	Value 80
Category 81	Value 81
Category 82	Value 82
Category 83	Value 83
Category 84	Value 84
Category 85	Value 85
Category 86	Value 86
Category 87	Value 87
Category 88	Value 88
Category 89	Value 89
Category 90	Value 90
Category 91	Value 91
Category 92	Value 92
Category 93	Value 93
Category 94	Value 94
Category 95	Value 95
Category 96	Value 96
Category 97	Value 97
Category 98	Value 98
Category 99	Value 99
Category 100	Value 100

b) Geographic location of the transformer, if different from pump

S			
E	0		

Q1.

S						
E 0						

or

Cape datum Clarke

7

WGS-84 datum

7.2 Power rating of the transformer

[illegible]

kVA

FOR OFFICIAL USE ONLY

File number

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	52
--	---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	----

Water use licence or registration number

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	52
--	---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	----

Water Management Area

Received by:

Surname

[illegible]

Initials

Concentration of Inhibitor (M)	Rate of Polymerization (M/min)
0	0.001
0.0001	0.0005
0.0002	0.0001
0.0005	0.0001
0.001	0.0001

Rank

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Signature

--	--

Captured by:

Initials

© 2006 Blackwell Publishing Ltd

Date stamp of receiving office



water affairs

Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

Registration / Licensing

Part 2

Section 21(a) of the National Water Act

TAKING WATER FROM A WATER RESOURCE

Mark the applicable option(s) with an X and/or complete details where applicable/available

1. WATER USE DETAILS

1.1 Have you already registered a water use with the Department of Water Affairs and Forestry?

☐ Yes ☒ No

Registration Number:

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Water Use Number:

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

☐ Licence Related WU

RLA Reference

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

NRWU Licence Number

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

RLA Business Unit

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

(NRWU = National Register of Water Use; RLA = Responsible Licensing Authority; WU = Water Use)

1.2 Applicant Type (mark only one block with X)

- ☐ Individual (complete 1.3) ☐ Provincial Department (complete 1.6)
☒ Company, business, partnership or community (complete 1.4) ☐ Water Services Provider (complete 1.7)
☐ National Department (complete 1.5) ☐ Water User Association (complete 1.8)

1.3 If the applicant is an individual

1.3.1 Title Surname Initials

1.3.2 South African ID (if holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

Passport Expiry Date (ccymmdd)

Passport Country Of Issue

For office use only

Allocated Reg. No.

WU No.

1.4 If the applicant is a company, business, partnership or community:

1.4.1 Name of company, business, partnership or community:

LIMPOPO COAL COMPANY (PTY) LTD

1.4.2 Business Enterprise Registration Number

006072107

1.4.3 Date Established (ccyymmdd)

20050224

Country Where Established

RSA

1.5 If the applicant is a National Department:

1.5.1 National Department Name:

1.6 If the applicant is a Provincial Department:

1.6.1 Province:

1.6.2 Provincial Department Name:

1.7 If the applicant is a Water Services Provider:

1.7.1 Name of WSP:

1.8 If the applicant is a Water User Association:

1.8.1 Name of WUA:

Declaration by applicant

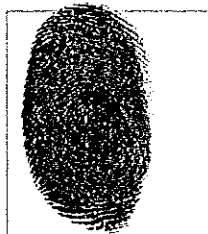
Delete the words that are not applicable I/we BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Signature

Company Representative

Designation of signatory



Thumb print

(011) 785 4518

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

2.1 Is this a Succession or a Transfer related Water Use? ☒ Yes
(Mark only one box with an X) ☐ No

2.2 If yes, mark with an X the Succession / Transfer Type ☐ Full Temporary Transfer ☐ Partial Temporary Transfer
☐ Permanent Transfer ☒ Succession in Title

2.3 Source Register Number

2	7	0	1	9	5	5	6
---	---	---	---	---	---	---	---

 WU Number

--	--	--	--

Source Register Number

2	7	0	0	6	7	0	2
---	---	---	---	---	---	---	---

 WU Number

--	--	--	--

Source Register Number

2	7	0	0	6	7	1	1
---	---	---	---	---	---	---	---

 WU Number

--	--	--	--

3. WATER RESOURCE INFORMATION

3.1 Name of water resource LIMPOPO ALLUVIAL AQUIFER

3.2 Name or reference number of abstraction point (if any) BH-005

3.3 Type of water source
(mark only one with X)

☐ River / stream ☐ Spring / Eye ☒ Borehole ☐ Dam ☐ Estuary

☐ Wetland ☐ Lake ☐ GWS (scheme) ☐ Boreholes And Windmills On Government Land

If water source is government water scheme, give the name:

3.4 Geographic location of the abstraction point

Latitude S 22° 07' 58.3" or S . . . ° or S . . . °

Longitude E 29° 38' 27.5" or E . . . ° or E . . . °

Datum Type: ☐ Cape (Modified Clarke 1880) ☒ WGS-84

3.5 Reliability of water resource (mark only one with an X)

☒ Water always available ☐ Dry during certain seasons ☐ Frequently Dry

3.6 Quaternary Drainage Region A71L

4. DESCRIPTION OF WATER USE

4.1 Select only **one** WU sector – purpose of the WU: (NB: Complete a separate DW760/773 form for each sector if more than one is applicable)

<input type="checkbox"/> Agriculture: Aquaculture	<input type="checkbox"/> Power Generation (also complete DW788)
<input type="checkbox"/> Agriculture: Irrigation (also complete form DW787)	<input type="checkbox"/> Recreation
<input type="checkbox"/> Agriculture: Watering Livestock	<input type="checkbox"/> Schedule 1
<input type="checkbox"/> Industrial (also complete form DW788)	<input type="checkbox"/> Urban (excl. Domestic &/or Industrial)
<input checked="" type="checkbox"/> Mining (also complete form DW788)	<input type="checkbox"/> Water Supply Service (also complete form DW789)

4.2 Period of water use

Date of first use or proposed first use
(ccyymmdd)

20100101

End date (if applicable)
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

4.3 Volume of water abstracted (*minus a realistic estimate of the transmission losses in the case of a WUA / WSP related water use)

*WU /WSP: Transmission Loss

(taken into account i.r.o gross volume)

	Start date (ccyymmdd)	Volume		Time interval (mark only one with X)					
a)	20100101	840	m ³	<input checked="" type="checkbox"/> Daily	<input type="checkbox"/> Monthly	<input type="checkbox"/> Annually			%
b)			m ³	<input type="checkbox"/> Daily	<input type="checkbox"/> Monthly	<input type="checkbox"/> Annually			%
c)			m ³	<input type="checkbox"/> Daily	<input type="checkbox"/> Monthly	<input type="checkbox"/> Annually			%

4.4 Estimated water abstraction pattern:

in total cubic meters ☒ or % per month ☐

Jan	25,500	Apr	25,500	Jul	25,500	Oct	25,500
Feb	25,500	May	25,500	Aug	25,500	Nov	25,500
Mar	25,500	Jun	25,500	Sep	25,500	Dec	25,500

4.5 Method of abstraction (mark with an X the abstraction method currently used or to be installed)

☒ Pump * ☐ Canal ☐ Gravity or outlet pipe ☐ Other (specify) **

* Also complete supplementary form DW784pmp ('Taking water from a water resource – pump technical data'), if 'pump' was selected.

** If the method of abstraction is not PUMP / CANAL / GRAVITY OR OUTLET PIPE, please define method utilised:

--

4.6 Number of households served with water (if known)

--	--	--	--	--	--	--	--	--	--

4.7 Is this water provided by a Water User Association or Water Services Provider?

☐ WUA☐ WSP

4.8 Name of Water User Association / Water Services Provider:

5. EXISTING AUTHORISATION AND REGISTRATION (PERMIT INFORMATION)

5.1 Existing permit information

Permit number

Date (ccyymmdd)

Permit No.	
Permit No.	
Permit No.	
Permit No.	
Permit No.	
Permit No.	

5.2 If water use takes place in terms of the General Authorisation, mark with an X

☐

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

<u>Date(s) from which applicable GA is/was applicable to this water use</u>			
South African Act:		Applicable section of the act	
[E.g. National Water Act (Act No. 36 of 1998)]		[E.g. Section 21]	
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			

5.3 If an authorisation has been issued under other legislation

Law /Regulation

6. SUBSIDY DETAILS

6.1 Resource Poor Farmer (RPF)

Should this WU application be considered for RPF subsidy?

☐ Yes ☒ No

7. PROPERTY RELATIONSHIP DETAILS (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property	Property Relationship Date	
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property		From:	To:
Overlakte	T44946/2009	MS	12S	3+4	Surname of the Leader of Village, Community or Tribal Authority		
					Initial of the Leader of Village, Community or Tribal Authority		
					Local Authority (if applicable)		
					Magisterial District (if applicable)		
Overlakte	T22619/2009	MS	12S	S	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority		
					Initial of the Leader of Village, Community or Tribal Authority		
					Local Authority (if applicable)		
					Magisterial District (if applicable)		
					Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority		
					Initial of the Leader of Village, Community or Tribal Authority		
					Local Authority (if applicable)		
					Magisterial District (if applicable)		
					Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority		
					Initial of the Leader of Village, Community or Tribal Authority		
					Local Authority (if applicable)		
					Magisterial District (if applicable)		
					Tribal Authority/Council (if applicable)		

8.6 Late Registration PenaltyIs this a late registration? ☐ Yes☐ No

If yes, mark with an X, the applicable penalty to be levied

☐ R300.00 OR☐ 10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable

☐ Waive penalty

File number

Water Use Register Number

Received by:

Surname

Initials

Position / Rank

Signature

Captured on NRWU database
(ccyymmdd)

Captured by:

Surname

Initials

Signature

Date stamp of receiving office



DEPARTMENT OF WATER AFFAIRS AND FORESTRY

 SUPPLEMENTARY WATER USE INFORMATION
 TAKING WATER FROM A WATER RESOURCE
 PUMP TECHNICAL DATA

1. PUMP IDENTIFICATION																			
1.1 Pump number (if more than one, enter a sequence number starting from 001)			005																
1.2 Installation date			<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td>Y</td><td>Y</td><td>Y</td><td>Y</td><td>M</td><td>M</td><td>D</td><td>D</td> </tr> </table>	Y	Y	Y	Y	M	M	D	D								
Y	Y	Y	Y	M	M	D	D												
1.3 Geographic location of the pump (use one format only)																			
<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td>S</td><td>22</td><td>07</td><td>58.3</td> </tr> <tr> <td>E 029</td><td>38</td><td>27.5</td><td></td> </tr> </table>		S	22	07	58.3	E 029	38	27.5		or S <table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td></td><td></td><td></td><td></td></tr></table> or S <table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td></td><td></td><td></td><td></td></tr></table> Cape datum Clarke <input type="checkbox"/>									
S	22	07	58.3																
E 029	38	27.5																	
<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td>E 029</td><td>38</td><td>27.5</td><td></td> </tr> <tr> <td>E 0</td><td></td><td></td><td></td> </tr> </table>		E 029	38	27.5		E 0				or E 0 <table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td></td><td></td><td></td><td></td></tr></table> or E 0 <table border="1" style="display: inline-table; border-collapse: collapse;"><tr><td></td><td></td><td></td><td></td></tr></table> WGS-84 datum <input checked="" type="checkbox"/>									
E 029	38	27.5																	
E 0																			
2. PUMPING HOURS																			
2.1 Maximum pumping hours per week		068 h																	
2.2 Total pumping hours per year		3538 h																	
3. PUMP DATA																			
3.1 Pump type (mark one with X)																			
<input type="checkbox"/> a) Centrifugal <input type="checkbox"/> b) Positive displacement <input checked="" type="checkbox"/> c) Turbine <input type="checkbox"/> d) Axial flow <input type="checkbox"/> e) Other (specify) 																			
3.2 Pump model SUPER D T90/S-110																			
3.3 Pulley diameter			 mm																
3.4 Speed			2900 rpm																
3.5 Impeller size (only for a centrifugal pump)			 mm																
3.6 Suction hose																			
3.6.1 Hose material																			
3.6.2 Hose diameter		 mm																	
3.6.3 Hose length		 m																	
3.7 Type of flow meter (mark one with X)																			
<input checked="" type="checkbox"/> a) Inline <input type="checkbox"/> b) Bypass <input type="checkbox"/> c) Doppler effect <input type="checkbox"/> d) None <input type="checkbox"/> e) Other (specify below) 																			
3.8 Pressure gauge reading																			
At inlet =		3 m At outlet = 4.5 m																	

4. POWER SOURCE DATA

4.1 Power source type (mark one with X)

- ☒ a) Electric
 ☐ b) Diesel
 ☐ c) Petrol
 ☐ d) Tractor
 ☐ e) Wind
 ☐ f) Other (specify) _____

4.2 Model

FRANKLIN 2POLE 600VAC 15kW

4.3 Pulley diameter

 mm

4.4 Speed

 2900 rpm

4.5 Coupling:

a) Type (mark one with X)

- ☐ V-belt
 ☐ Flat belt
 ☐ Gearbox
 ☒ Direct
 ☐ Other (specify below) _____

b) For gearbox coupling or direct coupling, enter the ratio

 1 :

4.6 Power rating

 15 kW**5. PUMP OPERATION**

	Maximum pressure	Maximum discharge	Average operation	
5.1 Discharge	<input type="text"/>	<input type="text"/>	<input type="text"/> 15	litres / second
5.2 Suction height	<input type="text"/>	<input type="text"/>	<input type="text"/> 3	metres
5.3 Static height	<input type="text"/>	<input type="text"/>	<input type="text"/> 21	metres
5.4 Working height	<input type="text"/>	<input type="text"/>	<input type="text"/> 0	metres
5.5 Friction height	<input type="text"/>	<input type="text"/>	<input type="text"/> 19	metres
5.6 Other losses	<input type="text"/>	<input type="text"/>	<input type="text"/> 0	metres
5.7 Total head	<input type="text"/>	<input type="text"/>	<input type="text"/> 40	metres
5.8 Efficiency	<input type="text"/>	<input type="text"/>	<input type="text"/> 60	%
5.9 Power absorbed	<input type="text"/>	<input type="text"/>	<input type="text"/> 11.25	kilowatts
5.10 Ammeter reading	<input type="text"/>	<input type="text"/>	<input type="text"/>	amps

6. BOREHOLE INFORMATION (where applicable)

6.1 a) Borehole number

 BH-005

b) Geographic location of the borehole, if different from pump

☐ S or ☐ S Cape datum Clarke ☐
☐ E 0 ☐ E 0 WGS-84 datum ☐

6.2 Yield of borehole

 litres / second

6.3 Depth of borehole

 metres

6.4 Previous authorisation or licensing reference

7. ESKOM TRANSFORMER (where applicable)

7.1 a) ESKOM reference number

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

b) Geographic location of the transformer, if different from pump

or

S						
E	0					

07'

S			
E	0		

Cape datum Clarke

1

WGS-84 datum

1

7.2 Power rating of the transformer

[illegible]

kVA

FOR OFFICIAL USE ONLY

File number

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Water use licence or registration number

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

Water Management Area

USE AREA 1 - THE UNIVERSITY OF ALABAMA SYSTEM, HUNTSVILLE CAMPUS

Received by:

Surname

1994-1995	1995-1996	1996-1997	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002	2002-2003	2003-2004	2004-2005	2005-2006	2006-2007	2007-2008	2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030	2030-2031	2031-2032	2032-2033	2033-2034	2034-2035	2035-2036	2036-2037	2037-2038	2038-2039	2039-2040	2040-2041	2041-2042	2042-2043	2043-2044	2044-2045	2045-2046	2046-2047	2047-2048	2048-2049	2049-2050	2050-2051	2051-2052	2052-2053	2053-2054	2054-2055	2055-2056	2056-2057	2057-2058	2058-2059	2059-2060	2060-2061	2061-2062	2062-2063	2063-2064	2064-2065	2065-2066	2066-2067	2067-2068	2068-2069	2069-2070	2070-2071	2071-2072	2072-2073	2073-2074	2074-2075	2075-2076	2076-2077	2077-2078	2078-2079	2079-2080	2080-2081	2081-2082	2082-2083	2083-2084	2084-2085	2085-2086	2086-2087	2087-2088	2088-2089	2089-2090	2090-2091	2091-2092	2092-2093	2093-2094	2094-2095	2095-2096	2096-2097	2097-2098	2098-2099	2099-2100	2100-2101	2101-2102	2102-2103	2103-2104	2104-2105	2105-2106	2106-2107	2107-2108	2108-2109	2109-2110	2110-2111	2111-2112	2112-2113	2113-2114	2114-2115	2115-2116	2116-2117	2117-2118	2118-2119	2119-2120	2120-2121	2121-2122	2122-2123	2123-2124	2124-2125	2125-2126	2126-2127	2127-2128	2128-2129	2129-2130	2130-2131	2131-2132	2132-2133	2133-2134	2134-2135	2135-2136	2136-2137	2137-2138	2138-2139	2139-2140	2140-2141	2141-2142	2142-2143	2143-2144	2144-2145	2145-2146	2146-2147	2147-2148	2148-2149	2149-2150	2150-2151	2151-2152	2152-2153	2153-2154	2154-2155	2155-2156	2156-2157	2157-2158	2158-2159	2159-2160	2160-2161	2161-2162	2162-2163	2163-2164	2164-2165	2165-2166	2166-2167	2167-2168	2168-2169	2169-2170	2170-2171	2171-2172	2172-2173	2173-2174	2174-2175	2175-2176	2176-2177	2177-2178	2178-2179	2179-2180	2180-2181	2181-2182	2182-2183	2183-2184	2184-2185	2185-2186	2186-2187	2187-2188	2188-2189	2189-2190	2190-2191	2191-2192	2192-2193	2193-2194	2194-2195	2195-2196	2196-2197	2197-2198	2198-2199	2199-2200	2200-2201	2201-2202	2202-2203	2203-2204	2204-2205	2205-2206	2206-2207	2207-2208	2208-2209	2209-2210	2210-2211	2211-2212	2212-2213	2213-2214	2214-2215	2215-2216	2216-2217	2217-2218	2218-2219	2219-2220	2220-2221	2221-2222	2222-2223	2223-2224	2224-2225	2225-2226	2226-2227	2227-2228	2228-2229	2229-2230	2230-2231	2231-2232	2232-2233	2233-2234	2234-2235	2235-2236	2236-2237	2237-2238	2238-2239	2239-2240	2240-2241	2241-2242	2242-2243	2243-2244	2244-2245	2245-2246	2246-2247	2247-2248	2248-2249	2249-2250	2250-2251	2251-2252	2252-2253	2253-2254	2254-2255	2255-2256	2256-2257	2257-2258	2258-2259	2259-2260	2260-2261	2261-2262	2262-2263	2263-2264	2264-2265	2265-2266	2266-
-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-------

Initials

1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	16
17	18
19	20
21	22
23	24
25	26
27	28
29	30
31	32
33	34
35	36
37	38
39	40
41	42
43	44
45	46
47	48
49	50
51	52
53	54
55	56
57	58
59	60
61	62
63	64
65	66
67	68
69	70
71	72
73	74
75	76
77	78
79	80
81	82
83	84
85	86
87	88
89	90
91	92
93	94
95	96
97	98
99	100

Rank

[illegible]

Signature _____

--

Captured by:

Initials

□

Date stamp of receiving office



Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

Part 2

TAKING WATER FROM A WATER RESOURCE

1. WATER USE DETAILS

[illegible]

Passport Country Of Issue	
---------------------------	--

WU No.

--	--	--	--

1.4 If the applicant is a company, business, partnership or community:

1.4.1 Name of company, business, partnership or community:

LIMPOPO COAL COMPANY (PTY) LTD

1.4.2 Business Enterprise Registration Number

006072107

1.4.3 Date Established (ccyy/mm/dd)

20050224

Country Where Established

RSA

1.5 If the applicant is a National Department:

1.5.1 National Department Name:

1.6 If the applicant is a Provincial Department:

1.6.1 Province:

1.6.2 Provincial Department Name:

1.7 If the applicant is a Water Services Provider:

1.7.1 Name of WSP:

1.8 If the applicant is a Water User Association:

1.8.1 Name of WUA:

Declaration by applicant

Delete the words that are not applicable I/ BALDWIN KHOSA (FULL NAME(S))
hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Signature

Company Representative

Designation of signatory



Thumb print

(011) 785 4518

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

2. SUCCESSION/TRANSFER AND SOURCE PART 2 DETAILS

- 2.1 Is this a Succession or a Transfer related Water Use? ☒ Yes
(Mark only one box with an X) ☐ No
- 2.2 If yes, mark with an X the Succession / Transfer Type ☐ Full Temporary Transfer ☐ Partial Temporary Transfer
☐ Permanent Transfer ☒ Succession in Title
- 2.3 Source Register Number

2	7	0	1	9	5	5	6
---	---	---	---	---	---	---	---

 WU Number

--	--	--	--

Source Register Number

2	7	0	0	6	7	0	2
---	---	---	---	---	---	---	---

 WU Number

--	--	--	--

Source Register Number

2	7	0	0	6	7	1	1
---	---	---	---	---	---	---	---

 WU Number

--	--	--	--

3. WATER RESOURCE INFORMATION

- 3.1 Name of water resource LIMPOPO ALLUVIAL AQUIFER
- 3.2 Name or reference number of abstraction point (if any) BH-006
- 3.3 Type of water source (mark only one with X)
☐ River / stream ☐ Spring / Eye ☒ Borehole ☐ Dam ☐ Estuary
☐ Wetland ☐ Lake ☐ GWS (scheme) ☐ Boreholes And Windmills On Government Land
If water source is government water scheme, give the name:
- 3.4 Geographic location of the abstraction point
Latitude S 22° 08' 00.5" or S ° ' " or S ° ' "
Longitude E 29° 38' 17.4" or E ° ' " or E ° ' "
Datum Type: ☐ Cape (Modified Clarke 1880) ☒ WGS-84
- 3.5 Reliability of water resource (mark only one with an X)
☒ Water always available ☐ Dry during certain seasons ☐ Frequently Dry
- 3.6 Quaternary Drainage Region A71L

4. DESCRIPTION OF WATER USE

- 4.1 Select only **one** WU sector – purpose of the WU: (NB: Complete a separate DW760/773 form for each sector if more than one is applicable)
- | | |
|---|--|
| <input type="checkbox"/> Agriculture: Aquaculture | <input type="checkbox"/> Power Generation (also complete DW788) |
| <input type="checkbox"/> Agriculture: Irrigation (also complete form DW787) | <input type="checkbox"/> Recreation |
| <input type="checkbox"/> Agriculture: Watering Livestock | <input type="checkbox"/> Schedule 1 |
| <input type="checkbox"/> Industrial (also complete form DW788) | <input type="checkbox"/> Urban (excl. Domestic &/or Industrial) |
| <input checked="" type="checkbox"/> Mining (also complete form DW788) | <input type="checkbox"/> Water Supply Service (also complete form DW789) |

4.2 Period of water use

Date of first use or proposed first use
(ccyyymmdd)

20100101

End date (if applicable)
(ccyyymmdd)

4.3 Volume of water abstracted (*minus a realistic estimate of the transmission losses in the case of a WUA / WSP related water use)

*WU /WSP: Transmission Loss

(taken into account i.r.o gross volume)

	Start date (ccyyymmdd)	Volume		Time interval (mark only one with X)				
a)	20100101	840	m ³	<input checked="" type="checkbox"/> Daily	<input type="checkbox"/> Monthly	<input type="checkbox"/> Annually		%
b)			m ³	<input type="checkbox"/> Daily	<input type="checkbox"/> Monthly	<input type="checkbox"/> Annually		%
c)			m ³	<input type="checkbox"/> Daily	<input type="checkbox"/> Monthly	<input type="checkbox"/> Annually		%

4.4 Estimated water abstraction pattern:

in total cubic meters

☒ or

% per month

☐

Jan	25,500	Apr	25,500	Jul	25,500	Oct	25,500
Feb	25,500	May	25,500	Aug	25,500	Nov	25,500
Mar	25,500	Jun	25,500	Sep	25,500	Dec	25,500

4.5 Method of abstraction (mark with an X the abstraction method currently used or to be installed)

☒ Pump *☐ Canal☐ Gravity or outlet pipe☐ Other (specify) **

* Also complete supplementary form DW784pmp ('Taking water from a water resource – pump technical data'), if 'pump' was selected.

** If the method of abstraction is not PUMP / CANAL / GRAVITY OR OUTLET PIPE, please define method utilised:

4.6 Number of households served with water (if known)

4.7 Is this water provided by a Water User Association or Water Services Provider?

☐ WUA☐ WSP

4.8 Name of Water User Association / Water Services Provider:

5. EXISTING AUTHORISATION AND REGISTRATION (PERMIT INFORMATION)

5.1 Existing permit information

Permit number

Date (ccyyymmdd)

Permit No.	
Permit No.	
Permit No.	
Permit No.	
Permit No.	
Permit No.	

5.2 If water use takes place in terms of the General Authorisation, mark with an X

☐

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

<u>Date(s) from which applicable GA is/was applicable to this water use</u>			
South African Act:		Applicable section of the act	
[E.g. National Water Act (Act No. 36 of 1998)]		[E.g. Section 21]	
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			

5.3 If an authorisation has been issued under other legislation

Law /Regulation

6. SUBSIDY DETAILS

6.1 Resource Poor Farmer (RPF)

Should this WU application be considered for RPF subsidy?

☐ Yes

☒ No

7. PROPERTY RELATIONSHIP DETAILS (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property	Property Relationship Date	
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property		From:	To:
Overlake	T44946/2009				Surname of the Leader of Village, Community or Tribal Authority		
		M15			Initial of the Leader of Village, Community or Tribal Authority		
		125			Local Authority (if applicable)		
		3+4			Magisterial District (if applicable)		
Overlake	T22619/2009				Tribal Authority/Council (if applicable)		
		M15			Surname of the Leader of Village, Community or Tribal Authority		
		125			Initial of the Leader of Village, Community or Tribal Authority		
		5			Local Authority (if applicable)		
					Magisterial District (if applicable)		
					Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority		
					Initial of the Leader of Village, Community or Tribal Authority		
					Local Authority (if applicable)		
					Magisterial District (if applicable)		
					Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority		
					Initial of the Leader of Village, Community or Tribal Authority		
					Local Authority (if applicable)		
					Magisterial District (if applicable)		
					Tribal Authority/Council (if applicable)		

8.1.1 Supplementary forms attached with this form (mark with an X)

- 8.1.2** Specify the number of other documents submitted with this form (mark with an X)

- ☐
- Other: (specify) _____

☐ Other: (specify) _____

- ☐
- Other: (specify) _____

- ☐
- Other: (specify) _____

8.2 Succession transfer and source Part 2 details

Source Register number

WU Number

WU Status to be allocated

WU Close Date (if applicable)
(ccyyymmdd)

[illegible]

8.3 Billing Information

Start date (ccyyymmdd)

End date (ccyymmdd)

- 8.3.1 Applicant to be billed as ☐ An Individual ☐ Via a WUA / WSP

[illegible]

- 8.3.2 Applicant to be charged ☐ On actual volume ☐ Registered volume

[illegible]

--	--	--	--	--	--

- 8.3.3 Billing frequency ☐ Annually ☐ Bi-annually ☐ Monthly

100

- 8.3.4** If to be billed via a WUA / WSP

Name of WUA / WSP

Is WUA / WSP a Billing Agent?

- ☐
- Yes

- ☐
- No

Billing Agent's Register Number

--	--	--	--	--	--	--	--

- 8.3.5** If this WU is to be billed via a Bulk Billing Party that is not a WSP / WUA, complete the following:

Name of Customer

Bulk-Bill-to-Party Register Number

--	--	--	--	--	--	--	--

8.4 Water Resource Information

If water source is a Government Water Scheme,
give the GWS name:

Figure 1. Schematic representation of the experimental design. The subjects were divided into two groups: the control group (CG) and the experimental group (EG). The CG was exposed to a control environment (CE) and the EG was exposed to an experimental environment (EE). The EE was designed to simulate a real-world environment with various stimuli (e.g., traffic, noise, and visual clutter). The subjects were then exposed to a series of tasks (e.g., driving, walking, and standing) and their performance was recorded. The results were then compared between the CG and the EG.

- ## 8.5 District Municipality

District Municipality Name (if applicable)

Figure 1. Schematic representation of the experimental design. The subjects were divided into two groups: the control group (CG) and the experimental group (EG). The CG was divided into two subgroups: the control group (CG) and the control group (CG). The EG was divided into two subgroups: the experimental group (EG) and the experimental group (EG). The subjects were divided into two groups: the control group (CG) and the experimental group (EG). The CG was divided into two subgroups: the control group (CG) and the control group (CG). The EG was divided into two subgroups: the experimental group (EG) and the experimental group (EG).

☐ Yes☐ No☐ R300.00 OR

☐ 10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable

☐ Waive penalty

File number

[illegible]

Water Use Register Number

--	--	--	--	--	--	--

Received by:

Surname

Initials

--	--	--	--

Position / Rank

Signature

Captured on NRWU database

DATE	DESCRIPTION	AMOUNT	BALANCE
1900			
1901			
1902			
1903			
1904			
1905			
1906			
1907			
1908			
1909			
1910			
1911			
1912			
1913			
1914			
1915			
1916			
1917			
1918			
1919			
1920			
1921			
1922			
1923			
1924			
1925			
1926			
1927			
1928			
1929			
1930			
1931			
1932			
1933			
1934			
1935			
1936			
1937			
1938			
1939			
1940			
1941			
1942			
1943			
1944			
1945			
1946			
1947			
1948			
1949			
1950			
1951			
1952			
1953			
1954			
1955			
1956			
1957			
1958			
1959			
1960			
1961			
1962			
1963			
1964			
1965			
1966			
1967			
1968			
1969			
1970			
1971			
1972			
1973			
1974			
1975			
1976			
1977			
1978			
1979			
1980			
1981			
1982			
1983			
1984			
1985			
1986			
1987			
1988			
1989			
1990			
1991			
1992			
1993			
1994			
1995			
1996			
1997			
1998			
1999			
2000			
2001			
2002			
2003			
2004			
2005			
2006			
2007			
2008			
2009			
2010			
2011			
2012			
2013			
2014			
2015			
2016			
2017			
2018			
2019			
2020			
2021			
2022			
2023			
2024			
2025			
2026			

(ccyymmdd)
 Captured by:

Surname

Initials

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

Signature _____

Date stamp of receiving office



DEPARTMENT OF WATER AFFAIRS AND FORESTRY

 SUPPLEMENTARY WATER USE INFORMATION
 TAKING WATER FROM A WATER RESOURCE
 PUMP TECHNICAL DATA

1. PUMP IDENTIFICATION				
1.1 Pump number	(if more than one, enter a sequence number starting from 001)	006		
1.2 Installation date	<div style="display: flex; justify-content: space-between;"> Y Y Y Y M M D D </div>			
1.3 Geographic location of the pump (use one format only)				
<div style="display: flex; justify-content: space-between;"> <div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px;">S</div> <div style="border: 1px solid black; padding: 2px;">22°</div> <div style="border: 1px solid black; padding: 2px;">08'</div> </div> <div style="border: 1px solid black; padding: 2px;">00.5"</div> </div> <div>or</div> <div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px;">S</div> <div style="border: 1px solid black; padding: 2px;"> </div> <div style="border: 1px solid black; padding: 2px;">°</div> </div> <div style="border: 1px solid black; padding: 2px;"> </div> </div> </div>		<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px;">S</div> <div style="border: 1px solid black; padding: 2px;"> </div> <div style="border: 1px solid black; padding: 2px;">°</div> </div> <div style="border: 1px solid black; padding: 2px;"> </div>		Cape datum Clarke <input type="checkbox"/> WGS-84 datum <input checked="" type="checkbox"/>
<div style="display: flex; justify-content: space-between;"> <div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px;">E</div> <div style="border: 1px solid black; padding: 2px;">029°</div> <div style="border: 1px solid black; padding: 2px;">38'</div> </div> <div style="border: 1px solid black; padding: 2px;">17.4"</div> </div> <div>or</div> <div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px;">E</div> <div style="border: 1px solid black; padding: 2px;">0 </div> <div style="border: 1px solid black; padding: 2px;">°</div> </div> <div style="border: 1px solid black; padding: 2px;"> </div> </div> </div>		<div style="display: flex; justify-content: space-between;"> <div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px;">E</div> <div style="border: 1px solid black; padding: 2px;">0 </div> <div style="border: 1px solid black; padding: 2px;">°</div> </div> <div style="border: 1px solid black; padding: 2px;"> </div> </div> <div style="border: 1px solid black; padding: 2px;"> </div> </div>		
2. PUMPING HOURS				
2.1 Maximum pumping hours per week	068 h	2.2 Total pumping hours per year	3538 h	
3. PUMP DATA				
3.1 Pump type (mark one with X)				
<div style="display: flex; justify-content: space-between;"> <div><input type="checkbox"/> a) Centrifugal</div> <div><input type="checkbox"/> b) Positive displacement</div> <div><input checked="" type="checkbox"/> c) Turbine</div> <div><input type="checkbox"/> d) Axial flow</div> </div> <div style="margin-top: 5px;"><input type="checkbox"/> e) Other (specify) </div>				
3.2 Pump model	SUPER D T90/S-110			
3.3 Pulley diameter	mm			
3.4 Speed	2900 rpm			
3.5 Impeller size (only for a centrifugal pump)	mm			
3.6 Suction hose				
3.6.1 Hose material				
3.6.2 Hose diameter	mm			
3.6.3 Hose length	m			
3.7 Type of flow meter (mark one with X)				
<div style="display: flex; justify-content: space-between;"> <div><input checked="" type="checkbox"/> a) Inline</div> <div><input type="checkbox"/> b) Bypass</div> <div><input type="checkbox"/> c) Doppler effect</div> <div><input type="checkbox"/> d) None</div> <div><input type="checkbox"/> e) Other (specify below)</div> </div> <div style="margin-top: 5px;"></div>				
3.8 Pressure gauge reading	At inlet = 3 m At outlet = 4.5 m			

4. POWER SOURCE DATA

4.1 Power source type (mark one with X)

- ☒ a) Electric
 ☐ b) Diesel
 ☐ c) Petrol
 ☐ d) Tractor
 ☐ e) Wind
 ☐ f) Other (specify) _____

4.2 Model

FRANKLIN 2POLE 400VAC 15kW

4.3 Pulley diameter

mm

4.4 Speed

2900 rpm

4.5 Coupling:

a) Type (mark one with X)

- ☐ V-belt
 ☐ Flat belt
 ☐ Gearbox
 ☒ Direct
 ☐ Other (specify below) _____

b) For gearbox coupling or direct coupling, enter the ratio

1 : 1

4.6 Power rating

15 kW

5. PUMP OPERATION

	Maximum pressure	Maximum discharge	Average operation	
5.1 Discharge			15	litres / second
5.2 Suction height			3	metres
5.3 Static height			21	metres
5.4 Working height			0	metres
5.5 Friction height			19	metres
5.6 Other losses			0	metres
5.7 Total head			40	metres
5.8 Efficiency			60	%
5.9 Power absorbed			11.25	kilowatts
5.10 Ammeter reading				amps

6. BOREHOLE INFORMATION (where applicable)

6.1 a) Borehole number

BH-006

b) Geographic location of the borehole, if different from pump

☐ S ☐ ☐ ☐ ☐ ☐ or ☐ S ☐ ☐ ☐ ☐ ☐ or ☐ S ☐ ☐ ☐ ☐ ☐ Cape datum Clarke ☐
☐ E 0 ☐ ☐ ☐ ☐ ☐ or ☐ E 0 ☐ ☐ ☐ ☐ ☐ WGS-84 datum ☐

6.2 Yield of borehole

litres / second

6.3 Depth of borehole

metres

6.4 Previous authorisation or licensing reference

7.1 a) ESKOM reference number

Cape datum Clarke

WGS-84 datum

					kVA
--	--	--	--	--	-----

File number

Water Management Area

Surname

Initials

Rank

Signature _____

Initials

Date stamp of receiving office



water affairs

Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

Registration / Licensing

Part 2

Section 21(a) of the National Water Act

TAKING WATER FROM A WATER RESOURCE

Mark the applicable option(s) with an X and/or complete details where applicable/available

1. WATER USE DETAILS

1.1 Have you already registered a water use with the Department of Water Affairs and Forestry?

☐ Yes

☒ No

Registration Number:

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Water Use Number:

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

☐ Licence Related WU

RLA Reference

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

NRWU Licence Number

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

RLA Business Unit

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

(NRWU = National Register of Water Use; RLA = Responsible Licensing Authority; WU = Water Use)

1.2 Applicant Type (mark only one block with X)

☐ Individual (complete 1.3)

☐ Provincial Department (complete 1.6)

☒ Company, business, partnership or community (complete 1.4)

☐ Water Services Provider (complete 1.7)

☐ National Department (complete 1.5)

☐ Water User Association (complete 1.8)

1.3 If the applicant is an individual

1.3.1 Title Surname Initials

1.3.2 South African ID (if holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

Passport Expiry Date (ccyyymmdd)

Passport Country Of Issue

For office use only

Allocated Reg. No.

WU No.

1.4 If the applicant is a company, business, partnership or community:

1.4.1 Name of company, business, partnership or community:

LIMPOPO COAL COMPANY (PTY) LTD

1.4.2 Business Enterprise Registration Number

006072107

1.4.3 Date Established (ccyymmdd)

20050224

Country Where Established

RSA

1.5 If the applicant is a National Department:

1.5.1 National Department Name:

1.6 If the applicant is a Provincial Department:

1.6.1 Province:

1.6.2 Provincial Department Name:

1.7 If the applicant is a Water Services Provider:

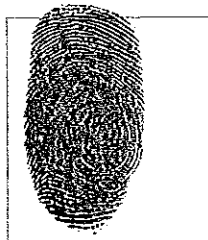
1.7.1 Name of WSP:

1.8 If the applicant is a Water User Association:

1.8.1 Name of WUA:

Declaration by applicant

Delete the words that are not applicable I/we BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Thumb print

Signature

Company Representative

Designation of signatory

(011) 785 4518

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

2. SUCCESSION/TRANSFER AND SOURCE PART 2 DETAILS

- 2.1 Is this a Succession or a Transfer related Water Use? ☒ Yes
(Mark only one box with an X) ☐ No
- 2.2 If yes, mark with an X the Succession / Transfer Type ☐ Full Temporary Transfer ☐ Partial Temporary Transfer
☐ Permanent Transfer ☒ Succession in Title
- 2.3 Source Register Number

2	7	0	1	9	5	5	6
---	---	---	---	---	---	---	---

 WU Number

--	--	--	--

Source Register Number

2	7	0	0	6	7	0	2
---	---	---	---	---	---	---	---

 WU Number

--	--	--	--

Source Register Number

2	7	0	0	6	7	1	1
---	---	---	---	---	---	---	---

 WU Number

--	--	--	--

3. WATER RESOURCE INFORMATION

- 3.1 Name of water resource LIMPOPO ALLUVIAL AQUIFER
- 3.2 Name or reference number of abstraction point (if any) BH-007
- 3.3 Type of water source (mark only one with X)
☐ River / stream ☐ Spring / Eye ☒ Borehole ☐ Dam ☐ Estuary
☐ Wetland ☐ Lake ☐ GWS (scheme) ☐ Boreholes And Windmills On Government Land
If water source is government water scheme, give the name:
- 3.4 Geographic location of the abstraction point
Latitude S 22° 08' 00.7" or S ° ' " or S ° ' "
Longitude E 29° 38' 15.9" or E ° ' " or E ° ' "
Datum Type: ☐ Cape (Modified Clarke 1880) ☒ WGS-84
- 3.5 Reliability of water resource (mark only one with an X)
☒ Water always available ☐ Dry during certain seasons ☐ Frequently Dry
- 3.6 Quaternary Drainage Region A71L

4. DESCRIPTION OF WATER USE

- 4.1 Select only one WU sector -- purpose of the WU: (NB: Complete a separate DW760/773 form for each sector if more than one is applicable)
- | | |
|---|--|
| <input type="checkbox"/> Agriculture: Aquaculture | <input type="checkbox"/> Power Generation (also complete DW788) |
| <input type="checkbox"/> Agriculture: Irrigation (also complete form DW787) | <input type="checkbox"/> Recreation |
| <input type="checkbox"/> Agriculture: Watering Livestock | <input type="checkbox"/> Schedule 1 |
| <input type="checkbox"/> Industrial (also complete form DW788) | <input type="checkbox"/> Urban (excl. Domestic &/or Industrial) |
| <input checked="" type="checkbox"/> Mining (also complete form DW788) | <input type="checkbox"/> Water Supply Service (also complete form DW789) |

4.2 Period of water use

Date of first use or proposed first use
(ccyymmdd)

20100101

End date (if applicable)
(ccyymmdd)

4.3 Volume of water abstracted (*minus a realistic estimate of the transmission losses in the case of a WUA / WSP related water use)

*WU /WSP: Transmission Loss
(taken into account i.r.o gross volume)

	Start date (ccyymmdd)	Volume	Time interval (mark only one with X)	
a)	20100101	840	<input checked="" type="checkbox"/> Daily	<input type="checkbox"/> Monthly <input type="checkbox"/> Annually
b)			<input type="checkbox"/> Daily	<input type="checkbox"/> Monthly <input type="checkbox"/> Annually
c)			<input type="checkbox"/> Daily	<input type="checkbox"/> Monthly <input type="checkbox"/> Annually

4.4 Estimated water abstraction pattern:

in total cubic meters ☒ or % per month ☐

Jan	25,500	Apr	25,500	Jul	25,500	Oct	25,500
Feb	25,500	May	25,500	Aug	25,500	Nov	25,500
Mar	25,500	Jun	25,500	Sep	25,500	Dec	25,500

4.5 Method of abstraction (mark with an X the abstraction method currently used or to be installed)

☒ Pump * ☐ Canal ☐ Gravity or outlet pipe ☐ Other (specify) **

* Also complete supplementary form DW784pmp ('Taking water from a water resource – pump technical data'), if 'pump' was selected.

** If the method of abstraction is not PUMP / CANAL / GRAVITY OR OUTLET PIPE, please define method utilised:

4.6 Number of households served with water (if known)

4.7 Is this water provided by a Water User Association or Water Services Provider?

☐ WUA☐ WSP

4.8 Name of Water User Association / Water Services Provider:

5. EXISTING AUTHORISATION AND REGISTRATION (PERMIT INFORMATION)

5.1 Existing permit information

Permit number

Date (ccyymmdd)

Permit No.	
Permit No.	
Permit No.	
Permit No.	
Permit No.	
Permit No.	

5.2 If water use takes place in terms of the General Authorisation, mark with an X

☐

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

<u>Date(s) from which applicable GA is/was applicable to this water use</u>			
South African Act:		Applicable section of the act	
[E.g. National Water Act (Act No. 36 of 1998)]		[E.g. Section 21]	
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			

5.3 If an authorisation has been issued under other legislation
Law /Regulation

6. SUBSIDY DETAILS

6.1 Resource Poor Farmer (RPF)
Should this WU application be considered for RPF subsidy? ☐ Yes ☒ No

7. PROPERTY RELATIONSHIP DETAILS (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property	Property Relationship Date	
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property		From:	To:
Overlaid		T44946/2009	MS		Surname of the Leader of Village, Community or Tribal Authority		
			125		Initial of the Leader of Village, Community or Tribal Authority		
			3 + 4		Local Authority (if applicable)		
					Magisterial District (if applicable)		
Overlaid		T22619/2009	MS		Tribal Authority/Council (if applicable)		
			125		Surname of the Leader of Village, Community or Tribal Authority		
			S		Initial of the Leader of Village, Community or Tribal Authority		
					Local Authority (if applicable)		
					Magisterial District (if applicable)		
					Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority		
					Initial of the Leader of Village, Community or Tribal Authority		
					Local Authority (if applicable)		
					Magisterial District (if applicable)		
					Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority		
					Initial of the Leader of Village, Community or Tribal Authority		
					Local Authority (if applicable)		
					Magisterial District (if applicable)		
					Tribal Authority/Council (if applicable)		

8.6 Late Registration Penalty

Is this a late registration?

☐ Yes☐ No

If yes, mark with an X, the applicable penalty to be levied

☐ R300.00 OR☐ 10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable

☐ Waive penalty

File number

Water Use Register Number

Received by:

Surname

Initials

Position / Rank

Signature

Captured on NRWU database
(ccyymmdd)

Captured by:

Surname

Initials

Signature

Date stamp of receiving office



DEPARTMENT OF WATER AFFAIRS AND FORESTRY

 SUPPLEMENTARY WATER USE INFORMATION
 TAKING WATER FROM A WATER RESOURCE
 PUMP TECHNICAL DATA

1. PUMP IDENTIFICATION	
1.1 Pump number (if more than one, enter a sequence number starting from 001)	007
1.2 Installation date	Y Y Y Y M M D D
1.3 Geographic location of the pump (use one format only)	
S 22° 08' 00.7" or S ° ' " or S ° ' " Cape datum Clarke <input type="checkbox"/> E 029° 38' 15.9" or E 0 ° ' " or E 0 ° ' " WGS-84 datum <input checked="" type="checkbox"/>	
2. PUMPING HOURS	
2.1 Maximum pumping hours per week	068 h
2.2 Total pumping hours per year	3538 h
3. PUMP DATA	
3.1 Pump type (mark one with X)	
<input type="checkbox"/> a) Centrifugal <input type="checkbox"/> b) Positive displacement <input checked="" type="checkbox"/> c) Turbine <input type="checkbox"/> d) Axial flow <input type="checkbox"/> e) Other (specify) _____	
3.2 Pump model	SUPER D T90/S-110
3.3 Pulley diameter	_____ mm
3.4 Speed	2900 rpm
3.5 Impeller size (only for a centrifugal pump)	_____ mm
3.6 Suction hose	
3.6.1 Hose material	_____
3.6.2 Hose diameter	_____ mm
3.6.3 Hose length	_____ m
3.7 Type of flow meter (mark one with X)	
<input checked="" type="checkbox"/> a) Inline <input type="checkbox"/> b) Bypass <input type="checkbox"/> c) Doppler effect <input type="checkbox"/> d) None <input type="checkbox"/> e) Other (specify below) _____	
3.8 Pressure gauge reading	At inlet = _____ 3 m At outlet = _____ 4.5 m

4. POWER SOURCE DATA

4.1 Power source type (mark one with X)

- ☒ a) Electric
 ☐ b) Diesel
 ☐ c) Petrol
 ☐ d) Tractor
 ☐ e) Wind
 ☐ f) Other (specify) _____

4.2 Model

FRANKLIN 2 POLE 400V AC 15 kW

4.3 Pulley diameter

mm

4.4 Speed

2900 rpm

4.5 Coupling:

a) Type (mark one with X)

- ☐ V-belt
 ☐ Flat belt
 ☐ Gearbox
 ☒ Direct
 ☐ Other (specify below) _____

b) For gearbox coupling or direct coupling, enter the ratio

1 : 1

4.6 Power rating

15 kW

5. PUMP OPERATION

	Maximum pressure	Maximum discharge	Average operation	
5.1 Discharge			15	litres / second
5.2 Suction height			3	metres
5.3 Static height			21	metres
5.4 Working height			0	metres
5.5 Friction height			19	metres
5.6 Other losses			0	metres
5.7 Total head			40	metres
5.8 Efficiency			60	%
5.9 Power absorbed			11.25	kilowatts
5.10 Ammeter reading				amps

6. BOREHOLE INFORMATION (where applicable)

6.1 a) Borehole number

BH-007

b) Geographic location of the borehole, if different from pump

S 00° 00' 00" or S 00° 00' 00" or S 00° 00' 00" Cape datum Clarke ☐
 E 00° 00' 00" or E 00° 00' 00" or E 00° 00' 00" WGS-84 datum ☐

6.2 Yield of borehole

litres / second

6.3 Depth of borehole

metres

6.4 Previous authorisation or licensing reference

7.1 a) ESKOM reference number

or

S
E 0

.

.

or'

S
E 0

.

.

WGS-84 datum ☐

				kVA
--	--	--	--	-----

File number

Water Management Area

Surname

Initials

Rank

Signature

Captured by:

Initials

Date stamp of receiving office



water affairs

Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

Registration / Licensing

Part 2

Section 21(a) of the National Water Act

TAKING WATER FROM A WATER RESOURCE

Mark the applicable option(s) with an X and/or complete details where applicable/available

1. WATER USE DETAILS

1.1 Have you already registered a water use with the Department of Water Affairs and Forestry?

☐ Yes ☒ No

Registration Number:

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Water Use Number:

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

☐ Licence Related WU

RLA Reference

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

NRWU Licence Number

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

RLA Business Unit

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

(NRWU = National Register of Water Use; RLA = Responsible Licensing Authority; WU = Water Use)

1.2 Applicant Type (mark only one block with X)

- | | |
|--|---|
| <input type="checkbox"/> Individual (complete 1.3) | <input type="checkbox"/> Provincial Department (complete 1.6) |
| <input checked="" type="checkbox"/> Company, business, partnership or community (complete 1.4) | <input type="checkbox"/> Water Services Provider (complete 1.7) |
| <input type="checkbox"/> National Department (complete 1.5) | <input type="checkbox"/> Water User Association (complete 1.8) |

1.3 If the applicant is an individual

1.3.1 Title Surname Initials

1.3.2 South African ID (if holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

Passport Expiry Date (ccyymmdd)

Passport Country Of Issue

For office use only

Allocated Reg. No.

WU No.

1.4 If the applicant is a company, business, partnership or community:

1.4.1 Name of company, business, partnership or community:

LIMPOPO COAL COMPANY (PTY) LTD

1.4.2 Business Enterprise Registration Number

006072107

1.4.3 Date Established (ccyy/mm/dd)

20050224

Country Where Established

RSA

1.5 If the applicant is a National Department:

1.5.1 National Department Name:

1.6 If the applicant is a Provincial Department:

1.6.1 Province:

1.6.2 Provincial Department Name:

1.7 If the applicant is a Water Services Provider:

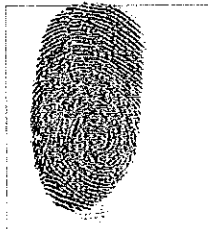
1.7.1 Name of WSP:

1.8 If the applicant is a Water User Association:

1.8.1 Name of WUA:

Declaration by applicant

Delete the words that are not applicable I/we BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Signature

Company Representative

Designation of signatory

Thumb print

(011) 785 4512

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

2. SUCCESSION/TRANSFER AND SOURCE PART 2 DETAILS

- 2.1 Is this a Succession or a Transfer related Water Use? ☒ Yes
(Mark only one box with an X) ☐ No
- 2.2 If yes, mark with an X the Succession / Transfer Type ☐ Full Temporary Transfer ☐ Partial Temporary Transfer
☐ Permanent Transfer ☒ Succession in Title
- 2.3 Source Register Number

2	7	0	1	9	5	5	6
---	---	---	---	---	---	---	---

 WU Number

--	--	--	--

Source Register Number

2	7	0	0	6	7	0	2
---	---	---	---	---	---	---	---

 WU Number

--	--	--	--

Source Register Number

2	7	0	0	6	7	1	1
---	---	---	---	---	---	---	---

 WU Number

--	--	--	--

3. WATER RESOURCE INFORMATION

- 3.1 Name of water resource LIMPOPO ALLUVIAL AQUIFER
- 3.2 Name or reference number of abstraction point (if any) BH-008
- 3.3 Type of water source (mark only one with X) ☐ River / stream ☐ Spring / Eye ☒ Borehole ☐ Dam ☐ Estuary
☐ Wetland ☐ Lake ☐ GWS (scheme) ☐ Boreholes And Windmills On Government Land
If water source is government water scheme, give the name: _____
- 3.4 Geographic location of the abstraction point
- Latitude S 22° 08' 01.0" or S . . . ° or S . . . °
- Longitude E 29° 38' 14.0" or E . . . ° or E . . . °
- Datum Type: ☐ Cape (Modified Clarke 1880) ☒ WGS-84
- 3.5 Reliability of water resource (mark only one with an X) ☒ Water always available ☐ Dry during certain seasons ☐ Frequently Dry
- 3.6 Quaternary Drainage Region A 7 1 L

4. DESCRIPTION OF WATER USE

- 4.1 Select only **one** WU sector – purpose of the WU: (NB: Complete a separate DW760/773 form for each sector if more than one is applicable)
- | | |
|---|--|
| <input type="checkbox"/> Agriculture: Aquaculture | <input type="checkbox"/> Power Generation (also complete DW788) |
| <input type="checkbox"/> Agriculture: Irrigation (also complete form DW787) | <input type="checkbox"/> Recreation |
| <input type="checkbox"/> Agriculture: Watering Livestock | <input type="checkbox"/> Schedule 1 |
| <input type="checkbox"/> Industrial (also complete form DW788) | <input type="checkbox"/> Urban (excl. Domestic &/or Industrial) |
| <input checked="" type="checkbox"/> Mining (also complete form DW788) | <input type="checkbox"/> Water Supply Service (also complete form DW789) |

4.2 Period of water use

Date of first use or proposed first use
(ccyymmdd)

20100101

End date (if applicable)
(ccyymmdd)

4.3 Volume of water abstracted (*minus a realistic estimate of the transmission losses in the case of a WUA / WSP related water use)

*WU /WSP: Transmission Loss

(taken into account i.r.o gross volume)

Start date (ccyymmdd)

Volume

Time interval (mark only one with X)

a) 20100101

840

m³☒ Daily☐ Monthly☐ Annually

b)

m³☐ Daily☐ Monthly☐ Annually

c)

m³☐ Daily☐ Monthly☐ Annually

4.4 Estimated water abstraction pattern:

in total cubic meters

☒ or

% per month

☐

Jan

25,550

Apr

25,550

Jul

25,550

Oct

25,550

Feb

25,550

May

25,550

Aug

25,550

Nov

25,550

Mar

25,550

Jun

25,550

Sep

25,550

Dec

25,550

4.5 Method of abstraction (mark with an X the abstraction method currently used or to be installed)

☒ Pump *☐ Canal☐ Gravity or outlet pipe☐ Other (specify) **

* Also complete supplementary form DW784pmp ('Taking water from a water resource – pump technical data'), if 'pump' was selected.

** If the method of abstraction is not PUMP / CANAL / GRAVITY OR OUTLET PIPE, please define method utilised:

4.6 Number of households served with water (if known)

4.7 Is this water provided by a Water User Association or Water Services Provider?

☐ WUA☐

WSP

4.8 Name of Water User Association / Water Services Provider:

5. EXISTING AUTHORISATION AND REGISTRATION (PERMIT INFORMATION)

5.1 Existing permit information

Permit number

Date (ccyymmdd)

Permit No.

Permit No.

Permit No.

Permit No.

Permit No.

Permit No.

5.2 If water use takes place in terms of the General Authorisation, mark with an X

☐

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

<u>Date(s) from which applicable GA is/was applicable to this water use</u>	
South African Act:	Applicable section of the act
[E.g. National Water Act (Act No. 36 of 1998)]	[E.g. Section 21]
Date From (ccyymmdd) <input type="text"/>	Government Notice No. <input type="text"/>
Date To (ccyymmdd) <input type="text"/>	Government Notice Date (ccyymmdd) <input type="text"/>
Applicable Section Of The General Authorisation	
Date From (ccyymmdd) <input type="text"/>	Government Notice No. <input type="text"/>
Date To (ccyymmdd) <input type="text"/>	Government Notice Date (ccyymmdd) <input type="text"/>
Applicable Section Of The General Authorisation	
Date From (ccyymmdd) <input type="text"/>	Government Notice No. <input type="text"/>
Date To (ccyymmdd) <input type="text"/>	Government Notice Date (ccyymmdd) <input type="text"/>
Applicable Section Of The General Authorisation	

5.3 If an authorisation has been issued under other legislation

Law /Regulation

6. SUBSIDY DETAILS

6.1 Resource Poor Farmer (RPF)

Should this WU application be considered for RPF subsidy?

☐ Yes

☒ No

7. PROPERTY RELATIONSHIP DETAILS (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property	Property Relationship Date	
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property		From:	To:
Ouarabate	T44946/2009	MS	12S	3+4	Surname of the Leader of Village, Community or Tribal Authority		
					Initial of the Leader of Village, Community or Tribal Authority		
					Local Authority (if applicable)		
					Magisterial District (if applicable)		
Ouarabate	T22619/2009	MS	12S	S	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority		
					Initial of the Leader of Village, Community or Tribal Authority		
					Local Authority (if applicable)		
					Magisterial District (if applicable)		
					Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority		
					Initial of the Leader of Village, Community or Tribal Authority		
					Local Authority (if applicable)		
					Magisterial District (if applicable)		
					Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority		
					Initial of the Leader of Village, Community or Tribal Authority		
					Local Authority (if applicable)		
					Magisterial District (if applicable)		
					Tribal Authority/Council (if applicable)		

8. FOR OFFICE USE ONLY

8.1 List of attached forms and documents

8.1.1 Supplementary forms attached with this form (mark with an X)

- ☐ DW787: Irrigated Field and Crop Information
- ☐ DW788: Power Generation, Industrial or Mining Use
- ☐ DW789: Domestic, Urban, Commercial or Industrial Use

8.1.2 Specify the number of other documents submitted with this form (mark with an X)

- ☐
- Environment impact assessment

- ☐
- Other: (specify) _____

[illegible]

- ☐
- Other: (specify) _____

- ☐
- Other: (specify) _____

- ☐
- Other: (specify) _____

8.2 Succession transfer and source Part 2 details

Source Register number

WU Number

WU Status to be allocated

WU Close Date (if applicable)
(ccyyymmdd)

[illegible]

A									
B									
C									
D									
E									
F									
G									
H									
I									
J									
K									
L									
M									
N									
O									
P									
Q									
R									
S									
T									
U									
V									
W									
X									
Y									
Z									

8.3 Billing Information

Start date (ccyymmdd)

End date (ccyymmdd)

- 8.3.1 Applicant to be billed as ☐ An Individual ☐ Via a WUA / WSP

- 8.3.2 Applicant to be charged ☐ On actual volume ☐ Registered volume

- 8.3.3 Billing frequency ☐ Annually ☐ Bi-annually ☐ Monthly

- 8.3.4** If to be billed via a WUA / WSP

Name of WUA / WSP

Is WUA / WSP a Billing Agent?

- ☐
- Yes

- ☐
- No

Billing Agent's Register Number

- 8.3.5** If this WU is to be billed via a Bulk Billing Party that is not a WSP / WUA, complete the following:

Name of Customer

Bulk-Bill-to-Party Register Number

8.4 Water Resource Information

If water source is a Government Water Scheme,
give the GWS name:

8.5 District Municipality

District Municipality Name (if applicable)

8.6 Late Registration Penalty

Is this a late registration?

☐ Yes☐ No

If yes, mark with an X, the applicable penalty to be levied

☐ R300.00 OR☐ 10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable

☐ Waive penalty

File number

[illegible]

Water Use Register Number

--	--	--	--	--	--	--	--

Received by:

Surname

Initials

[illegible]

Position / Rank

Signature

Captured on NRWU database
(ccyymmdd)

DATE	TIME	LOCATION	WIND	WAVE	SEA	WATER

Captured by:

Surname

Initials

1. *Phragmites australis* (Cav.) Trin. ex Steud.

Signature

Date stamp of receiving office



DEPARTMENT OF WATER AFFAIRS AND FORESTRY

SUPPLEMENTARY WATER USE INFORMATION
TAKING WATER FROM A WATER RESOURCE
PUMP TECHNICAL DATA

1. PUMP IDENTIFICATION			
1.1 Pump number (if more than one, enter a sequence number starting from 001)			008
1.2 Installation date			Y Y Y Y M M D D
1.3 Geographic location of the pump (use one format only)			
S 22° 08' 01.0" or S ° ' "		Cape datum Clarke <input type="checkbox"/>	
E 029° 38' 14.0" or E 0 ° ' "		WGS-84 datum <input checked="" type="checkbox"/>	
2. PUMPING HOURS			
2.1 Maximum pumping hours per week		068 h	2.2 Total pumping hours per year
			3538 h
3. PUMP DATA			
3.1 Pump type (mark one with X)			
<input type="checkbox"/> a) Centrifugal <input type="checkbox"/> b) Positive displacement <input checked="" type="checkbox"/> c) Turbine <input type="checkbox"/> d) Axial flow <input type="checkbox"/> e) Other (specify) _____			
3.2 Pump model <u>SUPER D T90/S-110</u>			
3.3 Pulley diameter			_____ mm
3.4 Speed			2900 rpm
3.5 Impeller size (only for a centrifugal pump)			_____ mm
3.6 Suction hose			
3.6.1 Hose material		_____	
3.6.2 Hose diameter		_____ mm	
3.6.3 Hose length		_____ m	
3.7 Type of flow meter (mark one with X)			
<input checked="" type="checkbox"/> a) Inline <input type="checkbox"/> b) Bypass <input type="checkbox"/> c) Doppler effect <input type="checkbox"/> d) None <input type="checkbox"/> e) Other (specify below) _____			
3.8 Pressure gauge reading			
At inlet =		3 m	At outlet =
			45 m

4. POWER SOURCE DATA

4.1 Power source type (mark one with X)

- ☒ a) Electric
 ☐ b) Diesel
 ☐ c) Petrol
 ☐ d) Tractor
 ☐ e) Wind
 ☐ f) Other (specify) _____

4.2 Model

FRANKLIN 2 POLE 400VAC 1SEW

4.3 Pulley diameter

 mm

4.4 Speed

 2900 rpm

4.5 Coupling:

a) Type (mark one with X)

- ☐ V-belt
 ☐ Flat belt
 ☐ Gearbox
 ☒ Direct
 ☐ Other (specify below) _____

b) For gearbox coupling or direct coupling, enter the ratio

 1 : 1

4.6 Power rating

 15 kW**5. PUMP OPERATION**

	Maximum pressure	Maximum discharge	Average operation	
5.1 Discharge	<input type="text"/>	<input type="text"/>	<input type="text"/> 15	litres / second
5.2 Suction height	<input type="text"/>	<input type="text"/>	<input type="text"/> 3	metres
5.3 Static height	<input type="text"/>	<input type="text"/>	<input type="text"/> 21	metres
5.4 Working height	<input type="text"/>	<input type="text"/>	<input type="text"/> 0	metres
5.5 Friction height	<input type="text"/>	<input type="text"/>	<input type="text"/> 19	metres
5.6 Other losses	<input type="text"/>	<input type="text"/>	<input type="text"/> 0	metres
5.7 Total head	<input type="text"/>	<input type="text"/>	<input type="text"/> 40	metres
5.8 Efficiency	<input type="text"/>	<input type="text"/>	<input type="text"/> 60	%
5.9 Power absorbed	<input type="text"/>	<input type="text"/>	<input type="text"/> 11.25	kilowatts
5.10 Ammeter reading	<input type="text"/>	<input type="text"/>	<input type="text"/>	amps

6. BOREHOLE INFORMATION (where applicable)

6.1 a) Borehole number

 BH-008

b) Geographic location of the borehole, if different from pump

☐ S or ☐ S or ☐ S Cape datum Clarke ☐
☐ E 0 or ☐ E 0 WGS-84 datum ☐

6.2 Yield of borehole

 litres / second

6.3 Depth of borehole

 metres

6.4 Previous authorisation or licensing reference

7.1 a) ESKOM reference number

or

S					
---	--	--	--	--	--

E	0				
---	---	--	--	--	--

or

S				
E	0			

WGS-84 datum

$\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ $\frac{1}{4} \times \frac{1}{4} = \frac{1}{16}$ $\frac{1}{16} \times \frac{1}{16} = \frac{1}{256}$ $\frac{1}{256} \times \frac{1}{256} = \frac{1}{65536}$	$\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ $\frac{1}{4} \times \frac{1}{4} = \frac{1}{16}$ $\frac{1}{16} \times \frac{1}{16} = \frac{1}{256}$ $\frac{1}{256} \times \frac{1}{256} = \frac{1}{65536}$
---	---

kVA

File number

Water Management Area

Surname

Initials

Rank

Signature

Captured by:

Initials

Date stamp of receiving office

PART 2 – SECTION 21(b)

- 1. RAW WATER DAM**
- 2. PROCESS HOLDING TANKS**
- 3. OPENCAST HOLDING TANK**

ASSOCIATED FORMS:

- 1. DW790 (Raw water dam only)**
- 2. DW793 (Not Applicable – outside definition of Dam Safety Classification)**



water affairs
 Department:
 Water Affairs
 REPUBLIC OF SOUTH AFRICA

Registration / Licensing

Section 21(b) of the National Water Act

Part 2

STORING WATER – DAM REGISTRATION

SPECIAL NOTE

This application form may be used for registering any of the following:

- a) A dam which can store more than 50 000 cubic meters and has a dam wall which is more than 5 meters high;
- b) A dam belonging to a category of dams declared under section 118(2) of the NWA to be dams with a safety risk; or declared under section 118(3)(a) of the NWA to be a dam with a safety risk;
- c) A dam which is deemed to be significant by the applicant or the relevant office.

Registration of:

☐ New Dam

(mark only one block with an X)

☒ Existing dam registered on NRWU

1. WATER USE DETAILS

1.1 Have you already registered a water use with the Department of Water Affairs and Forestry?

☐ Yes

☒ No

Registration Number:

--	--	--	--	--	--	--	--	--	--

Water Use Number:

--	--	--	--	--

☐ Licence Related WU

RLA Reference

--	--	--	--	--	--	--	--	--	--

NRWU Licence Number

								/		
--	--	--	--	--	--	--	--	---	--	--

RLA Business Unit

--	--	--	--	--	--	--	--	--	--

(NRWU = National Register of Water Use; RLA = Responsible Licensing Authority; WU = Water Use)

For office use only

Allocated Reg. No.

--	--	--	--	--	--	--	--

WU No.

--	--	--	--

1.2 Applicant Type (mark only one block with X)

- ☐ Individual (complete 1.3)
 ☐ Provincial Department (complete 1.6)
- ☒ Company, business, partnership or community (complete 1.4)
 ☐ Water Services Provider (complete 1.7)
- ☐ National Department (complete 1.5)
 ☐ Water User Association (complete 1.8)

1.3 If the applicant is an individual

1.3.1 Title Surname Initials

1.3.2 South African ID (if holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

Passport Expiry Date (ccyyymmdd)

Passport Country Of Issue

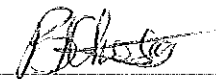
1.4 If the applicant is a company, business, partnership or community:**1.4.1** Name of company, business, partnership or community:
1.4.2 Business Enterprise Registration Number
1.4.3 Date Established (ccyyymmdd)

Country Where Established

1.5 If the applicant is a National Department:**1.5.1** National Department Name:
1.6 If the applicant is a Provincial Department:**1.6.1** Province:
1.6.2 Provincial Department Name:
1.7 If the applicant is a Water Services Provider:**1.7.1** Name of WSP:
1.8 If the applicant is a Water User Association:**1.8.1** Name of WUA:

Declaration by applicant

Delete the words that are not applicable I/we BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Signature

Company Representative

Designation of signatory



Thumb print

(011) 785 4518

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

2. SUCCESSION/TRANSFER AND SOURCE PART 2 DETAILS

- 2.1 Is this a Succession or a Transfer related Water Use?
(Mark only one box with an X)

☒ Yes

☐ No

- 2.2 If yes, mark with an X the Succession / Transfer Type

☐ Full Temporary Transfer

☐ Partial Temporary Transfer

☐ Permanent Transfer

☒ Succession in Title

- 2.3 Source Register Number

27019556

WU Number

Source Register Number

WU Number

Source Register Number

WU Number

3. GENERAL DAM INFORMATION

- 3.1 Name of the dam

RAW WATER DAM

- 3.2 If the water is to be stored in a watercourse, then enter the name of the watercourse

- 3.3 For off-stream storage, enter the name of the watercourse to which the water would naturally drain

LIMPOPO RIVER

- 3.4 Surname and initials or business name of designer or consultant

UNKNOWN

Initials

3.5 Surname and initials or business name of contractor

UNKNOWN

Initials

--	--	--	--

4. PURPOSE OF DAM

Identify the purpose that the dam is used for:

- ☐ Agriculture: Irrigation (DW787)
☐ Agriculture: Watering Livestock
☐ Agriculture: Aquaculture
☐ Industry

- ☒ Mining (DW788)
☐ Recreation
☐ Schedule 1
☐ Water Supply Service (DW789)

5. DAM SIZE AND BASIN INFORMATION

5.1 Date of completion of the dam (ccyymmdd)

20010525

5.2 Size of dam

a) Maximum wall height **

2.80

metres

** "wall height" is the vertical difference between the lowest downstream ground elevation on the dam wall and the non-overspill crest level or the general top level of the dam wall

b) Crest length of wall ***

480.00

metres

*** The length of the crest includes the length of the spillway, where applicable.

c) Gross storage capacity

21

thousand cubic metres

d) Water surface area at full supply level

1.24

hectares

5.3 Water depth at full supply level

1.80

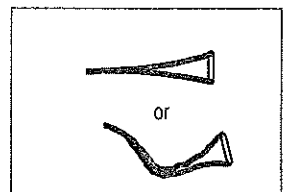
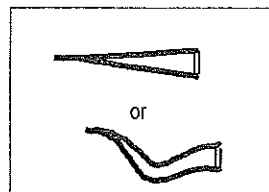
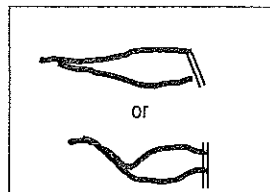
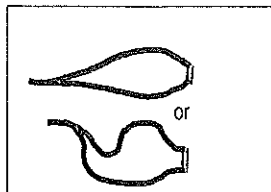
metres

5.4 For off-stream storage, select the most appropriate dam basin shape below

☐ Triangular☒ Rectangular☐ Circular☐ Branched

5.5 For in-stream storage, select the shape below that is most similar to the dam basin

(in these diagrams, flow is from left to right and the || symbol shows the position of the dam wall)

☐ Bulbous☐ Carrot☐ Triangle☐ Funnel

5.6 Dam basin dimensions

a) Length (or diameter if round)

145

metres

(for in-stream storage, measure along the centre-line)

b) Width (leave blank if round)

74

metres

(for in-stream storage, measure at the widest point)

6.4 Email Address NPretorius@coalofafrica.co.za

7. CLASSIFICATION INFORMATION

N/A

7.1 Has the dam been classified? ☐ Yes ☒ No (if no, complete form DW793: Dam Classification)

7.2 If the dam has been classified, then complete the following

[illegible]

Category classification (mark only one block with an X)

Size class (mark only one block with an X)

Hazard potential rating (mark only one block with X)

Small	Low
-------	-----

II	
Medium	
Significant	

III	
Large	
High	

8. DAM STRUCTURE

8.1 Type of dam (mark applicable type with an X – mark more than one for composite dams)

☐ Arch
 ☒ Earth reservoir
 ☐ Multi-arch
☐ Buttress
 ☐ Gravity
 ☐ Reinforced concrete reservoir
☐ Other (specify) _____

9. SPILLWAY INFORMATION

9.1 information about the spillway

a) Type of spillway (mark applicable type with an X -- mark more than one if necessary)

<input type="checkbox"/> By-wash	<input type="checkbox"/> Drop inlet	<input type="checkbox"/> Shaft
<input type="checkbox"/> Cascade	<input type="checkbox"/> Free fall (straight drop)	<input type="checkbox"/> Side channel
<input type="checkbox"/> Chute (baffled, etc.)	<input type="checkbox"/> Labyrinth	<input type="checkbox"/> Siphon
<input checked="" type="checkbox"/> Chute (lined)	<input type="checkbox"/> Morning glory	<input type="checkbox"/> Stepped
<input type="checkbox"/> Conduit	<input type="checkbox"/> Ogee (overflow)	<input type="checkbox"/> Other (describe)
<input type="checkbox"/> Culvert	<input checked="" type="checkbox"/> Open channel	

b) Crest length of spillway

1	50
---	----

 metres

c) Description of spillway gates, if any

d) Details on any auxiliary or second spillway

Location ("left bank", "saddle", etc.)

Nature or type of spillway

Crest length of auxiliary spillway

--	--	--	--	--	--	--	--	--	--

metres

9.2

Does the dam structure incorporate a fish ladder or fish way?

☐ Yes

☒ No

10. LOCATION OF DAM

10.1 Nearest city or town

MUSINA

10.2 Distance from nearest city or town

--	--	--	--	--	--	--	--	--	--

km

10.3 Direction to dam from nearest city or town



10.4 Number of 1:50 000 scale topographic map (or 1:10 000)

--	--	--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--	--	--

10.5 Geographic position of center of dam wall (in one format only)

Latitude S 22 ° 08 ' 06.3 " or S ° or S °

Longitude E 29 ° 38 ' 39.6 " or E ° or E °

Datum Type:

☐ Cape (Modified Clarke 1880)

☒ WGS-84

10.6 Geographic position of center of river at the point where the river crosses the dam wall (in one format only)

Latitude S ° or S ° or S °

Longitude E ° or E ° or E °

Datum Type:

☐ Cape (Modified Clarke 1880)

☐ WGS-84

10.7 Quaternary Drainage Region

--	--	--	--	--	--	--	--	--	--

11. WUA or WSP DETAILS

11.1 Is the dam controlled by a Water Use Association or Water Services Provider?

☐ WUA

☐ WSP

11.2 Name of Water User Association or Water Services Provider

12. EXISTING AUTHORISATION

12.1 Existing permit information

Permit number		Date (ccyymmdd)
Permit No.	Registration No 27019556	20010525
Permit No.		
Permit No.		
Permit No.		
Permit No.		
Permit No.		

12.2 If water use takes place in terms of the General Authorisation, mark with an X ☐

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

<u>Date(s) from which applicable GA is/was applicable to this water use</u>			
South African Act:		Applicable section of the act	
[E.g. National Water Act (Act No. 36 of 1998)]		[E.g. Section 21]	
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			

12.3 If an authorisation has been issued under other legislation

Law /Regulation

13. PROPERTY RELATIONSHIP DETAILS (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property				Property Relationship Date		
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)	From:	To:
Overclabte	T22619/2009	M1S	12S	S	Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		

14. FOR OFFICE USE ONLY**14.1 Billing information**

			Start date (ccyymmdd)	End date (ccyymmdd)
14.1.1	Applicant billed as:	<input type="checkbox"/> An Individual <input type="checkbox"/> Via a WUA/WSP	<input type="text"/>	<input type="text"/>
14.1.2	Applicant to be charged:	<input type="checkbox"/> On actual volume <input type="checkbox"/> Registered volume	<input type="text"/>	<input type="text"/>
14.1.3	Billing Frequency:	<input type="checkbox"/> Annually <input type="checkbox"/> Bi-annually <input type="checkbox"/> Monthly		

14.1.4 If to be billed via a WUA /WSP

Name of WUA/WSP

Is WUA/WSP a Billing Agent?

☐ Yes ☐ No

Billing Agent Register Number

14.1.5 If this WU is to be billed via Bulk Billing Party that is not a WSP/WUA, complete the following

Name of Customer

Bulk-Bill-to-Party Register Number

14.1.6 Is the Dam billable?☐ Yes ☐ No**14.1.7 Is this a Safety Risk Dam?**☐ Yes ☐ No**14.1.8 Annual Average Evaporative Loss**Start Date
(ccyymmdd)

Volume

14.2 District Municipality

District Municipality Name (if applicable)

14.3 Late Registration Penalty

Is this a late registration?

☐ Yes ☐ No

If yes, mark with an X, the applicable penalty to be levied

☐ R300.00 OR☐ 10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable

☐ Waive penalty

File number

[illegible]

Water Use Register Number

--	--	--	--	--	--	--	--

Received by:

Surname

Initials

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Position / Rank

Signature

Captured on NRWU database
(ccyymmdd)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	52
--	---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	----

Captured by:

Surname

Initials

© 2006 The Authors
Journal compilation © 2006 Blackwell Publishing Ltd

--	--	--	--

Signature _____

Date stamp of receiving office



DEPARTMENT OF WATER AFFAIRS AND FORESTRY

SUPPLEMENTARY WATER USE INFORMATION
STORING WATER
DAM AND BASIN TECHNICAL DATA

SPECIAL NOTE

In the following two cases:

- A proposed dam which has not yet been classified, or
 - An existing dam which will be enlarged by increasing the gross storage capacity,
- dam classification *must* take place before the licence application.

In these cases, complete *only* parts 1, 2, 3, and 4 of this form, and complete form DW793 (*Dam Classification*).**1. GENERAL**

1.1 Name of the dam:

RAW WATER DAM

1.2 If the water is to be stored in a watercourse, then enter the name of the watercourse:

1.3 For off-channel storage, enter the name of the watercourse to which the water would naturally drain:

LIMPOPO RIVER1.4 For **clean water** dams, give the purpose of the dam:(mark applicable purpose with *X* – mark more than one for multi-purpose dams):Domestic supply ☐Fisheries ☐Industrial use ☒Irrigation ☐Stock watering ☐Other (specify below) ☐Describe "other" 1.5 For **wastewater** dams, give the purpose of the dam:(mark applicable purpose with *X* – mark more than one for multi-purpose dams):Pollution control ☐Wastewater disposal ☐Industrial residue ☐Oxidation or evaporation ☐Mine residue ☐Other (specify below) ☐Describe "other"

1.6 Person in control of the dam

a) Surname and initials

PRETORIUS N

b) Contact telephone number

Area/cell code

011

Number

7854502

Extension

1.7 Person responsible for day-to-day operation of the dam

a) Surname and initials

b) Contact telephone number

Area/cell code

Number

Extension

2. COMPLETION DATE AND LOCATION OF DAM

2.1 Date of completion or proposed completion of the dam:

20010525

2.2 Nearest city or town

MUSINA

2.3 Distance from nearest city or town:

60 km

2.4 Direction to dam from nearest city or town:



2.5 Number of 1:50 000 scale topographic map (or 1:10 000 orthophoto):

2922 ()

(attach a copy of the relevant portion of this map, with the position of the dam clearly marked)

2.6 Geographic position of centre of dam wall:

S 22° 08' 06.3" or S 00° 00' 00.0" or S 00° 00' 00.0" Cape datum Clarke

E 012° 38' 39.6" E 00° 00' 00.0" E 00° 00' 00.0" WGS-84 datum

Cape datum Clarke

WGS-84 datum

3. CLASSIFICATION INFORMATION3.1 Has the dam been classified? Yes ☐ No ☒ (if no, please complete form DW793 - Dam Classification)

If the dam has been classified, then complete the following:

N/A

Date of classification of the dam

Y Y Y Y M M D D

Category classification (mark one with X)

I

II

III

Size class (mark one with X)

Small

Medium

Large

Hazard potential rating (mark one with X)

Low

Significant

High

4. DAM STRUCTURE AND DAM BASIN

4.1 Type of dam (mark applicable type with X – mark more than one for composite dams):

Earthfill ☐Rockfill ☐Gravity ☐Buttress ☐Arch ☐Multi-arch ☐Earth reservoir ☒Industrial residue deposit * ☐Reinforced concrete reservoir ☐Mine residue deposit * ☐

* These structures include tailings

Other (specify) ☐

4.2 Size of dam

Maximum wall height **

28 metres

** "wall height" is the vertical difference between the lowest downstream ground elevation on the dam wall and the non-overspill crest level or the general top level of the dam wall

Gross storage capacity

21 thousand cubic metres

Water surface area at full supply level

1.24 hectares

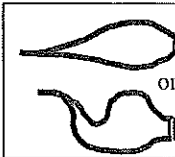
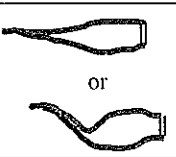
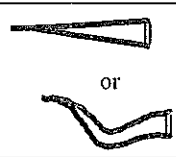
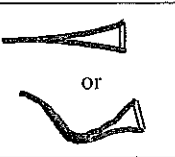
5. DIMENSIONS OF DAM AND DESCRIPTION OF MATERIALS

- 5.1 Crest length of wall *** metres
 *** The length of the crest includes the length of the spillway, where applicable.
- 5.2 Crest width of wall (minimum) metres
- 5.3 Base width of wall (maximum) metres
- 5.4 Upstream slope, e.g. 1.0 V : 3.0 H V : H
- 5.5 Downstream slope, e.g. 1.0 V : 2.25 H V : H
- 5.6 Type of upstream slope protection (e.g. rock, stone, etc.)
- 5.7 Type of downstream slope protection (e.g. grass, gravel, etc.)

General description of the construction materials for use in the different zones of the wall:

Zone	Description
O1 WALL	COMPACTED EARTH
O2 WEIR	CONCRETE

6. DAM BASIN CHARACTERISTICS

- 6.1 Water depth at full supply level metres
- 6.2 For off-stream storage, select the dam basin shape:
 Triangular ☐ Rectangular ☒ Circular ☐ Branched Y ☐
☐ Other (specify):
- 6.3 For in-stream storage, select the shape below that is most similar to the dam basin:
 (in these diagrams, flow is from left to right and the || symbol shows the position of the dam wall)
- a) ☐ 
- b) ☐ 
- c) ☐ 
- d) ☐ 
- 6.4 Dam basin dimensions:
 a) Length (or diameter if round) metres (for in-stream storage, measure along the centre-line)
 b) Width (leave blank if round) metres (for in-stream storage, measure at the widest point)

7. FLOOD HYDROLOGY

- 7.1 Catchment area N/A - above ground storage only ☐ square kilometres
 * for catchment areas less than 20 km², enter the area to the nearest 0.1 km²
- 7.2 Recurrence interval of design flood years
- 7.3 Design flood cubic metres / second
- 7.4 Regional maximum flood (RMF) cubic metres / second
- 7.5 Probable maximum flood (PMF) cubic metres / second

8. SPILLWAY**8.1 Main spillway details**

a) Type of spillway (mark applicable type with X – mark more than one if necessary):

- | | | |
|--|--|--|
| Free fall (straight drop) <input type="checkbox"/> | Ogee (overflow) <input type="checkbox"/> | Chute (lined) <input type="checkbox"/> |
| Stepped <input type="checkbox"/> | Open channel <input checked="" type="checkbox"/> | Side channel <input type="checkbox"/> |
| Conduit <input type="checkbox"/> | By-wash <input type="checkbox"/> | Shaft <input type="checkbox"/> |
| Culvert <input type="checkbox"/> | Labyrinth <input type="checkbox"/> | Chute (baffled, etc.) <input type="checkbox"/> |
| Morning glory <input type="checkbox"/> | Siphon <input type="checkbox"/> | Cascade <input type="checkbox"/> |
| Drop inlet <input type="checkbox"/> | Other (describe) <input type="checkbox"/> | <input type="text"/> |

- b) Total freeboard (difference between non-overspill crest level and full supply level) 0.5 metres
- c) Dry freeboard (difference between non-overspill crest level and design flood level) 0.2 metres
- d) Width of spillway channel at full supply level 1.5 metres
- e) Width of spillway channel at non-overspill crest level 1.5 metres
- f) Effective crest length of spillway metres
- g) Discharge capacity of spillway with "zero" freeboard m³/sec
- h) Length of spillway channel 5 metres
- j) Slope of spillway channel as a ratio of height to distance (e.g. 1.0V : 40.0 H) 1.0 V : 2 H
- k) Non-overspill crest level metres
- l) Spillway crest level (full supply level) metres
- m) Riverbed or lowest ground level immediately downstream of dam wall metres
- n) Description of spillway gates, if any
- o) Type of energy dissipator, if any Concrete Block + Stilling Chamber

8.2 Auxiliary or second spillway (if any): details

- a) Location of auxiliary spillway
- b) Auxiliary spillway nature or type
- c) Auxiliary spillway crest level metres
- d) Effective crest length of auxiliary spillway metres

8.3 Does the dam structure incorporate a fish ladder or fish way?

Yes

☐

No

☒

11. GEOLOGY

11.1 The general nature of the materials forming the foundation of the dam:

a) Left bank

b) River bed

c) Right bank

d) Spillway

12. GENERAL

12.1 Additional information with respect to spillway, outlet works, seepage control measures, geology, or any geotechnical aspects

FOR OFFICIAL USE ONLY

File number

--

Water use licence or registration number

--

Water Management Area

--

Received by:

Surname

--

Initials

--

Rank

--

Signature

--

Captured by:

Initials

--

--

Date stamp of receiving office



water affairs
 Department:
 Water Affairs
 REPUBLIC OF SOUTH AFRICA

Registration / Licensing

Section 21(b) of the National Water Act

Part 2

STORING WATER – DAM REGISTRATION

SPECIAL NOTE

This application form may be used for registering any of the following:

- a) A dam which can store more than 50 000 cubic meters and has a dam wall which is more than 5 meters high;
- b) A dam belonging to a category of dams declared under section 118(2) of the NWA to be dams with a safety risk; or declared under section 118(3)(a) of the NWA to be a dam with a safety risk;
- c) A dam which is deemed to be significant by the applicant or the relevant office.

Registration of:

(mark only one block with an X)

☒ New Dam

☐ Existing dam registered on NRWU

1. WATER USE DETAILS

1.1 Have you already registered a water use with the Department of Water Affairs and Forestry?

☐ Yes

☒ No

Registration Number:

--	--	--	--	--	--	--	--	--	--

Water Use Number:

--	--	--	--

☐ Licence Related WU

RLA Reference

--	--	--	--	--	--	--	--	--	--	--	--

NRWU Licence Number

								/			
--	--	--	--	--	--	--	--	---	--	--	--

RLA Business Unit

--	--	--	--	--	--	--	--	--	--	--	--

(NRWU = National Register of Water Use; RLA = Responsible Licensing Authority; WU = Water Use)

For office use only

Allocated Reg. No.

--	--	--	--	--	--	--	--

WU No.

--	--	--	--

1.2 Applicant Type (mark only one block with X)

- ☐ Individual (complete 1.3)
 ☐ Provincial Department (complete 1.6)
- ☒ Company, business, partnership or community (complete 1.4)
 ☐ Water Services Provider (complete 1.7)
- ☐ National Department (complete 1.5)
 ☐ Water User Association (complete 1.8)

1.3 If the applicant is an individual

1.3.1 Title Surname Initials

1.3.2 South African ID (if holder of South African id) alternatively Passport Number:

ID Number or Passport Number

Passport Expiry Date (ccyyymmdd)

Passport Country Of Issue

1.4 If the applicant is a company, business, partnership or community:**1.4.1** Name of company, business, partnership or community:

1.4.2 Business Enterprise Registration Number

1.4.3 Date Established (ccyyymmdd)

Country Where Established

1.5 If the applicant is a National Department:

1.5.1 National Department Name:

1.6 If the applicant is a Provincial Department:

1.6.1 Province:

1.6.2 Provincial Department Name:

1.7 If the applicant is a Water Services Provider:

1.7.1 Name of WSP:

1.8 If the applicant is a Water User Association:

1.8.1 Name of WUA:

Declaration by applicant

Delete the words that are not applicable I/we BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Signature

Company Representative

Designation of signatory



Thumb print

(01) 735 45 18

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

2. SUCCESSION/TRANSFER AND SOURCE PART 2 DETAILS

- 2.1 Is this a Succession or a Transfer related Water Use?
(Mark only one box with an X)

☐ Yes☒ No

- 2.2 If yes, mark with an X the Succession / Transfer Type

☐ Full Temporary Transfer☐ Partial Temporary Transfer☐ Permanent Transfer☐ Succession in Title

- 2.3 Source Register Number

--	--	--	--	--	--	--	--

WU Number

--	--	--	--

Source Register Number

--	--	--	--	--	--	--	--

WU Number

--	--	--	--

Source Register Number

--	--	--	--	--	--	--	--

WU Number

--	--	--	--

3. GENERAL DAM INFORMATION

- 3.1 Name of the dam

PROCESS HOLDING TANKS

- 3.2 If the water is to be stored in a watercourse, then enter the name of the watercourse

- 3.3 For off-stream storage, enter the name of the watercourse to which the water would naturally drain

LIMPOPO RIVER

- 3.4 Surname and initials or business name of designer or consultant

NA

Initials

--	--	--	--

3.5 Surname and initials or business name of contractor

N/A

Initials

--	--	--	--

4. PURPOSE OF DAM

Identify the purpose that the dam is used for:

- ☐ Agriculture: Irrigation (DW787)
☐ Agriculture: Watering Livestock
☐ Agriculture: Aquaculture
☐ Industry

- ☒ Mining (DW788)
☐ Recreation
☐ Schedule 1
☐ Water Supply Service (DW789)

5. DAM SIZE AND BASIN INFORMATION

5.1 Date of completion of the dam (ccyymmdd)

20100301

5.2 Size of dam

a) Maximum wall height ** (bank height)

3.60

metres

** "wall height" is the vertical difference between the lowest downstream ground elevation on the dam wall and the non-overspill crest level or the general top level of the dam wall

b) Crest length of wall ***

N/A

metres

*** The length of the crest includes the length of the spillway, where applicable.

c) Gross storage capacity

1

thousand cubic metres

d) Water surface area at full supply level

0.03

hectares

5.3 Water depth at full supply level

3.60

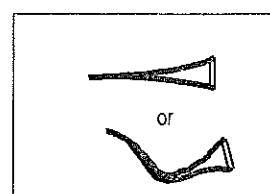
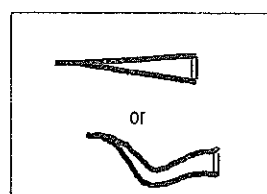
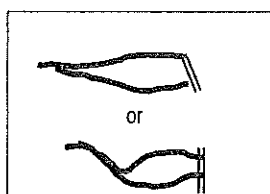
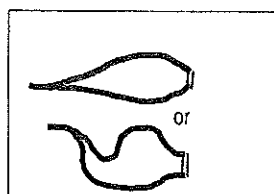
metres

5.4 For off-stream storage, select the most appropriate dam basin shape below

☐ Triangular☐ Rectangular☒ Circular☐ Branched Y

5.5 For in-stream storage, select the shape below that is most similar to the dam basin

(in these diagrams, flow is from left to right and the || symbol shows the position of the dam wall)

☐ Bulbous☐ Carrot☐ Triangle☐ Funnel

5.6 Dam basin dimensions

a) Length (or diameter if round)

10.6

metres

(for in-stream storage, measure along the centre-line)

b) Width (leave blank if round)

metres

(for in-stream storage, measure at the widest point)

6. CONTACT DETAILS OF PERSON IN CONTROL OF THE DAM

6.1 Surname PRETORIUS First Name NICO Title MR

6.2 Phone Number 0117854502 Ext

Fax Number 0866929728

6.3 Cellphone Number 0828240913

6.4 Email Address NPretorius@coalofafrica.co.za

7. CLASSIFICATION INFORMATION

N/A - Premanufactured Galaxy Tank

7.1 Has the dam been classified? ☐ Yes ☒ No (if no, complete form DW793: Dam Classification)

7.2 If the dam has been classified, then complete the following

Date of classification of the dam (ccyymmdd)

Category classification (mark only one block with an X)

Size class (mark only one block with an X)

Hazard potential rating (mark only one block with X)

I	II	III
Small	Medium	Large
Low	Significant	High

8. DAM STRUCTURE

8.1 Type of dam (mark applicable type with an X – mark more than one for composite dams)

- ☐ Arch ☐ Earth reservoir ☐ Multi-arch
☐ Buttress ☐ Gravity ☐ Reinforced concrete reservoir
☒ Other (specify) Steel tank

9. SPILLWAY INFORMATION

9.1 Information about the spillway

a) Type of spillway (mark applicable type with an X – mark more than one if necessary)

- | | | |
|--|--|---|
| <input type="checkbox"/> By-wash | <input type="checkbox"/> Drop inlet | <input type="checkbox"/> Shaft |
| <input type="checkbox"/> Cascade | <input type="checkbox"/> Free fall (straight drop) | <input type="checkbox"/> Side channel |
| <input type="checkbox"/> Chute (baffled, etc.) | <input type="checkbox"/> Labyrinth | <input type="checkbox"/> Siphon |
| <input type="checkbox"/> Chute (lined) | <input type="checkbox"/> Morning glory | <input type="checkbox"/> Stepped |
| <input type="checkbox"/> Conduit | <input type="checkbox"/> Ogee (overflow) | <input type="checkbox"/> Other (describe) |
| <input type="checkbox"/> Culvert | <input type="checkbox"/> Open channel | |

b) Crest length of spillway

 metres

c) Description of spillway gates, if any

d) Details on any auxiliary or second spillway

Location ("left bank", "saddle", etc.)

Nature or type of spillway

Crest length of auxiliary spillway

--	--	--	--	--	--	--	--	--	--

metres

9.2 Does the dam structure incorporate a fish ladder or fish way? ☐ Yes ☐ No

10. LOCATION OF DAM

10.1 Nearest city or town MUSINA

10.2 Distance from nearest city or town 60 km

10.3 Direction to dam from nearest city or town ☐ ↑ ☐ ↗ ☐ → ☐ ↘ ☐ ↓ ☐ ↙ ☐ ← ☒ ↖

10.4 Number of 1:50 000 scale topographic map (or 1:10 000) 2229 ()

10.5 Geographic position of center of dam wall (in one format only)

Latitude S 22° 10' 26.0" or S ° ' " or S ° ' "

Longitude E 29° 40' 21.0" or E ° ' " or E ° ' "

Datum Type: ☐ Cape (Modified Clarke 1880) ☒ WGS-84

10.6 Geographic position of center of river at the point where the river crosses the dam wall (in one format only)

Latitude S ° ' " or S ° ' " or S ° ' "

Longitude E ° ' " or E ° ' " or E ° ' "

Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84

10.7 Quaternary Drainage Region A71L

11. WUA or WSP DETAILS

11.1 Is the dam controlled by a Water Use Association or Water Services Provider? ☐ WUA ☐ WSP

11.2 Name of Water User Association or Water Services Provider

12. EXISTING AUTHORISATION

12.1 Existing permit information

Permit number	Date (ccyymmdd)										
Permit No. _____	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
Permit No. _____	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
Permit No. _____	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
Permit No. _____	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
Permit No. _____	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										
Permit No. _____	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										

12.2 If water use takes place in terms of the General Authorisation, mark with an X ☐

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

<u>Date(s) from which applicable GA is/was applicable to this water use</u>																			
South African Act:		Applicable section of the act																	
[E.g. National Water Act (Act No. 36 of 1998)]		[E.g. Section 21]																	
Date From (ccyymmdd)	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>									Government Notice No.	<table border="1"><tr><td></td><td></td><td></td><td></td></tr></table>								
Date To (ccyymmdd)	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>									Government Notice Date (ccyymmdd)	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>								
Applicable Section Of The General Authorisation																			
Date From (ccyymmdd)	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>									Government Notice No.	<table border="1"><tr><td></td><td></td><td></td><td></td></tr></table>								
Date To (ccyymmdd)	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>									Government Notice Date (ccyymmdd)	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>								
Applicable Section Of The General Authorisation																			
Date From (ccyymmdd)	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>									Government Notice No.	<table border="1"><tr><td></td><td></td><td></td><td></td></tr></table>								
Date To (ccyymmdd)	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>									Government Notice Date (ccyymmdd)	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>								
Applicable Section Of The General Authorisation																			

12.3 If an authorisation has been issued under other legislation

Law /Regulation

--

13. PROPERTY RELATIONSHIP DETAILS (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property				Property Relationship Date		
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)	From:	To:
Bergan Op Zoom	T12375/2009	MS	124	RE	Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		

14. FOR OFFICE USE ONLY

14.1 Billing information

14.1.1 Applicant billed as: ☐ An Individual ☐ Via a WUA/WSP Start date (ccyymmdd) End date (ccyymmdd)

14.1.2 Applicant to be charged: ☐ On actual volume ☐ Registered volume

14.1.3 Billing Frequency: ☐ Annually ☐ Bi-annually ☐ Monthly

14.1.4 If to be billed via a WUA /WSP

Name of WUA/WSP

Is WUA/WSP a Billing Agent?

☐ Yes ☐ No

Billing Agent Register Number

14.1.5 If this WU is to be billed via Bulk Billing Party that is not a WSP/WUA, complete the following

Name of Customer

Bulk-Bill-to-Party Register Number

14.1.6 Is the Dam billable? ☐ Yes ☐ No

14.1.7 Is this a Safety Risk Dam? ☐ Yes ☐ No

14.1.8 Annual Average Evaporative Loss Start Date (ccyymmdd) Volume

14.2 District Municipality

District Municipality Name (if applicable)

14.3 Late Registration Penalty

Is this a late registration? ☐ Yes ☐ No

If yes, mark with an X, the applicable penalty to be levied

☐ R300.00 OR☐ 10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable

☐ Waive penalty

File number

[illegible]

Water Use Register Number

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

Received by:

Surname

initials

Position / Rank

Signature

Captured on NRWU database
(ccyymmdd)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

Captured by:

Surname

Initials

Signature _____

Date stamp of receiving office



Registration / Licensing

Section 21(b) of the National Water Act

Part 2

STORING WATER – DAM REGISTRATION

SPECIAL NOTE

This application form may be used for registering any of the following:

- a) A dam which can store more than 50 000 cubic meters and has a dam wall which is more than 5 meters high;
- b) A dam belonging to a category of dams declared under section 118(2) of the NWA to be dams with a safety risk; or declared under section 118(3)(a) of the NWA to be a dam with a safety risk;
- c) A dam which is deemed to be significant by the applicant or the relevant office.

Registration of:

(mark only one block with an X)

☒ New Dam

☐ Existing dam registered on NRWU

1. WATER USE DETAILS

1.1 Have you already registered a water use with the Department of Water Affairs and Forestry?

☐ Yes

☒ No

Registration Number:

--	--	--	--	--	--	--	--	--	--

Water Use Number:

--	--	--	--	--

☐ Licence Related WU

RLA Reference

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

NRWU Licence Number

										/					
--	--	--	--	--	--	--	--	--	--	---	--	--	--	--	--

RLA Business Unit

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

(NRWU = National Register of Water Use; RLA = Responsible Licensing Authority; WU = Water Use)

For office use only

Allocated Reg. No.

--	--	--	--	--	--	--	--	--	--

WU No.

--	--	--	--	--

1.2 Applicant Type (mark only one block with X)

- ☐ Individual (complete 1.3)
 ☐ Provincial Department (complete 1.6)
- ☒ Company, business, partnership or community (complete 1.4)
 ☐ Water Services Provider (complete 1.7)
- ☐ National Department (complete 1.5)
 ☐ Water User Association (complete 1.8)

1.3 If the applicant is an individual

1.3.1 Title Surname Initials

1.3.2 South African ID (if holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

Passport Expiry Date (ccymmdd)

Passport Country Of Issue

1.4 If the applicant is a company, business, partnership or community:**1.4.1** Name of company, business, partnership or community:

1.4.2 Business Enterprise Registration Number

1.4.3 Date Established (ccymmdd)

Country Where Established

1.5 If the applicant is a National Department:

1.5.1 National Department Name:

1.6 If the applicant is a Provincial Department:

1.6.1 Province:

1.6.2 Provincial Department Name:

1.7 If the applicant is a Water Services Provider:

1.7.1 Name of WSP:

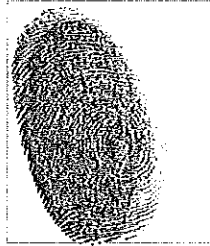
1.8 If the applicant is a Water User Association:

1.8.1 Name of WUA:

Declaration by applicant

Delete the words that are not applicable I/we BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.

Baldwin Khosa
Signature
Company Representative
Designation of signatory



Thumb print

(011) 785 4518
Contact number during office hours
2009/11/05
Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

2. SUCCESSION/TRANSFER AND SOURCE PART 2 DETAILS

- 2.1 Is this a Succession or a Transfer related Water Use? ☐ Yes
(Mark only one box with an X) ☒ No
- 2.2 If yes, mark with an X the Succession / Transfer Type ☐ Full Temporary Transfer ☐ Partial Temporary Transfer
☐ Permanent Transfer ☐ Succession in Title
- 2.3 Source Register Number

--	--	--	--	--	--	--	--

 WU Number

--	--	--	--	--	--

Source Register Number

--	--	--	--	--	--	--	--

 WU Number

--	--	--	--	--	--

Source Register Number

--	--	--	--	--	--	--	--

 WU Number

--	--	--	--	--	--

3. GENERAL DAM INFORMATION

- 3.1 Name of the dam OPENCAST HOLDING TANK
- 3.2 If the water is to be stored in a watercourse, then enter the name of the watercourse
- 3.3 For off-stream storage, enter the name of the watercourse to which the water would naturally drain
LIMPOPO RIVER
- 3.4 Surname and initials or business name of designer or consultant N/A Initials

--	--	--	--

3.5 Surname and initials or business name of contractor

N/A

Initials

--	--	--	--

4. PURPOSE OF DAM

Identify the purpose that the dam is used for:

- ☐ Agriculture: Irrigation (DW787)
☐ Agriculture: Watering Livestock
☐ Agriculture: Aquaculture
☐ Industry

- ☒ Mining (DW788)
☐ Recreation
☐ Schedule 1
☐ Water Supply Service (DW789)

5. DAM SIZE AND BASIN INFORMATION

5.1 Date of completion of the dam (ccyymmdd)

20100301

5.2 Size of dam

a) Maximum wall height ** (tank height)

3.6

metres

** "wall height" is the vertical difference between the lowest downstream ground elevation on the dam wall and the non-overspill crest level or the general top level of the dam wall

b) Crest length of wall ***

metres

*** The length of the crest includes the length of the spillway, where applicable.

c) Gross storage capacity

0.5

thousand cubic metres

d) Water surface area at full supply level

0.02

hectares

5.3 Water depth at full supply level

3.6

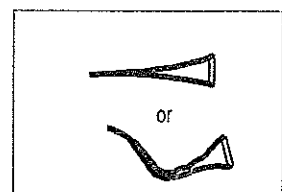
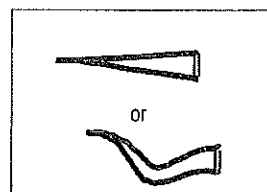
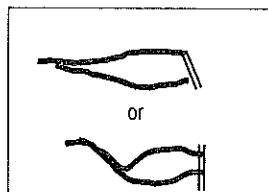
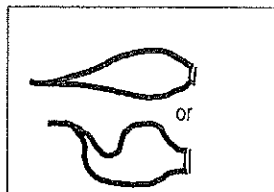
metres

5.4 For off-stream storage, select the most appropriate dam basin shape below

☐ Triangular☐ Rectangular☒ Circular☐ Branched Y

5.5 For in-stream storage, select the shape below that is most similar to the dam basin

(in these diagrams, flow is from left to right and the || symbol shows the position of the dam wall)

☐ Bulbous☐ Carrot☐ Triangle☐ Funnel

5.6 Dam basin dimensions

a) Length (or diameter if round)

10.6

metres

(for in-stream storage, measure along the centre-line)

b) Width (leave blank if round)

metres

(for in-stream storage, measure at the widest point)

6. CONTACT DETAILS OF PERSON IN CONTROL OF THE DAM

6.1 Surname PRETORIUS First Name NICO Title MR

6.2 Phone Number 0117854502 Ext

Fax Number 0866929728

6.3 Cellphone Number 0828240913

6.4 Email Address NPretorius@coalofafrica.co.za

7. CLASSIFICATION INFORMATION N/A - Premanufactured Galaxy Tank

7.1 Has the dam been classified? ☐ Yes ☒ No (if no, complete form DW793: Dam Classification)

7.2 If the dam has been classified, then complete the following

Date of classification of the dam (ccyymmdd)

Category classification (mark only one block with an X)

Size class (mark only one block with an X)

Hazard potential rating (mark only one block with X)

I	II	III
Small	Medium	Large
Low	Significant	High

8. DAM STRUCTURE

8.1 Type of dam (mark applicable type with an X – mark more than one for composite dams)

<input type="checkbox"/> Arch	<input type="checkbox"/> Earth reservoir	<input type="checkbox"/> Multi-arch
<input type="checkbox"/> Buttress	<input type="checkbox"/> Gravity	<input type="checkbox"/> Reinforced concrete reservoir
<input checked="" type="checkbox"/> Other (specify) <u>Steel tank</u>		

9. SPILLWAY INFORMATION

9.1 Information about the spillway

a) Type of spillway (mark applicable type with an X – mark more than one if necessary)

<input type="checkbox"/> By-wash	<input type="checkbox"/> Drop inlet	<input type="checkbox"/> Shaft
<input type="checkbox"/> Cascade	<input type="checkbox"/> Free fall (straight drop)	<input type="checkbox"/> Side channel
<input type="checkbox"/> Chute (baffled, etc.)	<input type="checkbox"/> Labyrinth	<input type="checkbox"/> Siphon
<input type="checkbox"/> Chute (lined)	<input type="checkbox"/> Morning glory	<input type="checkbox"/> Stepped
<input type="checkbox"/> Conduit	<input type="checkbox"/> Ogee (overflow)	<input type="checkbox"/> Other (describe)
<input type="checkbox"/> Culvert	<input type="checkbox"/> Open channel	

b) Crest length of spillway

 metres

c) Description of spillway gates, if any

d) Details on any auxiliary or second spillway

Location ("left bank", "saddle", etc.)

Nature or type of spillway

Crest length of auxiliary spillway

--	--	--	--	--	--	--	--	--	--

metres

9.2 Does the dam structure incorporate a fish ladder or fish way? ☐ Yes ☐ No

10. LOCATION OF DAM

10.1 Nearest city or town MUSINA

10.2 Distance from nearest city or town 60 km

10.3 Direction to dam from nearest city or town ☐ ↑ ☐ ↗ ☐ → ☐ ↘ ☐ ↓ ☐ ↙ ☐ ← ☒ ↖

10.4 Number of 1:50 000 scale topographic map (or 1:10 000) 2229 ()

10.5 Geographic position of center of dam wall (in one format only)

Latitude S 22° 10' 29.8" or S ° or S °

Longitude E 29° 40' 37.6" or E ° or E °

Datum Type: ☐ Cape (Modified Clarke 1880) ☒ WGS-84

10.6 Geographic position of center of river at the point where the river crosses the dam wall (in one format only)

Latitude S ° or S °

Longitude E ° or E °

Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84

10.7 Quaternary Drainage Region A71L

11. WUA or WSP DETAILS

11.1 Is the dam controlled by a Water Use Association or Water Services Provider? ☐ WUA ☐ WSP

11.2 Name of Water User Association or Water Services Provider

12. EXISTING AUTHORISATION

12.1 Existing permit information

Permit number	Date (ccyymmdd)
Permit No. _____	<input type="text"/>
Permit No. _____	<input type="text"/>
Permit No. _____	<input type="text"/>
Permit No. _____	<input type="text"/>
Permit No. _____	<input type="text"/>
Permit No. _____	<input type="text"/>

12.2 If water use takes place in terms of the General Authorisation, mark with an X ☐

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

<u>Date(s) from which applicable GA is/was applicable to this water use</u>			
South African Act:		Applicable section of the act	
[E.g. National Water Act (Act No. 36 of 1998)]		[E.g. Section 21]	
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			

12.3 If an authorisation has been issued under other legislation

Law /Regulation _____

13. PROPERTY RELATIONSHIP DETAILS (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property				Property Relationship Date		
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)	From:	To:
Bergen Op Zoom	T12375/2009	W15	124	RE	Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		

14. FOR OFFICE USE ONLY

14.1 Billing information

			Start date (ccyymmdd)	End date (ccyymmdd)
14.1.1	Applicant billed as:	<input type="checkbox"/> An Individual <input type="checkbox"/> Via a WUA/WSP	<input type="text"/>	<input type="text"/>
14.1.2	Applicant to be charged:	<input type="checkbox"/> On actual volume <input type="checkbox"/> Registered volume	<input type="text"/>	<input type="text"/>
14.1.3	Billing Frequency:	<input type="checkbox"/> Annually <input type="checkbox"/> Bi-annually <input type="checkbox"/> Monthly		

14.1.4 If to be billed via a WUA /WSP

Name of WUA/WSP

Is WUA/WSP a Billing Agent?

☐ Yes ☐ No

Billing Agent Register Number

14.1.5 If this WU is to be billed via Bulk Billing Party that is not a WSP/WUA, complete the following

Name of Customer

Bulk-Bill-to-Party Register Number

14.1.6 Is the Dam billable?

☐ Yes ☐ No

14.1.7 Is this a Safety Risk Dam?

☐ Yes ☐ No

14.1.8 Annual Average Evaporative Loss

Start Date (ccyymmdd)

Volume

14.2 District Municipality

District Municipality Name (if applicable)

14.3 Late Registration Penalty

Is this a late registration?

☐ Yes ☐ No

If yes, mark with an X, the applicable penalty to be levied

☐ R300.00 OR☐ 10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable

☐ Waive penalty

File number

[illegible]

Water Use Register Number

[illegible]

Received by:

Surname

initials

Position / Rank

Signature

--

Captured on NRWU database
(ccyymmdd)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

Captured by:

Surname

© 2017 Pearson Education, Inc. or its affiliate(s). All rights reserved.

Initials

Signature

Date stamp of receiving office

PART 2 – SECTION 21(c)

- 1. MAIN HAUL ROAD CULVERT**
- 2. ACCESS ROAD CULVERT #1**
- 3. ACCESS ROAD CULVERT #2**
- 4. ACCESS ROAD CULVERT #3**
- 5. ACCESS ROAD CULVERT #4**

ASSOCIATED FORMS:

- 1. DW781suppl – Available information contained in the attached IWWMP and associated specialist reports.**



water affairs
 Department:
 Water Affairs
 REPUBLIC OF SOUTH AFRICA

Registration / Licensing

Section 21(c) of the National Water Act

Part 2

IMPEDING OR DIVERTING THE FLOW OF WATER IN A WATERCOURSE

SPECIAL NOTE

This form is not applicable to any structure that is capable of containing, storing or impounding water.
 For these structures, please complete form DW762

1. GENERAL INFORMATION

Mark the applicable option(s) with an X and/or complete details where applicable/available.

1.1 Have you already registered a water use with the
 Department of Water Affairs and Forestry?

☐ Yes

☒ No

Registration Number:

--	--	--	--	--	--	--	--	--	--

Water Use Number:

--	--	--	--

☐ Licence Related WU

RLA Reference

--	--	--	--	--	--	--	--	--	--	--	--

NRWU Licence Number

									/		
--	--	--	--	--	--	--	--	--	---	--	--

RLA Business Unit

--	--	--	--	--	--	--	--	--	--	--	--

(NRWU = National Register of Water Use; RLA = Responsible Licensing Authority; WU = Water Use)

1.2 Applicant Type (mark only one block with X)

☐ Individual (complete 1.3)

☒ Company, business, partnership or community (complete 1.4)

☐ National Department (complete 1.5)

☐ Provincial Department (complete 1.6)

☐ Water Services Provider (complete 1.7)

☐ Water User Association (complete 1.8)

1.3 If the applicant is an individual

1.3.1

Title

--	--	--	--	--	--	--	--

Surname

--	--	--	--	--	--	--	--	--	--	--	--

Initials

--	--	--	--	--

For office use only

Allocated Reg. No.

--	--	--	--	--	--	--	--

WU No.

--	--	--	--

- 1.3.2 South African ID (if holder of South African Id) alternatively Passport Number:**

ID Number or Passport Number

[illegible]

Passport Expiry Date (ccyyymmdd)

[illegible]

Passport Country Of Issue

- 1.4** If the applicant is a company, business, partnership or community:

- 1.4.1** Name of company, business, partnership or community:

LIMPOPO COAL COMPANY (PTY) LTD

- #### 1.4.2 Business Enterprise Registration Number

		006072107
--	--	-----------

- 1.4.3** **Date Established (ccyymmdd)**

2	0	0	5	0	2	2	4
---	---	---	---	---	---	---	---

Country Where Established

ESF

- 1.5 If the applicant is a National Department:**

- 1.5.1** National Department Name:

[illegible]

- 1.6 If the property owner is a Provincial Department:**

- 1.6.1** Province:

[illegible]

- 1.6.2** Provincial Department Name:

[illegible]

- 1.7 If the applicant is a Water Services Provider:**

- 1.7.1 Name of WSP:

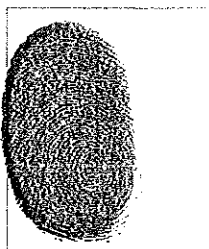
[illegible]

- 1.8 If the applicant is a Water User Association:**

- 1.8.1 Name of WUA:

Declaration by applicant

Delete the words that are not applicable I/~~we~~ BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Thumb print

Signature

Designation of signatory

Designation of signatory

(011) 785 4518

Contact number during office hours

2009/11/00

Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

2. SUCCESSION/TRANSFER AND SOURCE PART 2 DETAILS

2.1 Is this a succession Related Water Use? ☐ Yes
(Mark only one box with an X)

☒ No

2.2 If yes, complete the following source details:

2.3 Source Register Number	<input type="text"/>	WU Number	<input type="text"/>
Source Register Number	<input type="text"/>	WU Number	<input type="text"/>
Source Register Number	<input type="text"/>	WU Number	<input type="text"/>

3. NATURE OF ACTIVITY (mark one category with X and enter any details required)

3.1 Registration of (mark only one block with X) ☒ Impeding flow (complete part 3,4,6 and 7)
☐ Diverting flow (complete part 3,5,6 and 7)

4. WATER RESOURCE INFORMATION

4.1 Name of water source (watercourse, surface water or estuary)

UNNAMED TRIBUTARY OF LIMPOPO RIVER

4.2 Type of water source (mark with an X)

☒ River or stream ☐ Spring ☐ Estuary ☐ Wetland ☐ Eye

4.3 Quaternary Drainage Region

A71L

5. IMPEDING THE FLOW IN A WATERCOURSE

5.1 Geographic location of the impedance (in one format only)

Latitude S 22° 10' 16.9" or S ° ' " or S ° ' "

Longitude E 29° 40' 44.8" or E ° ' " or E ° ' "

Datum Type: ☐ Cape (Modified Clarke 1880) ☒ WGS-84

5.2 Name of Impeding structure

MAIN HAUL ROAD CULVERT

5.3 Impeding structure

a) Height of structure*

1	2	metres
---	---	--------

* "Height" is the vertical difference between the lowest downstream ground elevation on the structure and the crest level or the general top level of the structure

b) Width of structure (measured at widest part of the structure)

			7
--	--	--	---

 metres

c) Length of structure

			3	4
--	--	--	---	---

 metres

d) Materials used in building the structure (list)

PREF-CAST BOX CULVERTS

5.4 Enter the number of impending structures on this property

1. **Introduction**

6. DIVERTING THE FLOW IN A WATERCOURSE

6.1 Geographic location of the diversion

a) Geographic location of the start of the diversion (in one format only)

Latitude S 10° 00' 00" or S 10° 00' 00" or S 10° 00' 00"

Longitude

E	°		'	"
---	---	--	---	---

 or

E	°		'	"
---	---	--	---	---

 or

E	°		'	"
---	---	--	---	---

Datum Type:

☐ Cape (Modified Clarke 1880)

☐ WGS-84

b) Geographic location of the end of the diversion (in one format only)

Latitude S ° ' " or S ° ' " or S ° ' "

Longitude E ° , " or E ° or E °

Datum Type:

☐ Cape (Modified Clarke 1880)☐ WGS-84

6.2 Name of Diversion structure

Figure 1. The effect of the number of trials on the number of correct responses. The number of correct responses was plotted against the number of trials for each condition. The number of correct responses increased with the number of trials for all conditions. The number of correct responses was highest for the condition with the highest number of trials (10 trials) and lowest for the condition with the lowest number of trials (2 trials).

6.3 Diversion structure

a) Height of structure*

--	--	--	--	--

 metres

* "Height" is the vertical difference between the lowest downstream ground elevation on the structure and the crest level or the general top level of the structure

b) Width of structure (measured at widest part of the structure)

--	--	--

 metres

c) Length of diversion along the watercourse (mark units with X)

--	--	--	--

☐ kilometers ☐ metres

d) Materials used in building the structure

6.4 Enter the number of diversion structures on this property

The diagram illustrates a two-dimensional lattice structure. A central point is labeled i . A bond connecting this point to a neighbor is labeled b . A unit vector along this bond is labeled e_b . A distance r is indicated between two points.

7. ACTIVITY AFFECTING FLOW IN WATERCOURSE

7.1 Description of activity (mark only one block with X)

☐ Diversion through a pipe

☐ Diversion through a canal

☒ Impeding structure

☐ Other diversion (specify below)

7.2 Start date of activity (ccyyymmdd)

20100301

7.3 Flow rate before diversion or impedance

26.5

cubic metres per second

7.4 Flow rate after diversion or impedance

26.5

cubic metres per second

7.5 Purpose of the activity (e.g. "to continue with mining")

HAUL ROAD

7.6 If the activity is mining-related, complete the following

e) Distance of the mining-related activity from the original watercourse

800

metres

f) Distance of the mining-related activity from the watercourse after impedance or diversion

800

metres

g) Depth of undermining of watercourse, if applicable

metres

h) Mining method used in c), (if any)

OPENCAST

8. DESCRIPTION OF WATER USE SECTOR(S)

8.1 Where applicable select one more of the following water use sectors

☐ Agriculture: Aquaculture

☐ Industry (Urban)

☐ Agriculture: Irrigation

☒ Mining

☐ Agriculture: Watering Livestock

☐ Power Generation

☐ Evaporation (Storage)

☐ Recreation

☐ Industry (Non-urban)

☐ Water Supply Service

9. EXISTING AUTHORISATION

9.1 Water use started on (ccyymmdd)

9.2 If this is an existing water use, mark with X and enter permit numbers ☐

Permit number	Date (ccyymmdd)
Permit No. <input type="text"/>	<input type="text"/>
Permit No. <input type="text"/>	<input type="text"/>
Permit No. <input type="text"/>	<input type="text"/>
Permit No. <input type="text"/>	<input type="text"/>
Permit No. <input type="text"/>	<input type="text"/>
Permit No. <input type="text"/>	<input type="text"/>

9.3 If water use takes place in terms of the General Authorisation, mark with an X ☐

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

Date(s) from which applicable GA is/was applicable to this water use	
South African Act: [E.g. National Water Act (Act No. 36 of 1998)]	Applicable section of the act [E.g. Section 21]
Date From (ccyymmdd) <input type="text"/>	Government Notice No. <input type="text"/>
Date To (ccyymmdd) <input type="text"/>	Government Notice Date (ccyymmdd) <input type="text"/>
Applicable Section Of The General Authorisation <input type="text"/>	
Date From (ccyymmdd) <input type="text"/>	Government Notice No. <input type="text"/>
Date To (ccyymmdd) <input type="text"/>	Government Notice Date (ccyymmdd) <input type="text"/>
Applicable Section Of The General Authorisation <input type="text"/>	
Date From (ccyymmdd) <input type="text"/>	Government Notice No. <input type="text"/>
Date To (ccyymmdd) <input type="text"/>	Government Notice Date (ccyymmdd) <input type="text"/>
Applicable Section Of The General Authorisation <input type="text"/>	

9.4 If an authorisation has been issued under other legislation

Law /Regulation

10. PROPERTY RELATIONSHIP DETAILS (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property				Property Relationship		
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)	Date	To:
Bergen Op Zoom 124 MS	T 12375/2009	MS	124	RE	Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		

11. FOR OFFICE USE ONLY

11.1 List of attached forms and documents

11.1.1 Specify the number of other documents submitted with this form, if any

- ☐ Motivation for the proposed diversion or impedance

- ☐
- Environment impact assessment

--	--

- ☐ Certified copy of agreement from each property owner involved, if more than one

--	--

11.1.2 Specify the other documents submitted with this form

- ☐
- Other: (specify) _____

D	W
D	W
D	W
D	W

- ☐
- Other: (specify) _____

- ☐
- Other: (specify) _____

- ☐
- Other: (specify) _____

11.2 Succession/Transfer and source Part 2 details

Source Register number

WU Number

WU Status to be allocated

WU Close Date (if applicable)
(ccyyymmdd)

[illegible]

11.3 District Municipality

District Municipality Name (if applicable)

11.4 Late Registration Penalty

Is this a late registration?

- ☐
- Yes

- ☐
- No

If yes, mark with an X, the applicable penalty to be levied

- ☐
- R300.00 OR

☐ 10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable

$\mathcal{H}^1(\mathbb{R}^n) \subset \mathcal{H}^1(\mathbb{R}^n)$ and $\mathcal{H}^1(\mathbb{R}^n) \subset \mathcal{H}^1(\mathbb{R}^n)$

- ☐
- Waive penalty

File number

[illegible]

Water Use Register Number

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

Received by:

Surname

initials

--	--	--	--

Position / Rank

Signature

Captured on NRWU database
(ccyyymmdd)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	52
--	---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	----

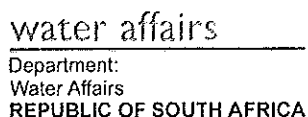
Captured by:

Surname

Initials

Signature

Date stamp of receiving office



Section 21(c) of the National Water Act

IMPEDING OR DIVERTING THE FLOW OF WATER IN A WATERCOURSE

This form is not applicable to any structure that is capable of containing, storing or impounding water.
For these structures, please complete form DW762

Mark the applicable option(s) with an X and/or complete details where applicable/available.

☒ No[illegible]

--	--	--	--

RLA Reference

[illegible]

NRWU Licence Number

[illegible]

RLA Business Unit

[illegible]

(NRWU = National Register of Water Use; RLA = Responsible Licensing Authority; WU = Water Use)

☐ Individual (complete 1.3)

☒ Company, business, partnership or community (complete 1.4)

☐ National Department (complete 1.5)☐ Provincial Department (complete 1.6)☐ Water Services Provider (complete 1.7)☐ Water User Association (complete 1.8)

1.3.1

Title

Surname

Initials

Allocated Reg. No.

WU No.

1.3.2 South African ID (if holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

Passport Expiry Date (ccyyymmdd)

Passport Country Of Issue

1.4 If the applicant is a company, business, partnership or community:

1.4.1 Name of company, business, partnership or community:

LIMPOPO COAL COMPANY (PTY) LTD

1.4.2 Business Enterprise Registration Number

006072107

1.4.3 Date Established (ccyyymmdd)

20050224

Country Where Established

RSA

1.5 If the applicant is a National Department:

1.5.1 National Department Name:

1.6 If the property owner is a Provincial Department:

1.6.1 Province:

1.6.2 Provincial Department Name:

1.7 If the applicant is a Water Services Provider:

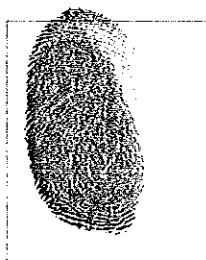
1.7.1 Name of WSP:

1.8 If the applicant is a Water User Association:

1.8.1 Name of WUA:

Declaration by applicant

Delete the words that are not applicable I/we BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Thumb print

Signature

Designation of signatory

(011) 785 4518

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

2. SUCCESSION/TRANSFER AND SOURCE PART 2 DETAILS

- 2.1 Is this a succession Related Water Use? ☐ Yes
(Mark only one box with an X)
☒ No

2.2 If yes, complete the following source details:

- 2.3 Source Register Number

--	--	--	--	--	--	--	--	--	--

 WU Number

--	--	--	--	--	--	--	--	--	--
- Source Register Number

--	--	--	--	--	--	--	--	--	--

 WU Number

--	--	--	--	--	--	--	--	--	--
- Source Register Number

--	--	--	--	--	--	--	--	--	--

 WU Number

--	--	--	--	--	--	--	--	--	--

3. NATURE OF ACTIVITY (mark one category with X and enter any details required)

- 3.1 Registration of (mark only one block with X) ☒ Impeding flow (complete part 3,4,6 and 7)
☐ Diverting flow (complete part 3,5,6 and 7)

4. WATER RESOURCE INFORMATION

- 4.1 Name of water source (watercourse, surface water or estuary)
UNNAMED TRIBUTARY OF LIMPOPO RIVER
- 4.2 Type of water source (mark with an X)
☒ River or stream ☐ Spring ☐ Estuary ☐ Wetland ☐ Eye
- 4.3 Quaternary Drainage Region

A	7	1	L
---	---	---	---

5. IMPEDING THE FLOW IN A WATERCOURSE

5.1 Geographic location of the impedance (in one format only)

Latitude S 22° 14' 08.0" or S

--	--	--	--	--	--	--	--	--	--

 ° or S

--	--	--	--	--	--	--	--	--	--

 °

Longitude E 29° 40' 40.3" or E

--	--	--	--	--	--	--	--	--	--

 ° or E

--	--	--	--	--	--	--	--	--	--

 °

Datum Type: ☐ Cape (Modified Clarke 1880) ☒ WGS-84

5.2 Name of Impending structure

ACCESS ROAD CULVERT #1

5.3 Impeding structure

a) Height of structure*

	0	.	9
--	---	---	---

 metres

* "Height" is the vertical difference between the lowest downstream ground elevation on the structure and the crest level or the general top level of the structure

b) Width of structure (measured at widest part of the structure)

1	.	8
---	---	---

 metres

c) Length of structure

	9	.	6
--	---	---	---

 metres

d) Materials used in building the structure (list)

PRE-CAST BOX CULVERTS

5.4 Enter the number of impeding structures on this property

	2
--	---

6. DIVERTING THE FLOW IN A WATERCOURSE

6.1 Geographic location of the diversion

a) Geographic location of the start of the diversion (in one format only)

 Latitude

S		°	
---	--	---	--

 ,

--	--	--	--

 " or

S		°	
---	--	---	--

 or

S		°	
---	--	---	--

 Longitude

E		°	
---	--	---	--

 ,

--	--	--	--

 " or

E		°	
---	--	---	--

 or

E		°	
---	--	---	--

Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84

b) Geographic location of the end of the diversion (in one format only)

 Latitude

S		°	
---	--	---	--

 ,

--	--	--	--

 " or

S		°	
---	--	---	--

 or

S		°	
---	--	---	--

 Longitude

E		°	
---	--	---	--

 ,

--	--	--	--

 " or

E		°	
---	--	---	--

 or

E		°	
---	--	---	--

Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84

6.2 Name of Diversion structure

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

6.3 Diversion structure

a) Height of structure*

--	--	--	--	--

 metres

* "Height" is the vertical difference between the lowest downstream ground elevation on the structure and the crest level or the general top level of the structure

b) Width of structure (measured at widest part of the structure)

--	--	--	--	--

 metres

c) Length of diversion along the watercourse (mark units with X)

--	--	--	--	--

☐ kilometers ☐ metres

d) Materials used in building the structure

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

6.4 Enter the number of diversion structures on this property

--	--	--

7. ACTIVITY AFFECTING FLOW IN WATERCOURSE

7.1 Description of activity (mark only one block with X)

☐ Diversion through a pipe

☐ Diversion through a canal

☒ Impeding structure

☐ Other diversion (specify below)

7.2 Start date of activity (ccyyymmdd)

20100301

7.3 Flow rate before diversion or impedance

3.7

cubic metres per second

7.4 Flow rate after diversion or impedance

3.7

cubic metres per second

7.5 Purpose of the activity (e.g. "to continue with mining")

Access Road construction

7.6 If the activity is mining-related, complete the following

e) Distance of the mining-related activity from the original watercourse

+1000

metres

f) Distance of the mining-related activity from the watercourse after impedance or diversion

+1000

metres

g) Depth of undermining of watercourse, if applicable

metres

h) Mining method used in c), (if any)

OPENCAST

8. DESCRIPTION OF WATER USE SECTOR(S)

8.1 Where applicable select one more of the following water use sectors

☐ Agriculture: Aquaculture

☐ Industry (Urban)

☐ Agriculture: Irrigation

☒ Mining

☐ Agriculture: Watering Livestock

☐ Power Generation

☐ Evaporation (Storage)

☐ Recreation

☐ Industry (Non-urban)

☐ Water Supply Service

9. EXISTING AUTHORISATION

9.1 Water use started on (ccyymmdd)

9.2 If this is an existing water use, mark with X and enter permit numbers ☐

Permit number

Date (ccyymmdd)

Permit No.

Permit No.

Permit No.

Permit No.

Permit No.

Permit No.

9.3 If water use takes place in terms of the General Authorisation, mark with an X ☐

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

<u>Date(s) from which applicable GA is/was applicable to this water use</u>			
South African Act:		Applicable section of the act	
[E.g. National Water Act (Act No. 36 of 1998)]		[E.g. Section 21]	
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			

9.4 If an authorisation has been issued under other legislation

Law /Regulation

10. PROPERTY RELATIONSHIP DETAILS (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property				Property Relationship	
									Date	To:
Erst 123 MS	Title Deed Number			T11442/2009	Surname of the Leader of Village, Community or Tribal Authority					
	Surveyor-General Cadastral Code			MS	Initial of the Leader of Village, Community or Tribal Authority					
	Property Number			123	Local Authority (if applicable)					
	Portion of property			-	Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					
	Title Deed Number				Surname of the Leader of Village, Community or Tribal Authority					
	Surveyor-General Cadastral Code				Initial of the Leader of Village, Community or Tribal Authority					
	Property Number				Local Authority (if applicable)					
					Magisterial District (if applicable)					
	Title Deed Number				Tribal Authority/Council (if applicable)					
	Surveyor-General Cadastral Code				Surname of the Leader of Village, Community or Tribal Authority					
	Property Number				Initial of the Leader of Village, Community or Tribal Authority					
					Local Authority (if applicable)					
	Portion of property				Magisterial District (if applicable)					
	Title Deed Number				Tribal Authority/Council (if applicable)					
	Surveyor-General Cadastral Code				Surname of the Leader of Village, Community or Tribal Authority					
					Initial of the Leader of Village, Community or Tribal Authority					
	Property Number				Local Authority (if applicable)					
	Portion of property				Magisterial District (if applicable)					
					Tribal Authority/Council (if applicable)					

11. FOR OFFICE USE ONLY

11.1 List of attached forms and documents

11.1.1 Specify the number of other documents submitted with this form, if any

- ☐ Motivation for the proposed diversion or impedance

[illegible]

- ☐
- Environment impact assessment

	10	20	30
10			
20			
30			

- ☐ Certified copy of agreement from each property owner involved, if more than one

--	--

11.1.2 Specify the other documents submitted with this form

- ☐
- Other: (specify) _____

[illegible]

- ☐
- Other: (specify) _____

- ☐
- Other: (specify) _____

- ☐
- Other: (specify) _____

11.2 Succession/Transfer and source Part 2 details

Source Register number

WU Number

WU Status to be allocated

WU Close Date (if applicable)
(ccyyymmdd)

[illegible]

11.3 District Municipality

District Municipality Name (if applicable)

Agosto 12 - 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31

11.4 Late Registration Penalty

Is this a late registration?

- ☐
- Yes

- ☐
- No

If yes, mark with an X, the applicable penalty to be levied

- ☐
- R300.00 OR

- ☐
- 10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable

- ☐
- Waive penalty

File number

[illegible]

Water Use Register Number

[illegible]

Received by:

Surname

Initials

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Position / Rank

Signature

Captured on NRWU database
(ccyymmdd)

Captured by:

Surname

Initials

--	--	--	--

Signature

Date stamp of receiving office



water affairs

Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

Registration / Licensing

Section 21(c) of the National Water Act

Part 2

IMPEDING OR DIVERTING THE FLOW OF WATER IN A WATERCOURSE

SPECIAL NOTE

This form is not applicable to any structure that is capable of containing, storing or impounding water.
For these structures, please complete form DW762

1. GENERAL INFORMATION

Mark the applicable option(s) with an X and/or complete details where applicable/available.

- 1.1 Have you already registered a water use with the
Department of Water Affairs and Forestry?

☐ Yes

☒ No

Registration Number:

--	--	--	--	--	--	--	--	--	--

Water Use Number:

--	--	--	--

☐ Licence Related WU

RLA Reference

--	--	--	--	--	--	--	--	--	--	--	--

NRWU Licence Number

										/		
--	--	--	--	--	--	--	--	--	--	---	--	--

RLA Business Unit

--	--	--	--	--	--	--	--	--	--	--	--

(NRWU = National Register of Water Use; RLA = Responsible Licensing Authority; WU = Water Use)

- 1.2 Applicant Type (mark only one block with X)

☐ Individual (complete 1.3)

☒ Company, business, partnership or community (complete 1.4)

☐ National Department (complete 1.5)

☐ Provincial Department (complete 1.6)

☐ Water Services Provider (complete 1.7)

☐ Water User Association (complete 1.8)

- 1.3 If the applicant is an individual

1.3.1

Title

--	--	--	--	--	--	--	--

Surname

--	--	--	--	--	--	--	--	--	--	--	--	--

Initials

--	--	--	--	--	--

For office use only

Allocated Reg. No.

--	--	--	--	--	--	--	--

WU No.

--	--	--	--	--

1.3.2 South African ID (if holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

[illegible]

Passport Expiry Date (ccyyymmdd)

[illegible]

Passport Country Of Issue

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1

1.4 If the applicant is a company, business, partnership or community:

1.4.1 Name of company, business, partnership or community:

LIMPOPO COAL COMPANY (PTY) LTD

1.4.2 Business Enterprise Registration Number

[illegible]

1.4.3 Date Established (ccyymmdd)

2	0	0	5	0	2	2	4
---	---	---	---	---	---	---	---

Country Where Established

RSF

1.5 If the applicant is a National Department:

1.5.1 National Department Name:

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120
121
122
123
124
125
126
127
128
129
130
131
132
133
134
135
136
137
138
139
140
141
142
143
144
145
146
147
148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
177
178
179
180
181
182
183
184
185
186
187
188
189
190
191
192
193
194
195
196
197
198
199
200
201
202
203
204
205
206
207
208
209
210
211
212
213
214
215
216
217
218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
237
238
239
240
241
242
243
244
245
246
247
248
249
250
251
252
253
254
255
256
257
258
259
260
261
262
263
264
265
266
267
268
269
270
271
272
273
274
275
276
277
278
279
280
281
282
283
284
285
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300
301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320
321
322
323
324
325
326
327
328
329
330
331
332
333
334
335
336
337
338
339
340
341
342
343
344
345
346
347
348
349
350
351
352
353
354
355
356
357
358
359
360
361
362
363
364
365
366
367
368
369
370
371
372
373
374
375
376
377
378
379
380
381
382
383
384
385
386
387
388
389
390
391
392
393
394
395
396
397
398
399
400
401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
418
419
420
421
422
423
424
425
426
427
428
429
430
431
432
433
434
435
436
437
438
439
440
441
442
443
444
445
446
447
448
449
450
451
452
453
454
455
456
457
458
459
460
461
462
463
464
465
466
467
468
469
470
471
472
473
474
475
476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499
500
501
502
503
504
505
506
507
508
509
510
511
512
513
514
515
516
517
518
519
520
521
522
523
524
525
526
527
528
529
530
531
532
533
534
535
536
537
538
539
540
541
542
543
544
545
546
547
548
549
550
551
552
553
554
555
556
557
558
559
560
561
562
563
564
565
566
567
568
569
570
571
572
573
574
575
576
577
578
579
580
581
582
583
584
585
586
587
588
589
590
591
592
593
594
595
596
597
598
599
600
601
602
603
604
605
606
607
608
609
610
611
612
613
614
615
616
617
618
619
620
621
622
623
624
625
626
627
628
629
630
631
632
633
634
635
636
637
638
639
640
641
642
643
644
645
646
647
648
649
650
651
652
653
654
655
656
657
658
659
660
661
662
663
664
665
666
667
668
669
670
671
672
673
674
675
676
677
678
679
680
681
682
683
684
685
686
687
688
689
690
691
692
693
694
695
696
697
698
699
700
701
702
703
704
705
706
707
708
709
710
711
712
713
714
715
716
717
718
719
720
721
722
723
724
725
726
727
728
729
730
731
732
733
734
735
736
737
738
739
740
741
742
743
744
745
746
747
748
749
750
751
752
753
754
755
756
757
758
759
760
761
762
763
764
765
766
767
768
769
770
771
772
773
774
775
776
777
778
779
780
781
782
783
784
785
786
787
788
789
790
791
792
793
794
795
796
797
798
799
800
801
802
803
804
805
806
807
808
809
810
811
812
813
814
815
816
817
818
819
820
821
822
823
824
825
826
827
828
829
830
831
832
833
834
835
836
837
838
839
840
84

1.6 If the property owner is a Provincial Department:

1.6.1 Province:

$\frac{1}{\sqrt{\pi}} \int_{-\infty}^{\infty} f(x) e^{-x^2} dx = \frac{1}{\sqrt{\pi}} \int_{-\infty}^{\infty} f(x) e^{-x^2} dx$

1.6.2 Provincial Department Name:

[illegible]

1.7 If the applicant Is a Water Services Provider:

1.7.1 Name of WSP:

[illegible]

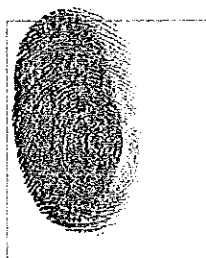
1.8 If the applicant is a Water User Association:

1.8.1 Name of WUA:

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120
121
122
123
124
125
126
127
128
129
130
131
132
133
134
135
136
137
138
139
140
141
142
143
144
145
146
147
148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
177
178
179
180
181
182
183
184
185
186
187
188
189
190
191
192
193
194
195
196
197
198
199
200
201
202
203
204
205
206
207
208
209
210
211
212
213
214
215
216
217
218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
237
238
239
240
241
242
243
244
245
246
247
248
249
250
251
252
253
254
255
256
257
258
259
260
261
262
263
264
265
266
267
268
269
270
271
272
273
274
275
276
277
278
279
280
281
282
283
284
285
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300
301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320
321
322
323
324
325
326
327
328
329
330
331
332
333
334
335
336
337
338
339
340
341
342
343
344
345
346
347
348
349
350
351
352
353
354
355
356
357
358
359
360
361
362
363
364
365
366
367
368
369
370
371
372
373
374
375
376
377
378
379
380
381
382
383
384
385
386
387
388
389
390
391
392
393
394
395
396
397
398
399
400
401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
418
419
420
421
422
423
424
425
426
427
428
429
430
431
432
433
434
435
436
437
438
439
440
441
442
443
444
445
446
447
448
449
450
451
452
453
454
455
456
457
458
459
460
461
462
463
464
465
466
467
468
469
470
471
472
473
474
475
476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499
500
501
502
503
504
505
506
507
508
509
510
511
512
513
514
515
516
517
518
519
520
521
522
523
524
525
526
527
528
529
530
531
532
533
534
535
536
537
538
539
540
541
542
543
544
545
546
547
548
549
550
551
552
553
554
555
556
557
558
559
560
561
562
563
564
565
566
567
568
569
570
571
572
573
574
575
576
577
578
579
580
581
582
583
584
585
586
587
588
589
590
591
592
593
594
595
596
597
598
599
600
601
602
603
604
605
606
607
608
609
610
611
612
613
614
615
616
617
618
619
620
621
622
623
624
625
626
627
628
629
630
631
632
633
634
635
636
637
638
639
640
641
642
643
644
645
646
647
648
649
650
651
652
653
654
655
656
657
658
659
660
661
662
663
664
665
666
667
668
669
670
671
672
673
674
675
676
677
678
679
680
681
682
683
684
685
686
687
688
689
690
691
692
693
694
695
696
697
698
699
700
701
702
703
704
705
706
707
708
709
710
711
712
713
714
715
716
717
718
719
720
721
722
723
724
725
726
727
728
729
730
731
732
733
734
735
736
737
738
739
740
741
742
743
744
745
746
747
748
749
750
751
752
753
754
755
756
757
758
759
760
761
762
763
764
765
766
767
768
769
770
771
772
773
774
775
776
777
778
779
780
781
782
783
784
785
786
787
788
789
790
791
792
793
794
795
796
797
798
799
800
801
802
803
804
805
806
807
808
809
810
811
812
813
814
815
816
817
818
819
820
821
822
823
824
825
826
827
828
829
830
831
832
833
834
835
836
837
838
839
840
84

Declaration by applicant

Delete the words that are not applicable I/~~we~~ BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Thumb print

A. H. H. H.

Signature

Signature Company Representative

Designation of signatory

(011) 785 42518

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

2. SUCCESSION/TRANSFER AND SOURCE PART 2 DETAILS

2.1 Is this a succession Related Water Use? ☐ Yes
(Mark only one box with an X)

☒ No

2.2 If yes, complete the following source details:

2.3 Source Register Number	<input type="text"/>	WU Number	<input type="text"/>
Source Register Number	<input type="text"/>	WU Number	<input type="text"/>
Source Register Number	<input type="text"/>	WU Number	<input type="text"/>

3. NATURE OF ACTIVITY (mark one category with X and enter any details required)

3.1 Registration of (mark only one block with X) ☒ Impeding flow (complete part 3,4,6 and 7)
☐ Diverting flow (complete part 3,5,6 and 7)

4. WATER RESOURCE INFORMATION

4.1 Name of water source (watercourse, surface water or estuary)

UNNAMED TRIBUTARY OF LIMPOPO RIVER

4.2 Type of water source (mark with an X)

☒ River or stream ☐ Spring ☐ Estuary ☐ Wetland ☐ Eye

4.3 Quaternary Drainage Region

A31L

5. IMPEDING THE FLOW IN A WATERCOURSE

5.1 Geographic location of the impedence (in one format only)

Latitude S 22° 12' 48.4" or S . . . ° or S . . . °

Longitude E 29° 40' 41.9" or E . . . ° or E . . . °

Datum Type:

☐ Cape (Modified Clarke 1880)

☒ WGS-84

5.2 Name of Impeding structure

ACCESS ROAD CULVERT #2

5.3 Impeding structure

a) Height of structure*

		0	.	9
--	--	---	---	---

 metres

*"Height" is the vertical difference between the lowest downstream ground elevation on the structure and the crest level or the general top level of the structure

b) Width of structure (measured at widest part of the structure)

		7	.	2
--	--	---	---	---

 metres

c) Length of structure

		9	.	6
--	--	---	---	---

 metres

d) Materials used in building the structure (list)

PRE-CAST BOX CULVERTS

5.4 Enter the number of impeding structures on this property

		2
--	--	---

6. DIVERTING THE FLOW IN A WATERCOURSE

6.1 Geographic location of the diversion

a) Geographic location of the start of the diversion (in one format only)

Latitude

S		
---	--	--

 °

--	--	--

 '

			.	
--	--	--	---	--

 " or

S			.						
---	--	--	---	--	--	--	--	--	--

 ° or

S		
---	--	--

 °

			.						
--	--	--	---	--	--	--	--	--	--

 ' ,Longitude

E		
---	--	--

 °

--	--	--

 '

			.	
--	--	--	---	--

 " or

E			.						
---	--	--	---	--	--	--	--	--	--

 ° or

E		
---	--	--

 °

			.						
--	--	--	---	--	--	--	--	--	--

 ' ,

Datum Type:

☐ Cape (Modified Clarke 1880)☐ WGS-84

b) Geographic location of the end of the diversion (in one format only)

Latitude

S		
---	--	--

 °

--	--	--

 '

			.	
--	--	--	---	--

 " or

S			.						
---	--	--	---	--	--	--	--	--	--

 ° or

S		
---	--	--

 °

			.						
--	--	--	---	--	--	--	--	--	--

 ' ,Longitude

E		
---	--	--

 °

--	--	--

 '

			.	
--	--	--	---	--

 " or

E			.						
---	--	--	---	--	--	--	--	--	--

 ° or

E		
---	--	--

 °

			.						
--	--	--	---	--	--	--	--	--	--

 ' ,

Datum Type:

☐ Cape (Modified Clarke 1880)☐ WGS-84

6.2 Name of Diversion structure

6.3 Diversion structure

a) Height of structure*

			.	
--	--	--	---	--

 metres

*"Height" is the vertical difference between the lowest downstream ground elevation on the structure and the crest level or the general top level of the structure

b) Width of structure (measured at widest part of the structure)

--	--	--	--

 metres

c) Length of diversion along the watercourse (mark units with X)

--	--	--	--

☐ kilometers ☐ metres

d) Materials used in building the structure

6.4 Enter the number of diversion structures on this property

--	--	--

7. ACTIVITY AFFECTING FLOW IN WATERCOURSE

7.1 Description of activity (mark only one block with X)

☐ Diversion through a pipe

☐ Diversion through a canal

☒ Impeding structure

☐ Other diversion (specify below)

7.2 Start date of activity (ccyymmdd)

20100301

7.3 Flow rate before diversion or impendance

14.8

cubic metres per second

7.4 Flow rate after diversion or impendance

14.8

cubic metres per second

7.5 Purpose of the activity (e.g. "to continue with mining")

Access Road construction

7.6 If the activity is mining-related, complete the following

e) Distance of the mining-related activity from the original watercourse

+1000

metres

f) Distance of the mining-related activity from the watercourse after impendance or diversion

+1000

metres

g) Depth of undermining of watercourse, if applicable

metres

h) Mining method used in c), (if any)

OPENCAST

8. DESCRIPTION OF WATER USE SECTOR(S)

8.1 Where applicable select one more of the following water use sectors

☐ Agriculture: Aquaculture

☐ Industry (Urban)

☐ Agriculture: Irrigation

☒ Mining

☐ Agriculture: Watering Livestock

☐ Power Generation

☐ Evaporation (Storage)

☐ Recreation

☐ Industry (Non-urban)

☐ Water Supply Service

9. EXISTING AUTHORISATION

9.1 Water use started on (ccyymmdd)

9.2 If this is an existing water use, mark with X and enter permit numbers ☐

Permit number

Date (ccyymmdd)

Permit No.

Permit No.

Permit No.

Permit No.

Permit No.

Permit No.

9.3 If water use takes place in terms of the General Authorisation, mark with an X ☐

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

Date(s) from which applicable GA is/was applicable to this water use			
South African Act:		Applicable section of the act	
[E.g. National Water Act (Act No. 36 of 1998)]		[E.g. Section 21]	
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			

9.4 If an authorisation has been issued under other legislation

Law /Regulation

10. PROPERTY RELATIONSHIP DETAILS (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property				Property Relationship	
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Date	To:
Erst 123 MS	T11442/2009	MS	123	-						

11. FOR OFFICE USE ONLY

11.1 List of attached forms and documents

11.1.1 Specify the number of other documents submitted with this form, if any

- ☐ Motivation for the proposed diversion or impedance
 - ☐ Environment impact assessment
 - ☐ Certified copy of agreement from each property owner involved, if more than one

11.1.2 Specify the other documents submitted with this form

- ☐ Other: (specify)
- ☐ Other: (specify)
- ☐ Other: (specify)
- ☐ Other: (specify)

[illegible]

11.2 Succession/Transfer and source Part 2 details

Source Register number

WU Number

WU Status to be allocated

WU Close Date (if applicable)
(ccyyymmdd)

[illegible]

11.3 District Municipality

District Municipality Name (if applicable)

11.4 Late Registration Penalty

Is this a late registration?

☐ Yes☐ No

If yes, mark with an X, the applicable penalty to be levied

- ☐ R300.00 OR
- ☐ 10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater
- Specify the penalty amount payable
- ☐ Waive penalty

[illegible][illegible]

Surname

--	--	--

DATE	DESCRIPTION	AMOUNT	CHECK NO.	BANK	INITIALS
12-1-78
12-2-78
12-3-78
12-4-78
12-5-78
12-6-78
12-7-78
12-8-78
12-9-78
12-10-78
12-11-78
12-12-78
12-13-78
12-14-78
12-15-78
12-16-78
12-17-78
12-18-78
12-19-78
12-20-78
12-21-78
12-22-78
12-23-78
12-24-78
12-25-78
12-26-78
12-27-78
12-28-78
12-29-78
12-30-78
12-31-78

Surname

--	--	--	--

Date stamp of receiving office



water affairs
Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

Registration / Licensing

Section 21(c) of the National Water Act

Part 2

IMPEDING OR DIVERTING THE FLOW OF WATER IN A WATERCOURSE

SPECIAL NOTE

This form is not applicable to any structure that is capable of containing, storing or impounding water.
For these structures, please complete form DW762

1. GENERAL INFORMATION

Mark the applicable option(s) with an X and/or complete details where applicable/available.

1.1 Have you already registered a water use with the Department of Water Affairs and Forestry?

☐ Yes

☒ No

Registration Number:

--	--	--	--	--	--	--	--	--	--

Water Use Number:

--	--	--	--

☐ Licence Related WU

RLA Reference

--	--	--	--	--	--	--	--	--	--

NRWU Licence Number

										/		
--	--	--	--	--	--	--	--	--	--	---	--	--

RLA Business Unit

--	--	--	--	--	--	--	--	--	--	--	--

(NRWU = National Register of Water Use; RLA = Responsible Licensing Authority; WU = Water Use)

1.2 Applicant Type (mark only one block with X)

☐ Individual (complete 1.3)

☒ Company, business, partnership or community (complete 1.4)

☐ National Department (complete 1.5)

☐ Provincial Department (complete 1.6)

☐ Water Services Provider (complete 1.7)

☐ Water User Association (complete 1.8)

1.3 If the applicant is an individual

1.3.1 Title Surname Initials

For office use only

Allocated Reg. No.

--	--	--	--	--	--	--	--

WU No.

--	--	--	--

1.3.2 South African ID (If holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Passport Expiry Date (ccyy/mm/dd)

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Passport Country Of Issue

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

1.4 If the applicant is a company, business, partnership or community:

1.4.1 Name of company, business, partnership or community:

LIMPOPO COAL COMPANY (PTY) LTD

1.4.2 Business Enterprise Registration Number

006072107

1.4.3 Date Established (ccyy/mm/dd)

20050224

Country Where Established

RSA

1.5 If the applicant is a National Department:

1.5.1 National Department Name:

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

1.6 If the property owner is a Provincial Department:

1.6.1 Province:

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

1.6.2 Provincial Department Name:

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

1.7 If the applicant is a Water Services Provider:

1.7.1 Name of WSP:

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

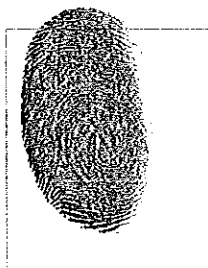
1.8 If the applicant is a Water User Association:

1.8.1 Name of WUA:

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Declaration by applicant

Delete the words that are not applicable I/we BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Thumb print

Signature

Company Representative

Designation of signatory

(011) 785 4578

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

2. SUCCESSION/TRANSFER AND SOURCE PART 2 DETAILS

2.1 Is this a succession Related Water Use? ☐ Yes
(Mark only one box with an X)

☒ No

2.2 If yes, complete the following source details:

2.3 Source Register Number	<input type="text"/>	WU Number	<input type="text"/>
Source Register Number	<input type="text"/>	WU Number	<input type="text"/>
Source Register Number	<input type="text"/>	WU Number	<input type="text"/>

3. NATURE OF ACTIVITY (mark one category with X and enter any details required)

3.1 Registration of (mark only one block with X) ☐ Impeding flow (complete part 3,4,6 and 7)
☐ Diverting flow (complete part 3,5,6 and 7)

4. WATER RESOURCE INFORMATION

4.1 Name of water source (watercourse, surface water or estuary)

UNDAMED TRIBUTARY OF LIMPOPO RIVER

4.2 Type of water source (mark with an X)

☒ River or stream ☐ Spring ☐ Estuary ☐ Wetland ☐ Eye

4.3 Quaternary Drainage Region

A71L

5. IMPEDING THE FLOW IN A WATERCOURSE

5.1 Geographic location of the impedance (in one format only)

Latitude S 22 ° 11 ' 49.8 " or S ° or S °

Longitude E 29 ° 40 ' 36.4 " or E ° or E °

Datum Type:

☐ Cape (Modified Clarke 1880)

☒ WGS-84

5.2 Name of Impeding structure

ACCESS ROAD CULVERT #3

5.3

Impeding structure

a) Height of structure*

	0	.	9
--	---	---	---

 metres

* "Height" is the vertical difference between the lowest downstream ground elevation on the structure and the crest level or the general top level of the structure

b) Width of structure (measured at widest part of the structure)

3	.	6
---	---	---

 metres

c) Length of structure

		9	.	6
--	--	---	---	---

metres

d) Materials used in building the structure (list)

PRE-CAST BOX CULVERTS

5.4

Enter the number of impending structures on this property

	2
--	---

6. DIVERTING THE FLOW IN A WATERCOURSE

6.1 Geographic location of the diversion

a) Geographic location of the start of the diversion (in one format only)

Latitude S

--	--	--

 °

--	--	--

 " or S

--	--	--	--	--

 ° or S

--	--	--

 °

--	--	--	--	--

Longitude E ° ' " or E ° ' "

Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84

b) Geographic location of the end of the diversion (in one format only)

Latitude S ° , " or S ° or S °

Longitude

E		°		'		"
---	--	---	--	---	--	---

 or E

						°
--	--	--	--	--	--	---

 or E

		°		'		"
--	--	---	--	---	--	---

Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84

6.2 Name of Diversion structure

6.3 Diversion structure

a) Height of structure*

--	--	--	--	--

 metres

* "Height" is the vertical difference between the lowest downstream ground elevation on the structure and the crest level or the general top level of the structure

b) Width of structure (measured at widest part of the structure)

--	--	--	--

 metres

c) Length of diversion along the watercourse (mark units with X)

--	--	--	--

☐ kilometers ☐ metres

d) Materials used in building the structure

6.4

Enter the number of diversion structures on this property

7. ACTIVITY AFFECTING FLOW IN WATERCOURSE

7.1 Description of activity (mark only one block with X)

- ☐ Diversion through a pipe
 ☐ Diversion through a canal
 ☒ Impeding structure
 ☐ Other diversion (specify below)

7.2 Start date of activity (ccyymmdd)

20100301

7.3 Flow rate before diversion or impedance

7.4

cubic metres per second

7.4 Flow rate after diversion or impedance

7.4

cubic metres per second

7.5 Purpose of the activity (e.g. "to continue with mining")

Access Road construction

7.6 If the activity is mining-related, complete the following

e) Distance of the mining-related activity from the original watercourse

+1000

metres

f) Distance of the mining-related activity from the watercourse after impedance or diversion

+1000

metres

g) Depth of undermining of watercourse, if applicable

metres

h) Mining method used in c), (if any)

OPENCAST

8. DESCRIPTION OF WATER USE SECTOR(S)

8.1 Where applicable select one more of the following water use sectors

- | | |
|--|---|
| <input type="checkbox"/> Agriculture: Aquaculture | <input type="checkbox"/> Industry (Urban) |
| <input type="checkbox"/> Agriculture: Irrigation | <input checked="" type="checkbox"/> Mining |
| <input type="checkbox"/> Agriculture: Watering Livestock | <input type="checkbox"/> Power Generation |
| <input type="checkbox"/> Evaporation (Storage) | <input type="checkbox"/> Recreation |
| <input type="checkbox"/> Industry (Non-urban) | <input type="checkbox"/> Water Supply Service |

9. EXISTING AUTHORISATION

9.1 Water use started on (ccyymmdd)

9.2 If this is an existing water use, mark with X and enter permit numbers ☐

Permit number

Date (ccyymmdd)

Permit No.	
Permit No.	
Permit No.	
Permit No.	
Permit No.	
Permit No.	

9.3 If water use takes place in terms of the General Authorisation, mark with an X ☐

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

<u>Date(s) from which applicable GA is/was applicable to this water use</u>			
South African Act:		Applicable section of the act	
	[E.g. National Water Act (Act No. 36 of 1998)]		[E.g. Section 21]
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			

9.4 If an authorisation has been issued under other legislation

Law /Regulation

10. PROPERTY RELATIONSHIP DETAILS (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property				Property Relationship	
									Date	
									From:	To:
Bergen Op Zoom 124 MS	Title Deed Number			T12375/2009	Surname of the Leader of Village, Community or Tribal Authority					
	Surveyor-General Cadastral Code			MS	Initial of the Leader of Village, Community or Tribal Authority					
	Property Number			124	Local Authority (if applicable)					
	Portion of property			RE	Magisterial District (if applicable)					
	Title Deed Number				Tribal Authority/Council (if applicable)					
	Surveyor-General Cadastral Code				Surname of the Leader of Village, Community or Tribal Authority					
	Property Number				Initial of the Leader of Village, Community or Tribal Authority					
	Portion of property				Local Authority (if applicable)					
	Title Deed Number				Magisterial District (if applicable)					
	Surveyor-General Cadastral Code				Tribal Authority/Council (if applicable)					
	Property Number				Surname of the Leader of Village, Community or Tribal Authority					
	Portion of property				Initial of the Leader of Village, Community or Tribal Authority					
	Title Deed Number				Local Authority (if applicable)					
	Surveyor-General Cadastral Code				Magisterial District (if applicable)					
	Property Number				Tribal Authority/Council (if applicable)					
	Portion of property				Surname of the Leader of Village, Community or Tribal Authority					
	Title Deed Number				Initial of the Leader of Village, Community or Tribal Authority					
	Surveyor-General Cadastral Code				Local Authority (if applicable)					
	Property Number				Magisterial District (if applicable)					
	Portion of property				Tribal Authority/Council (if applicable)					

11. FOR OFFICE USE ONLY

11.1 List of attached forms and documents

11.1.1 Specify the number of other documents submitted with this form, if any

- ☐ Motivation for the proposed diversion or impedance
- ☐ Environment impact assessment
- ☐ Certified copy of agreement from each property owner involved, if more than one

--	--

--	--

--	--

11.1.2 Specify the other documents submitted with this form

- ☐ Other: (specify)

[illegible]

11.2 Succession/Transfer and source Part 2 details

Source Register number

WU Number

WU Status to be allocated

WU Close Date (if applicable)
(ccyymmdd)[illegible]

[illegible]

11.3 District Municipality

District Municipality Name (if applicable)

f
 \vdash
 \vdash
 \vdash

11.4 Late Registration Penalty

Is this a late registration?

- ☐ Yes ☐ No

If yes, mark with an X, the applicable penalty to be levied

- ☐ R300.00 OR
- ☐ 10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable

Figure 1. The effect of the initial concentration of the monomer on the polymerization of α -methylstyrene initiated by SnCl_4 in CH_2Cl_2 at -78°C for 24 h. The concentration of the initiator was 0.01 mol/L .

- ☐
- Waive penalty

File number

[illegible]

Water Use Register Number

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

Received by:

Surname

Initials

--	--	--

Position / Rank

Signature

Captured on NRWU database

[illegible]

(ccymmdd)

Captured by:

Surname

Initials

--	--	--	--

Signature _____

Date stamp of receiving office



water affairs
Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

Registration / Licensing

Section 21(c) of the National Water Act

Part 2

IMPEDING OR DIVERTING THE FLOW OF WATER IN A WATERCOURSE

SPECIAL NOTE

This form is not applicable to any structure that is capable of containing, storing or impounding water.
For these structures, please complete form DW762

1. GENERAL INFORMATION

Mark the applicable option(s) with an X and/or complete details where applicable/available.

1.1 Have you already registered a water use with the Department of Water Affairs and Forestry?

☐ Yes

☒ No

Registration Number:

--	--	--	--	--	--	--	--	--	--

Water Use Number:

--	--	--	--	--

☐ Licence Related WU

RLA Reference

--	--	--	--	--	--	--	--	--	--	--	--

NRWU Licence Number

									/		
--	--	--	--	--	--	--	--	--	---	--	--

RLA Business Unit

--	--	--	--	--	--	--	--	--	--	--	--

(NRWU = National Register of Water Use; RLA = Responsible Licensing Authority; WU = Water Use)

1.2 Applicant Type (mark only one block with X)

☐ Individual (complete 1.3)

☐ Company, business, partnership or community (complete 1.4)

☐ National Department (complete 1.5)

☐ Provincial Department (complete 1.6)

☐ Water Services Provider (complete 1.7)

☐ Water User Association (complete 1.8)

1.3 If the applicant is an individual

1.3.1

Title

--	--	--	--	--	--	--	--	--	--

Surname

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Initials

--	--	--	--	--	--

For office use only

Allocated Reg. No.

--	--	--	--	--	--	--	--	--	--

WU No.

--	--	--	--	--	--

[illegible][illegible][illegible]

1.4 If the applicant is a company, business, partnership or community:

1.4.1 Name of company, business, partnership or community:

LIMPOPO COAL COMPANY (PTY) LTD

1.4.2 Business Enterprise Registration Number

		006072107
--	--	-----------

1.4.3 Date Established (ccyyymmdd)

20050224

Country Where Established

ESF

1.5 If the applicant is a National Department:

1.5.1 National Department Name:

1.6 If the property owner is a Provincial Department:

1.6.1 Province:

1.6.2 Provincial Department Name:

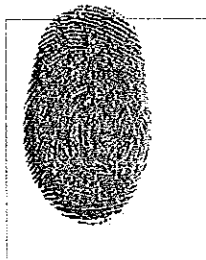
1.7 If the applicant is a Water Services Provider:

1.7.1 Name of WSP:

1.8 If the applicant is a Water User Association:

1.8.1 Name of WUA:

Delete the words that are not applicable I/we BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Thumb print

Signature

Designation of signatory

(011) 785 4518

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

2. SUCCESSION/TRANSFER AND SOURCE PART 2 DETAILS

2.1 Is this a succession Related Water Use? ☐ Yes
(Mark only one box with an X)

☒ No

2.2 If yes, complete the following source details:

2.3 Source Register Number	<input type="text"/>	WU Number	<input type="text"/>
Source Register Number	<input type="text"/>	WU Number	<input type="text"/>
Source Register Number	<input type="text"/>	WU Number	<input type="text"/>

3. NATURE OF ACTIVITY (mark one category with X and enter any details required)

3.1 Registration of (mark only one block with X) ☒ Impeding flow (complete part 3,4,6 and 7)
☐ Diverting flow (complete part 3,5,6 and 7)

4. WATER RESOURCE INFORMATION

4.1 Name of water source (watercourse, surface water or estuary)

UNDAMED TRIBUTARY OF LIMPOPO RIVER

4.2 Type of water source (mark with an X)

☒ River or stream ☐ Spring ☐ Estuary ☐ Wetland ☐ Eye

4.3 Quaternary Drainage Region

A71L

5. IMPEDING THE FLOW IN A WATERCOURSE

5.1 Geographic location of the impedance (in one format only)

Latitude S 22° 11' 10.9" or S ° ' " or S ° ' "

Longitude E 29° 40' 07.0" or E ° ' " or E ° ' "

Datum Type:

☐ Cape (Modified Clarke 1880) ☐ WGS-84

5.2 Name of Impeding structure

ACCESS ROAD CULVERT #4

5.3 Impeding structure

a) Height of structure*

		0	.	9
--	--	---	---	---

 metres

*"Height" is the vertical difference between the lowest downstream ground elevation on the structure and the crest level or the general top level of the structure

b) Width of structure (measured at widest part of the structure)

		7	.	2
--	--	---	---	---

 metres

c) Length of structure

		9	.	6
--	--	---	---	---

 metres

d) Materials used in building the structure (list)

PRE-CAST BOX CULVERTS

5.4 Enter the number of impeding structures on this property

		2
--	--	---

6. DIVERTING THE FLOW IN A WATERCOURSE

6.1 Geographic location of the diversion

a) Geographic location of the start of the diversion (in one format only)

Latitude

S		
---	--	--

 °

--	--

 '

--	--	--

 " or S

--	--	--

 ° or S

--	--	--

 °Longitude E

--	--	--

 °

--	--

 '

--	--	--

 " or E

--	--	--

 ° or E

--	--	--

 °

Datum Type:

☐ Cape (Modified Clarke 1880)☐ WGS-84

b) Geographic location of the end of the diversion (in one format only)

Latitude S

--	--	--

 °

--	--

 '

--	--	--

 " or S

--	--	--

 ° or S

--	--	--

 °Longitude E

--	--	--

 °

--	--

 '

--	--	--

 " or E

--	--	--

 ° or E

--	--	--

 °

Datum Type:

☐ Cape (Modified Clarke 1880)☐ WGS-84

6.2 Name of Diversion structure

6.3 Diversion structure

a) Height of structure*

			.	
--	--	--	---	--

 metres

*"Height" is the vertical difference between the lowest downstream ground elevation on the structure and the crest level or the general top level of the structure

b) Width of structure (measured at widest part of the structure)

--	--	--	--

 metres

c) Length of diversion along the watercourse (mark units with X)

--	--	--	--

☐ kilometers ☐ metres

d) Materials used in building the structure

6.4 Enter the number of diversion structures on this property

--	--

7. ACTIVITY AFFECTING FLOW IN WATERCOURSE

7.1 Description of activity (mark only one block with X)

- ☐ Diversion through a pipe
 ☐ Diversion through a canal
 ☒ Impeding structure
☐ Other diversion (specify below)

7.2 Start date of activity (ccyymmdd)

20100301

7.3 Flow rate before diversion or impedance

14.8

cubic metres per second

7.4 Flow rate after diversion or impedance

14.8

cubic metres per second

7.5 Purpose of the activity (e.g. "to continue with mining")

Access Road construction

7.6 If the activity is mining-related, complete the following

- e) Distance of the mining-related activity from the original watercourse

+1000

metres

- f) Distance of the mining-related activity from the watercourse after impedance or diversion

+1000

metres

- g) Depth of undermining of watercourse, if applicable

metres

- h) Mining method used in c), (if any)

OPENCAST

8. DESCRIPTION OF WATER USE SECTOR(S)

8.1 Where applicable select one more of the following water use sectors

- | | |
|--|---|
| <input type="checkbox"/> Agriculture: Aquaculture | <input type="checkbox"/> Industry (Urban) |
| <input type="checkbox"/> Agriculture: Irrigation | <input checked="" type="checkbox"/> Mining |
| <input type="checkbox"/> Agriculture: Watering Livestock | <input type="checkbox"/> Power Generation |
| <input type="checkbox"/> Evaporation (Storage) | <input type="checkbox"/> Recreation |
| <input type="checkbox"/> Industry (Non-urban) | <input type="checkbox"/> Water Supply Service |

9. EXISTING AUTHORISATION

9.1 Water use started on (ccyymmdd)

9.2 If this is an existing water use, mark with X and enter permit numbers ☐

Permit number

Date (ccyymmdd)

Permit No.

Permit No.

Permit No.

Permit No.

Permit No.

Permit No.

9.3 If water use takes place in terms of the General Authorisation, mark with an X ☐

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

<u>Date(s) from which applicable GA is/was applicable to this water use</u>			
South African Act:		Applicable section of the act	
[E.g. National Water Act (Act No. 36 of 1998)]		[E.g. Section 21]	
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			

9.4 If an authorisation has been issued under other legislation

Law /Regulation

10. PROPERTY RELATIONSHIP DETAILS (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property				Property Relationship		
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)	Date	To:
Bergen Op Zoom 124 MS	T12375/2009	MS	124	EE	Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		

11.1 List of attached forms and documents

11.1.1 Specify the number of other documents submitted with this form, if any

- | | |
|--|--|
| <input type="checkbox"/> Motivation for the proposed diversion or impedance | |
| <input type="checkbox"/> Environment impact assessment | |
| <input type="checkbox"/> Certified copy of agreement from each property owner involved, if more than one | |

11.1.2 Specify the other documents submitted with this form

- [illegible]

11.2 Succession/Transfer and Source Part 2 details

[illegible]

11.3 District Municipality

District Municipality Name (if applicable) _____

11.4 Late Registration Penalty

Is this a late registration? ☐ Yes ☐ No

If yes, mark with an X, the applicable penalty to be levied

- ☐ R300.00 OR
- ☐ 10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable

- ☐ Waive penalty

File number

[illegible]

Water Use Register Number

[illegible]

Received by:

Surname

Initials

--	--	--	--

Position / Rank

Signature

Captured on NRWU database

[illegible]

(ccymmdd)

Surname

Initials

--	--	--	--

Signature _____

Date stamp of receiving office

PART 2 – SECTION 21(e)

- 1. IRRIGATION WITH SEWAGE EFFLUENT**
- 2. DUST SUPPRESSION WITH PIT WATER**

ASSOCIATED FORMS:

- 1. DW901 – Refer to PART 1**
- 2. DW902 – Refer to PART 1**
- 3. DW905 – Refer to S21(g)**
- 4. DW805 – Refer to S21(j)**



water affairs

Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

Part 2: WASTE DISCHARGE RELATED WATER USE IN TERMS OF SECTION 21(e) OF THE NATIONAL WATER ACT, (ACT NO. 36 OF 1998)

Sections 21(e): engaging in a controlled activity: irrigation of any land with waste or water containing waste generated through any industrial activity or by a waterwork.

1. GENERAL INFORMATION

Mark the applicable option(s) with an X and/or complete details where applicable/available.

- 1.1 Indicate the nature of this application: ☒ Licence ☐ Registration (only)
- 1.2 Have you already registered a water use with the Department of Water Affairs and Forestry? ☐ Yes ☒ No
Registration number:
Water use number:
- 1.3 Indicate if Section 21(j) is applicable to this water use application: ☐ Yes ☒ No
Section 21(j): removing, discharging or disposing of water found underground if it is necessary for the efficient continuation of an activity or for the safety of people.
Note: If Yes was selected, ensure that a DW805 application form has been submitted.
- 1.4 Do you have a licence, permit or exemption for this waste discharge? ☐ Yes ☒ No
(Issued in terms of the National Water Act (Act No. 36 of 1998),
Water Act (Act No. 54 of 1956)
or the Environmental Conservation Act (Act No. 73 of 1989))
Licence number:
OR
Permit number:
OR
Exemption reference number:

1.5 Applicant Type (mark only one block with X)

- ☐ Individual (complete 1.6)
 ☐ Provincial Department (complete 1.9)
- ☒ Company, business, partnership or community (complete 1.7)
 ☐ Water Services Provider (complete 1.10)
- ☐ National Department (complete 1.8)
 ☐ Water User Association (complete 1.11)

1.6 If the applicant is an individual

1.6.1 Title Surname Initials

1.6.2 South African ID (if holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

Passport Expiry Date (ccyyymmdd)

Passport Country Of Issue

1.7 If the applicant is a company, business, partnership or community:**1.7.1** Name of company, business, partnership or community:

1.7.2 Business Enterprise Registration Number

1.7.3 Date Established (ccyyymmdd)

Country Where Established

1.8 If the applicant is a National Department:

1.8.1 National Department Name:

1.9 If the applicant is a Provincial Department:

1.9.1 Province:

1.9.2 Provincial Department Name:

1.10 If the applicant is a Water Services Provider:

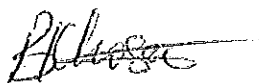
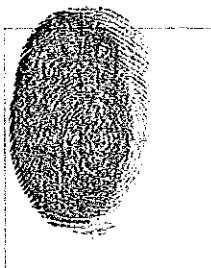
1.10.1 Name of WSP:

1.11 If the applicant is a Water User Association:

1.11.1 Name of WUA:

Declaration by applicant or waste discharger

Delete the words that are not applicable I/~~we~~ BALDWIN KHOSA (FULL NAME(S))
hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Signature

Company Representative

Designation of signatory

Thumb print

(011) 785 4518

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

2. DESCRIPTION OF THE WASTE GENERATED

2.1

Select the sector that generates the wastewater or waste which this application refers to

(Mark only one box with an X)

(Note, if more than one option is applicable, you must fill in a separate application form per sub-sector)

Agriculture

- ☐ Aquaculture
☐ Irrigation

- ☐ Intensive Animal Husbandry
☐ Other (please specify below)

Urban / Domestic

- ☒ Sewage Treatment Works

- ☐ Water Treatment Works

Industry

- ☐ Agroprocessing
☐ Fertilisers
☐ Metal Processing And Finishing
☐ Textile
☐ Power generation

- ☐ Meat Processing
☐ Manufacturing
☐ Paper And Pulp
☐ Winery
☐ Other (please specify below)

Mining

- ☐ Coal
☐ Gold
☐ Platinum
☐ Copper
☐ Chromium
☐ Iron

- ☐ Diamond
☐ Sand-winning
☐ Quarrying
☐ Peat Mining
☐ Uranium
☐ Other (please specify below)

2.2

Which of the following describes the nature of the wastewater?

(Mark the applicable options with an X)

2.2.1 Wastewater containing <70% water by mass (i.e. sludge) ☐

2.2.2 Wastewater containing >70% water by mass ☐

2.2.3 Wastewater with high acidity (i.e. pH <5) or alkalinity (i.e. pH >10) ☐

2.2.4 Wastewater with temperature of >50°C ☐

2.2.5 Wastewater with an oxygen content of <5 mg/l ☐

2.2.6 Wastewater with an EC (Electrical Conductivity) of >500mS/m ☐

2.2.7 Wastewater with an EC of <500mS/m ☒

2.3

Which of the following describes the composition of the wastewater?

(Mark the applicable options with an X)

2.3.1 Wastewater consisting of > 90% organic content by mass (i.e. load) ☐

2.3.2 Wastewater consisting of 50 – 90% organic content and 10 – 50% metals or salts by mass (i.e. load) ☒

2.3.3 Wastewater consisting of 10 – 50% organic content and 50 – 90% metals or salts by mass (i.e. load) ☐

2.3.4 Wastewater consisting of >90% metals or salts by mass (i.e. load) ☐

2.4

Describe the activity that generates the waste

Effluent from activated
sludge treatment plant
situated at Uda processing
plant.

2.5 Details of water use

2.5.1 Water use start & end date

When did/will this water use start? (ccyymmdd)

20100801

When did/will this water use end? (If applicable)
(ccyymmdd)

2.5.2 Portion of property/land under irrigation

Total area of land irrigated

1.5 hectares

2.5.3 Crops under wastewater irrigation

Crop type (e.g. mielies, lucerne)	% of total volume waste/wastewater irrigated per year
N/A - irrigation of landscaped/grassed areas (gardens).	100

2.5.4 Volume of wastewater irrigated (cubic meters)

Total volume of wastewater irrigated per year	14,600
Maximum volume of wastewater irrigated on any given day	43

2.5.5 Monthly irrigation pattern expressed in:

☒ Cubic meters

OR

☐ Percentage (%) of total volume of wastewater discharged per year

OR

☐ Another unit of measure

If "Another unit of measure" was selected, specify the "unit of measure" to be applied to the monthly irrigation pattern details:

	Minimum	Average	Maximum
January	620	1240	1333
February	560	1120	1204
March	620	1240	1333
April	600	1200	1290
May	620	1240	1333
June	600	1200	1290
July	620	1240	1333
August	620	1240	1333
September	600	1200	1290
October	620	1240	1333
November	600	1200	1290
December	620	1240	1333

2.5.6 Origin of irrigated waste water

National Water Act - Section 21(g/j) Water Use					
Section 21(?)	Registered*		Volume of water applicable to this waste discharge (m³)	If Registered*	
				Register number	Water Use Number
N/A	<input type="checkbox"/> Yes	<input type="checkbox"/> No			
	<input type="checkbox"/> Yes	<input type="checkbox"/> No			
	<input type="checkbox"/> Yes	<input type="checkbox"/> No			
	<input type="checkbox"/> Yes	<input type="checkbox"/> No			

2.5.7 Registered Waste Discharge Information

Average irrigated volume (cubic meters)	1,240	Time Interval: <input checked="" type="checkbox"/> Per Month	<input type="checkbox"/> Per Annum
Maximum irrigated volume anticipated (cubic meters)	14,600	Time Interval: <input type="checkbox"/> Per Month	<input checked="" type="checkbox"/> Per Annum

Quality Variable And Unit Of Measurement	Average Irrigated Concentration	For Office Use Only	
		Irrigated Load (kg)	NPS Load (kg)
Coliforms (Colony Forming Units/ml)			
Enteric pathogens e.g. E.coli (Colony Forming Units/ml)			
pH (pH units)	7.3		
Temperature (°C)			
Acidity (mg/l)			
Alkalinity (mg/l)			
Aluminium (mg/l)			
Ammonia (mg/l)			
Arsenic (mg/l)			
Barium (mg/l)			
Boron (mg/l)			
Bromide (mg/l)			
Cadmium (mg/l)			
Calcium (mg/l)	56		
Chemical oxygen demand (mg/l)			
Chloride (mg/l)	58		
Chromium (mg/l)			

Continued on next page

Quality Variable And Unit Of Measurement	Average Irrigated Concentration	For Office Use Only	
		Irrigated Load (kg)	NPS Load (kg)
Chromium(vi) (mg/l)			
Cobalt (mg/l)			
Copper (mg/l)			
Cyanide (mg/l)			
Fluoride (mg/l)			
Iron (mg/l)	0.05		
Lead (mg/l)			
Lithium (mg/l)			
Magnesium (mg/l)	64		
Manganese (mg/l)			
Mercury (mg/l)			
Molybdenum (mg/l)			
Nickel (mg/l)			
Phenol (mg/l)			
Potassium (mg/l)			
Radionuclides (mg/l)			
Soap, oil or grease (mg/l)			
Sodium (mg/l)			
Sulphate (mg/l)	121		
Tin (mg/l)			
Total dissolved solids (mg/l)	321		
Total suspended solids (mg/l)	12		
Total nitrogen (mg/l)			
Total phosphorus (mg/l)			
Uranium (mg/l)			
Vanadium (mg/l)			
Zinc (mg/l)			

2.5.8

Description of management measures

Capacity for wastewater storage when irrigation is not possible (cubic meters)	22,000 m ³	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is a storm water runoff collection system in place?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is a system for screening of suspended solids in place?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
a) screen mesh size (mm)			
b) number of fat traps (enter 0 if none)			
Is the land properly sited to minimise runoff and ingress of external stormwater?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Effluent irrigated on to the facility/land meets general authorisation standards in terms of disposal volumes		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Effluent irrigated on to the facility/land meets general authorisation standards in terms of concentration of contaminants		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Effluent irrigated meets the licenced standards		<input type="checkbox"/> Yes	<input type="checkbox"/> No
Large areas are deployed with continuous shift of irrigation to enable adequate evaporation of the effluent water		<input type="checkbox"/> Yes	<input type="checkbox"/> No
Irrigation controlled & limited to safe quantities		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Application of effluent follows principles of "beneficial use"		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

3. RECEIVING ENVIRONMENT/RECEPTOR

Serves to address the following: The resource that needs to be protected and related issues such as: how close to surface water, groundwater level, presence of boreholes, whether communities use boreholes or abstract from the surface water, etc.

3.1 Description of nearby water resource(s)

3.1.1 Description of surface water resources

(Mark only one box with an X)

a) Type of surface water resource, nearest to location where irrigation is taking place

- | | |
|--|---|
| <input checked="" type="checkbox"/> River / Stream | <input type="checkbox"/> Dam |
| <input type="checkbox"/> Estuary | <input type="checkbox"/> Lake |
| <input type="checkbox"/> Wetland | <input type="checkbox"/> Government Water Scheme |
| <input type="checkbox"/> Marine | <input type="checkbox"/> Other (please specify below) |

b) Name / description of the nearest surface water resource:

UNNAMED TRIBUTARY OF
LIMPOPO RIVER

c) Distance to the nearest water resource (meters)

120

3.1.2 Description of Groundwater Resources

(Mark only one box with an X)

a) Type of groundwater resource, nearest to location where irrigation is taking place

- | | |
|---|---|
| <input type="checkbox"/> Spring / Eye | <input type="checkbox"/> Government Water Scheme |
| <input checked="" type="checkbox"/> Borehole | <input type="checkbox"/> Boreholes And Windmills On Government Land |
| <input type="checkbox"/> Other (please specify below) | |

b) Name / description of the nearest groundwater resource

OVERLAKTE AQUIFER

c) Distance to the nearest groundwater resource (meters)

5900

3.2 Location of area irrigated with waste or water containing waste

3.2.1 Geographical location for each of the external corner points of the area.

Area/Field No:

1

This Area/Field No. Area in Hectare(s):

1.5

Centre point due to small area.

Latitude S 22° 10' 26.0" or S ° ' " or S ° ' "

Longitude E 29° 40' 21.0" or E ° ' " or E ° ' "

Datum type ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S ° ' " or S ° ' " or S ° ' "

Longitude E ° ' " or E ° ' " or E ° ' "

Datum type ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S ° ' " or S ° ' " or S ° ' "

Longitude E ° ' " or E ° ' " or E ° ' "

Datum type ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S ° ' " or S ° or S ° ' ,
 Longitude E ° ' " or E ° or E ° ' ,
 Datum type ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Area/Field No: This Area/Field No. Area in Hectare(s):

Latitude S ° ' " or S ° or S ° ' ,
 Longitude E ° ' " or E ° or E ° ' ,
 Datum type ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S ° ' " or S ° or S ° ' ,
 Longitude E ° ' " or E ° or E ° ' ,
 Datum type ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S ° ' " or S ° or S ° ' ,
 Longitude E ° ' " or E ° or E ° ' ,
 Datum type ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S ° ' " or S ° or S ° ' ,
 Longitude E ° ' " or E ° or E ° ' ,
 Datum type ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Area/Field No: This Area/Field No. Area in Hectare(s):

Latitude S ° ' " or S ° or S ° ' ,
 Longitude E ° ' " or E ° or E ° ' ,
 Datum type ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S ° ' " or S ° or S ° ' ,
 Longitude E ° ' " or E ° or E ° ' ,
 Datum type ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S ° ' " or S ° or S ° ' ,
 Longitude E ° ' " or E ° or E ° ' ,
 Datum type ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S ° ' " or S ° or S ° ' " or
 Longitude E ° ' " or E ° or E ° ' " or

Datum type ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Area/Field No:

This Area/Field No. Area in Hectare(s):

Latitude S ° ' " or S ° or S ° ' " or
 Longitude E ° ' " or E ° or E ° ' " or

Datum type ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S ° ' " or S ° or S ° ' " or
 Longitude E ° ' " or E ° or E ° ' " or

Datum type ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S ° ' " or S ° or S ° ' " or
 Longitude E ° ' " or E ° or E ° ' " or

Datum type ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S ° ' " or S ° or S ° ' " or
 Longitude E ° ' " or E ° or E ° ' " or

Datum type ☐ Cape (Modified Clarke 1880) ☐ WGS-84

3.2.2 Drainage Region Details:

Quaternary Drainage Region

A71L

3.2.3 Property Relationship Details (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property				Property Relationship Date		
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Sumname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)	From:	To:
Bergin Op Zoom 124 MS					12375/2009	MS	124	RE			

4. LIST OF SUPPORTING TECHNICAL INFORMATION

4.1 Confirm that the following forms have been included in this application

DW901	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
DW902	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
DW905	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

4.2 Mark with an X if these documents have been submitted with this application

Environmental Impact Assessment (EIA)	<input checked="" type="checkbox"/>
Environmental Management Programme (EMPR)	<input type="checkbox"/>
Standard Environmental Management Programme	<input type="checkbox"/>
Integrated Water and Waste Management Plan (IWWMP)	<input checked="" type="checkbox"/>
Integrated Water Use Licence Application Report	<input type="checkbox"/>
Report on Waste Water Quality (solute load, seasonal changes, etc.)	<input type="checkbox"/>
Report on Industrial Process Generating Waste water	<input type="checkbox"/>
Geohydrological Report	<input checked="" type="checkbox"/>
Civil Designs	<input checked="" type="checkbox"/>
Contingency Plan for Failures and Malfunctions of System	<input checked="" type="checkbox"/>
Monitoring Programme(s)	<input checked="" type="checkbox"/>
Topographical Map (1:50 000)	<input type="checkbox"/>
National Water Act (Act No 36 of 1998) – Section 27 Evaluation	<input checked="" type="checkbox"/>
DW760 NWA-Section 21(a)	<input checked="" type="checkbox"/>
DW761 NWA-Section 21(b)	<input type="checkbox"/>
DW762 NWA-Section 21(b)	<input checked="" type="checkbox"/>
DW763 NWA-Section 21(c)	<input checked="" type="checkbox"/>
DW764 NWA-Section 21(d)	<input type="checkbox"/>
DW765 NWA-Section 21(e)	<input checked="" type="checkbox"/>
DW766 NWA-Section 21(f)	<input type="checkbox"/>
DW767 NWA-Section 21(g)	<input checked="" type="checkbox"/>
DW768 NWA-Section 21(i)	<input checked="" type="checkbox"/>
DW780 NWA-Section 21(h)	<input type="checkbox"/>
DW805 NWA-Section 21(j)	<input checked="" type="checkbox"/>
DW903	<input checked="" type="checkbox"/>
DW904	<input type="checkbox"/>

Other (specify other documents submitted with this form)

D	W					<input type="checkbox"/>
D	W					<input type="checkbox"/>
D	W					<input type="checkbox"/>

5. THIS SECTION IS RESERVED FOR OFFICE USE ONLY

5.1 Management Classification Details

Waste Generating Sector	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
		Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Industry	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 10%	70-100% <input type="text"/> <input type="text"/> <input type="text"/> %
Domestic	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 10%	50-70% <input type="text"/> <input type="text"/> <input type="text"/> %
	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 10%	70-100% <input type="text"/> <input type="text"/> <input type="text"/> %
Agricultural	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 10%	50-70% <input type="text"/> <input type="text"/> <input type="text"/> %
	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 10%	70-100% <input type="text"/> <input type="text"/> <input type="text"/> %

5.2 Succession transfer and source part 2 details

5.2.1 Is this a 'succession in title' related water use transfer?

☐ Yes

☐ No

5.2.2 If yes, complete the following details where applicable.

Source Register Number	WU Number	WU Status to be Allocated	WU Close Date (if applicable) (ccyymmdd)
<input type="text"/>	<input type="text"/>		<input type="text"/>
<input type="text"/>	<input type="text"/>		<input type="text"/>
<input type="text"/>	<input type="text"/>		<input type="text"/>

5.3 District Municipality

District Municipality Name (if applicable)

5.4 Billing information

5.4.1 Applicant to be billed as:

☐ Water User

or ☐ Via a WUA/WSP

Start Date (ccyymmdd)

End Date (ccyymmdd)

5.4.2 Bill incentive charge:

☐ On actual load(s)

or ☐ Registered load(s)

Start Date (ccyymmdd)

End Date (ccyymmdd)

5.4.3 Billing Frequency:

☐ Annually

☐ Bi-annually

☐ Monthly

5.4.4 If to be billed via WUA/WSP:

Name of WUA/WSP

Is WUA/WSP a Billing Agent?

☐ Yes☐ No

Billing Agent's Register Number

[illegible]

5.4.5 If this WU is to be billed via a Bulk Billing Party that is not a WSP/WUA, complete the following:

Name of Customer

Bulk-Bill-to-Party Register Number

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

5.5 Waste management scheme information

Waste scheme name (if applicable)

- If the Waste Scheme is applicable, provide WSMP (Waste Scheme Management Parameter Name)

- Specify the date from which this WSMP is applicable to this water use (ccyyymmdd)

[illegible]

5.6 Late registration penalty

Is this a late registration?

☐ Yes☐ No

If yes, mark with an X, the applicable penalty to be levied

☐ R300.00 OR

☐ 10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable

☐ Waive penalty

5.7 Authorisation details

5.7.1 Water use takes/took place in terms of the General Authorisation: ☐ Yes ☐ No

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

Date(s) from which applicable GA is/was applicable to this water use	
South African Act: [E.g. National Water Act (Act No. 36 of 1998)]	Applicable section of the act: [E.g. Section 21]
Date From (ccyymmdd) <input type="text"/>	Government Notice No. <input type="text"/>
Date To (ccyymmdd) <input type="text"/>	Government Notice Date (ccyymmdd) <input type="text"/>
Applicable Section Of The General Authorisation	
Date From (ccyymmdd) <input type="text"/>	Government Notice No. <input type="text"/>
Date To (ccyymmdd) <input type="text"/>	Government Notice Date (ccyymmdd) <input type="text"/>
Applicable Section Of The General Authorisation	
Date From (ccyymmdd) <input type="text"/>	Government Notice No. <input type="text"/>
Date To (ccyymmdd) <input type="text"/>	Government Notice Date (ccyymmdd) <input type="text"/>
Applicable Section Of The General Authorisation	

5.7.2 If an authorisation has been issued under other legislation – provide the Law/Regulation details if known/available.

5.7.3 If this application represents a licence related water use (new licence application or previously submitted application) – complete following details if known/available.

Responsible Licensing Authority Reference

Responsible Licensing Authority Business Unit



water affairs

Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

Part 2: WASTE DISCHARGE RELATED WATER USE IN TERMS OF SECTION 21(e) OF THE NATIONAL WATER ACT, (ACT NO. 36 OF 1998)

Sections 21(e): engaging in a controlled activity: irrigation of any land with waste or water containing waste generated through any industrial activity or by a waterwork.

1. GENERAL INFORMATION

Mark the applicable option(s) with an X and/or complete details where applicable/available.

- 1.1 Indicate the nature of this application: ☒ Licence ☐ Registration (only)
- 1.2 Have you already registered a water use with the Department of Water Affairs and Forestry? ☐ Yes ☒ No
Registration number:
Water use number:
- 1.3 Indicate if Section 21(j) is applicable to this water use application: **Section 21(j):** removing, discharging or disposing of water found underground if it is necessary for the efficient continuation of an activity or for the safety of people. ☒ Yes ☐ No
Note: If Yes was selected, ensure that a DW805 application form has been submitted.
- 1.4 Do you have a licence, permit or exemption for this waste discharge? ☐ Yes ☒ No
(Issued in terms of the National Water Act (Act No. 36 of 1998),
Water Act (Act No. 54 of 1956)
or the Environmental Conservation Act (Act No. 73 of 1989))
Licence number:
OR
Permit number:
OR
Exemption reference number:

1.5 Applicant Type (mark only one block with X)

- ☐ Individual (complete 1.6)
 ☐ Provincial Department (complete 1.9)
- ☒ Company, business, partnership or community (complete 1.7)
 ☐ Water Services Provider (complete 1.10)
- ☐ National Department (complete 1.8)
 ☐ Water User Association (complete 1.11)

1.6 If the applicant is an individual

1.6.1 Title Surname Initials

1.6.2 South African ID (if holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

Passport Expiry Date (ccyymmdd)

Passport Country Of Issue

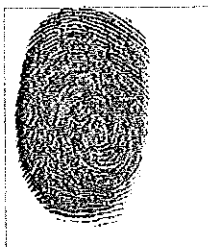
1.7 If the applicant is a company, business, partnership or community:**1.7.1** Name of company, business, partnership or community:
1.7.2 Business Enterprise Registration Number
1.7.3 Date Established (ccyymmdd)

Country Where Established

1.8 If the applicant is a National Department:**1.8.1** National Department Name:
1.9 If the applicant is a Provincial Department:**1.9.1** Province:
1.9.2 Provincial Department Name:
1.10 If the applicant is a Water Services Provider:**1.10.1** Name of WSP:
1.11 If the applicant is a Water User Association:**1.11.1** Name of WUA:

Declaration by applicant or waste discharger

Delete the words that are not applicable I/~~we~~ BALDWIN KHOSA (FULL NAME(S))
hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Thumb print



Signature

Company Representative

Designation of signatory

(011) 785 4578

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

2. DESCRIPTION OF THE WASTE GENERATED

2.1 Select the sector that generates the wastewater or waste which this application refers to

(Mark only one box with an X)

(Note, if more than one option is applicable, you must fill in a separate application form per sub-sector)

Agriculture

- ☐ Aquaculture
☐ Irrigation

- ☐ Intensive Animal Husbandry
☐ Other (please specify below)

Urban / Domestic

- ☐ Sewage Treatment Works

- ☐ Water Treatment Works

Industry

- ☐ Agroprocessing
☐ Fertilisers
☐ Metal Processing And Finishing
☐ Textile
☐ Power generation

- ☐ Meat Processing
☐ Manufacturing
☐ Paper And Pulp
☐ Winery
☐ Other (please specify below)

Mining

- ☒ Coal
☐ Gold
☐ Platinum
☐ Copper
☐ Chromium
☐ Iron

- ☐ Diamond
☐ Sand-winning
☐ Quarrying
☐ Peat Mining
☐ Uranium
☐ Other (please specify below)

2.2 Which of the following describes the nature of the wastewater?

(Mark the applicable options with an X)

- 2.2.1 Wastewater containing <70% water by mass (i.e. sludge) ☐
2.2.2 Wastewater containing >70% water by mass ☐
2.2.3 Wastewater with high acidity (i.e. pH <5) or alkalinity (i.e. pH >10) ☐
2.2.4 Wastewater with temperature of >50°C ☐
2.2.5 Wastewater with an oxygen content of <5 mg/l ☐
2.2.6 Wastewater with an EC (Electrical Conductivity) of >500mS/m ☒
2.2.7 Wastewater with an EC of <500mS/m ☐

2.3 Which of the following describes the composition of the wastewater?

(Mark the applicable options with an X)

- 2.3.1 Wastewater consisting of > 90% organic content by mass (i.e. load) ☐
2.3.2 Wastewater consisting of 50 – 90% organic content and 10 – 50% metals or salts by mass (i.e. load) ☐
2.3.3 Wastewater consisting of 10 – 50% organic content and 50 – 90% metals or salts by mass (i.e. load) ☐
2.3.4 Wastewater consisting of >90% metals or salts by mass (i.e. load) ☒

2.4 Describe the activity that generates the waste

Opencast coal mining.
Dewatering of opencast pits
(rainfall into pit / groundwater
inflows)

2.5 Details of water use

2.5.1 Water use start & end date

When did/will this water use start? (ccyymmdd)

20100301

When did/will this water use end? (If applicable)
(ccyymmdd)

2.5.2 Portion of property/land under irrigation

Total area of land irrigated hectares

2.5.3 Crops under wastewater irrigation

Crop type (e.g. mellees, lucerne)	% of total volume waste/wastewater irrigated per year
N/A - utilised for dust suppression on haul road / mining area.	± 20%

2.5.4 Volume of wastewater irrigated (cubic meters)

Total volume of wastewater irrigated per year	109,500
Maximum volume of wastewater irrigated on any given day	500

2.5.5 Monthly irrigation pattern expressed in:

☒ Cubic meters

OR

☐ Percentage (%) of total volume of wastewater discharged per year

OR

☐ Another unit of measure

If "Another unit of measure" was selected, specify the "unit of measure" to be applied to the monthly irrigation pattern details:

	Minimum	Average	Maximum
January	<input type="text"/> <input type="text"/> 3100	<input type="text"/> <input type="text"/> 9300	<input type="text"/> <input type="text"/> 15500
February	<input type="text"/> <input type="text"/> 2800	<input type="text"/> <input type="text"/> 8400	<input type="text"/> <input type="text"/> 14000
March	<input type="text"/> <input type="text"/> 3100	<input type="text"/> <input type="text"/> 9300	<input type="text"/> <input type="text"/> 15500
April	<input type="text"/> <input type="text"/> 3000	<input type="text"/> <input type="text"/> 9000	<input type="text"/> <input type="text"/> 15000
May	<input type="text"/> <input type="text"/> 3100	<input type="text"/> <input type="text"/> 9300	<input type="text"/> <input type="text"/> 15500
June	<input type="text"/> <input type="text"/> 3000	<input type="text"/> <input type="text"/> 9000	<input type="text"/> <input type="text"/> 15000
July	<input type="text"/> <input type="text"/> 3100	<input type="text"/> <input type="text"/> 9300	<input type="text"/> <input type="text"/> 15500
August	<input type="text"/> <input type="text"/> 3100	<input type="text"/> <input type="text"/> 9300	<input type="text"/> <input type="text"/> 15500
September	<input type="text"/> <input type="text"/> 3000	<input type="text"/> <input type="text"/> 9000	<input type="text"/> <input type="text"/> 15000
October	<input type="text"/> <input type="text"/> 3100	<input type="text"/> <input type="text"/> 9300	<input type="text"/> <input type="text"/> 15500
November	<input type="text"/> <input type="text"/> 3000	<input type="text"/> <input type="text"/> 9000	<input type="text"/> <input type="text"/> 15000
December	<input type="text"/> <input type="text"/> 3100	<input type="text"/> <input type="text"/> 9300	<input type="text"/> <input type="text"/> 15500

2.5.6 Origin of irrigated waste water

National Water Act - Section 21(g/j) Water Use					
Section 21(?)	Registered*		Volume of water applicable to this waste discharge (m³)	If Registered*	
				Register number	Water Use Number
21(j)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	109,500/a.		
	<input type="checkbox"/> Yes	<input type="checkbox"/> No			
	<input type="checkbox"/> Yes	<input type="checkbox"/> No			
	<input type="checkbox"/> Yes	<input type="checkbox"/> No			

2.5.7 Registered Waste Discharge Information

Average irrigated volume (cubic meters)	9300	Time Interval: <input checked="" type="checkbox"/> Per Month	<input type="checkbox"/> Per Annum
Maximum irrigated volume anticipated (cubic meters)	109,500	Time Interval: <input type="checkbox"/> Per Month	<input checked="" type="checkbox"/> Per Annum

Quality Variable And Unit Of Measurement	Average Irrigated Concentration	For Office Use Only	
		Irrigated Load (kg)	NPS Load (kg)
Coliforms (Colony Forming Units/ml)			
Enteric pathogens e.g. E.coli (Colony Forming Units/ml)			
pH (pH units)	Neutral		
Temperature (°C)			
Acidity (mg/l)			
Alkalinity (mg/l)			
Aluminium (mg/l)			
Ammonia (mg/l)			
Arsenic (mg/l)			
Barium (mg/l)			
Boron (mg/l)			
Bromide (mg/l)			
Cadmium (mg/l)			
Calcium (mg/l)			
Chemical oxygen demand (mg/l)			
Chloride (mg/l)	8000		
Chromium (mg/l)			

NOTE This is the natural background water quality of the secondary aquifer in the area and the poor quality is not as a result of the mining activity.

Continued on next page

Quality Variable And Unit Of Measurement	Average Irrigated Concentration	For Office Use Only	
		Irrigated Load (kg)	NPS Load (kg)
Chromium(vi) (mg/l)			
Cobalt (mg/l)			
Copper (mg/l)			
Cyanide (mg/l)			
Fluoride (mg/l)	0.2		
Iron (mg/l)			
Lead (mg/l)			
Lithium (mg/l)			
Magnesium (mg/l)	800		
Manganese (mg/l)			
Mercury (mg/l)			
Molybdenum (mg/l)			
Nickel (mg/l)			
Phenol (mg/l)			
Potassium (mg/l)			
Radionuclides (mg/l)			
Soap, oil or grease (mg/l)			
Sodium (mg/l)	6500		
Sulphate (mg/l)	5100		
Tin (mg/l)			
Total dissolved solids (mg/l)	27000		
Total suspended solids (mg/l)			
Total nitrogen (mg/l)			
Total phosphorus (mg/l)			
Uranium (mg/l)			
Vanadium (mg/l)			
Zinc (mg/l)			

2.5.8

Description of management measures

Capacity for wastewater storage when irrigation is not possible (cubic meters)

7,200 m³☒ Yes ☐ No

Is a storm water runoff collection system in place?

☒ Yes ☐ No

Is a system for screening of suspended solids in place?

☐ Yes ☒ No

a) screen mesh size (mm)

b) number of fat traps (enter 0 if none)

Is the land properly sited to minimise runoff and ingress of external stormwater?

☒ Yes ☐ No

Effluent irrigated on to the facility/land meets general authorisation standards in terms of disposal volumes

☐ Yes ☒ No

Effluent irrigated on to the facility/land meets general authorisation standards in terms of concentration of contaminants

☐ Yes ☒ No

Effluent irrigated meets the licenced standards

☐ Yes ☐ No

Large areas are deployed with continuous shift of irrigation to enable adequate evaporation of the effluent water

☒ Yes ☐ No

Irrigation controlled & limited to safe quantities

☒ Yes ☐ No

Application of effluent follows principles of "beneficial use"

☒ Yes ☐ No

3. RECEIVING ENVIRONMENT/RECEPTOR

Serves to address the following: The resource that needs to be protected and related issues such as: how close to surface water, groundwater level, presence of boreholes, whether communities use boreholes or abstract from the surface water, etc.

3.1 Description of nearby water resource(s)

3.1.1 Description of surface water resources

(Mark only one box with an X)

a) Type of surface water resource, nearest to location where irrigation is taking place

☒ River / Stream

☐ Estuary

☐ Wetland

☐ Marine

☐ Dam

☐ Lake

☐ Government Water Scheme

☐ Other (please specify below)

b) Name / description of the nearest surface water resource:

LIMPOPO RIVER

c) Distance to the nearest water resource (meters)

1100

(at closest point)

3.1.2 Description of Groundwater Resources

(Mark only one box with an X)

a) Type of groundwater resource, nearest to location where irrigation is taking place

☐ Spring / Eye

☒ Borehole

☒ Other (please specify below)

☐ Government Water Scheme

☐ Boreholes And Windmills On Government Land

OVERLAKTE AQUIFER

b) Name / description of the nearest groundwater resource

c) Distance to the nearest groundwater resource (meters)

1100

(at closest point)

3.2 Location of area irrigated with waste or water containing waste

3.2.1 Geographical location for each of the external corner points of the area.

Area/Field No:

1

This Area/Field No. Area in Hectare(s):

1

Latitude S 22° 08' 58.0" or S ° ' " or S ° ' "

Longitude E 29° 40' 42.4" or E ° ' " or E ° ' "

Datum type

☐ Cape (Modified Clarke 1880)

☒ WGS-84

Latitude S 22° 09' 56.7" or S ° ' " or S ° ' "

Longitude E 29° 41' 23.2" or E ° ' " or E ° ' "

Datum type

☐ Cape (Modified Clarke 1880)

☒ WGS-84

Latitude S 22° 09' 43.4" or S ° ' " or S ° ' "

Longitude E 29° 39' 52.1" or E ° ' " or E ° ' "

Datum type

☐ Cape (Modified Clarke 1880)

☒ WGS-84

Latitude S ° ' " or S ° ' " or S ° ' "

Longitude E ° ' " or E ° ' " or E ° ' "

Datum type ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Area/Field No:

This Area/Field No. Area in Hectare(s):

Latitude S ° ' " or S ° ' " or S ° ' "

Longitude E ° ' " or E ° ' " or E ° ' "

Datum type ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S ° ' " or S ° ' " or S ° ' "

Longitude E ° ' " or E ° ' " or E ° ' "

Datum type ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S ° ' " or S ° ' " or S ° ' "

Longitude E ° ' " or E ° ' " or E ° ' "

Datum type ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S ° ' " or S ° ' " or S ° ' "

Longitude E ° ' " or E ° ' " or E ° ' "

Datum type ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Area/Field No:

This Area/Field No. Area in Hectare(s):

Latitude S ° ' " or S ° ' " or S ° ' "

Longitude E ° ' " or E ° ' " or E ° ' "

Datum type ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S ° ' " or S ° ' " or S ° ' "

Longitude E ° ' " or E ° ' " or E ° ' "

Datum type ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S ° ' " or S ° ' " or S ° ' "

Longitude E ° ' " or E ° ' " or E ° ' "

Datum type ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S ° ' " or S ° or S ° ' " or S ° ' " or S ° ' "

Longitude E ° ' " or E ° or E ° ' " or E ° ' " or E ° ' "

Datum type ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Area/Field No: This Area/Field No. Area in Hectare(s):

Latitude S ° ' " or S ° or S ° ' " or S ° ' " or S ° ' "

Longitude E ° ' " or E ° or E ° ' " or E ° ' " or E ° ' "

Datum type ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S ° ' " or S ° or S ° ' " or S ° ' " or S ° ' "

Longitude E ° ' " or E ° or E ° ' " or E ° ' " or E ° ' "

Datum type ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S ° ' " or S ° or S ° ' " or S ° ' " or S ° ' "

Longitude E ° ' " or E ° or E ° ' " or E ° ' " or E ° ' "

Datum type ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S ° ' " or S ° or S ° ' " or S ° ' " or S ° ' "

Longitude E ° ' " or E ° or E ° ' " or E ° ' " or E ° ' "

Datum type ☐ Cape (Modified Clarke 1880) ☐ WGS-84

3.2.2 Drainage Region Details:

Quaternary Drainage Region

3.2.3 Property Relationship Details (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property				Property Relationship Date	
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property		Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)
Overlakte					T 44946/2009					
					MS					
					125					
					3+4					
Overlakte					T 22619/2009					
					MS					
					125					
					S					

4. LIST OF SUPPORTING TECHNICAL INFORMATION

4.1 Confirm that the following forms have been included in this application.

DW901	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
DW902	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
DW905	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

4.2 Mark with an X if these documents have been submitted with this application

Environmental Impact Assessment (EIA)	<input checked="" type="checkbox"/>
Environmental Management Programme (EMPR)	<input type="checkbox"/>
Standard Environmental Management Programme	<input type="checkbox"/>
Integrated Water and Waste Management Plan (IWWMP)	<input checked="" type="checkbox"/>
Integrated Water Use Licence Application Report	<input type="checkbox"/>
Report on Waste Water Quality (solute load, seasonal changes, etc.)	<input type="checkbox"/>
Report on Industrial Process Generating Waste water	<input type="checkbox"/>
Geohydrological Report	<input checked="" type="checkbox"/>
Civil Designs	<input checked="" type="checkbox"/>
Contingency Plan for Failures and Malfunctions of System	<input checked="" type="checkbox"/>
Monitoring Programme(s)	<input checked="" type="checkbox"/>
Topographical Map (1:50 000)	<input type="checkbox"/>
National Water Act (Act No 36 of 1998) – Section 27 Evaluation	<input checked="" type="checkbox"/>
DW760 NWA-Section 21(a)	<input checked="" type="checkbox"/>
DW761 NWA-Section 21(b)	<input type="checkbox"/>
DW762 NWA-Section 21(b)	<input checked="" type="checkbox"/>
DW763 NWA-Section 21(c)	<input checked="" type="checkbox"/>
DW764 NWA-Section 21(d)	<input type="checkbox"/>
DW765 NWA-Section 21(e)	<input checked="" type="checkbox"/>
DW766 NWA-Section 21(f)	<input type="checkbox"/>
DW767 NWA-Section 21(g)	<input checked="" type="checkbox"/>
DW768 NWA-Section 21(i)	<input checked="" type="checkbox"/>
DW780 NWA-Section 21(h)	<input type="checkbox"/>
DW805 NWA-Section 21(j)	<input checked="" type="checkbox"/>
DW903	<input checked="" type="checkbox"/>
DW904	<input type="checkbox"/>

Other (specify other documents submitted with this form)

[illegible]

Waste Generating Sector	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
		Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Industry	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 10%	70-100% <input type="text"/> <input type="text"/> <input type="text"/> %
Domestic	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 10%	50-70% <input type="text"/> <input type="text"/> <input type="text"/> %
	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 10%	70-100% <input type="text"/> <input type="text"/> <input type="text"/> %
Agricultural	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 10%	50-70% <input type="text"/> <input type="text"/> <input type="text"/> %
	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 10%	70-100% <input type="text"/> <input type="text"/> <input type="text"/> %

5.2.1 Is this a 'succession in title' related water use transfer? ☐ Yes ☐ No

Source Register Number	WU Number	WU Status to be Allocated	WU Close Date (if applicable) (ccyyymmdd)
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

District Municipality Name (if applicable)

5.4.1 Applicant to be billed as:

☐ Water User or ☐ Via a WUA/WSP

☐ On actual load(s) or ☐ Registered load(s) Start Date (ccyyymmdd) End Date (ccyyymmdd)

5.4.3 Billing Frequency: ☐ Annually ☐ Bi-annually ☐ Monthly

Name of WUA/WSP

Is WUA/WSP a Billing Agent?

☐ Yes☐ No

Billing Agent's Register Number

--	--	--	--	--

5.4.5 If this WU is to be billed via a Bulk Billing Party that is not a WSP/WUA, complete the following:

Name of Customer

[illegible]

Bulk-Bill-to-Party Register Number

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

5.5 Waste management scheme information

Waste scheme name (if applicable)

- If the Waste Scheme is applicable, provide WSPM (Waste Scheme Management Parameter Name)

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120
121
122
123
124
125
126
127
128
129
130
131
132
133
134
135
136
137
138
139
140
141
142
143
144
145
146
147
148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
177
178
179
180
181
182
183
184
185
186
187
188
189
190
191
192
193
194
195
196
197
198
199
200
201
202
203
204
205
206
207
208
209
210
211
212
213
214
215
216
217
218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
237
238
239
240
241
242
243
244
245
246
247
248
249
250
251
252
253
254
255
256
257
258
259
260
261
262
263
264
265
266
267
268
269
270
271
272
273
274
275
276
277
278
279
280
281
282
283
284
285
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300
301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320
321
322
323
324
325
326
327
328
329
330
331
332
333
334
335
336
337
338
339
340
341
342
343
344
345
346
347
348
349
350
351
352
353
354
355
356
357
358
359
360
361
362
363
364
365
366
367
368
369
370
371
372
373
374
375
376
377
378
379
380
381
382
383
384
385
386
387
388
389
390
391
392
393
394
395
396
397
398
399
400
401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
418
419
420
421
422
423
424
425
426
427
428
429
430
431
432
433
434
435
436
437
438
439
440
441
442
443
444
445
446
447
448
449
450
451
452
453
454
455
456
457
458
459
460
461
462
463
464
465
466
467
468
469
470
471
472
473
474
475
476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499
500
501
502
503
504
505
506
507
508
509
510
511
512
513
514
515
516
517
518
519
520
521
522
523
524
525
526
527
528
529
530
531
532
533
534
535
536
537
538
539
540
541
542
543
544
545
546
547
548
549
550
551
552
553
554
555
556
557
558
559
560
561
562
563
564
565
566
567
568
569
570
571
572
573
574
575
576
577
578
579
580
581
582
583
584
585
586
587
588
589
590
591
592
593
594
595
596
597
598
599
600
601
602
603
604
605
606
607
608
609
610
611
612
613
614
615
616
617
618
619
620
621
622
623
624
625
626
627
628
629
630
631
632
633
634
635
636
637
638
639
640
641
642
643
644
645
646
647
648
649
650
651
652
653
654
655
656
657
658
659
660
661
662
663
664
665
666
667
668
669
670
671
672
673
674
675
676
677
678
679
680
681
682
683
684
685
686
687
688
689
690
691
692
693
694
695
696
697
698
699
700
701
702
703
704
705
706
707
708
709
710
711
712
713
714
715
716
717
718
719
720
721
722
723
724
725
726
727
728
729
730
731
732
733
734
735
736
737
738
739
740
741
742
743
744
745
746
747
748
749
750
751
752
753
754
755
756
757
758
759
760
761
762
763
764
765
766
767
768
769
770
771
772
773
774
775
776
777
778
779
780
781
782
783
784
785
786
787
788
789
790
791
792
793
794
795
796
797
798
799
800
801
802
803
804
805
806
807
808
809
810
811
812
813
814
815
816
817
818
819
820
821
822
823
824
825
826
827
828
829
830
831
832
833
834
835
836
837
838
839
840
84

- Specify the date from which this WSMP is applicable to this water use (ccyyymmdd)

[illegible]

5.6 Late registration penalty

Is this a late registration?

☐ Yes☐ No

If yes, mark with an X, the applicable penalty to be levied

☐ R300.00 OR☐ 10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable

[illegible]☐ Waive penalty

5.7 Authorisation details

5.7.1 Water use takes/took place in terms of the General Authorisation: ☐ Yes ☐ No

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

Date(s) from which applicable GA is/was applicable to this water use

South African Act:

Applicable section of the act:

[E.g. National Water Act (Act No. 36 of 1998)]

[E.g. Section 21]

Date From
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

Government Notice No.

--	--	--	--

Date To
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

Government Notice Date
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

Applicable Section Of The General Authorisation

Date From
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

Government Notice No.

--	--	--	--

Date To
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

Government Notice Date
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

Applicable Section Of The General Authorisation

Date From
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

Government Notice No.

--	--	--	--

Date To
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

Government Notice Date
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

Applicable Section Of The General Authorisation

5.7.2 If an authorisation has been issued under other legislation – provide the Law/Regulation details if known/available.

5.7.3 If this application represents a licence related water use (new licence application or previously submitted application) – complete following details if known/available.

Responsible Licensing Authority Reference

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Responsible Licensing Authority Business Unit

PART 2 – SECTION 21(g)

- 1. OPENCAST DIRTY WATER DAM**
- 2. PROCESS DIRTY WATER DAM**
- 3. SLURRY FACILITY #1**
- 4. SLURRY FACILITY #2**
- 5. ROM STOCKPILE**
- 6. DE-STONING STOCKPILE**
- 7. SECONDARY WASHING STOCKPILE**
- 8. PRODUCT STOCKPILE**
- 9. DISCARD STOCKPILE**
- 10. IN-PIT DISCARD DISPOSAL**

ASSOCIATED FORMS:

- 1. DW901 – Refer to PART 1**
- 2. DW902 – Refer to PART 1**
- 3. DW905**
- 4. DW904 – NOT APPLICABLE TO NEW USES (NO ACTUAL DATA)**



water affairs

Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

DW767

Part 2: WASTE DISCHARGE RELATED WATER USE IN TERMS OF SECTION 21(g) OF THE NATIONAL WATER ACT, (ACT NO. 36 OF 1998)

Section 21(g): disposing of waste in a manner which may detrimentally impact on a water resource.

1. GENERAL INFORMATION

Mark the applicable option(s) with an X and/or complete details where applicable/available.

- 1.1 Indicate the nature of this application: ☒ Licence ☐ Registration (only)
- 1.2 Have you already registered a water use with the Department of Water Affairs and Forestry? ☐ Yes ☒ No
Registration number:
Water use number:
- 1.3 Indicate If Section 21(j) is applicable to this water use application: **Section 21(j):** removing, discharging or disposing of water found underground if it is necessary for the efficient continuation of an activity or for the safety of people.
☒ Yes ☐ No
Note: If Yes was selected, ensure that a DW805 application form has been submitted.
- 1.4 Do you have a licence, permit or exemption for this waste discharge?
(Issued in terms of the National Water Act (Act No. 36 of 1998),
Water Act (Act No. 54 of 1956)
or the Environmental Conservation Act (Act No. 73 of 1989)) ☐ Yes ☒ No
Licence number:
OR
Permit number:
OR
Exemption reference number:

1.5 Applicant Type (mark only one block with X)

- ☐ Individual (complete 1.6)
 ☐ Provincial Department (complete 1.9)
- ☒ Company, business, partnership or community (complete 1.7)
 ☐ Water Services Provider (complete 1.10)
- ☐ National Department (complete 1.8)
 ☐ Water User Association (complete 1.11)

1.6 If the applicant is an individual

1.6.1 Title Surname Initials

1.6.2 South African ID (If holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

Passport Expiry Date (ccyyymmdd)

Passport Country Of Issue

1.7 If the applicant is a company, business, partnership or community:**1.7.1** Name of company, business, partnership or community:

1.7.2 Business Enterprise Registration Number

1.7.3 Date Established (ccyyymmdd)

Country Where Established

1.8 If the applicant is a National Department:

1.8.1 National Department Name:

1.9 If the property owner is a Provincial Department:

1.9.1 Province:

1.9.2 Provincial Department Name:

1.10 If the property owner is a Water Services Provider:

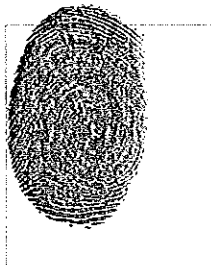
1.10.1 Name of WSP:

1.11 If the property owner is a Water User Association:

1.11.1 Name of WUA:

Declaration by applicant or waste discharger

Delete the words that are not applicable I/we BALDWIN ICHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Signature

Company

Designation of signatory

Thumb print

(011) 785 4518

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd):

It is a criminal offence to provide information that is false or misleading.

2. DESCRIPTION OF THE WASTE GENERATED

2.1 Select the sector that generates the wastewater or waste which this application refers to

(Mark only one box with an X)

(Note, if more than one option is applicable, you must fill in a separate application form per sub-sector)

Agriculture

- ☐ Aquaculture
☐ Irrigation

- ☐ Intensive Animal Husbandry
☐ Other (please specify below)

Urban / Domestic

- ☐ Sewage Treatment Works
☐ Waste Disposal

- ☐ Water Treatment Works

Industry

- ☐ Agroprocessing
☐ Fertilisers
☐ Metal Processing And Finishing
☐ Textile
☐ Power Generation

- ☐ Meat Processing
☐ Manufacturing
☐ Paper And Pulp
☐ Winery
☐ Other (please specify below)

Mining

- ☒ Coal
☐ Gold
☐ Platinum
☐ Copper
☐ Chromium
☐ Iron

- ☐ Diamond
☐ Sand-winning
☐ Quarrying
☐ Peat Mining
☐ Uranium
☐ Other (please specify below)

2.2 Which of the following describes the nature of the wastewater?

(Mark the applicable option(s) with an X)

- 2.2.1 Wastewater containing <70% water by mass (i.e. sludge) ☐
2.2.2 Wastewater containing >70% water by mass ☐
2.2.3 Wastewater with high acidity (i.e. pH <5) or alkalinity (i.e. pH >10) ☐
2.2.4 Wastewater with temperature of >50°C ☐
2.2.5 Wastewater with an oxygen content of <5 mg/l ☐
2.2.6 Wastewater with an EC (Electrical Conductivity) of >500mS/m ☐
2.2.7 Wastewater with an EC of <500mS/m ☒

2.3 Which of the following describes the composition of the wastewater?

(Mark the applicable option(s) with an X)

- 2.3.1 Wastewater consisting of > 90% organic content by mass (i.e. load) ☐
2.3.2 Wastewater consisting of 50 – 90% organic content and 10 – 50% metals or salts by mass (i.e. load) ☐
2.3.3 Wastewater consisting of 10 – 50% organic content and 50 – 90% metals or salts by mass (i.e. load) ☐
2.3.4 Wastewater consisting of >90% metals or salts by mass (i.e. load) ☒

2.4 Describe the activity that generates the waste

Main activity - opencast coal mining
Source water include dirty storm water from opencast infrastructure area and dewatering of opencast areas.

2.5 Discharge to a land based facility

2.5.1 Water use start & end date

When did/will this water use start? (ccyyymmdd)

20100301

When did/will this water use end? (If applicable)
(ccyyymmdd)

2.5.2 The total volume of waste / waste water discharged per year:

182500 Cubic meters

2.5.3 The maximum volume of waste / waste water discharged on any given day:

7200 Cubic meters

(1:50 yr 24hr storm)

2.5.4 Monthly discharge pattern expressed in:

☒ Cubic meters

OR

☐ Percentage (%) of total

OR

☐ Another unit of measure

If "Another unit of measure" was selected, specify the "unit of measure" to be applied to the monthly discharge pattern details:

	Minimum	Average	Maximum
January	3100	7750	15500
February	2800	7000	14000
March	3100	7750	15500
April	3000	7500	15000
May	3100	7750	15500
June	3000	7500	15000
July	3100	7750	15500
August	3100	7750	15500
September	3000	7500	15000
October	3100	7750	15500
November	3000	7500	15000
December	3100	7750	15500

2.5.5 Intake Water

National Water Act - Section 21(a/b/g/j) Water Use					
Section 21(?)	Registered*	Volume of water applicable to this waste discharge (m³)	If Registered*		
			Register Number	Water Use Number	Waste Management Facility Name
21j	<input type="checkbox"/> Yes <input type="checkbox"/> No	109500/a			
	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				

2.5.6 Average disposal volume / discharge volume onto the land / facility

Average disposal volume (cubic meters)	109 500	Time Interval: <input type="checkbox"/> Per Month <input checked="" type="checkbox"/> Per Annum
Maximum disposal volume anticipated (cubic meters)	182 500	Time Interval: <input type="checkbox"/> Per Month <input checked="" type="checkbox"/> Per Annum

Quality Variable And Unit Of Measurement	Concentration	For Office Use Only	
		Waste Load Onto Facility (kg)	NPS Load (kg)
Coliforms (Colony Forming Units/ml)			
Enteric pathogens e.g. E.coli (Colony Forming Units/ml)			
pH (pH units)			
Temperature (°C)			
Acidity (mg/l)			
Alkalinity (mg/l)			
Aluminium (mg/l)			
Ammonia (mg/l)			
Arsenic (mg/l)			
Barium (mg/l)			
Boron (mg/l)			
Bromide (mg/l)			
Cadmium (mg/l)			
Calcium (mg/l)			
Chemical oxygen demand (mg/l)			
Chloride (mg/l)			
Chromium (mg/l)			
Chromium(vi) (mg/l)			

Continued on next page

Quality Variable And Unit Of Measurement	Concentration	For Office Use Only	
		Waste Load Onto Facility (kg)	NPS Load (kg)
Cobalt (mg/l)			
Copper (mg/l)			
Cyanide (mg/l)			
Fluoride (mg/l)			
Iron (mg/l)			
Lead (mg/l)			
Lithium (mg/l)			
Magnesium (mg/l)			
Manganese (mg/l)			
Mercury (mg/l)			
Molybdenum (mg/l)			
Nickel (mg/l)			
Phenol (mg/l)			
Potassium (mg/l)			
Radionuclides (mg/l)			
Soap, oil or grease (mg/l)			
Sodium (mg/l)			
Sulphate (mg/l)			
Tin (mg/l)			
Total dissolved solids (mg/l)			
Total suspended solids (mg/l)			
Total nitrogen (mg/l)			
Total phosphorus (mg/l)			
Uranium (mg/l)			
Vanadium (mg/l)			
Zinc (mg/l)			

3. RECEIVING ENVIRONMENT/RECEPTOR

Serves to address the following: The resource that needs to be protected and related issues such as: how close to surface water, groundwater level, presence of boreholes, whether communities use boreholes or abstract from the surface water, etc.

3.1 Description of nearby water resource(s)

3.1.1 Description of Surface Water Resources

(Mark only one box with an X)

a) Type of surface water resource, nearest to location where discharge is taking place

☒ River / Stream

☐ Dam

☐ Estuary

☐ Lake

☐ Wetland

☐ GWS Scheme

☐ Marine

☐ Other (please specify below)

b) Name / description of the nearest surface water resource:

UNNAMED TRIBUTARY OF LIMPOPO RIVER

c) Distance to the nearest water resource (meters)

120

3.1.2 Description of Groundwater Resources

(Mark only one box with an X)

a) Type of groundwater resource, nearest to location where discharge is taking place

☐ Spring / Eye

☐ GWS Scheme

☒ Borehole

☐ Boreholes And Windmills On Government Land

☐ Other (please specify below)

b) Name / description of the nearest surface water resource

OVERULAKTE AQUIFER

c) Distance to the nearest groundwater resource (meters)

5900

3.2 Drainage Region Details

Quaternary Drainage Region

A71L

3.3 Property Relationship Details (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property				Property Relationship Date	
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	From:	To:
Bergen Op Zoom 124 MS					T12375/2009					
					MS					
					124					
					RE					

4. DISPOSAL OF WASTE

4.1 Commonly used description of waste types to be disposed

4.1.1 Description of the types of waste to be disposed

(Mark the applicable type option(s) with an X and/or complete details where applicable/available.)

- | | |
|--|---|
| <input type="checkbox"/> Sewage Sludge | <input type="checkbox"/> Household Refuse |
| <input type="checkbox"/> Industrial Sludge | <input type="checkbox"/> Farming Waste |
| <input type="checkbox"/> Mining Waste | <input type="checkbox"/> Dry Industrial Waste |
| <input type="checkbox"/> Hazardous Waste | <input type="checkbox"/> Industrial Liquid |
| <input type="checkbox"/> Industrial Ash (all industries) | <input checked="" type="checkbox"/> Other |
| <input type="checkbox"/> Power Generation | |

Specify Other: Dirty stormwater

4.1.2 Approximate maximum volume/tonnage per site per day

500 m³/d

4.1.3 Approximate total tonnage per site per annum

500 tons
N/A tons

4.2 Type of waste management facility

4.2.1 Name of waste site or 'facility'

(Refer attached DW905 form)

LD The water is recycled for use in the process - no cumulative storage.

4.2.2 Select the type of waste disposal site (Mark only one box with an X)

OPENCAST DIRTY WATER DAM

Waste Management Facility Type

	Select with X	Size (ha)	Estimated lifetime (y)	Disposal started on: (ccyyymmdd)	Disposal ceased on: (if applicable) (ccyyymmdd)
Artificial Wetlands					
Ash Dams / Dumps	<input type="checkbox"/>				
Coal Dams	<input type="checkbox"/>				
Composting	<input type="checkbox"/>				
Domestic Waste	<input type="checkbox"/>				
Effluent Dams	<input type="checkbox"/>				
Evaporation Dams/Ponds	<input type="checkbox"/>				
Forced Evaporation	<input type="checkbox"/>				
Maturation Ponds	<input type="checkbox"/>				

Continued on next page

Waste Management Facility Type	Select with X	Size (ha)	Estimated lifetime (y)	Disposal started on: (ccyymmdd)	Disposal ceased on: (if applicable) (ccyymmdd)
Other Waste Water Ponds: (Specify other)	<input type="checkbox"/>				
Open Cast Voids	<input type="checkbox"/>				
Oxidation Ponds	<input type="checkbox"/>				
Polluted Storm Water System	<input checked="" type="checkbox"/>	0.4	30	20100301	
Recycling	<input type="checkbox"/>				
Return Water Dams	<input type="checkbox"/>				
Silt Dams	<input type="checkbox"/>				
Slag Dumps	<input type="checkbox"/>				
Slimes/Tailings Dams	<input type="checkbox"/>				
Sludge Drying Beds	<input type="checkbox"/>				
Sludge Ponds/Lagoons	<input type="checkbox"/>				
Waste Rock Dump	<input type="checkbox"/>				
Waste Storage	<input type="checkbox"/>				
Waste Treatment Plant	<input type="checkbox"/>				
(Specify)					

5. LIST OF SUPPORTING TECHNICAL INFORMATION

5.1 Confirm that the following forms have been included in this application

DW901	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
DW902	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
DW905	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

5.2 Mark with an X if these documents have been submitted with this application

Environmental Impact Assessment (EIA)	<input checked="" type="checkbox"/>
Environmental Management Programme (EMPR)	<input type="checkbox"/>
Standard Environmental Management Programme	<input type="checkbox"/>
Integrated Water and Waste Management Plan (IWWMP)	<input checked="" type="checkbox"/>
Integrated Water Use Licence Application Report	<input type="checkbox"/>
Report on Waste Water Quality (solute load, seasonal changes, etc.)	<input type="checkbox"/>
Report on Industrial Process Generating Waste water	<input type="checkbox"/>
Geohydrological Report	<input checked="" type="checkbox"/>
Civil Designs	<input checked="" type="checkbox"/>
Contingency Plan for Failures and Malfunctions of System	<input checked="" type="checkbox"/>
Monitoring Programme(s)	<input checked="" type="checkbox"/>
Topographical Map (1:50 000)	<input type="checkbox"/>
National Water Act (Act No 36 of 1998) – Section 27 Evaluation	<input checked="" type="checkbox"/>
DW760 NWA-Section 21(a)	<input checked="" type="checkbox"/>
DW761 NWA-Section 21(b)	<input type="checkbox"/>
DW762 NWA-Section 21(b)	<input checked="" type="checkbox"/>
DW763 NWA-Section 21(c)	<input checked="" type="checkbox"/>
DW764 NWA-Section 21(d)	<input type="checkbox"/>
DW765 NWA-Section 21(e)	<input checked="" type="checkbox"/>
DW766 NWA-Section 21(f)	<input type="checkbox"/>
DW767 NWA-Section 21(g)	<input checked="" type="checkbox"/>
DW768 NWA-Section 21(i)	<input checked="" type="checkbox"/>
DW780 NWA-Section 21(h)	<input type="checkbox"/>
DW805 NWA-Section 21(j)	<input checked="" type="checkbox"/>
DW903	<input checked="" type="checkbox"/>
DW904	<input checked="" type="checkbox"/>

Other (specify other documents submitted with this form)

D	W					<input type="checkbox"/>
D	W					<input type="checkbox"/>
D	W					<input type="checkbox"/>

5. THIS SECTION IS RESERVED FOR OFFICE USE ONLY

6.1 Management Classification Details		Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
Waste Generating Sector	Waste Disposal Site Type			Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Mining	Slimes/Tailings Dams		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Evaporation Dams/Ponds		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Effluent Dams		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Return Water Dam		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Forced Evaporation		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Ash Dams/Dumps		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Open Cast Voids		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Waste Rock Dump		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Polluted Storm Water System		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Industry	Evaporation Dams/Ponds	Synthetic liner	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Maturation Ponds		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 10%	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %
		Coal Dams	Clay liner and seepage drains	Salinity, pH, SO ₄ , heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%
	Polluted Storm Water System	Collection and containment facilities	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 100% (no system)
		System captures 1:100 year storm-event	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	60-80% (system overflows 1:2 to 1:5 years) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Domestic	Oxidation Ponds	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Artificial Wetlands	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Polluted Storm Water System	Collection and containment facilities, system captures 1:100 year storm event	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 100% (no system)
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	60-80% (system overflows 1:2 to 1:5 years) <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="margin-left: 5px;">%</div> </div>

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Agricultural	Oxidation Ponds	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Artificial Wetlands	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Polluted Storm Water System		Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> %	<input type="checkbox"/> %
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> %	<input type="checkbox"/> %

6.2 Waste Disposal Site Classification

Mark the site classification with an X (only one option may be selected)

- | | | | |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| <input type="checkbox"/> GCB+ | <input type="checkbox"/> GSB+ | <input type="checkbox"/> GMB+ | <input type="checkbox"/> GLB+ |
| <input type="checkbox"/> GCB- | <input type="checkbox"/> GSB- | <input type="checkbox"/> GMB- | <input type="checkbox"/> GLB- |
| <input type="checkbox"/> H:H | <input type="checkbox"/> H:h | | |

Legend

- | | | | |
|-----|--|---|-------------------|
| B- | Water deficit climate resulting in only sporadic leachate generation | C | Communal Landfill |
| B+ | Water surplus climate resulting in significant leachate generation | S | Small Landfill |
| G | General waste or landfill for general waste | M | Medium Landfill |
| H:H | Hazard waste landfill that can receive waste with a hazard rating of 1 and 2 | L | Large Landfill |
| H:h | Hazard waste landfill that can receive waste with a hazard rating of 3 and 4 | | |

Site classification Date (ccyymmdd)

--	--	--	--	--	--	--	--	--	--

6.3 Authorisation / Regulation Details**6.3.1** Authorisation/Regulation Type (mark the applicable option with an X)

- ☐ Licence ("Registration of a Waste Management Facility in terms of Section 21(g) of the National Water Act".)
- ☐ Permit ("Registration of a Waste Management Facility in terms of Section 20(1) of the Environmental Conservation Act".)
- ☐ Direction ("Registration of a Waste Management Facility in terms of Section 20(5) of the Environmental Conservation Act".)
- ☐ Exemption ("Registration of a Waste Management Facility in terms of Section 20(1) of the Environmental Conservation Act".)

6.3.2 Applicable Authorisation / Regulation Reference Number

OR

Environment Conservation Act Permit Number

6.3.3 The authorisation/regulation is valid from (ccyymmdd)

--	--	--	--	--	--	--	--	--	--

Until
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

6.4 Succession transfer and source part 2 details**6.4.1** Is this a 'succession in title' related water use transfer?☐ Yes☐ No**6.4.2** If yes, complete the following details where applicable.

Source Register Number

WU Number

WU Status to be Allocated

WU Close Date (if applicable)
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

--	--	--	--	--	--

--	--	--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--	--	--

--	--	--	--	--	--

--	--	--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--	--	--

--	--	--	--	--	--

--	--	--	--	--	--	--	--	--	--

6.5 District Municipality

District Municipality Name (if applicable)

6.6 Billing information**6.6.1 Applicant to be billed as:**☐ Water User

or

☐ Via a WUA/WSP

Start Date (ccyymmdd)

--	--	--	--	--	--	--	--

End Date (ccyymmdd)

☐ Water User**6.6.2 Bill incentive charge:**☐ On actual load(s)

or

☐ Registered load(s)

Start Date (ccyymmdd)

--	--	--	--	--	--	--	--

End Date (ccyymmdd)

☐ On actual load(s)**6.6.3 Billing Frequency:**☐ Annually☐ Bi-annually☐ Monthly**6.6.4 If to be billed via WUA/WSP:**

Name of WUA/WSP

Is WUA/WSP a Billing Agent?

☐ Yes☐ No

Billing Agent's Register Number

--	--	--	--	--	--	--	--

6.6.5 If this WU is to be billed via a Bulk Billing Party that is not a WSP/WUA, complete the following:

Name of Customer

Bulk-Bill-to-Party Register Number

--	--	--	--	--	--	--	--

6.7 Waste management scheme information**Waste scheme name (if applicable)**

- If the Waste Scheme is applicable, provide WSMP (Waste Scheme Management Parameter Name)

- Specify the date from which this WSMP is applicable to this water use (ccyymmdd)

--	--	--	--	--	--	--	--

6.8 Late registration penalty

Is this a late registration?

☐ Yes☐ No

If yes, mark with an X, the applicable penalty to be levied

☐ R300.00 OR☐ 10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable

☐ Waive penalty

6.9 Authorisation details

6.9.1 Water use takes/took place in terms of the General Authorisation: ☐ Yes ☐ No

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

Date(s) from which applicable GA is/was applicable to this water use	
South African Act: [E.g. National Water Act (Act No. 36 of 1998)]	Applicable section of the act [E.g. Section 21]
Date From (ccyymmdd) <input type="text"/>	Government Notice No. <input type="text"/>
Date To (ccyymmdd) <input type="text"/>	Government Notice Date (ccyymmdd) <input type="text"/>
Applicable Section Of The General Authorisation <input type="text"/>	
Date From (ccyymmdd) <input type="text"/>	Government Notice No. <input type="text"/>
Date To (ccyymmdd) <input type="text"/>	Government Notice Date (ccyymmdd) <input type="text"/>
Applicable Section Of The General Authorisation <input type="text"/>	
Date From (ccyymmdd) <input type="text"/>	Government Notice No. <input type="text"/>
Date To (ccyymmdd) <input type="text"/>	Government Notice Date (ccyymmdd) <input type="text"/>
Applicable Section Of The General Authorisation <input type="text"/>	

6.9.2 If an authorisation has been issued under other legislation – provide the Law/Regulation details if known/available.

6.9.3 If this application represents a licence related water use (new licence application or previously submitted application) – complete following details if known/available.

Responsible Licensing Authority Reference

Responsible Licensing Authority Business Unit



water affairs

Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

SUPPLEMENTARY WATER USE INFORMATION (ONLY APPLICABLE FOR NWA – SECTION 21g WATER USES)

DETAILS OF WASTE MANAGEMENT FACILITY

1. WASTE MANAGEMENT FACILITY DETAILS

1.1 Name of Waste Management Facility

OPENCAST DIRTY WATER DAM

1.2 Fatal flaw indicators

If any of the following criteria apply to the site, or will apply to a proposed site, mark with an X

- ☐ In an area below the 1 in 100 flood line of any watercourse
- ☐ In unstable areas (e.g. fault zones, seismic zones, dolomitic or karst areas, areas with sinkholes or subsidence)
- ☒ In sensitive ecological and/or historical areas
- ☒ In a catchment area for important, "significant" or sensitive surface water resources
- ☐ In an area with shallow or emergent groundwater, or characterised by flat gradients (wetlands, vleis, springs, etc.)
- ☐ In an area characterised by steep gradients (e.g. where problems with stability could be experienced)
- ☐ Areas of groundwater recharge on account of topography and/or highly permeable soils
- ☐ Overlaying or adjacent to important or potentially important aquifers (Parsons classification: Sole source, major)
- ☐ Within an area with shallow bedrock and limited available cover material
- ☐ Areas in close proximity to land uses that are incompatible with waste disposal activities
- ☐ Areas where adequate buffer zones are not possible

1.3 Method of disposal

- ☐ Trenching ☐ Ash-blending ☐ Co-disposal
- ☒ Other (specify)

Storage of dirty water runoff

1.4 Distance from nearest borehole used for drinking water or stock watering

5900 meters

1.5 Distance from the edge of nearest downstream surface water resource

120 meters

1.6 Lining of the site

- a) The site is / will be ☒ Lined
- b) If lined, the lining system is ☐ Clay
- (Mark the applicable option with an X) ☒ Composite lining system

1.7 Total area of 'property' on which waste is disposed

2078 hectares

1.8 Area of actual waste body ("footprint" area)

0.4 hectares

1.9 Dimensions of waste site

- | | Height or depth | Length | Breadth | |
|---|-----------------------------------|--------|--|--------------|
| a) At commencement | 3.8 | 48 | 20 | meters |
| b) After rehabilitation | 0 | 0 | 0 | meters |
| c) Available air space (Freeboard volume) | | 1720 | | cubic meters |
| d) Total volume already used for waste disposal | | 0 | | cubic meters |
| e) Accuracy of above volumes | <input type="checkbox"/> Surveyor | | <input checked="" type="checkbox"/> Estimate | |

1.10 Buffer Zone

a) Actual distance to the boundary of the nearest:

- Formal residential area
- Informal residential area
- Industrial Area

60000	m
5000	m
60000	m

b) Buffer zone determination done by

☐ Scientific method☒ Actual distance

1.11 Location of Waste Management Facility

1.11.1 Geographical location for each of the external corner points of the waste management facility:

Latitude S 22° 10' 20.4" or S° or S°

Longitude E 29° 40' 43.3" or E° or E°

Datum Type: ☐ Cape (Modified Clarke 1880) ☒ WGS-84

Latitude S 22° 10' 18.6" or S° or S°

Longitude E 29° 40' 45.1" or E° or E°

Datum Type: ☐ Cape (Modified Clarke 1880) ☒ WGS-84

Latitude S 22° 10' 19.6" or S° or S°

Longitude E 29° 40' 46.4" or E° or E°

Datum Type: ☐ Cape (Modified Clarke 1880) ☒ WGS-84

Latitude S 22° 10' 21.5" or S° or S°

Longitude E 29° 40' 44.6" or E° or E°

Datum Type: ☐ Cape (Modified Clarke 1880) ☒ WGS-84

Latitude S° or S° or S°

Longitude E° or E° or E°

Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84

1.11.2 Drainage Region Details: Quaternary Drainage Region

A 7 1 L

1.12 Climatic water balance

The wettest six months of the year are

☒ November to April☐ May to October

The wettest years during the past thirty years were (populate at least one year's details with both rainfall and evaporation detail completed)

Rating	Year	Total rainfall for 6 months		Total evaporation (A-pan) for 6 months		Official use
Wettest year	1 9 9 9	9 5 8	mm	1 0 6 6	mm	
2 nd wettest	1 9 9 5	5 0 2	mm	1 2 6 1	mm	
3 rd wettest	1 9 7 7	5 4 4	mm	1 1 4 4	mm	
4 th wettest	1 9 7 1	4 4 9	mm	1 1 4 3	mm	
5 th wettest	1 9 7 5	4 1 6	mm	1 2 3 4	mm	
6 th wettest	1 9 7 3	4 2 9	mm	1 2 5 2	mm	
7 th wettest	1 9 8 4	2 8 2	mm	1 3 1 0	mm	
8 th wettest	1 9 8 0	4 6 3	mm	1 2 3 6	mm	
9 th wettest	1 9 6 0	4 1 2	mm	1 2 5 0	mm	
10 th wettest	1 9 8 7	3 5 9	mm	1 2 7 2	mm	

Site-specific water balance factors

If leachate is visible (for existing facilities only) mark with an X

☐

Other site specific water balance factors (specify)

SOURCE: DEPARTMENT OF WATER AFFAIRS, WEATHER STATION - A7E006 MACUVILLE

1.13 Details of the person in control of the site

Surname

PRETORIUS

Initials &/or First Name

NICO

Title

MR

ID No.

Phone Number

011 785 4502

Ext

Fax Number

086 692 9728

Cellphone

082 824 0913

E-mail Address

NPretorius@coalofafrica.co.za

Highest Educational Qualification

☐ Grade 8 / Std 6☐ Diploma☐ Grade 10 / Std 8☐ Higher Diploma☐ Matric☒ Degree

2. OPERATION OF THE WASTE MANAGEMENT FACILITY

2.1 Type of operation

- ☐ Landfill or Landbuild ☐ Transfer station ☐ Recycling facility ☐ Incinerator
☐ Composting plant ☐ Storage area ☐ Treatment plant
☐ Encapsulation ☒ Other (specify) Dirty water dam

2.2 Length of time of the operation

Start Date
(ccyymmdd)

20100301

End Date
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

2.3 Is sufficient cover material on site?

☒ Yes☐ No

2.4 Covering and burning of waste (mark applicable options with an X)

N/A

- ☐ Daily compaction and covering ☐ Weekly compaction and covering
☐ Burning of waste

2.5 Is leachate management system present?

☐ Yes☒ No

2.6 Storm water management (mark the applicable options with an X)

- ☒ Upstream cut-off trenches ☒ Contaminated storm water storage facility

3. MANAGEMENT PRACTICES OF THE WASTE MANAGEMENT FACILITY

Tick the options that describe the management practices for the waste facility or site

Artificial Wetlands Facility is generally lined (clay liners typically) and are designed to receive 120l/m²/d at a depth of 30 cm. ☐ Yes ☐ No

Stormwater and seepage drains ☐ Yes ☐ No

Any other practice: _____

Ash Dams/Dumps Facility is lined (synthetic or clay) ☐ Yes ☐ No

Side slopes stabilized to minimize erosion ☐ Yes ☐ No

Rainfall runoff collected into a dirty water storage facility ☐ Yes ☐ No

Collection of percolated storm water via under drains into collection sumps, which should pump the water to a dirty water storage facility ☐ Yes ☐ No

For pits, ingress of water is prevented ☐ Yes ☐ No

Any other practice: _____

Coal Dams Lined facility (synthetic or clay liners) ☐ Yes ☐ No

Seepage drains in place ☐ Yes ☐ No

Storm water drains in place & connected to the polluted storm water system ☐ Yes ☐ No

Effluent in the dam is not of acidic pH ☐ Yes ☐ No

Dam is covered to prevent contact with oxygen ☐ Yes ☐ No

Facility does not maintain anaerobic conditions ☐ Yes ☐ No

Any other practice: _____

Effluent Dams Lined facility (synthetic or clay) ☒ Yes ☐ No

Facility has seepage drains ☐ Yes ☒ No

Splitting of facility into 2 separate compartments for the purposes of cleaning and management ☐ Yes ☒ No

Any other practice: Upstream silt collection system

Evaporation Dams/Ponds Lined facility (synthetic or clay) ☐ Yes ☐ No

Facility is of sufficiently large size to ensure that full evaporation of effluent is achieved ☐ Yes ☐ No

Seepage drains in place ☐ Yes ☐ No

Storm water collection drains in place ☐ Yes ☐ No

Any other practice: _____

Forced Evaporation Evaporation only with wind speeds less than 2m/sec ☐ Yes ☐ No

No evaporate pre-dawn as humidity is high ☐ Yes ☐ No

Any other practice: _____

Continued on next page

Maturation Ponds	Facility lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Facility designed to ensure at least 5 days retention time	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water and seepage collection drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Waste Water Ponds	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water collection drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Open Cast Voids	Diversion of upslope storm water around the void	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Upstream diversion berms or management measures to prevent inflow of water into the void	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Prevention of water flowing into the void by using highball drains where necessary	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Ensure any water within the void is contained	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: <hr/>			

Oxidation Ponds	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate structures in place to ensure capture of a 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water collection drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Polluted Stormwater System	Storm water discharged directly to the resource	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	Collection system incorporating the plant, raw material stockpiles and waste disposal facilities	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
	Clean stormwater separated from stormwater draining "dirty" sites or facilities	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
	Polluted stormwater collected & stored in dams	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Dirty water dam lined (plastic)

Return Water Dams	Sizing to accept seepage from the under drainage systems and decant systems for up to the 1:50 year rainfall event, over and above normal operating conditions	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Continued on next page

Sewage Treatment Works	Pump stations operational	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Emergency storage dam(s) available	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate capacity in emergency storage dams	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Compliance with minimum discharge standards	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate capacity to contain total volume	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Silt Dams	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice: _____		

Slag Dumps	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Separation of clean & dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of rainfall run-off into the dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	After decommissioning, the top surface is shaped to suit drainage requirements and re-vegetated	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Implementation of under drainage systems to collect seepage for re-use as process water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice: _____		

Slimes/Tailings Dams	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Separation of clean & dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of rainfall run-off into the dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	After decommissioning, the top surface is shaped to suit drainage requirements and re-vegetated	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Implementation of under drainage systems to collect seepage for re-use as process water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Covering of side slopes with soil during the operational phase to assist in reducing any contact of rainfall runoff with the tailings	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Vegetation of side slopes to minimise erosion	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Continued on next page

Sludge Drying Beds	Facility is lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Moisture reduction of sludge	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Incorporation of sludge into soil	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate management system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Mixing of high moisture content or liquid waste with dry waste	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice:		<hr/>	

Sludge Ponds/Lagoons	Facility is lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Waste Rock Dump	Stabilisation of side slopes to minimise erosion	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Rainfall runoff collected into a dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Covering of terraces or step-ins with a soil layer, followed by paddocking & vegetation to minimise ingress of water into the dump	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of percolated stormwater via under drains into collection sumps which should pump the water to a dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Waste Storage	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate management system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate detection layer in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate collection layer in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater drains in place & connected to the polluted stormwater system	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	For pits, ingress of water is prevented	<hr/>	
Any other practice:		<hr/>	

Continued on next page

**Waste Treatment
Plant**

Capacity to handle the 1:50 year storm event

☐ Yes☐ No

Stormwater collection system in place

☐ Yes☐ No

Stormwater diversion measures in place

☐ Yes☐ No

Seepage collection system in place

☐ Yes☐ No

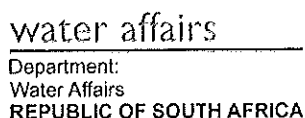
Adequate structures in place to ensure capture of a 1:50 year storm event

☐ Yes☐ No

Emergency incident structures in place

☐ Yes☐ No

Any other practice:



Section 21(g): disposing of waste in a manner which may detrimentally impact on a water resource.

Mark the applicable option(s) with an X and/or complete details where applicable/available.

- | | | | | |
|-----|---|---|--|--|
| 1.1 | Indicate the nature of this application: | <input checked="" type="checkbox"/> Licence | <input type="checkbox"/> Registration (only) | |
| 1.2 | Have you already registered a water use with the Department of Water Affairs and Forestry? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | |
| | | Registration number:
<div style="border: 1px solid black; width: 100px; height: 20px; margin: 2px;"></div> <div style="border: 1px solid black; width: 100px; height: 20px; margin: 2px;"></div> | | |
| | | Water use number:
<div style="border: 1px solid black; width: 100px; height: 20px; margin: 2px;"></div> <div style="border: 1px solid black; width: 100px; height: 20px; margin: 2px;"></div> | | |
| 1.3 | Indicate if Section 21(j) is applicable to this water use application: | Section 21(j): removing, discharging or disposing of water found underground if it is necessary for the efficient continuation of an activity or for the safety of people.

<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |
| | | <u>Note:</u> If Yes was selected, ensure that a DW805 application form has been submitted. | | |
| 1.4 | Do you have a licence, permit or exemption for this waste discharge?

(Issued in terms of the National Water Act (Act No. 36 of 1998),
Water Act (Act No. 54 of 1956)
or the Environmental Conservation Act (Act No. 73 of 1989)) | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | |
| | | Licence number:
<div style="border: 1px solid black; width: 100px; height: 20px; margin: 2px;"></div> <div style="border: 1px solid black; width: 100px; height: 20px; margin: 2px;"></div> | | |
| | | OR | | |
| | | Permit number:
<div style="border: 1px solid black; width: 100px; height: 20px; margin: 2px;"></div> <div style="border: 1px solid black; width: 100px; height: 20px; margin: 2px;"></div> | | |
| | | OR | | |
| | | Exemption reference number:
<div style="border: 1px solid black; width: 100px; height: 20px; margin: 2px;"></div> <div style="border: 1px solid black; width: 100px; height: 20px; margin: 2px;"></div> | | |

1.5 Applicant Type (mark only one block with X)

- ☐ Individual (complete 1.6)
 ☐ Provincial Department (complete 1.9)
- ☒ Company, business, partnership or community (complete 1.7)
 ☐ Water Services Provider (complete 1.10)
- ☐ National Department (complete 1.8)
 ☐ Water User Association (complete 1.11)

1.6 If the applicant is an individual

1.6.1 Title Surname Initials

1.6.2 South African ID (if holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

Passport Expiry Date (ccyyymmdd)

Passport Country Of Issue

1.7 If the applicant is a company, business, partnership or community:**1.7.1** Name of company, business, partnership or community:

1.7.2 Business Enterprise Registration Number

1.7.3 Date Established (ccyyymmdd)

Country Where Established

1.8 If the applicant is a National Department:

1.8.1 National Department Name:

1.9 If the property owner is a Provincial Department:

1.9.1 Province:

1.9.2 Provincial Department Name:

1.10 If the property owner is a Water Services Provider:

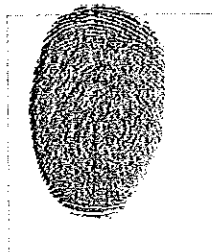
1.10.1 Name of WSP:

1.11 If the property owner is a Water User Association:

1.11.1 Name of WUA:

Declaration by applicant or waste discharger

Delete the words that are not applicable I/~~we~~ BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Baldwin Khosa
Signature
Company Representative
Designation of signatory

Thumb print

1011 785 4518
Contact number during office hours
2009/11/05
Date (ccyy/mm/dd):

It is a criminal offence to provide information that is false or misleading.

2. DESCRIPTION OF THE WASTE GENERATED

2.1 Select the sector that generates the wastewater or waste which this application refers to

(Mark only one box with an X)

(Note, if more than one option is applicable, you must fill in a separate application form per sub-sector)

Agriculture

- ☐ Aquaculture
☐ Irrigation

- ☐ Intensive Animal Husbandry
☐ Other (please specify below)

Urban / Domestic

- ☐ Sewage Treatment Works
☐ Waste Disposal

- ☐ Water Treatment Works

Industry

- ☐ Agroprocessing
☐ Fertilisers
☐ Metal Processing And Finishing
☐ Textile
☐ Power Generation

- ☐ Meat Processing
☐ Manufacturing
☐ Paper And Pulp
☐ Winery
☐ Other (please specify below)

Mining

- ☒ Coal
☐ Gold
☐ Platinum
☐ Copper
☐ Chromium
☐ Iron

- ☐ Diamond
☐ Sand-winning
☐ Quarrying
☐ Peat Mining
☐ Uranium
☐ Other (please specify below)

2.2 Which of the following describes the nature of the wastewater?

(Mark the applicable option(s) with an X)

- 2.2.1 Wastewater containing <70% water by mass (i.e. sludge) ☐
2.2.2 Wastewater containing >70% water by mass ☐
2.2.3 Wastewater with high acidity (i.e. pH <5) or alkalinity (i.e. pH >10) ☐
2.2.4 Wastewater with temperature of >50°C ☐
2.2.5 Wastewater with an oxygen content of <5 mg/l ☐
2.2.6 Wastewater with an EC (Electrical Conductivity) of >500mS/m ☐
2.2.7 Wastewater with an EC of <500mS/m ☒

2.3 Which of the following describes the composition of the wastewater?

(Mark the applicable option(s) with an X)

- 2.3.1 Wastewater consisting of > 90% organic content by mass (i.e. load) ☐
2.3.2 Wastewater consisting of 50 – 90% organic content and 10 – 50% metals or salts by mass (i.e. load) ☐
2.3.3 Wastewater consisting of 10 – 50% organic content and 50 – 90% metals or salts by mass (i.e. load) ☐
2.3.4 Wastewater consisting of >90% metals or salts by mass (i.e. load) ☒

2.4 Describe the activity that generates the waste

Main activity - coal mining
Source water include dirty storm water from processing plant infrastructure area.

2.5 Discharge to a land based facility

2.5.1 Water use start & end date

When did/will this water use start? (ccyymmdd)

20100301

When did/will this water use end? (If applicable)
(ccyymmdd)

2.5.2 The total volume of waste / waste water discharged per year:

273750 Cubic meters

2.5.3 The maximum volume of waste / waste water discharged on any given day:

22000 Cubic meters

(1:50yr 24 hr storm)

2.5.4 Monthly discharge pattern expressed in:

☒ Cubic meters

OR

☐ Percentage (%) of total

OR

☐ Another unit of measure

If "Another unit of measure" was selected, specify the "unit of measure" to be applied to the monthly discharge pattern details:

	Minimum	Average	Maximum
January	3100	15500	23250
February	2800	14000	21000
March	3100	15500	23250
April	3000	15000	22500
May	3100	15500	23250
June	3000	15000	22500
July	3100	15500	23250
August	3100	15500	23250
September	3000	15000	22500
October	3100	15500	23250
November	3000	15000	22500
December	3100	15500	23250

2.5.5 Intake Water

National Water Act - Section 21(a/b/g/j) Water Use					
Section 21(?)	Registered*	Volume of water applicable to this waste discharge (m³)	If Registered*		
			Register Number	Water Use Number	Waste Management Facility Name
N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	—			
	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				

2.5.6 Average disposal volume / discharge volume onto the land / facility

Average disposal volume (cubic meters)	182 500	Time Interval: <input type="checkbox"/> Per Month <input checked="" type="checkbox"/> Per Annum
Maximum disposal volume anticipated (cubic meters)	27 3750	Time Interval: <input type="checkbox"/> Per Month <input checked="" type="checkbox"/> Per Annum

Quality Variable And Unit Of Measurement	Concentration	For Office Use Only	
		Waste Load Onto Facility (kg)	NPS Load (kg)
Coliforms (Colony Forming Units/ml)			
Enteric pathogens e.g. E.coli (Colony Forming Units/ml)			
pH (pH units)			
Temperature (°C)			
Acidity (mg/l)			
Alkalinity (mg/l)			
Aluminium (mg/l)			
Ammonia (mg/l)			
Arsenic (mg/l)			
Barium (mg/l)			
Boron (mg/l)			
Bromide (mg/l)			
Cadmium (mg/l)			
Calcium (mg/l)			
Chemical oxygen demand (mg/l)			
Chloride (mg/l)			
Chromium (mg/l)			
Chromium(vi) (mg/l)			

Continued on next page

Quality Variable And Unit Of Measurement	Concentration	For Office Use Only	
		Waste Load Onto Facility (kg)	NPS Load (kg)
Cobalt (mg/l)			
Copper (mg/l)			
Cyanide (mg/l)			
Fluoride (mg/l)			
Iron (mg/l)			
Lead (mg/l)			
Lithium (mg/l)			
Magnesium (mg/l)			
Manganese (mg/l)			
Mercury (mg/l)			
Molybdenum (mg/l)			
Nickel (mg/l)			
Phenol (mg/l)			
Potassium (mg/l)			
Radionuclides (mg/l)			
Soap, oil or grease (mg/l)			
Sodium (mg/l)			
Sulphate (mg/l)			
Tin (mg/l)			
Total dissolved solids (mg/l)			
Total suspended solids (mg/l)			
Total nitrogen (mg/l)			
Total phosphorus (mg/l)			
Uranium (mg/l)			
Vanadium (mg/l)			
Zinc (mg/l)			

3. RECEIVING ENVIRONMENT/RECEPTOR

Serves to address the following: The resource that needs to be protected and related issues such as: how close to surface water, groundwater level, presence of boreholes, whether communities use boreholes or abstract from the surface water, etc.

3.1 Description of nearby water resource(s)

3.1.1 Description of Surface Water Resources

(Mark only one box with an X)

a) Type of surface water resource, nearest to location where discharge is taking place

☒ River / Stream

☐ Dam

☐ Estuary

☐ Lake

☐ Wetland

☐ GWS Scheme

☐ Marine

☐ Other (please specify below)

b) Name / description of the nearest surface water resource:

Unnamed tributary of Limpopo River

c) Distance to the nearest water resource (meters)

120

3.1.2 Description of Groundwater Resources

(Mark only one box with an X)

a) Type of groundwater resource, nearest to location where discharge is taking place

☐ Spring / Eye

☐ GWS Scheme

☒ Borehole

☐ Boreholes And Windmills On Government Land

☐ Other (please specify below)

b) Name / description of the nearest surface water resource

Overolabte Aquifer

c) Distance to the nearest groundwater resource (meters)

5900

3.2 Drainage Region Details

Quaternary Drainage Region

A71L

3.3 Property Relationship Details (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property				Property Relationship Date		
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)	From:	To:
Bergen P Zoom 124 MS	T12.375/2009	MS	124	RE							

4. DISPOSAL OF WASTE

4.1 Commonly used description of waste types to be disposed

4.1.1 Description of the types of waste to be disposed

(Mark the applicable type option(s) with an X and/or complete details where applicable/available.)

- | | |
|--|---|
| <input type="checkbox"/> Sewage Sludge | <input type="checkbox"/> Household Refuse |
| <input type="checkbox"/> Industrial Sludge | <input type="checkbox"/> Farming Waste |
| <input type="checkbox"/> Mining Waste | <input type="checkbox"/> Dry Industrial Waste |
| <input type="checkbox"/> Hazardous Waste | <input type="checkbox"/> Industrial Liquid |
| <input type="checkbox"/> Industrial Ash (all industries) | <input checked="" type="checkbox"/> Other |
| <input type="checkbox"/> Power Generation | Specify Other: <u>Dirty stormwater</u> |

4.1.2 Approximate maximum volume/tonnage per site per day

750 m³/day

4.1.3 Approximate total tonnage per site per annum

tons

tons

4.2 Type of waste management facility

4.2.1 Name of waste site or 'facility'

(Refer attached DW905 form)

LD The water is recycled for use in the process - no cumulative storage.

4.2.2 Select the type of waste disposal site (Mark only one box with an X)

LD PROCESS DIRTY WATER DAM.

Waste Management Facility Type

	Select with X	Size (ha)	Estimated lifetime (y)	Disposal started on: (ccyymmdd)	Disposal ceased on: (if applicable) (ccyymmdd)
Artificial Wetlands					
Ash Dams / Dumps	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Coal Dams	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Composting	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Domestic Waste	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Effluent Dams	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Evaporation Dams/Ponds	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Forced Evaporation	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Maturation Ponds	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Continued on next page

Waste Management Facility Type	Select with X	Size (ha)	Estimated lifetime (y)	Disposal started on: (ccyymmdd)	Disposal ceased on: (if applicable) (ccyymmdd)
Other Waste Water Ponds: (Specify other)	<input type="checkbox"/>				
Open Cast Voids	<input type="checkbox"/>				
Oxidation Ponds	<input type="checkbox"/>				
Polluted Storm Water System	<input checked="" type="checkbox"/>	0.7	30	20100301	
Recycling	<input type="checkbox"/>				
Return Water Dams	<input type="checkbox"/>				
Silt Dams	<input type="checkbox"/>				
Slag Dumps	<input type="checkbox"/>				
Slimes/Tailings Dams	<input type="checkbox"/>				
Sludge Drying Beds	<input type="checkbox"/>				
Sludge Ponds/Lagoons	<input type="checkbox"/>				
Waste Rock Dump	<input type="checkbox"/>				
Waste Storage	<input type="checkbox"/>				
Waste Treatment Plant (Specify)	<input type="checkbox"/>				

DW901 ☒ Yes ☐ No

DW902 ☒ Yes ☐ No

DW905 ☒ Yes ☐ No

Environmental Impact Assessment (EIA)	<input checked="" type="checkbox"/>
Environmental Management Programme (EMPR)	<input type="checkbox"/>
Standard Environmental Management Programme	<input type="checkbox"/>
Integrated Water and Waste Management Plan (IWWMP)	<input checked="" type="checkbox"/>
Integrated Water Use Licence Application Report	<input type="checkbox"/>
Report on Waste Water Quality (solute load, seasonal changes, etc.)	<input type="checkbox"/>
Report on Industrial Process Generating Waste water	<input type="checkbox"/>
Geohydrological Report	<input checked="" type="checkbox"/>
Civil Designs	<input checked="" type="checkbox"/>
Contingency Plan for Failures and Malfunctions of System	<input checked="" type="checkbox"/>
Monitoring Programme(s)	<input checked="" type="checkbox"/>
Topographical Map (1:50 000)	<input type="checkbox"/>
National Water Act (Act No 36 of 1998) – Section 27 Evaluation	<input checked="" type="checkbox"/>
DW760 NWA-Section 21(a)	<input checked="" type="checkbox"/>
DW761 NWA-Section 21(b)	<input type="checkbox"/>
DW762 NWA-Section 21(b)	<input checked="" type="checkbox"/>
DW763 NWA-Section 21(c)	<input checked="" type="checkbox"/>
DW764 NWA-Section 21(d)	<input type="checkbox"/>
DW765 NWA-Section 21(e)	<input checked="" type="checkbox"/>
DW766 NWA-Section 21(f)	<input type="checkbox"/>
DW767 NWA-Section 21(g)	<input checked="" type="checkbox"/>
DW768 NWA-Section 21(i)	<input checked="" type="checkbox"/>
DW780 NWA-Section 21(h)	<input type="checkbox"/>
DW805 NWA-Section 21(j)	<input checked="" type="checkbox"/>
DW903	<input checked="" type="checkbox"/>
DW904	<input checked="" type="checkbox"/>

Other (specify other documents submitted with this form)

[illegible]

5. THIS SECTION IS RESERVED FOR OFFICE USE ONLY

6.1 Management Classification Details		Management Classification (Mark applicable option(s) with an X)			
Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Best practice leading to zero impact	Poor practice
Mining	Slimes/Tailings Dams		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0% <input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Evaporation Dams/Ponds		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0% <input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Effluent Dams		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0% <input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Return Water Dam		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0% <input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Forced Evaporation		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0% <input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Ash Dams/Dumps		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0% <input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Open Cast Voids		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0% <input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Waste Rock Dump		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0% <input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Polluted Storm Water System		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0% <input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Industry	Evaporation Dams/Ponds	Synthetic liner	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Maturation Ponds		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 10%	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %
	Coal Dams	Clay liner and seepage drains	Salinity, pH, SO ₄ , heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
	Polluted Storm Water System	Collection and containment facilities	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 100% (no system)
		System captures 1:100 year storm-event	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	60-80% (system overflows 1:2 to 1:5 years) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Domestic	Oxidation Ponds	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Artificial Wetlands	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
Polluted Storm Water System	Collection and containment facilities, system captures 1:100 year storm event	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 100% (no system)	
		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	60-80% (system overflows 1:2 to 1:5 years) <input type="text"/> <input type="text"/> <input type="text"/> %	

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Agricultural	Oxidation Ponds	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Artificial Wetlands	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
Polluted Storm Water System		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
			Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %

6.2 Waste Disposal Site Classification

Mark the site classification with an X (only one option may be selected)

- | | | | |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| <input type="checkbox"/> GCB+ | <input type="checkbox"/> GSB+ | <input type="checkbox"/> GMB+ | <input type="checkbox"/> GLB+ |
| <input type="checkbox"/> GCB- | <input type="checkbox"/> GSB- | <input type="checkbox"/> GMB- | <input type="checkbox"/> GLB- |
| <input type="checkbox"/> H:H | <input type="checkbox"/> H:h | | |

Legend

- | | | | |
|------------|--|----------|-------------------|
| B- | Water deficit climate resulting in only sporadic leachate generation | C | Communal Landfill |
| B+ | Water surplus climate resulting in significant leachate generation | S | Small Landfill |
| G | General waste or landfill for general waste | M | Medium Landfill |
| H:H | Hazard waste landfill that can receive waste with a hazard rating of 1 and 2 | L | Large Landfill |
| H:h | Hazard waste landfill that can receive waste with a hazard rating of 3 and 4 | | |

Site classification Date (ccyymmdd)

--	--	--	--	--	--	--	--	--	--

6.3 Authorisation / Regulation Details**6.3.1** Authorisation/Regulation Type (mark the applicable option with an X)

- ☐ Licence ("Registration of a Waste Management Facility in terms of Section 21(g) of the National Water Act".)
- ☐ Permit ("Registration of a Waste Management Facility in terms of Section 20(1) of the Environmental Conservation Act".)
- ☐ Direction ("Registration of a Waste Management Facility in terms of Section 20(5) of the Environmental Conservation Act".)
- ☐ Exemption ("Registration of a Waste Management Facility in terms of Section 20(1) of the Environmental Conservation Act".)

6.3.2 Applicable Authorisation / Regulation Reference Number

OR

Environment Conservation Act Permit Number

6.3.3 The authorisation/regulation is valid from (ccyymmdd)

--	--	--	--	--	--	--	--	--	--

Until
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

6.4 Succession transfer and source part 2 details**6.4.1** Is this a 'succession in title' related water use transfer?☐ Yes☐ No**6.4.2** If yes, complete the following details where applicable.

Source Register Number

WU Number

WU Status to be Allocated

WU Close Date (if applicable)
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

--	--	--	--	--

--	--	--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--	--	--

--	--	--	--	--

--	--	--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--	--	--

--	--	--	--	--

--	--	--	--	--	--	--	--	--	--

6.5 District Municipality

District Municipality Name (if applicable)

6.6 Billing information**6.6.1 Applicant to be billed as:**☐ Water User

or

☐ Via a WUA/WSP

Start Date (ccyymmdd)

--	--	--	--	--	--	--	--

End Date (ccyymmdd)

☐ Water User**6.6.2 Bill incentive charge:**☐ On actual load(s)

or

☐ Registered load(s)

Start Date (ccyymmdd)

--	--	--	--	--	--	--	--

End Date (ccyymmdd)

☐ On actual load(s)**6.6.3 Billing Frequency:**☐ Annually☐ Bi-annually☐ Monthly**6.6.4 If to be billed via WUA/WSP:**

Name of WUA/WSP

Is WUA/WSP a Billing Agent?

☐ Yes☐ No

Billing Agent's Register Number

--	--	--	--	--	--	--	--

6.6.5 If this WU is to be billed via a Bulk Billing Party that is not a WSP/WUA, complete the following:

Name of Customer

Bulk-Bill-to-Party Register Number

--	--	--	--	--	--	--	--

6.7 Waste management scheme information**Waste scheme name (if applicable)**

- If the Waste Scheme is applicable, provide WSMP (Waste Scheme Management Parameter Name)

- Specify the date from which this WSMP is applicable to this water use (ccyymmdd)

--	--	--	--	--	--	--	--

6.8 Late registration penalty

Is this a late registration?

☐ Yes☐ No

If yes, mark with an X, the applicable penalty to be levied

☐ R300.00 OR☐ 10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable

☐ Waive penalty

6.9 Authorisation details

6.9.1 Water use takes/took place in terms of the General Authorisation: ☐ Yes ☐ No

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

Date(s) from which applicable GA is/was applicable to this water use

South African Act:

Applicable section of the act

[E.g. National Water Act (Act No. 36 of 1998)]

[E.g. Section 21]

Date From
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

Government Notice No.

--	--	--	--

Date To
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

Government Notice Date
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

Applicable Section Of The General Authorisation

Date From
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

Government Notice No.

--	--	--	--

Date To
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

Government Notice Date
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

Applicable Section Of The General Authorisation

Date From
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

Government Notice No.

--	--	--	--

Date To
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

Government Notice Date
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

Applicable Section Of The General Authorisation

6.9.2 If an authorisation has been issued under other legislation – provide the Law/Regulation details if known/available.

6.9.3 If this application represents a licence related water use (new licence application or previously submitted application) – complete following details if known/available.

Responsible Licensing Authority Reference

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Responsible Licensing Authority Business Unit



water affairs

Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

SUPPLEMENTARY WATER USE INFORMATION
(ONLY APPLICABLE FOR NWA – SECTION 21g WATER USES)

DETAILS OF WASTE MANAGEMENT FACILITY

1. WASTE MANAGEMENT FACILITY DETAILS

1.1 Name of Waste Management Facility

1.2 Fatal flaw indicators

If any of the following criteria apply to the site, or will apply to a proposed site, mark with an X

- ☐ In an area below the 1 in 100 flood line of any watercourse
- ☐ In unstable areas (e.g. fault zones, seismic zones, dolomitic or karst areas, areas with sinkholes or subsidence)
- ☒ In sensitive ecological and/or historical areas
- ☒ In a catchment area for important, "significant" or sensitive surface water resources
- ☐ In an area with shallow or emergent groundwater, or characterised by flat gradients (wetlands, vleis, springs, etc.)
- ☐ In an area characterised by steep gradients (e.g. where problems with stability could be experienced)
- ☐ Areas of groundwater recharge on account of topography and/or highly permeable soils
- ☐ Overlaying or adjacent to important or potentially important aquifers (Parsons classification: Sole source, major)
- ☐ Within an area with shallow bedrock and limited available cover material
- ☐ Areas in close proximity to land uses that are incompatible with waste disposal activities
- ☐ Areas where adequate buffer zones are not possible

1.3 Method of disposal

- ☐ Trenching ☐ Ash-blending ☐ Co-disposal
- ☒ Other (specify)

Storage of dirty water runoff.

1.4 Distance from nearest borehole used for drinking water or stock watering

meters

1.5 Distance from the edge of nearest downstream surface water resource

meters

1.6 Lining of the site

- a) The site is / will be ☐ Lined
- b) If lined, the lining system is ☐ Clay
- (Mark the applicable option with an X) ☒ Composite lining system

1.7 Total area of 'property' on which waste is disposed

2078 hectares

1.8 Area of actual waste body ("footprint" area)

0.7 hectares

1.9 Dimensions of waste site

- | | Height or depth | Length | Breadth | |
|---|--|--------|---------|--------------|
| a) At commencement | 4.1 | 142 | 52 | meters |
| b) After rehabilitation | 0 | 0 | 0 | meters |
| c) Available air space | (Freeboard volume) 5900 | | | cubic meters |
| d) Total volume already used for waste disposal | 0 | | | cubic meters |
| e) Accuracy of above volumes | <input type="checkbox"/> Surveyor <input checked="" type="checkbox"/> Estimate | | | |

1.10 Buffer Zone

- a) Actual distance to the boundary of the nearest:
- Formal residential area 60000 m
 - Informal residential area 5000 m
 - Industrial Area 60000 m
- b) Buffer zone determination done by
- ☐ Scientific method ☒ Actual distance

1.11 Location of Waste Management Facility

1.11.1 Geographical location for each of the external corner points of the waste management facility:

- Latitude S 22° 10' 17.9" or S ° ' " or S ° ' "
- Longitude E 29° 40' 24.0" or E ° ' " or E ° ' "
- Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84
- Latitude S 22° 10' 18.5" or S ° ' " or S ° ' "
- Longitude E 29° 40' 28.9" or E ° ' " or E ° ' "
- Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84
- Latitude S 22° 10' 16.8" or S ° ' " or S ° ' "
- Longitude E 29° 40' 29.1" or E ° ' " or E ° ' "
- Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84
- Latitude S 22° 10' 16.2" or S ° ' " or S ° ' "
- Longitude E 29° 40' 24.2" or E ° ' " or E ° ' "
- Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84
- Latitude S ° ' " or S ° ' "
- Longitude E ° ' " or E ° ' "
- Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84

1.11.2 Drainage Region Details: Quaternary Drainage Region

A 7 1 L

1.12 Climatic water balance

The wettest six months of the year are

☒ November to April☐ May to October

The wettest years during the past thirty years were (populate at least one year's details with both rainfall and evaporation detail completed)

Rating	Year	Total rainfall for 6 months		Total evaporation (A-pan) for 6 months		Official use
Wettest year	1 9 9 9	9 5 8	mm	1 0 6 6	mm	
2 nd wettest	1 9 9 5	5 0 2	mm	1 2 6 1	mm	
3 rd wettest	1 9 7 7	5 4 4	mm	1 1 4 4	mm	
4 th wettest	1 9 7 1	4 4 9	mm	1 1 4 3	mm	
5 th wettest	1 9 7 5	4 1 6	mm	1 2 3 4	mm	
6 th wettest	1 9 7 3	4 2 9	mm	1 2 5 2	mm	
7 th wettest	1 9 8 4	2 8 2	mm	1 3 1 0	mm	
8 th wettest	1 9 8 0	4 6 3	mm	1 2 3 6	mm	
9 th wettest	1 9 6 0	4 1 2	mm	1 2 5 0	mm	
10 th wettest	1 9 8 7	3 5 9	mm	1 2 7 2	mm	

Site-specific water balance factors

If leachate is visible (for existing facilities only) mark with an X

☐

Other site specific water balance factors (specify)

SOURCE: DEPARTMENT OF WATER AFFAIRS, WEATHER STATION - A7E006 MACUVILLE

1.13 Details of the person in control of the site

Surname

PRETORIUS

Initials &/or First Name

NICO

Title

MR

ID No.

Phone Number

011 785 4502

Ext

Fax Number

086 692 9728

Cellphone

082 824 0913

E-mail Address

NPretorius@coalofafrica.co.za

Highest Educational Qualification

☐ Grade 8 / Std 6
☐ Diploma

☐ Grade 10 / Std 8
☐ Higher Diploma

☐ Matric
☒ Degree

2. OPERATION OF THE WASTE MANAGEMENT FACILITY

2.1 Type of operation

- ☐ Landfill or Landbuild ☐ Transfer station ☐ Recycling facility ☐ Incinerator
☐ Composting plant ☐ Storage area ☐ Treatment plant
☐ Encapsulation ☒ Other (specify) Dirty water dam

2.2 Length of time of the operation

Start Date
(ccyymmdd)

20100301

End Date
(ccyymmdd)

2.3 Is sufficient cover material on site?

☒ Yes

☐ No

2.4 Covering and burning of waste (mark applicable options with an X)

N/A

☐ Daily compaction and covering

☐ Weekly compaction and covering

☐ Burning of waste

2.5 Is leachate management system present?

☐ Yes

☒ No

2.6 Storm water management (mark the applicable options with an X)

☒ Upstream cut-off trenches

☒ Contaminated storm water storage facility

3. MANAGEMENT PRACTICES OF THE WASTE MANAGEMENT FACILITY

Tick the options that describe the management practices for the waste facility or site

Artificial Wetlands	Facility is generally lined (clay liners typically) and are designed to receive 120l/m ² /d at a depth of 30 cm.	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater and seepage drains	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:		
Ash Dams/Dumps	Facility is lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Side slopes stabilized to minimize erosion	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Rainfall runoff collected into a dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of percolated storm water via under drains into collection sumps, which should pump the water to a dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	For pits, ingress of water is prevented	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice:			
Coal Dams	Lined facility (synthetic or clay liners)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water drains in place & connected to the polluted storm water system	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Effluent in the dam is not of acidic pH	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Dam is covered to prevent contact with oxygen	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Facility does not maintain anaerobic conditions	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice:			
Effluent Dams	Lined facility (synthetic or clay)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
	Facility has seepage drains	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	Splitting of facility into 2 separate compartments for the purposes of cleaning and management	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	Any other practice:	<u>Upstream silt collection system.</u>	
Evaporation Dams/Ponds	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Facility is of sufficiently large size to ensure that full evaporation of effluent is achieved	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water collection drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice:			
Forced Evaporation	Evaporation only with wind speeds less than 2m/sec	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	No evaporate pre-dawn as humidity is high	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice:			

Continued on next page

Maturation Ponds	Facility lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Facility designed to ensure at least 5 days retention time	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water and seepage collection drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	
Waste Water Ponds	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water collection drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	
Open Cast Voids	Diversion of upslope storm water around the void	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Upstream diversion berms or management measures to prevent inflow of water into the void	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Prevention of water flowing into the void by using highball drains where necessary	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Ensure any water within the void is contained	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice:	<hr/>		
Oxidation Ponds	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate structures in place to ensure capture of a 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water collection drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice:	<hr/>		
Polluted Stormwater System	Storm water discharged directly to the resource	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	Collection system incorporating the plant, raw material stockpiles and waste disposal facilities	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
	Clean stormwater separated from stormwater draining "dirty" sites or facilities	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
	Polluted stormwater collected & stored in dams	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice:	<u>Dirty water dam lined (plastic)</u>		
Return Water Dams	Sizing to accept seepage from the under drainage systems and decant systems for up to the 1:50 year rainfall event, over and above normal operating conditions	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Continued on next page

Sewage Treatment Works	Pump stations operational	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Emergency storage dam(s) available	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate capacity in emergency storage dams	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Compliance with minimum discharge standards	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate capacity to contain total volume	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Silt Dams	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Slag Dumps	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Separation of clean & dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of rainfall run-off into the dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	After decommissioning, the top surface is shaped to suit drainage requirements and re-vegetated	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Implementation of under drainage systems to collect seepage for re-use as process water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Slimes/Tailings Dams	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Separation of clean & dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of rainfall run-off into the dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	After decommissioning, the top surface is shaped to suit drainage requirements and re-vegetated	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Implementation of under drainage systems to collect seepage for re-use as process water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Covering of side slopes with soil during the operational phase to assist in reducing any contact of rainfall runoff with the tailings	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Vegetation of side slopes to minimise erosion	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice:	<hr/>		

Continued on next page

Sludge Drying Beds	Facility is lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Moisture reduction of sludge	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Incorporation of sludge into soil	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate management system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Mixing of high moisture content or liquid waste with dry waste	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Sludge Ponds/Lagoons	Facility is lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Waste Rock Dump	Stabilisation of side slopes to minimise erosion	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Rainfall runoff collected into a dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Covering of terraces or step-ins with a soil layer, followed by paddocking & vegetation to minimise ingress of water into the dump	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of percolated stormwater via under drains into collection sumps which should pump the water to a dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice: _____		

Waste Storage	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate management system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate detection layer in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate collection layer in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater drains in place & connected to the polluted stormwater system	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	For pits, ingress of water is prevented		
Any other practice: _____			

Continued on next page

**Waste Treatment
Plant**

Capacity to handle the 1:50 year storm event

☐ Yes☐ No

Stormwater collection system in place

☐ Yes☐ No

Stormwater diversion measures in place

☐ Yes☐ No

Seepage collection system in place

☐ Yes☐ No

Adequate structures in place to ensure capture of a 1:50 year storm event

☐ Yes☐ No

Emergency incident structures in place

☐ Yes☐ No

Any other practice:



Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

Section 21(g): disposing of waste in a manner which may detrimentally impact on a water resource.

Mark the applicable option(s) with an X and/or complete details where applicable/available.

- 1.1** Indicate the nature of this application:
- ☒ Licence ☐ Registration (only)
- 1.2** Have you already registered a water use with the Department of Water Affairs and Forestry?
- ☐ Yes ☒ No
- Registration number:
[][][][][][][][][]
- Water use number:
[][][][]
- 1.3** Indicate if Section 21(j) is applicable to this water use application:
- Section 21(j):** removing, discharging or disposing of water found underground if it is necessary for the efficient continuation of an activity or for the safety of people.
- ☐ Yes ☒ No
- Note:** If Yes was selected, ensure that a DW805 application form has been submitted.
- 1.4** Do you have a licence, permit or exemption for this waste discharge?
(Issued in terms of the National Water Act (Act No. 36 of 1998),
Water Act (Act No. 54 of 1956)
or the Environmental Conservation Act (Act No. 73 of 1989))
- ☐ Yes ☐ No
- Licence number:
[][][][][][][][][][][][][][][][][][][]
- OR
- Permit number:
[][][][][][][][][][][][][][][][][][][]
- OR
- Exemption reference number:
[][][][][][][][][][][][][][][][][][][]

1.5 Applicant Type (mark only one block with X)

- ☐ Individual (complete 1.6)
 ☐ Provincial Department (complete 1.9)
- ☒ Company, business, partnership or community (complete 1.7)
 ☐ Water Services Provider (complete 1.10)
- ☐ National Department (complete 1.8)
 ☐ Water User Association (complete 1.11)

1.6 If the applicant is an individual

1.6.1 Title Surname Initials

1.6.2 South African ID (If holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

Passport Expiry Date (ccyymmdd)

Passport Country Of Issue

1.7 If the applicant is a company, business, partnership or community:**1.7.1** Name of company, business, partnership or community:

LIWPOPO COAL COMPANY (PTY) LTD

1.7.2 Business Enterprise Registration Number

1.7.3 Date Established (ccyymmdd)

Country Where Established

1.8 If the applicant is a National Department:

1.8.1 National Department Name:

1.9 If the property owner is a Provincial Department:

1.9.1 Province:

1.9.2 Provincial Department Name:

1.10 If the property owner is a Water Services Provider:

1.10.1 Name of WSP:

1.11 If the property owner is a Water User Association:

1.11.1 Name of WUA:

Declaration by applicant or waste discharger

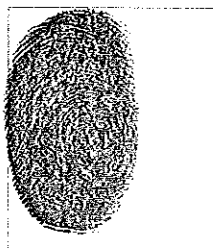
Delete the words that are not applicable I/we BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Signature

Company Representative

Designation of signatory



Thumb print

(011) 785 4518

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd):

It is a criminal offence to provide information that is false or misleading.

2. DESCRIPTION OF THE WASTE GENERATED

2.1 Select the sector that generates the wastewater or waste which this application refers to

(Mark only one box with an X)

(Note, if more than one option is applicable, you must fill in a separate application form per sub-sector)

Agriculture

- ☐ Aquaculture
☐ Irrigation

- ☐ Intensive Animal Husbandry
☐ Other (please specify below)

Urban / Domestic

- ☐ Sewage Treatment Works
☐ Waste Disposal

- ☐ Water Treatment Works

Industry

- ☐ Agroprocessing
☐ Fertilisers
☐ Metal Processing And Finishing
☐ Textile
☐ Power Generation

- ☐ Meat Processing
☐ Manufacturing
☐ Paper And Pulp
☐ Winery
☐ Other (please specify below)

Mining

- ☒ Coal
☐ Gold
☐ Platinum
☐ Copper
☐ Chromium
☐ Iron

- ☐ Diamond
☐ Sand-winning
☐ Quarrying
☐ Peat Mining
☐ Uranium
☐ Other (please specify below)

2.2 Which of the following describes the nature of the wastewater?

(Mark the applicable option(s) with an X)

2.2.1 Wastewater containing <70% water by mass (i.e. sludge)



2.2.2 Wastewater containing >70% water by mass



2.2.3 Wastewater with high acidity (i.e. pH <5) or alkalinity (i.e. pH >10)



2.2.4 Wastewater with temperature of >50°C



2.2.5 Wastewater with an oxygen content of <5 mg/l



2.2.6 Wastewater with an EC (Electrical Conductivity) of >500mS/m



2.2.7 Wastewater with an EC of <500mS/m



2.3 Which of the following describes the composition of the wastewater?

(Mark the applicable option(s) with an X)

N/A

2.3.1 Wastewater consisting of > 90% organic content by mass (i.e. load)



2.3.2 Wastewater consisting of 50 – 90% organic content and 10 – 50% metals or salts by mass (i.e. load)



2.3.3 Wastewater consisting of 10 – 50% organic content and 50 – 90% metals or salts by mass (i.e. load)



2.3.4 Wastewater consisting of >90% metals or salts by mass (i.e. load)



2.4 Describe the activity that generates the waste

Coal mining. Effluent from coal beneficiation plant.

2.5 Discharge to a land based facility

2.5.1 Water use start & end date

When did/will this water use start? (ccyyymmdd)

20100301

When did/will this water use end? (If applicable)
{ccyyymmdd}

2	0	1	1	0	1	0	1
---	---	---	---	---	---	---	---

2.5.2 The total volume of waste / waste water discharged per year:

					5	8	0	0	0	Cubic meters
--	--	--	--	--	---	---	---	---	---	--------------

2.5.3 The maximum volume of waste / waste water discharged on any given day:

								1	9	0	0
--	--	--	--	--	--	--	--	---	---	---	---

2.5.4 Monthly discharge pattern expressed in:

☒ Cubic meters

OR

☐ Percentage (%) of total

OR

☐ Another unit of measure

If "Another unit of measure" was selected, specify the "unit of measure" to be applied to the monthly discharge pattern details:

	Minimum	Average	Maximum
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			

2.5.5 Intake Water

National Water Act - Section 21(a/b/g/j) Water Use					
Section 21(?)	Registered*	Volume of water applicable to this waste discharge (m ³)	If Registered*		
			Register Number	Water Use Number	Waste Management Facility Name
N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				

2.5.6 Average disposal volume / discharge volume onto the land / facility

Average disposal volume (cubic meters)	580,000	Time Interval: <input type="checkbox"/> Per Month <input checked="" type="checkbox"/> Per Annum
Maximum disposal volume anticipated (cubic meters)	125,000	Time Interval: <input type="checkbox"/> Per Month <input checked="" type="checkbox"/> Per Annum

* Note

Quality Variable And Unit Of Measurement	Concentration	For Office Use Only	
		Waste Load Onto Facility (kg)	NPS Load (kg)
Coliforms (Colony Forming Units/ml)			
Enteric pathogens e.g. E.coli (Colony Forming Units/ml)			
pH (pH units)			
Temperature (°C)			
Acidity (mg/l)			
Alkalinity (mg/l)			
Aluminium (mg/l)			
Ammonia (mg/l)			
Arsenic (mg/l)			
Barium (mg/l)			
Boron (mg/l)			
Bromide (mg/l)			
Cadmium (mg/l)			
Calcium (mg/l)			
Chemical oxygen demand (mg/l)			
Chloride (mg/l)			
Chromium (mg/l)			
Chromium(vi) (mg/l)			

Note: The total volume of 580,000 m³ includes the dilution water which will be recovered for reuse. The facility capacity is only 125,000 m³ for solid portion and will be used for approx. 6-8 months.

Quality Variable And Unit Of Measurement	Concentration	For Office Use Only	
		Waste Load Onto Facility (kg)	NPS Load (kg)
Cobalt (mg/l)			
Copper (mg/l)			
Cyanide (mg/l)			
Fluoride (mg/l)			
Iron (mg/l)			
Lead (mg/l)			
Lithium (mg/l)			
Magnesium (mg/l)			
Manganese (mg/l)			
Mercury (mg/l)			
Molybdenum (mg/l)			
Nickel (mg/l)			
Phenol (mg/l)			
Potassium (mg/l)			
Radionuclides (mg/l)			
Soap, oil or grease (mg/l)			
Sodium (mg/l)			
Sulphate (mg/l)			
Tin (mg/l)			
Total dissolved solids (mg/l)			
Total suspended solids (mg/l)			
Total nitrogen (mg/l)			
Total phosphorus (mg/l)			
Uranium (mg/l)			
Vanadium (mg/l)			
Zinc (mg/l)			

3. RECEIVING ENVIRONMENT/RECEPTOR

Serves to address the following: The resource that needs to be protected and related issues such as: how close to surface water, groundwater level, presence of boreholes, whether communities use boreholes or abstract from the surface water, etc.

3.1 Description of nearby water resource(s)

3.1.1 Description of Surface Water Resources

(Mark only one box with an X)

- a) Type of surface water resource, nearest to location where discharge is taking place

 River / Stream

Dam

☐ Estuary

Lake

☐ Wetland

GWS Scheme

☐ Marine☐ Other (please specify below)

b) Name / description of the nearest surface water resource:

Limpopo River - unnamed tributary

c) Distance to the nearest water resource (meters)

				250
--	--	--	--	-----

3.1.2 Description of Groundwater Resources

(Mark only one box with an X)

- a) Type of groundwater resource, nearest to location where discharge is taking place

☐ Spring / Eye

GWS Scheme

☒ Borehole

Boreholes And Windmills On Government Land

☐ Other (please specify below)

b) Name / description of the nearest surface water resource

Overburden Aquifer

c) Distance to the nearest groundwater resource (meters)

			6	0	0	0
--	--	--	---	---	---	---

3.2 Drainage Region Details

Quaternary Drainage Region

R-71U

3.3 Property Relationship Details (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property				Property Relationship Date		
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)	From:	To:
Bergen Op Zoon	T12375/2009		W15								
			124								
			RE								

4. DISPOSAL OF WASTE

4.1 Commonly used description of waste types to be disposed

4.1.1 Description of the types of waste to be disposed

(Mark the applicable type option(s) with an X and/or complete details where applicable/available.)

- | | |
|--|---|
| <input type="checkbox"/> Sewage Sludge | <input type="checkbox"/> Household Refuse |
| <input type="checkbox"/> Industrial Sludge | <input type="checkbox"/> Farming Waste |
| <input checked="" type="checkbox"/> Mining Waste | <input type="checkbox"/> Dry Industrial Waste |
| <input type="checkbox"/> Hazardous Waste | <input type="checkbox"/> Industrial Liquid |
| <input type="checkbox"/> Industrial Ash (all industries) | <input type="checkbox"/> Other |
| <input type="checkbox"/> Power Generation | Specify Other: _____ |

4.1.2 Approximate maximum volume/tonnage per site per day

1900 m³

4.1.3 Approximate total tonnage per site per annum

tons

4.2 Type of waste management facility

4.2.1 Name of waste site or 'facility'

(Refer attached DW905 form)

SURRY FACILITY #1

4.2.2 Select the type of waste disposal site (Mark only one box with an X)

Waste Management Facility Type

	Select with X	Size (ha)	Estimated lifetime (y)	Disposal started on: (ccyymmdd)	Disposal ceased on: (if applicable) (ccyymmdd)
Artificial Wetlands					
Ash Dams / Dumps	<input type="checkbox"/>				
Coal Dams	<input type="checkbox"/>				
Composting	<input type="checkbox"/>				
Domestic Waste	<input type="checkbox"/>				
Effluent Dams	<input type="checkbox"/>				
Evaporation Dams/Ponds	<input type="checkbox"/>				
Forced Evaporation	<input type="checkbox"/>				
Maturation Ponds	<input type="checkbox"/>				

Continued on next page

Waste Management Facility Type	Select with X	Size (ha)	Estimated lifetime (y)	Disposal started on: (ccyymmdd)	Disposal ceased on: (if applicable) (ccyymmdd)
Other Waste Water Ponds: (Specify other)	<input type="checkbox"/>				
Open Cast Voids	<input type="checkbox"/>				
Oxidation Ponds	<input type="checkbox"/>				
Polluted Storm Water System	<input type="checkbox"/>				
Recycling	<input type="checkbox"/>				
Return Water Dams	<input type="checkbox"/>				
Silt Dams	<input type="checkbox"/>				
Slag Dumps	<input type="checkbox"/>				
Slimes/Tailings Dams	<input checked="" type="checkbox"/>	3.6	<1	20100301	20110101
Sludge Drying Beds	<input type="checkbox"/>				
Sludge Ponds/Lagoons	<input type="checkbox"/>				
Waste Rock Dump	<input type="checkbox"/>				
Waste Storage	<input type="checkbox"/>				
Waste Treatment Plant	<input type="checkbox"/>				
(Specify)					

5. LIST OF SUPPORTING TECHNICAL INFORMATION

5.1 Confirm that the following forms have been included in this application

DW901 ☒ Yes ☐ No
 DW902 ☒ Yes ☐ No
 DW905 ☒ Yes ☐ No

5.2 Mark with an X if these documents have been submitted with this application

Environmental Impact Assessment (EIA) ☒
 Environmental Management Programme (EMPR) ☐
 Standard Environmental Management Programme ☐
 Integrated Water and Waste Management Plan (IWWMP) ☒
 Integrated Water Use Licence Application Report ☐
 Report on Waste Water Quality (solute load, seasonal changes, etc.) ☐
 Report on Industrial Process Generating Waste water ☐
 Geohydrological Report ☒
 Civil Designs ☒
 Contingency Plan for Failures and Malfunctions of System ☒
 Monitoring Programme(s) ☒
 Topographical Map (1:50 000) ☐
 National Water Act (Act No 36 of 1998) – Section 27 Evaluation ☒
 DW760 NWA-Section 21(a) ☒
 DW761 NWA-Section 21(b) ☐
 DW762 NWA-Section 21(b) ☒
 DW763 NWA-Section 21(c) ☒
 DW764 NWA-Section 21(d) ☐
 DW765 NWA-Section 21(e) ☒
 DW766 NWA-Section 21(f) ☐
 DW767 NWA-Section 21(g) ☒
 DW768 NWA-Section 21(i) ☒
 DW780 NWA-Section 21(h) ☐
 DW805 NWA-Section 21(j) ☒
 DW903 ☒
 DW904 ☐

Other (specify other documents submitted with this form)

D	W					<input type="checkbox"/>
D	W					<input type="checkbox"/>
D	W					<input type="checkbox"/>

5. THIS SECTION IS RESERVED FOR OFFICE USE ONLY

6.1 Management Classification Details						
Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Mining	Slimes/Tailings Dams		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Evaporation Dams/Ponds		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Effluent Dams		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Return Water Dam		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Forced Evaporation		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Ash Dams/Dumps		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Open Cast Voids		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Waste Rock Dump		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Polluted Storm Water System		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Industry	Evaporation Dams/Ponds	Synthetic liner	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Maturation Ponds		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 10%	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %
	Coal Dams	Clay liner and seepage drains	Salinity, pH, SO ₄ , heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
	Polluted Storm Water System	Collection and containment facilities	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 100% (no system)
		System captures 1:100 year storm-event	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	60-80% (system overflows 1:2 to 1.5 years) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Domestic	Oxidation Ponds	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Artificial Wetlands	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
Polluted Storm Water System	Collection and containment facilities, system captures 1:100 year storm event	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 100% (no system)	
		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	60-80% (system overflows 1:2 to 1:5 years) <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="margin-left: 5px;">%</div> </div>	

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Agricultural	Oxidation Ponds	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Artificial Wetlands	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
Polluted Storm Water System		Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> %	<input type="checkbox"/> %	
		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> %	<input type="checkbox"/> %	

6.2 Waste Disposal Site Classification

Mark the site classification with an X (only one option may be selected)

- | | | | |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| <input type="checkbox"/> GCB+ | <input type="checkbox"/> GSB+ | <input type="checkbox"/> GMB+ | <input type="checkbox"/> GLB+ |
| <input type="checkbox"/> GCB- | <input type="checkbox"/> GSB- | <input type="checkbox"/> GMB- | <input type="checkbox"/> GLB- |
| <input type="checkbox"/> H:H | <input type="checkbox"/> H:h | | |

Legend

- | | | | |
|------------|--|----------|-------------------|
| B- | Water deficit climate resulting in only sporadic leachate generation | C | Communal Landfill |
| B+ | Water surplus climate resulting in significant leachate generation | S | Small Landfill |
| G | General waste or landfill for general waste | M | Medium Landfill |
| H:H | Hazard waste landfill that can receive waste with a hazard rating of 1 and 2 | L | Large Landfill |
| H:h | Hazard waste landfill that can receive waste with a hazard rating of 3 and 4 | | |

Site classification Date (ccyymmdd)

--	--	--	--	--	--	--	--	--	--

6.3 Authorisation / Regulation Details**6.3.1** Authorisation/Regulation Type (mark the applicable option with an X)

- ☐ Licence ("Registration of a Waste Management Facility in terms of Section 21(g) of the National Water Act".)
- ☐ Permit ("Registration of a Waste Management Facility in terms of Section 20(1) of the Environmental Conservation Act".)
- ☐ Direction ("Registration of a Waste Management Facility in terms of Section 20(5) of the Environmental Conservation Act".)
- ☐ Exemption ("Registration of a Waste Management Facility in terms of Section 20(1) of the Environmental Conservation Act".)

6.3.2 Applicable Authorisation / Regulation Reference Number

OR

Environment Conservation Act Permit Number

6.3.3 The authorisation/regulation is valid from (ccyymmdd)

--	--	--	--	--	--	--	--	--	--

Until
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

6.4 Succession transfer and source part 2 details**6.4.1** Is this a 'succession in title' related water use transfer?☐ Yes☐ No**6.4.2** If yes, complete the following details where applicable.

Source Register Number

WU Number

WU Status to be Allocated

WU Close Date (if applicable)
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

--	--	--	--

--	--	--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--	--	--

--	--	--	--

--	--	--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--	--	--

--	--	--	--

--	--	--	--	--	--	--	--	--	--

6.5 District Municipality

District Municipality Name (if applicable)

6.6 Billing information**6.6.1 Applicant to be billed as:**☐ Water User

or

☐ Via a WUA/WSP

Start Date (ccyymmdd)

--	--	--	--	--	--	--	--

End Date (ccyymmdd)

☐ Water User**6.6.2 Bill incentive charge:**☐ On actual load(s)

or

☐ Registered load(s)

Start Date (ccyymmdd)

--	--	--	--	--	--	--	--

End Date (ccyymmdd)

☐ On actual load(s)**6.6.3 Billing Frequency:**☐ Annually☐ Bi-annually☐ Monthly**6.6.4 If to be billed via WUA/WSP:**

Name of WUA/WSP

Is WUA/WSP a Billing Agent?

☐ Yes☐ No

Billing Agent's Register Number

--	--	--	--	--	--	--	--

6.6.5 If this WU is to be billed via a Bulk Billing Party that is not a WSP/WUA, complete the following:

Name of Customer

Bulk-Bill-to-Party Register Number

--	--	--	--	--	--	--	--

6.7 Waste management scheme information**Waste scheme name (if applicable)**

- If the Waste Scheme is applicable, provide WSMP (Waste Scheme Management Parameter Name)
- Specify the date from which this WSMP is applicable to this water use (ccyymmdd)

--	--	--	--	--	--	--	--

6.8 Late registration penalty

Is this a late registration?

☐ Yes☐ No

If yes, mark with an X, the applicable penalty to be levied

☐ R300.00 OR☐ 10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable

☐ Waive penalty

6.9 Authorisation details

6.9.1 Water use takes/took place in terms of the General Authorisation: ☐ Yes ☐ No

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

Date(s) from which applicable GA Is/was applicable to this water use

South African Act:

Applicable section of the act

[E.g. National Water Act (Act No. 36 of 1998)]

[E.g. Section 21]

Date From
(ccyymmdd)[illegible]

Government Notice No.

Date To
(ccyymmdd)

--	--	--	--	--	--	--	--

Government Notice Date
(ccyyymmdd)

--	--	--	--	--	--	--	--

Applicable Section Of The General Authorisation

Date From
(ccyyymmdd)[illegible]

Government Notice No.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Date To
(ccyymmdd)

--	--	--	--	--	--	--	--

Government Notice Date
(ccyymmdd)

--	--	--	--	--	--	--	--

Applicable Section Of The General Authorisation

Date From
(ccyymmdd)

--	--	--	--	--	--	--	--

Government Notice No.

--	--	--	--

Date To
(ccyymmdd)

--	--	--	--	--	--	--

Government Notice Date
(ccyymmdd)

--	--	--	--	--	--	--	--

Applicable Section Of The General Authorisation

6.9.2 If an authorisation has been issued under other legislation – provide the Law/Regulation details if known/available.

6.9.3 If this application represents a licence related water use (new licence application or previously submitted application) – complete following details if known/available.

Responsible Licensing Authority Reference

[illegible]

Responsible Licensing Authority Business Unit



water affairs

Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

SUPPLEMENTARY WATER USE INFORMATION (ONLY APPLICABLE FOR NWA – SECTION 21g WATER USES)

DETAILS OF WASTE MANAGEMENT FACILITY

1. WASTE MANAGEMENT FACILITY DETAILS

1.1 Name of Waste Management Facility

1.2 Fatal flaw indicators

If any of the following criteria apply to the site, or will apply to a proposed site, mark with an X

- ☐ In an area below the 1 in 100 flood line of any watercourse
- ☐ In unstable areas (e.g. fault zones, seismic zones, dolomitic or karst areas, areas with sinkholes or subsidence)
- ☒ In sensitive ecological and/or historical areas
- ☒ In a catchment area for important, "significant" or sensitive surface water resources
- ☐ In an area with shallow or emergent groundwater, or characterised by flat gradients (wetlands, vleis, springs, etc.)
- ☐ In an area characterised by steep gradients (e.g. where problems with stability could be experienced)
- ☐ Areas of groundwater recharge on account of topography and/or highly permeable soils
- ☐ Overlaying or adjacent to important or potentially important aquifers (Parsons classification: Sole source, major)
- ☐ Within an area with shallow bedrock and limited available cover material
- ☐ Areas in close proximity to land uses that are incompatible with waste disposal activities
- ☐ Areas where adequate buffer zones are not possible

1.3 Method of disposal

- ☐ Trenching
- ☐ Ash-blending
- ☐ Co-disposal
- ☒ Other (specify) Slurry disposal

1.4 Distance from nearest borehole used for drinking water or stock watering

meters

1.5 Distance from the edge of nearest downstream surface water resource

meters

1.6 Lining of the site

- a) The site is / will be ☒ Lined
- b) If lined, the lining system is ☐ Clay
- (Mark the applicable option with an X) ☒ Composite lining system

1.7 Total area of 'property' on which waste is disposed

2078 hectares

1.8 Area of actual waste body ("footprint" area)

3.6 hectares

1.9 Dimensions of waste site

	Height or depth	Length	Breadth	
a) At commencement	4.3	221	163	meters
b) After rehabilitation	0	0	0	meters
c) Available air space (Freeboard)		32400		cubic meters
d) Total volume already used for waste disposal		0		cubic meters
e) Accuracy of above volumes	<input type="checkbox"/> Surveyor		<input checked="" type="checkbox"/> Estimate	

1.10 Buffer Zone

a) Actual distance to the boundary of the nearest:

- Formal residential area 60000 m
- Informal residential area 5000 m
- Industrial Area 60000 m

b) Buffer zone determination done by

☐ Scientific method ☒ Actual distance

1.11 Location of Waste Management Facility

1.11.1 Geographical location for each of the external corner points of the waste management facility:

Latitude S 22° 10' 27.6" or S . . . or S . . .

Longitude E 29° 40' 19.3" or E . . . or E . . .

Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S 22° 10' 27.6" or S . . . or S . . .

Longitude E 29° 40' 13.6" or E . . . or E . . .

Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S 22° 10' 34.8" or S . . . or S . . .

Longitude E 29° 40' 13.7" or E . . . or E . . .

Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S 22° 10' 34.8" or S . . . or S . . .

Longitude E 29° 40' 19.4" or E . . . or E . . .

Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S . . . or S . . . or S . . .

Longitude E . . . or E . . . or E . . .

Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84

1.11.2 Drainage Region Details: Quaternary Drainage Region

A 7 1 L

1.12 Climatic water balance

The wettest six months of the year are

☒ November to April☐ May to October

The wettest years during the past thirty years were (populate at least one year's details with both rainfall and evaporation detail completed)

Rating	Year	Total rainfall for 6 months		Total evaporation (A-pan) for 6 months		Official use
Wettest year	1 9 9 9	9 5 8	mm	1 0 6 6	mm	
2 nd wettest	1 9 9 5	5 0 2	mm	1 2 6 1	mm	
3 rd wettest	1 9 7 7	5 4 4	mm	1 1 4 4	mm	
4 th wettest	1 9 7 1	4 4 9	mm	1 1 4 3	mm	
5 th wettest	1 9 7 5	4 1 6	mm	1 2 3 4	mm	
6 th wettest	1 9 7 3	4 2 9	mm	1 2 5 2	mm	
7 th wettest	1 9 8 4	2 8 2	mm	1 3 1 0	mm	
8 th wettest	1 9 8 0	4 6 3	mm	1 2 3 6	mm	
9 th wettest	1 9 6 0	4 1 2	mm	1 2 5 0	mm	
10 th wettest	1 9 8 7	3 5 9	mm	1 2 7 2	mm	

Site-specific water balance factors

If leachate is visible (for existing facilities only) mark with an X

☐

Other site specific water balance factors (specify)

SOURCE: DEPARTMENT OF WATER AFFAIRS, WEATHER STATION - A7E006 MACUVILLE

1.13 Details of the person in control of the site

Surname

PRETORIUS

Initials &/or First Name

NICO

Title

MR

ID No.

Phone Number

011 785 4502

Ext

Fax Number

086 692 9728

Cellphone

082 824 0913

E-mail Address

NPretorius@coalofafrica.co.za

Highest Educational Qualification

☐ Grade 8 / Std 6☐ Diploma☐ Grade 10 / Std 8☐ Higher Diploma☐ Matric☒ Degree

2. OPERATION OF THE WASTE MANAGEMENT FACILITY

2.1 Type of operation

- ☐ Landfill or Landbuild ☐ Transfer station ☐ Recycling facility ☐ Incinerator
☐ Composting plant ☐ Storage area ☐ Treatment plant
☐ Encapsulation ☒ Other (specify) Slurry Facility

2.2 Length of time of the operation

Start Date
(ccyymmdd)

20100301

End Date
(ccyymmdd)

20150101

2.3 Is sufficient cover material on site?

☒ Yes

☐ No

2.4 Covering and burning of waste (mark applicable options with an X)

N/A

☐ Daily compaction and covering

☐ Weekly compaction and covering

☐ Burning of waste

2.5 Is leachate management system present?

☐ Yes

☒ No

2.6 Storm water management (mark the applicable options with an X)

☒ Upstream cut-off trenches

☒ Contaminated storm water storage facility

3. MANAGEMENT PRACTICES OF THE WASTE MANAGEMENT FACILITY

Tick the options that describe the management practices for the waste facility or site

Artificial Wetlands	Facility is generally lined (clay liners typically) and are designed to receive 120l/m ² /d at a depth of 30 cm.	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater and seepage drains	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	
Ash Dams/Dumps	Facility is lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Side slopes stabilized to minimize erosion	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Rainfall runoff collected into a dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of percolated storm water via under drains into collection sumps, which should pump the water to a dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	For pits, ingress of water is prevented	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	
Coal Dams	Lined facility (synthetic or clay liners)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water drains in place & connected to the polluted storm water system	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Effluent in the dam is not of acidic pH	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Dam is covered to prevent contact with oxygen	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Facility does not maintain anaerobic conditions	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	
Effluent Dams	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Facility has seepage drains	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Splitting of facility into 2 separate compartments for the purposes of cleaning and management	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	
Evaporation Dams/Ponds	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Facility is of sufficiently large size to ensure that full evaporation of effluent is achieved	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water collection drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	
Forced Evaporation	Evaporation only with wind speeds less than 2m/sec	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	No evaporate pre-dawn as humidity is high	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Continued on next page

Maturation Ponds	Facility lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Facility designed to ensure at least 5 days retention time	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water and seepage collection drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	
Waste Water Ponds	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water collection drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	
Open Cast Voids	Diversion of upslope storm water around the void	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Upstream diversion berms or management measures to prevent inflow of water into the void	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Prevention of water flowing into the void by using highball drains where necessary	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Ensure any water within the void is contained	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice:	<hr/>		
Oxidation Ponds	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate structures in place to ensure capture of a 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water collection drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice:	<hr/>		
Polluted Stormwater System	Storm water discharged directly to the resource	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection system incorporating the plant, raw material stockpiles and waste disposal facilities	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Clean stormwater separated from stormwater draining "dirty" sites or facilities	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Polluted stormwater collected & stored in dams	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice:	<hr/>		
Return Water Dams	Sizing to accept seepage from the under drainage systems and decant systems for up to the 1:50 year rainfall event, over and above normal operating conditions	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Continued on next page

Sewage Treatment Works	Pump stations operational	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Emergency storage dam(s) available	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate capacity in emergency storage dams	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Compliance with minimum discharge standards	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate capacity to contain total volume	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:		

Silt Dams	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:		

Slag Dumps	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Separation of clean & dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of rainfall run-off into the dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	After decommissioning, the top surface is shaped to suit drainage requirements and re-vegetated	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Implementation of under drainage systems to collect seepage for re-use as process water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice:			

Slimes/Tailings Dams	Stormwater collection system in place	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	Separation of clean & dirty water	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of rainfall run-off into the dirty water storage facility	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	After decommissioning, the top surface is shaped to suit drainage requirements and re-vegetated	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	Implementation of under drainage systems to collect seepage for re-use as process water	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	Covering of side slopes with soil during the operational phase to assist in reducing any contact of rainfall runoff with the tailings	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
	Vegetation of side slopes to minimise erosion	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice:			

Will be reclaimed.

Full HDPE/PVC lining of bottom and side slopes.

Floating barge pumps will be used to recover water portion

Continued on next page

Sludge Drying Beds	Facility is lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Moisture reduction of sludge	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Incorporation of sludge into soil	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate management system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Mixing of high moisture content or liquid waste with dry waste	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice:		<hr/>	

Sludge Ponds/Lagoons	Facility is lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Waste Rock Dump	Stabilisation of side slopes to minimise erosion	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Rainfall runoff collected into a dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Covering of terraces or step-ins with a soil layer, followed by paddocking & vegetation to minimise ingress of water into the dump	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of percolated stormwater via under drains into collection sumps which should pump the water to a dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Waste Storage	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate management system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate detection layer in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate collection layer in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater drains in place & connected to the polluted stormwater system	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	For pits, ingress of water is prevented		
Any other practice:		<hr/>	

Continued on next page

**Waste Treatment
Plant**

Capacity to handle the 1:50 year storm event

☐ Yes☐ No

Stormwater collection system in place

☐ Yes☐ No

Stormwater diversion measures in place

☐ Yes☐ No

Seepage collection system in place

☐ Yes☐ No

Adequate structures in place to ensure capture of a 1:50 year storm event

☐ Yes☐ No

Emergency incident structures in place

☐ Yes☐ No

Any other practice:



water affairs

Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

Part 2: WASTE DISCHARGE RELATED WATER USE IN TERMS OF SECTION 21(g) OF THE NATIONAL WATER ACT, (ACT NO. 36 OF 1998)

Section 21(g): disposing of waste in a manner which may detrimentally impact on a water resource.

1. GENERAL INFORMATION

Mark the applicable option(s) with an X and/or complete details where applicable/available.

- 1.1 Indicate the nature of this application: ☒ Licence ☐ Registration (only)
- 1.2 Have you already registered a water use with the Department of Water Affairs and Forestry? ☐ Yes ☒ No
Registration number:
Water use number:
- 1.3 Indicate if Section 21(j) is applicable to this water use application: **Section 21(j):** removing, discharging or disposing of water found underground if it is necessary for the efficient continuation of an activity or for the safety of people. ☐ Yes ☒ No
Note: If Yes was selected, ensure that a DW805 application form has been submitted.
- 1.4 Do you have a licence, permit or exemption for this waste discharge? ☐ Yes ☒ No
(Issued in terms of the National Water Act (Act No. 36 of 1998),
Water Act (Act No. 54 of 1956)
or the Environmental Conservation Act (Act No. 73 of 1989))
Licence number:
OR
Permit number:
OR
Exemption reference number:

1.5 Applicant Type (mark only one block with X)

- ☐ Individual (complete 1.6)
 ☐ Provincial Department (complete 1.9)
- ☒ Company, business, partnership or community (complete 1.7)
 ☐ Water Services Provider (complete 1.10)
- ☐ National Department (complete 1.8)
 ☐ Water User Association (complete 1.11)

1.6 If the applicant is an individual

1.6.1 Title Surname Initials

1.6.2 South African ID (if holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

Passport Expiry Date (ccyymmdd)

Passport Country Of Issue

1.7 If the applicant is a company, business, partnership or community:**1.7.1** Name of company, business, partnership or community:
1.7.2 Business Enterprise Registration Number
1.7.3 Date Established (ccyymmdd)

Country Where Established

1.8 If the applicant is a National Department:

1.8.1 National Department Name:

1.9 If the property owner is a Provincial Department:

1.9.1 Province:

1.9.2 Provincial Department Name:

1.10 If the property owner is a Water Services Provider:

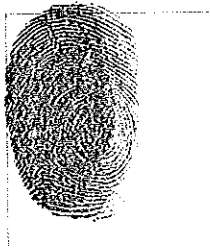
1.10.1 Name of WSP:

1.11 If the property owner is a Water User Association:

1.11.1 Name of WUA:

Declaration by applicant or waste discharger

Delete the words that are not applicable I/we BAUDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Signature

Thumb print

(011) 985 4518

Contact number during office hours

Company Representative

Designation of signatory

2009/11/05

Date (ccyy/mm/dd):

It is a criminal offence to provide information that is false or misleading.

2. DESCRIPTION OF THE WASTE GENERATED

2.1 Select the sector that generates the wastewater or waste which this application refers to

(Mark only one box with an X)

(Note, if more than one option is applicable, you must fill in a separate application form per sub-sector)

Agriculture

- ☐ Aquaculture
☐ Irrigation

- ☐ Intensive Animal Husbandry
☐ Other (please specify below)

Urban / Domestic

- ☐ Sewage Treatment Works
☐ Waste Disposal

- ☐ Water Treatment Works

Industry

- ☐ Agroprocessing
☐ Fertilisers
☐ Metal Processing And Finishing
☐ Textile
☐ Power Generation

- ☐ Meat Processing
☐ Manufacturing
☐ Paper And Pulp
☐ Winery
☐ Other (please specify below)

Mining

- ☒ Coal
☐ Gold
☐ Platinum
☐ Copper
☐ Chromium
☐ Iron

- ☐ Diamond
☐ Sand-winning
☐ Quarrying
☐ Peat Mining
☐ Uranium
☐ Other (please specify below)

2.2 Which of the following describes the nature of the wastewater?

(Mark the applicable option(s) with an X)

2.2.1 Wastewater containing <70% water by mass (i.e. sludge) ☐

2.2.2 Wastewater containing >70% water by mass ☐

2.2.3 Wastewater with high acidity (i.e. pH <5) or alkalinity (i.e. pH >10) ☐

2.2.4 Wastewater with temperature of >50°C ☐

2.2.5 Wastewater with an oxygen content of <5 mg/l ☐

2.2.6 Wastewater with an EC (Electrical Conductivity) of >500mS/m ☐

2.2.7 Wastewater with an EC of <500mS/m ☐

2.3 Which of the following describes the composition of the wastewater?

(Mark the applicable option(s) with an X)

2.3.1 Wastewater consisting of > 90% organic content by mass (i.e. load) ☐

2.3.2 Wastewater consisting of 50 – 90% organic content and 10 – 50% metals or salts by mass (i.e. load) ☐

2.3.3 Wastewater consisting of 10 – 50% organic content and 50 – 90% metals or salts by mass (i.e. load) ☐

2.3.4 Wastewater consisting of >90% metals or salts by mass (i.e. load) ☐

2.4 Describe the activity that generates the waste

Run-off - mine stockpile area.

2.5 Discharge to a land based facility

2.5.1 Water use start & end date

When did/will this water use start? (ccyymmdd)

20100301

When did/will this water use end? (If applicable)
(ccyymmdd)

2.5.2 The total volume of waste / waste water discharged per year:

N/A

Cubic meters

2.5.3 The maximum volume of waste / waste water discharged on any given day:

4150

Cubic meters

2.5.4 Monthly discharge pattern expressed in:

Note

☐ Cubic meters

OR

☐ Percentage (%) of total

OR

☐ Another unit of measure

If "Another unit of measure" was selected, specify the "unit of measure" to be applied to the monthly discharge pattern details:

	Minimum	Average	Maximum
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			

The maximum capacity of the stockpile area is 4150 m³, and will be routinely filled and emptied within 24 hrs. No cumulative capacity required.

2.5.5 Intake Water

National Water Act - Section 21(a/b/g/j) Water Use					
Section 21(?)	Registered*	Volume of water applicable to this waste discharge (m³)	If Registered*		
			Register Number	Water Use Number	Waste Management Facility Name
N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				

2.5.6 Average disposal volume / discharge volume onto the land / facility

N/A

Average disposal volume (cubic meters)		Time Interval: <input type="checkbox"/> Per Month <input type="checkbox"/> Per Annum
Maximum disposal volume anticipated (cubic meters)		Time Interval: <input type="checkbox"/> Per Month <input type="checkbox"/> Per Annum

Quality Variable And Unit Of Measurement	Concentration	For Office Use Only	
		Waste Load Onto Facility (kg)	NPS Load (kg)
Coliforms (Colony Forming Units/ml)			
Enteric pathogens e.g. E.coli (Colony Forming Units/ml)			
pH (pH units)			
Temperature (°C)			
Acidity (mg/l)			
Alkalinity (mg/l)			
Aluminium (mg/l)			
Ammonia (mg/l)			
Arsenic (mg/l)			
Barium (mg/l)			
Boron (mg/l)			
Bromide (mg/l)			
Cadmium (mg/l)			
Calcium (mg/l)			
Chemical oxygen demand (mg/l)			
Chloride (mg/l)			
Chromium (mg/l)			
Chromium(vi) (mg/l)			

Continued on next page

Quality Variable And Unit Of Measurement	Concentration	For Office Use Only	
		Waste Load Onto Facility (kg)	NPS Load (kg)
Cobalt (mg/l)			
Copper (mg/l)			
Cyanide (mg/l)			
Fluoride (mg/l)			
Iron (mg/l)			
Lead (mg/l)			
Lithium (mg/l)			
Magnesium (mg/l)			
Manganese (mg/l)			
Mercury (mg/l)			
Molybdenum (mg/l)			
Nickel (mg/l)			
Phenol (mg/l)			
Potassium (mg/l)			
Radionuclides (mg/l)			
Soap, oil or grease (mg/l)			
Sodium (mg/l)			
Sulphate (mg/l)			
Tin (mg/l)			
Total dissolved solids (mg/l)			
Total suspended solids (mg/l)			
Total nitrogen (mg/l)			
Total phosphorus (mg/l)			
Uranium (mg/l)			
Vanadium (mg/l)			
Zinc (mg/l)			

3. RECEIVING ENVIRONMENT/RECEPTOR

Serves to address the following: The resource that needs to be protected and related issues such as: how close to surface water, groundwater level, presence of boreholes, whether communities use boreholes or abstract from the surface water, etc.

3.1 Description of nearby water resource(s)

3.1.1 Description of Surface Water Resources

(Mark only one box with an X)

a) Type of surface water resource, nearest to location where discharge is taking place

☒ River / Stream

☐ Dam

☐ Estuary

☐ Lake

☐ Wetland

☐ GWS Scheme

☐ Marine

☐ Other (please specify below)

b) Name / description of the nearest surface water resource:

Unnamed tributary of Limpopo River

c) Distance to the nearest water resource (meters)

300

3.1.2 Description of Groundwater Resources

(Mark only one box with an X)

a) Type of groundwater resource, nearest to location where discharge is taking place

☐ Spring / Eye

☐ GWS Scheme

☒ Borehole

☐ Boreholes And Windmills On Government Land

☐ Other (please specify below)

b) Name / description of the nearest surface water resource:

Overulakte Aquifer

c) Distance to the nearest groundwater resource (meters)

5900

3.2 Drainage Region Details

Quaternary Drainage Region

A71L

3.3 Property Relationship Details (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property				Property Relationship		
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)	Date From:	To:
Bergen of Zoom	T12375/2008	MS	124	RE							

4. DISPOSAL OF WASTE

4.1 Commonly used description of waste types to be disposed

4.1.1 Description of the types of waste to be disposed

(Mark the applicable type option(s) with an X and/or complete details where applicable/available.)

- | | |
|--|---|
| <input type="checkbox"/> Sewage Sludge | <input type="checkbox"/> Household Refuse |
| <input type="checkbox"/> Industrial Sludge | <input type="checkbox"/> Farming Waste |
| <input type="checkbox"/> Mining Waste | <input type="checkbox"/> Dry Industrial Waste |
| <input type="checkbox"/> Hazardous Waste | <input type="checkbox"/> Industrial Liquid |
| <input type="checkbox"/> Industrial Ash (all industries) | <input checked="" type="checkbox"/> Other |
| <input type="checkbox"/> Power Generation | Specify Other: <u>Stockpile</u> |

4.1.2 Approximate maximum volume/tonnage per site per day

4150 m³

4.1.3 Approximate total tonnage per site per annum

tons

4.2 Type of waste management facility

4.2.1 Name of waste site or 'facility'

(Refer attached DW905 form)

ROM Stockpile.

4.2.2 Select the type of waste disposal site (Mark only one box with an X)

Waste Management Facility Type

	Select with X	Size (ha)	Estimated lifetime (y)	Disposal started on: (ccyymmdd)	Disposal ceased on: (if applicable) (ccyymmdd)
Artificial Wetlands					
Ash Dams / Dumps	<input type="checkbox"/>				
Coal Dams	<input type="checkbox"/>				
Composting	<input type="checkbox"/>				
Domestic Waste	<input type="checkbox"/>				
Effluent Dams	<input type="checkbox"/>				
Evaporation Dams/Ponds	<input type="checkbox"/>				
Forced Evaporation	<input type="checkbox"/>				
Maturation Ponds	<input type="checkbox"/>				

Continued on next page

Waste Management Facility Type	Select with X	Size (ha)	Estimated lifetime (y)	Disposal started on: (ccyymmdd)	Disposal ceased on: (if applicable) (ccyymmdd)
Other Waste Water Ponds: (Specify other)	<input type="checkbox"/>				
Open Cast Voids	<input type="checkbox"/>				
Oxidation Ponds	<input type="checkbox"/>				
Polluted Storm Water System	<input type="checkbox"/>				
Recycling	<input type="checkbox"/>				
Return Water Dams	<input type="checkbox"/>				
Silt Dams	<input type="checkbox"/>				
Slag Dumps	<input type="checkbox"/>				
Slimes/Tailings Dams	<input type="checkbox"/>				
Sludge Drying Beds	<input type="checkbox"/>				
Sludge Ponds/Lagoons	<input type="checkbox"/>				
Waste Rock Dump	<input type="checkbox"/>				
Waste Storage	<input type="checkbox"/>				
Waste Treatment Plant	<input checked="" type="checkbox"/>	0.4	30	20100301	
(Specify)	to Stockpile area				

5. LIST OF SUPPORTING TECHNICAL INFORMATION

5.1 Confirm that the following forms have been included in this application

DW901	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
DW902	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
DW905	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

5.2 Mark with an X if these documents have been submitted with this application

Environmental Impact Assessment (EIA)	<input checked="" type="checkbox"/>
Environmental Management Programme (EMPR)	<input type="checkbox"/>
Standard Environmental Management Programme	<input type="checkbox"/>
Integrated Water and Waste Management Plan (IWWMP)	<input checked="" type="checkbox"/>
Integrated Water Use Licence Application Report	<input type="checkbox"/>
Report on Waste Water Quality (solute load, seasonal changes, etc.)	<input type="checkbox"/>
Report on Industrial Process Generating Waste water	<input type="checkbox"/>
Geohydrological Report	<input checked="" type="checkbox"/>
Civil Designs	<input checked="" type="checkbox"/>
Contingency Plan for Failures and Malfunctions of System	<input checked="" type="checkbox"/>
Monitoring Programme(s)	<input checked="" type="checkbox"/>
Topographical Map (1:50 000)	<input type="checkbox"/>
National Water Act (Act No 36 of 1998) – Section 27 Evaluation	<input checked="" type="checkbox"/>
DW760 NWA-Section 21(a)	<input checked="" type="checkbox"/>
DW761 NWA-Section 21(b)	<input type="checkbox"/>
DW762 NWA-Section 21(b)	<input checked="" type="checkbox"/>
DW763 NWA-Section 21(c)	<input checked="" type="checkbox"/>
DW764 NWA-Section 21(d)	<input type="checkbox"/>
DW765 NWA-Section 21(e)	<input checked="" type="checkbox"/>
DW766 NWA-Section 21(f)	<input type="checkbox"/>
DW767 NWA-Section 21(g)	<input checked="" type="checkbox"/>
DW768 NWA-Section 21(i)	<input checked="" type="checkbox"/>
DW780 NWA-Section 21(h)	<input type="checkbox"/>
DW805 NWA-Section 21(j)	<input checked="" type="checkbox"/>
DW903	<input checked="" type="checkbox"/>
DW904	<input type="checkbox"/>

Other (specify other documents submitted with this form)

D	W					
D	W					
D	W					

5. THIS SECTION IS RESERVED FOR OFFICE USE ONLY

6.1 Management Classification Details						
Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Mining	Slimes/Tailings Dams		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Evaporation Dams/Ponds		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Effluent Dams		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Return Water Dam		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Forced Evaporation		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Ash Dams/Dumps		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Open Cast Voids		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Waste Rock Dump		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Polluted Storm Water System		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Industry	Evaporation Dams/Ponds	Synthetic liner	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Maturation Ponds		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 10%	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %
	Coal Dams	Clay liner and seepage drains	Salinity, pH, SO ₄ , heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
	Polluted Storm Water System	Collection and containment facilities	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 100% (no system)
		System captures 1:100 year storm-event	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	60-80% (system overflows 1:2 to 1.5 years) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Domestic	Oxidation Ponds	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Artificial Wetlands	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Polluted Storm Water System	Collection and containment facilities, system captures 1:100 year storm event	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 100% (no system)
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	60-80% (system overflows 1:2 to 1:5 years) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Agricultural	Oxidation Ponds	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Artificial Wetlands	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
Polluted Storm Water System		Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> %	<input type="checkbox"/> %	
		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> %	<input type="checkbox"/> %	

6.2 Waste Disposal Site Classification

Mark the site classification with an X (only one option may be selected)

☐ GCB+☐ GSB+☐ GMB+☐ GLB+☐ GCB-☐ GSB-☐ GMB-☐ GLB-☐ H:H☐ H:hLegend**B-** Water deficit climate resulting in only sporadic leachate generation**C** Communal Landfill**B+** Water surplus climate resulting in significant leachate generation**S** Small Landfill**G** General waste or landfill for general waste**M** Medium Landfill**H:H** Hazard waste landfill that can receive waste with a hazard rating of 1 and 2**L** Large Landfill**H:h** Hazard waste landfill that can receive waste with a hazard rating of 3 and 4

Site classification Date (ccyymmdd)

--	--	--	--	--	--	--	--	--	--

6.3 Authorisation / Regulation Details**6.3.1** Authorisation/Regulation Type (mark the applicable option with an X)☐ Licence ("Registration of a Waste Management Facility in terms of Section 21(g) of the National Water Act".)☐ Permit ("Registration of a Waste Management Facility in terms of Section 20(1) of the Environmental Conservation Act".)☐ Direction ("Registration of a Waste Management Facility in terms of Section 20(5) of the Environmental Conservation Act".)☐ Exemption ("Registration of a Waste Management Facility in terms of Section 20(1) of the Environmental Conservation Act".)**6.3.2** Applicable Authorisation / Regulation Reference Number

OR

Environment Conservation Act Permit Number

6.3.3 The authorisation/regulation is valid from (ccyymmdd)

--	--	--	--	--	--	--	--	--	--

Until
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

6.4 Succession transfer and source part 2 details**6.4.1** Is this a 'succession in title' related water use transfer?☐ Yes☐ No**6.4.2** If yes, complete the following details where applicable.

Source Register Number

WU Number

WU Status to be Allocated

WU Close Date (if applicable)
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

--	--	--	--	--

--	--	--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--	--	--

--	--	--	--	--

--	--	--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--	--	--

--	--	--	--	--

--	--	--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--	--	--

6.5 District Municipality

District Municipality Name (if applicable)

6.6 Billing information**6.6.1 Applicant to be billed as:**☐ Water User

or

☐ Via a WUA/WSP

Start Date (ccyymmdd)

--	--	--	--	--	--	--	--

End Date (ccyymmdd)

☐ Water User**6.6.2 Bill incentive charge:**☐ On actual load(s)

or

☐ Registered load(s)

Start Date (ccyymmdd)

--	--	--	--	--	--	--	--

End Date (ccyymmdd)

☐ On actual load(s)**6.6.3 Billing Frequency:**☐ Annually☐ Bi-annually☐ Monthly**6.6.4 If to be billed via WUA/WSP:**

Name of WUA/WSP

Is WUA/WSP a Billing Agent?

☐ Yes☐ No

Billing Agent's Register Number

--	--	--	--	--	--	--	--

6.6.5 If this WU is to be billed via a Bulk Billing Party that is not a WSP/WUA, complete the following:

Name of Customer

Bulk-Bill-to-Party Register Number

--	--	--	--	--	--	--	--

6.7 Waste management scheme information**Waste scheme name (if applicable)**

- If the Waste Scheme is applicable, provide WSMP (Waste Scheme Management Parameter Name)
- Specify the date from which this WSMP is applicable to this water use (ccyymmdd)

--	--	--	--	--	--	--	--

6.8 Late registration penalty

Is this a late registration?

☐ Yes☐ No

If yes, mark with an X, the applicable penalty to be levied

☐ R300.00 OR☐ 10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable

☐ Waive penalty

6.9 Authorisation details

6.9.1 Water use takes/took place in terms of the General Authorisation: ☐ Yes ☐ No

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

Date(s) from which applicable GA is/was applicable to this water use

South African Act:

Applicable section of the act

[E.g. National Water Act (Act No. 36 of 1998)]

[E.g. Section 21]

Date From
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

Government Notice No.

--	--	--	--

Date To
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

Government Notice Date
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

Applicable Section Of The General Authorisation

Date From
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

Government Notice No.

--	--	--	--

Date To
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

Government Notice Date
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

Applicable Section Of The General Authorisation

Date From
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

Government Notice No.

--	--	--	--

Date To
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

Government Notice Date
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

Applicable Section Of The General Authorisation

6.9.2 If an authorisation has been Issued under other legislation – provide the Law/Regulation details if known/available.

6.9.3 If this application represents a licence related water use (new licence application or previously submitted application) – complete following details if known/available.

Responsible Licensing Authority Reference

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Responsible Licensing Authority Business Unit



water affairs

Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

SUPPLEMENTARY WATER USE INFORMATION (ONLY APPLICABLE FOR NWA – SECTION 21g WATER USES)

DETAILS OF WASTE MANAGEMENT FACILITY

1. WASTE MANAGEMENT FACILITY DETAILS

1.1 Name of Waste Management Facility

1.2 Fatal flaw indicators

If any of the following criteria apply to the site, or will apply to a proposed site, mark with an X

- ☐ In an area below the 1 in 100 flood line of any watercourse
- ☐ In unstable areas (e.g. fault zones, seismic zones, dolomitic or karst areas, areas with sinkholes or subsidence)
- ☒ In sensitive ecological and/or historical areas
- ☒ In a catchment area for important, "significant" or sensitive surface water resources
- ☐ In an area with shallow or emergent groundwater, or characterised by flat gradients (wetlands, vleis, springs, etc.)
- ☐ In an area characterised by steep gradients (e.g. where problems with stability could be experienced)
- ☐ Areas of groundwater recharge on account of topography and/or highly permeable soils
- ☐ Overlaying or adjacent to important or potentially important aquifers (Parsons classification: Sole source, major)
- ☐ Within an area with shallow bedrock and limited available cover material
- ☐ Areas in close proximity to land uses that are incompatible with waste disposal activities
- ☐ Areas where adequate buffer zones are not possible

1.3 Method of disposal

- ☐ Trenching
- ☐ Ash-blending
- ☐ Co-disposal
- ☒ Other (specify) Stockpiling

1.4 Distance from nearest borehole used for drinking water or stock watering

5900 meters

1.5 Distance from the edge of nearest downstream surface water resource

300 meters

1.6 Lining of the site

- a) The site is / will be
 - ☒ Lined
 - b) If lined, the lining system is
 - ☒ Clay (compacted earth + clay)
 - ☐ Composite lining system
- (Mark the applicable option with an X)

1.7 Total area of 'property' on which waste is disposed

2078 hectares

1.8 Area of actual waste body ("footprint" area)

0.4 hectares

1.9 Dimensions of waste site

- | | Height or depth | Length | Breadth | |
|---|--|--------|---------|--------------|
| a) At commencement | 20 | 62.3 | 25.1 | meters |
| b) After rehabilitation | 0 | 0 | 0 | meters |
| c) Available air space | | N/A | | cubic meters |
| d) Total volume already used for waste disposal | | N/A | | cubic meters |
| e) Accuracy of above volumes | <input type="checkbox"/> Surveyor <input checked="" type="checkbox"/> Estimate | | | |

1.10 Buffer Zone

- a) Actual distance to the boundary of the nearest:
- Formal residential area: 60000 m
 - Informal residential area: 5000 m
 - Industrial Area: 60000 m
- b) Buffer zone determination done by
- ☐ Scientific method ☒ Actual distance

1.11 Location of Waste Management Facility

1.11.1 Geographical location for each of the external corner points of the waste management facility:

Centre point only due to small size.

Latitude S 22° 10' 23.0" or S . . . or S . . .

Longitude E 29° 40' 04.0" or E . . . or E . . .

Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S . . . or S . . . or S . . .

Longitude E . . . or E . . . or E . . .

Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S . . . or S . . . or S . . .

Longitude E . . . or E . . . or E . . .

Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S . . . or S . . . or S . . .

Longitude E . . . or E . . . or E . . .

Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S . . . or S . . . or S . . .

Longitude E . . . or E . . . or E . . .

Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84

1.11.2 Drainage Region Details: Quaternary Drainage Region

A 7 1 L

1.12 Climatic water balance

The wettest six months of the year are

☒ November to April☐ May to October

The wettest years during the past thirty years were (populate at least one year's details with both rainfall and evaporation detail completed)

Rating	Year	Total rainfall for 6 months		Total evaporation (A-pan) for 6 months		Official use
Wettest year	1 9 9 9	9 5 8	mm	1 0 6 6	mm	
2 nd wettest	1 9 9 5	5 0 2	mm	1 2 6 1	mm	
3 rd wettest	1 9 7 7	5 4 4	mm	1 1 4 4	mm	
4 th wettest	1 9 7 1	4 4 9	mm	1 1 4 3	mm	
5 th wettest	1 9 7 5	4 1 6	mm	1 2 3 4	mm	
6 th wettest	1 9 7 3	4 2 9	mm	1 2 5 2	mm	
7 th wettest	1 9 8 4	2 8 2	mm	1 3 1 0	mm	
8 th wettest	1 9 8 0	4 6 3	mm	1 2 3 6	mm	
9 th wettest	1 9 6 0	4 1 2	mm	1 2 5 0	mm	
10 th wettest	1 9 8 7	3 5 9	mm	1 2 7 2	mm	

Site-specific water balance factors

If leachate is visible (for existing facilities only) mark with an X

☐

Other site specific water balance factors (specify)

SOURCE: DEPARTMENT OF WATER AFFAIRS, WEATHER STATION - A7E006 MACUVILLE

1.13 Details of the person in control of the site

Surname PRETORIUS

Initials &/or First Name

NICO

Title

MR

ID No.

Phone Number

011 785 4502

Ext

Fax Number

086 692 9728

Cellphone

082 824 0913

E-mail Address

NPretorius@coalofafrica.co.za

Highest Educational Qualification

☐ Grade 8 / Std 6
☐ Diploma☐ Grade 10 / Std 8
☐ Higher Diploma☐ Matric
☒ Degree

2. OPERATION OF THE WASTE MANAGEMENT FACILITY

2.1 Type of operation

- ☐ Landfill or Landbuild ☐ Transfer station ☐ Recycling facility ☐ Incinerator
☐ Composting plant ☐ Storage area ☐ Treatment plant
☐ Encapsulation ☒ Other (specify) Stockpile area

2.2 Length of time of the operation

Start Date
(ccyymmdd)

20100301

End Date
(ccyymmdd)

2.3 Is sufficient cover material on site?

☒ Yes

☐ No

2.4 Covering and burning of waste (mark applicable options with an X)

N/A

- ☐ Daily compaction and covering ☐ Weekly compaction and covering
☐ Burning of waste

2.5 Is leachate management system present?

☐ Yes

☒ No

2.6 Storm water management (mark the applicable options with an X)

☒ Upstream cut-off trenches

☒ Contaminated storm water storage facility

3. MANAGEMENT PRACTICES OF THE WASTE MANAGEMENT FACILITY **NOT LISTED**

Tick the options that describe the management practices for the waste facility or site

Artificial Wetlands Facility is generally lined (clay liners typically) and are designed to receive 120 l/m²/d at a depth of 30 cm. ☐ Yes ☐ No

Stormwater and seepage drains ☐ Yes ☐ No

Any other practice: _____

Ash Dams/Dumps Facility is lined (synthetic or clay) ☐ Yes ☐ No

Side slopes stabilized to minimize erosion ☐ Yes ☐ No

Rainfall runoff collected into a dirty water storage facility ☐ Yes ☐ No

Collection of percolated storm water via under drains into collection sumps, which should pump the water to a dirty water storage facility ☐ Yes ☐ No

For pits, ingress of water is prevented ☐ Yes ☐ No

Any other practice: _____

Coal Dams Lined facility (synthetic or clay liners) ☐ Yes ☐ No

Seepage drains in place ☐ Yes ☐ No

Storm water drains in place & connected to the polluted storm water system ☐ Yes ☐ No

Effluent in the dam is not of acidic pH ☐ Yes ☐ No

Dam is covered to prevent contact with oxygen ☐ Yes ☐ No

Facility does not maintain anaerobic conditions ☐ Yes ☐ No

Any other practice: _____

Effluent Dams Lined facility (synthetic or clay) ☐ Yes ☐ No

Facility has seepage drains ☐ Yes ☐ No

Splitting of facility into 2 separate compartments for the purposes of cleaning and management ☐ Yes ☐ No

Any other practice: _____

Evaporation Dams/Ponds Lined facility (synthetic or clay) ☐ Yes ☐ No

Facility is of sufficiently large size to ensure that full evaporation of effluent is achieved ☐ Yes ☐ No

Seepage drains in place ☐ Yes ☐ No

Storm water collection drains in place ☐ Yes ☐ No

Any other practice: _____

Forced Evaporation Evaporation only with wind speeds less than 2m/sec ☐ Yes ☐ No

No evaporate pre-dawn as humidity is high ☐ Yes ☐ No

Any other practice: _____

Continued on next page

Maturation Ponds	Facility lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Facility designed to ensure at least 5 days retention time	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water and seepage collection drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Waste Water Ponds	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water collection drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Open Cast Voids	Diversion of upslope storm water around the void	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Upstream diversion berms or management measures to prevent inflow of water into the void	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Prevention of water flowing into the void by using highball drains where necessary	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Ensure any water within the void is contained	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: <hr/>			

Oxidation Ponds	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate structures in place to ensure capture of a 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water collection drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Polluted Stormwater System	Storm water discharged directly to the resource	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection system incorporating the plant, raw material stockpiles and waste disposal facilities	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Clean stormwater separated from stormwater draining "dirty" sites or facilities	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Polluted stormwater collected & stored in dams	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Return Water Dams	Sizing to accept seepage from the under drainage systems and decant systems for up to the 1:50 year rainfall event, over and above normal operating conditions	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Continued on next page

Sewage Treatment Works	Pump stations operational	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Emergency storage dam(s) available	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate capacity in emergency storage dams	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Compliance with minimum discharge standards	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate capacity to contain total volume	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Silt Dams	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice: _____		

Slag Dumps	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Separation of clean & dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of rainfall run-off into the dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	After decommissioning, the top surface is shaped to suit drainage requirements and re-vegetated	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Implementation of under drainage systems to collect seepage for re-use as process water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Slimes/Tailings Dams	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Separation of clean & dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of rainfall run-off into the dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	After decommissioning, the top surface is shaped to suit drainage requirements and re-vegetated	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Implementation of under drainage systems to collect seepage for re-use as process water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Covering of side slopes with soil during the operational phase to assist in reducing any contact of rainfall runoff with the tailings	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Vegetation of side slopes to minimise erosion	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Continued on next page

Sludge Drying Beds	Facility is lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Moisture reduction of sludge	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Incorporation of sludge into soil	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate management system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Mixing of high moisture content or liquid waste with dry waste	<input type="checkbox"/> Yes	<input type="checkbox"/> No

Any other practice:

Sludge Ponds/Lagoons	Facility is lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No

Any other practice:

Waste Rock Dump	Stabilisation of side slopes to minimise erosion	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Rainfall runoff collected into a dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Covering of terraces or step-ins with a soil layer, followed by paddocking & vegetation to minimise ingress of water into the dump	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of percolated stormwater via under drains into collection sumps which should pump the water to a dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No

Any other practice:

Waste Storage	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate management system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate detection layer in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate collection layer in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater drains in place & connected to the polluted stormwater system	<input type="checkbox"/> Yes	<input type="checkbox"/> No

For pits, ingress of water is prevented

Any other practice:

Continued on next page

**Waste Treatment
Plant**

Capacity to handle the 1:50 year storm event

☐ Yes☐ No

Stormwater collection system in place

☐ Yes☐ No

Stormwater diversion measures in place

☐ Yes☐ No

Seepage collection system in place

☐ Yes☐ No

Adequate structures in place to ensure capture of a 1:50 year storm event

☐ Yes☐ No

Emergency incident structures in place

☐ Yes☐ No

Any other practice:



water affairs

Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

Part 2: WASTE DISCHARGE RELATED WATER USE IN TERMS OF SECTION 21(g) OF THE NATIONAL WATER ACT, (ACT NO. 36 OF 1998)

Section 21(g): disposing of waste in a manner which may detrimentally impact on a water resource.

1. GENERAL INFORMATION

Mark the applicable option(s) with an X and/or complete details where applicable/available.

- 1.1** Indicate the nature of this application: ☒ Licence ☐ Registration (only)
- 1.2** Have you already registered a water use with the Department of Water Affairs and Forestry? ☐ Yes ☒ No
 Registration number:
 Water use number:
- 1.3** Indicate if Section 21(j) is applicable to this water use application: **Section 21(j):** removing, discharging or disposing of water found underground if it is necessary for the efficient continuation of an activity or for the safety of people.
☐ Yes ☒ No
Note: If Yes was selected, ensure that a DW805 application form has been submitted.
- 1.4** Do you have a licence, permit or exemption for this waste discharge? ☐ Yes ☒ No
 (Issued in terms of the National Water Act (Act No. 36 of 1998),
 Water Act (Act No. 54 of 1956)
 or the Environmental Conservation Act (Act No. 73 of 1989))
 Licence number:
 OR
 Permit number:
 OR
 Exemption reference number:

1.5 Applicant Type (mark only one block with X)

- ☐ Individual (complete 1.6)
 ☐ Provincial Department (complete 1.9)
- ☒ Company, business, partnership or community (complete 1.7)
 ☐ Water Services Provider (complete 1.10)
- ☐ National Department (complete 1.8)
 ☐ Water User Association (complete 1.11)

1.6 If the applicant is an individual

1.6.1 Title Surname Initials

1.6.2 South African ID (if holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

Passport Expiry Date (ccyyymmdd)

Passport Country Of Issue

1.7 If the applicant is a company, business, partnership or community:**1.7.1** Name of company, business, partnership or community:

1.7.2 Business Enterprise Registration Number

1.7.3 Date Established (ccyyymmdd)

Country Where Established

1.8 If the applicant is a National Department:

1.8.1 National Department Name:

1.9 If the property owner is a Provincial Department:

1.9.1 Province:

1.9.2 Provincial Department Name:

1.10 If the property owner is a Water Services Provider:

1.10.1 Name of WSP:

1.11 If the property owner is a Water User Association:

1.11.1 Name of WUA:

Declaration by applicant or waste discharger

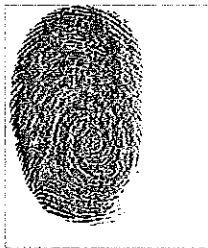
Delete the words that are not applicable I/~~we~~ BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Signature

Company Representative

Designation of signatory



Thumb print

(011) 785 4518

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd):

It is a criminal offence to provide information that is false or misleading.

2. DESCRIPTION OF THE WASTE GENERATED

2.1 Select the sector that generates the wastewater or waste which this application refers to

(Mark only one box with an X)

(Note, if more than one option is applicable, you must fill in a separate application form per sub-sector)

Agriculture

- ☐ Aquaculture
☐ Irrigation

- ☐ Intensive Animal Husbandry
☐ Other (please specify below)

Urban / Domestic

- ☐ Sewage Treatment Works
☐ Waste Disposal

- ☐ Water Treatment Works

Industry

- ☐ Agroprocessing
☐ Fertilisers
☐ Metal Processing And Finishing
☐ Textile
☐ Power Generation

- ☐ Meat Processing
☐ Manufacturing
☐ Paper And Pulp
☐ Winery
☐ Other (please specify below)

Mining

- ☒ Coal
☐ Gold
☐ Platinum
☐ Copper
☐ Chromium
☐ Iron

- ☐ Diamond
☐ Sand-winning
☐ Quarrying
☐ Peat Mining
☐ Uranium
☐ Other (please specify below)

2.2 Which of the following describes the nature of the wastewater?

(Mark the applicable option(s) with an X)

N/A

2.2.1 Wastewater containing <70% water by mass (i.e. sludge) ☐

2.2.2 Wastewater containing >70% water by mass ☐

2.2.3 Wastewater with high acidity (i.e. pH <5) or alkalinity (i.e. pH >10) ☐

2.2.4 Wastewater with temperature of >50°C ☐

2.2.5 Wastewater with an oxygen content of <5 mg/l ☐

2.2.6 Wastewater with an EC (Electrical Conductivity) of >500mS/m ☐

2.2.7 Wastewater with an EC of <500mS/m ☐

2.3 Which of the following describes the composition of the wastewater?

(Mark the applicable option(s) with an X)

N/A

2.3.1 Wastewater consisting of > 90% organic content by mass (i.e. load) ☐

2.3.2 Wastewater consisting of 50 – 90% organic content and 10 – 50% metals or salts by mass (i.e. load) ☐

2.3.3 Wastewater consisting of 10 – 50% organic content and 50 – 90% metals or salts by mass (i.e. load) ☐

2.3.4 Wastewater consisting of >90% metals or salts by mass (i.e. load) ☐

2.4 Describe the activity that generates the waste

Destoning stockpile area

2.5 Discharge to a land based facility

2.5.1 Water use start & end date

When did/will this water use start? (ccyymmdd)

20100301

When did/will this water use end? (If applicable)
(ccyymmdd)

2.5.2 The total volume of waste / waste water discharged per year:

N/A

Cubic meters

2.5.3 The maximum volume of waste / waste water discharged on any given day:

2230

Cubic meters

2.5.4 Monthly discharge pattern expressed in:

Note

☐ Cubic meters

OR

☐ Percentage (%) of total

OR

☐ Another unit of measure

If "Another unit of measure" was selected, specify the "unit of measure" to be applied to the monthly discharge pattern details:

	Minimum	Average	Maximum
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			

The maximum capacity of the stockpile area is 2230 m³ and will be routinely filled and emptied within 24 hrs. No cumulative capacity is required.

2.5.5 Intake Water

National Water Act - Section 21(a/b/g/j) Water Use					
Section 21(?)	Registered*	Volume of water applicable to this waste discharge (m³)	If Registered*		
			Register Number	Water Use Number	Waste Management Facility Name
N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				

2.5.6 Average disposal volume / discharge volume onto the land / facility

N/A

Average disposal volume (cubic meters)	<input type="text"/>	Time Interval: <input type="checkbox"/> Per Month <input type="checkbox"/> Per Annum
Maximum disposal volume anticipated (cubic meters)	<input type="text"/>	Time Interval: <input type="checkbox"/> Per Month <input type="checkbox"/> Per Annum

Quality Variable And Unit Of Measurement	Concentration	For Office Use Only	
		Waste Load Onto Facility (kg)	NPS Load (kg)
Coliforms (Colony Forming Units/ml)			
Enteric pathogens e.g. E.coli (Colony Forming Units/ml)			
pH (pH units)			
Temperature (°C)			
Acidity (mg/l)			
Alkalinity (mg/l)			
Aluminium (mg/l)			
Ammonia (mg/l)			
Arsenic (mg/l)			
Barium (mg/l)			
Boron (mg/l)			
Bromide (mg/l)			
Cadmium (mg/l)			
Calcium (mg/l)			
Chemical oxygen demand (mg/l)			
Chloride (mg/l)			
Chromium (mg/l)			
Chromium(vi) (mg/l)			

Continued on next page

Quality Variable And Unit Of Measurement	Concentration	For Office Use Only	
		Waste Load Onto Facility (kg)	NPS Load (kg)
Cobalt (mg/l)			
Copper (mg/l)			
Cyanide (mg/l)			
Fluoride (mg/l)			
Iron (mg/l)			
Lead (mg/l)			
Lithium (mg/l)			
Magnesium (mg/l)			
Manganese (mg/l)			
Mercury (mg/l)			
Molybdenum (mg/l)			
Nickel (mg/l)			
Phenol (mg/l)			
Potassium (mg/l)			
Radionuclides (mg/l)			
Soap, oil or grease (mg/l)			
Sodium (mg/l)			
Sulphate (mg/l)			
Tin (mg/l)			
Total dissolved solids (mg/l)			
Total suspended solids (mg/l)			
Total nitrogen (mg/l)			
Total phosphorus (mg/l)			
Uranium (mg/l)			
Vanadium (mg/l)			
Zinc (mg/l)			

3. RECEIVING ENVIRONMENT/RECEPTOR

Serves to address the following: The resource that needs to be protected and related issues such as: how close to surface water, groundwater level, presence of boreholes, whether communities use boreholes or abstract from the surface water, etc.

3.1 Description of nearby water resource(s)

3.1.1 Description of Surface Water Resources

(Mark only one box with an X)

a) Type of surface water resource, nearest to location where discharge is taking place

☒ River / Stream

☐ Dam

☐ Estuary

☐ Lake

☐ Wetland

☐ GWS Scheme

☐ Marine

☐ Other (please specify below)

b) Name / description of the nearest surface water resource:

Unnamed tributary of Limpopo River

c) Distance to the nearest water resource (meters)

300

3.1.2 Description of Groundwater Resources

(Mark only one box with an X)

a) Type of groundwater resource, nearest to location where discharge is taking place

☐ Spring / Eye

☐ GWS Scheme

☒ Borehole

☐ Boreholes And Windmills On Government Land

☐ Other (please specify below)

b) Name / description of the nearest surface water resource

Overulakte Aquifer

c) Distance to the nearest groundwater resource (meters)

5900

3.2 Drainage Region Details

Quaternary Drainage Region

A71L

3.3 Property Relationship Details (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property				Property Relationship Date		
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)	From:	To:
Bergen Op Zoom	T12375/2009		W15								
			124								
			EE								

4. DISPOSAL OF WASTE**4.1 Commonly used description of waste types to be disposed****4.1.1 Description of the types of waste to be disposed**

(Mark the applicable type option(s) with an X and/or complete details where applicable/available.)

- ☐ Sewage Sludge
 ☐ Household Refuse
☐ Industrial Sludge
 ☐ Farming Waste
☐ Mining Waste
 ☐ Dry Industrial Waste
☐ Hazardous Waste
 ☐ Industrial Liquid
☐ Industrial Ash (all industries)
 ☒ Other
☐ Power Generation

Specify Other:

Stockpile**4.1.2 Approximate maximum volume/tonnage per site per day**2230 m³**4.1.3 Approximate total tonnage per site per annum**

--	--	--	--	--	--	--	--

 tons

--	--	--	--	--	--	--	--

 tons
4.2 Type of waste management facility**4.2.1 Name of waste site or 'facility'**

(Refer attached DW905 form)

DESTONING STOCKPILE**4.2.2 Select the type of waste disposal site (Mark only one box with an X)****Waste Management Facility Type**

	Select with X	Size (ha)	Estimated lifetime (y)	Disposal started on: (ccyyymmdd)	Disposal ceased on: (if applicable) (ccyyymmdd)																						
Artificial Wetlands																											
Ash Dams / Dumps	<input type="checkbox"/>	<table><tr><td></td><td></td><td></td></tr></table>				<table><tr><td></td><td></td><td></td></tr></table>				<table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>									<table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>								
Coal Dams	<input type="checkbox"/>	<table><tr><td></td><td></td><td></td></tr></table>				<table><tr><td></td><td></td><td></td></tr></table>				<table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>									<table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>								
Composting	<input type="checkbox"/>	<table><tr><td></td><td></td><td></td></tr></table>				<table><tr><td></td><td></td><td></td></tr></table>				<table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>									<table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>								
Domestic Waste	<input type="checkbox"/>	<table><tr><td></td><td></td><td></td></tr></table>				<table><tr><td></td><td></td><td></td></tr></table>				<table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>									<table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>								
Effluent Dams	<input type="checkbox"/>	<table><tr><td></td><td></td><td></td></tr></table>				<table><tr><td></td><td></td><td></td></tr></table>				<table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>									<table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>								
Evaporation Dams/Ponds	<input type="checkbox"/>	<table><tr><td></td><td></td><td></td></tr></table>				<table><tr><td></td><td></td><td></td></tr></table>				<table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>									<table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>								
Forced Evaporation	<input type="checkbox"/>	<table><tr><td></td><td></td><td></td></tr></table>				<table><tr><td></td><td></td><td></td></tr></table>				<table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>									<table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>								
Maturation Ponds	<input type="checkbox"/>	<table><tr><td></td><td></td><td></td></tr></table>				<table><tr><td></td><td></td><td></td></tr></table>				<table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>									<table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>								

Continued on next page

Waste Management Facility Type	Select with X	Size (ha)	Estimated lifetime (y)	Disposal started on: (ccyymmdd)	Disposal ceased on: (if applicable) (ccyymmdd)
Other Waste Water Ponds: (Specify other)	<input type="checkbox"/>				
Open Cast Voids	<input type="checkbox"/>				
Oxidation Ponds	<input type="checkbox"/>				
Polluted Storm Water System	<input type="checkbox"/>				
Recycling	<input type="checkbox"/>				
Return Water Dams	<input type="checkbox"/>				
Silt Dams	<input type="checkbox"/>				
Slag Dumps	<input type="checkbox"/>				
Slimes/Tailings Dams	<input type="checkbox"/>				
Sludge Drying Beds	<input type="checkbox"/>				
Sludge Ponds/Lagoons	<input type="checkbox"/>				
Waste Rock Dump	<input type="checkbox"/>				
Waste Storage	<input type="checkbox"/>				
Waste Treatment Plant	<input checked="" type="checkbox"/>	0.2	30	20100301	
(Specify)	Stockpile.				

5. LIST OF SUPPORTING TECHNICAL INFORMATION

5.1 Confirm that the following forms have been included in this application

DW901 ☒ Yes ☐ No

DW902 ☒ Yes ☐ No

DW905 ☒ Yes ☐ No

5.2 Mark with an X if these documents have been submitted with this application

Environmental Impact Assessment (EIA)	<input checked="" type="checkbox"/>
Environmental Management Programme (EMPR)	<input type="checkbox"/>
Standard Environmental Management Programme	<input type="checkbox"/>
Integrated Water and Waste Management Plan (IWWMP)	<input checked="" type="checkbox"/>
Integrated Water Use Licence Application Report	<input type="checkbox"/>
Report on Waste Water Quality (solute load, seasonal changes, etc.)	<input type="checkbox"/>
Report on Industrial Process Generating Waste water	<input type="checkbox"/>
Geohydrological Report	<input checked="" type="checkbox"/>
Civil Designs	<input checked="" type="checkbox"/>
Contingency Plan for Failures and Malfunctions of System	<input checked="" type="checkbox"/>
Monitoring Programme(s)	<input checked="" type="checkbox"/>
Topographical Map (1:50 000)	<input type="checkbox"/>
National Water Act (Act No 36 of 1998) – Section 27 Evaluation	<input checked="" type="checkbox"/>
DW760 NWA-Section 21(a)	<input checked="" type="checkbox"/>
DW761 NWA-Section 21(b)	<input type="checkbox"/>
DW762 NWA-Section 21(b)	<input checked="" type="checkbox"/>
DW763 NWA-Section 21(c)	<input checked="" type="checkbox"/>
DW764 NWA-Section 21(d)	<input type="checkbox"/>
DW765 NWA-Section 21(e)	<input checked="" type="checkbox"/>
DW766 NWA-Section 21(f)	<input type="checkbox"/>
DW767 NWA-Section 21(g)	<input checked="" type="checkbox"/>
DW768 NWA-Section 21(i)	<input checked="" type="checkbox"/>
DW780 NWA-Section 21(h)	<input type="checkbox"/>
DW805 NWA-Section 21(j)	<input checked="" type="checkbox"/>
DW903	<input checked="" type="checkbox"/>
DW904	<input type="checkbox"/>

Other (specify other documents submitted with this form)

[illegible]

5. THIS SECTION IS RESERVED FOR OFFICE USE ONLY

6.1 Management Classification Details		Management Classification (Mark applicable option(s) with an X)			
Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Best practice leading to zero impact	Poor practice
Mining	Slimes/Tailings Dams		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1.5%
	Evaporation Dams/Ponds		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1.5%
	Effluent Dams		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1.5%
	Return Water Dam		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1.5%
	Forced Evaporation		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1.5%
	Ash Dams/Dumps		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1.5%
	Open Cast Voids		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1.5%
	Waste Rock Dump		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1.5%
	Polluted Storm Water System		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1.5%

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Industry	Evaporation Dams/Ponds	Synthetic liner	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Maturation Ponds		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 10%	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %
	Coal Dams	Clay liner and seepage drains	Salinity, pH, SO ₄ , heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
	Polluted Storm Water System	Collection and containment facilities	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 100% (no system)
		System captures 1:100 year storm-event	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	60-80% (system overflows 1:2 to 1:5 years) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)			
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice	
Domestic	Oxidation Ponds	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%	
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%	
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%	
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%	
	Artificial Wetlands	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%	
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%	
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%	
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%	
			Polluted Storm Water System	Collection and containment facilities, system captures 1:100 year storm event	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 100% (no system)
					<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	60-80% (system overflows 1:2 to 1:5 years) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)			
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice	
Agricultural	Oxidation Ponds	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%	
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%	
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%	
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%	
	Artificial Wetlands	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%	
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%	
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%	
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%	
			Polluted Storm Water System	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> %	<input type="checkbox"/> %
				Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> %	<input type="checkbox"/> %

6.2 Waste Disposal Site Classification

Mark the site classification with an X (only one option may be selected)

- | | | | |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| <input type="checkbox"/> GCB+ | <input type="checkbox"/> GSB+ | <input type="checkbox"/> GMB+ | <input type="checkbox"/> GLB+ |
| <input type="checkbox"/> GCB- | <input type="checkbox"/> GSB- | <input type="checkbox"/> GMB- | <input type="checkbox"/> GLB- |
| <input type="checkbox"/> H:H | <input type="checkbox"/> H:h | | |

Legend

- | | | | |
|------------|--|----------|-------------------|
| B- | Water deficit climate resulting in only sporadic leachate generation | C | Communal Landfill |
| B+ | Water surplus climate resulting in significant leachate generation | S | Small Landfill |
| G | General waste or landfill for general waste | M | Medium Landfill |
| H:H | Hazard waste landfill that can receive waste with a hazard rating of 1 and 2 | L | Large Landfill |
| H:h | Hazard waste landfill that can receive waste with a hazard rating of 3 and 4 | | |

Site classification Date (ccyymmdd)

--	--	--	--	--	--	--	--	--	--

6.3 Authorisation / Regulation Details**6.3.1** Authorisation/Regulation Type (mark the applicable option with an X)

- ☐ Licence ("Registration of a Waste Management Facility in terms of Section 21(g) of the National Water Act".)
- ☐ Permit ("Registration of a Waste Management Facility in terms of Section 20(1) of the Environmental Conservation Act".)
- ☐ Direction ("Registration of a Waste Management Facility in terms of Section 20(5) of the Environmental Conservation Act".)
- ☐ Exemption ("Registration of a Waste Management Facility in terms of Section 20(1) of the Environmental Conservation Act".)

6.3.2 Applicable Authorisation / Regulation Reference Number

OR

Environment Conservation Act Permit Number

6.3.3 The authorisation/regulation is valid from (ccyymmdd)

--	--	--	--	--	--	--	--	--	--

Until
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

6.4 Succession transfer and source part 2 details**6.4.1** Is this a 'succession in title' related water use transfer?☐ Yes☐ No**6.4.2** If yes, complete the following details where applicable.

Source Register Number

WU Number

WU Status to be Allocated

WU Close Date (if applicable)
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

--	--	--	--	--

--	--	--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--	--	--

--	--	--	--	--

--	--	--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--	--	--

--	--	--	--	--

--	--	--	--	--	--	--	--	--	--

6.5 District Municipality

District Municipality Name (if applicable)

6.6 Billing information**6.6.1 Applicant to be billed as:**☐ Water User

or

☐ Via a WUA/WSP

Start Date (ccyymmdd)

--	--	--	--	--	--	--	--

End Date (ccyymmdd)

☐ Water User**6.6.2 Bill incentive charge:**☐ On actual load(s)

or

☐ Registered load(s)

Start Date (ccyymmdd)

--	--	--	--	--	--	--	--

End Date (ccyymmdd)

☐ On actual load(s)**6.6.3 Billing Frequency:**☐ Annually☐ Bi-annually☐ Monthly**6.6.4 If to be billed via WUA/WSP:**

Name of WUA/WSP

Is WUA/WSP a Billing Agent?

☐ Yes☐ No

Billing Agent's Register Number

--	--	--	--	--	--	--	--

6.6.5 If this WU is to be billed via a Bulk Billing Party that is not a WSP/WUA, complete the following:

Name of Customer

Bulk-Bill-to-Party Register Number

--	--	--	--	--	--	--	--

6.7 Waste management scheme information**Waste scheme name (if applicable)**

- If the Waste Scheme is applicable, provide WSMP (Waste Scheme Management Parameter Name)
- Specify the date from which this WSMP is applicable to this water use (ccyymmdd)

--	--	--	--	--	--	--	--

6.8 Late registration penalty

Is this a late registration?

☐ Yes☐ No

If yes, mark with an X, the applicable penalty to be levied

☐ R300.00 OR☐ 10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable

☐ Waive penalty

6.9 Authorisation details

6.9.1 Water use takes/took place in terms of the General Authorisation: ☐ Yes ☐ No

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

Date(s) from which applicable GA is/was applicable to this water use

South African Act:

Applicable section of the act

[E.g. National Water Act (Act No. 36 of 1998)]

[E.g. Section 21]

Date From
(ccyymmdd)

--	--	--	--	--	--	--	--

Government Notice No.

--	--	--	--

Date To
(ccyymmdd)

--	--	--	--	--	--	--	--

Government Notice Date
(ccyymmdd)

--	--	--	--	--	--	--	--

Applicable Section Of The General Authorisation

Date From
(ccyymmdd)

--	--	--	--	--	--	--	--

Government Notice No.

--	--	--	--

Date To
(ccyymmdd)

--	--	--	--	--	--	--	--

Government Notice Date
(ccyymmdd)

--	--	--	--	--	--	--	--

Applicable Section Of The General Authorisation

Date From
(ccyymmdd)

--	--	--	--	--	--	--	--

Government Notice No.

--	--	--	--

Date To
(ccyymmdd)

--	--	--	--	--	--	--	--

Government Notice Date
(ccyymmdd)

--	--	--	--	--	--	--	--

Applicable Section Of The General Authorisation

6.9.2 If an authorisation has been issued under other legislation – provide the Law/Regulation details if known/available.

6.9.3 If this application represents a licence related water use (new licence application or previously submitted application) – complete following details if known/available.

Responsible Licensing Authority Reference

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Responsible Licensing Authority Business Unit



water affairs

 Department:
 Water Affairs
 REPUBLIC OF SOUTH AFRICA

SUPPLEMENTARY WATER USE INFORMATION
 (ONLY APPLICABLE FOR NWA – SECTION 21g WATER USES)

DETAILS OF WASTE MANAGEMENT FACILITY
1. WASTE MANAGEMENT FACILITY DETAILS
1.1 Name of Waste Management Facility
1.2 Fatal flaw indicators

If any of the following criteria apply to the site, or will apply to a proposed site, mark with an X

- ☐ In an area below the 1 in 100 flood line of any watercourse
- ☐ In unstable areas (e.g. fault zones, seismic zones, dolomitic or karst areas, areas with sinkholes or subsidence)
- ☒ In sensitive ecological and/or historical areas
- ☒ In a catchment area for important, "significant" or sensitive surface water resources
- ☐ In an area with shallow or emergent groundwater, or characterised by flat gradients (wetlands, vleis, springs, etc.)
- ☐ In an area characterised by steep gradients (e.g. where problems with stability could be experienced)
- ☐ Areas of groundwater recharge on account of topography and/or highly permeable soils
- ☐ Overlaying or adjacent to important or potentially important aquifers (Parsons classification: Sole source, major)
- ☐ Within an area with shallow bedrock and limited available cover material
- ☐ Areas in close proximity to land uses that are incompatible with waste disposal activities
- ☐ Areas where adequate buffer zones are not possible

1.3 Method of disposal

- ☐ Trenching ☐ Ash-blending ☐ Co-disposal
- ☒ Other (specify) Stockpiling

1.4 Distance from nearest borehole used for drinking water or stock watering
 meters

1.5 Distance from the edge of nearest downstream surface water resource
 meters

1.6 Lining of the site

- a) The site is / will be ☒ Lined
- b) If lined, the lining system is ☒ Clay (compacted earth + clay)
- (Mark the applicable option with an X) ☐ Composite lining system

- 1.7 Total area of 'property' on which waste is disposed 2078 hectares
- 1.8 Area of actual waste body ("footprint" area) 0.2 hectares
- 1.9 Dimensions of waste site

- | | Height or depth | Length | Breadth | |
|---|--|--------|---------|--------------|
| a) At commencement | 420 | 59 | 26 | meters |
| b) After rehabilitation | 0 | 0 | 0 | meters |
| c) Available air space | | N/A | | cubic meters |
| d) Total volume already used for waste disposal | | 0 | | cubic meters |
| e) Accuracy of above volumes | <input type="checkbox"/> Surveyor <input checked="" type="checkbox"/> Estimate | | | |

1.10 Buffer Zone

- a) Actual distance to the boundary of the nearest:
- Formal residential area 60000 m
 - Informal residential area 5000 m
 - Industrial Area 60000 m
- b) Buffer zone determination done by ☐ Scientific method ☒ Actual distance

1.11 Location of Waste Management Facility

1.11.1 Geographical location for each of the external corner points of the waste management facility:

Centre point only due to small size.

Latitude S 22° 10' 21.0" or S ° ' " or S ° ' "

Longitude E 29° 40' 14.0" or E ° ' " or E ° ' "

Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S ° ' " or S ° ' " or S ° ' "

Longitude E ° ' " or E ° ' " or E ° ' "

Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S ° ' " or S ° ' " or S ° ' "

Longitude E ° ' " or E ° ' " or E ° ' "

Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S ° ' " or S ° ' " or S ° ' "

Longitude E ° ' " or E ° ' " or E ° ' "

Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S ° ' " or S ° ' " or S ° ' "

Longitude E ° ' " or E ° ' " or E ° ' "

Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84

1.11.2 Drainage Region Details: Quaternary Drainage Region

A 7 1 L

1.12 Climatic water balance

The wettest six months of the year are

☒ November to April☐ May to October

The wettest years during the past thirty years were (populate at least one year's details with both rainfall and evaporation detail completed)

Rating	Year	Total rainfall for 6 months	Total evaporation (A-pan) for 6 months	Official use
Wettest year	1 9 9 9	9 5 8 mm	1 0 6 6 mm	
2 nd wettest	1 9 9 5	5 0 2 mm	1 2 6 1 mm	
3 rd wettest	1 9 7 7	5 4 4 mm	1 1 4 4 mm	
4 th wettest	1 9 7 1	4 4 9 mm	1 1 4 3 mm	
5 th wettest	1 9 7 5	4 1 6 mm	1 2 3 4 mm	
6 th wettest	1 9 7 3	4 2 9 mm	1 2 5 2 mm	
7 th wettest	1 9 8 4	2 8 2 mm	1 3 1 0 mm	
8 th wettest	1 9 8 0	4 6 3 mm	1 2 3 6 mm	
9 th wettest	1 9 6 0	4 1 2 mm	1 2 5 0 mm	
10 th wettest	1 9 8 7	3 5 9 mm	1 2 7 2 mm	

Site-specific water balance factors

If leachate is visible (for existing facilities only) mark with an X

☐

Other site specific water balance factors (specify)

SOURCE: DEPARTMENT OF WATER AFFAIRS, WEATHER STATION - A7E006 MACUVILLE

1.13 Details of the person in control of the site

Surname

PRETORIUS

Initials &/or First Name

NICO

Title

MR

ID No.

Phone Number

011 785 4502

Ext

Fax Number

086 692 9728

Cellphone

082 824 0913

E-mail Address

NPretorius@coalofafrica.co.za

Highest Educational Qualification

☐ Grade 8 / Std 6☐ Diploma☐ Grade 10 / Std 8☐ Higher Diploma☐ Matric☒ Degree

2. OPERATION OF THE WASTE MANAGEMENT FACILITY

2.1 Type of operation

- ☐ Landfill or Landbuild ☐ Transfer station ☐ Recycling facility ☐ Incinerator
☐ Composting plant ☐ Storage area ☐ Treatment plant
☐ Encapsulation ☒ Other (specify) Stockpile area

2.2 Length of time of the operation

Start Date
(ccyymmdd)

20100301

End Date
(ccyymmdd)

2.3 Is sufficient cover material on site?

☒ Yes

☐ No

2.4 Covering and burning of waste (mark applicable options with an X)

N/A

☐ Daily compaction and covering

☐ Weekly compaction and covering

☐ Burning of waste

2.5 Is leachate management system present?

☐ Yes

☒ No

2.6 Storm water management (mark the applicable options with an X)

☒ Upstream cut-off trenches

☒ Contaminated storm water storage facility

3. MANAGEMENT PRACTICES OF THE WASTE MANAGEMENT FACILITY **Not LISTED.**

Tick the options that describe the management practices for the waste facility or site

Artificial Wetlands	Facility is generally lined (clay liners typically) and are designed to receive 120//m2/d at a depth of 30 cm.	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater and seepage drains	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	
Ash Dams/Dumps	Facility is lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Side slopes stabilized to minimize erosion	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Rainfall runoff collected into a dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of percolated storm water via under drains into collection sumps, which should pump the water to a dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	For pits, ingress of water is prevented	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	
Coal Dams	Lined facility (synthetic or clay liners)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water drains in place & connected to the polluted storm water system	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Effluent in the dam is not of acidic pH	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Dam is covered to prevent contact with oxygen	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Facility does not maintain anaerobic conditions	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	
Effluent Dams	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Facility has seepage drains	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Splitting of facility into 2 separate compartments for the purposes of cleaning and management	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	
Evaporation Dams/Ponds	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Facility is of sufficiently large size to ensure that full evaporation of effluent is achieved	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water collection drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	
Forced Evaporation	Evaporation only with wind speeds less than 2m/sec	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	No evaporate pre-dawn as humidity is high	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Continued on next page

Maturation Ponds	Facility lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Facility designed to ensure at least 5 days retention time	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water and seepage collection drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Waste Water Ponds	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water collection drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Open Cast Voids	Diversion of upslope storm water around the void	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Upstream diversion berms or management measures to prevent inflow of water into the void	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Prevention of water flowing into the void by using highball drains where necessary	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Ensure any water within the void is contained	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Oxidation Ponds	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate structures in place to ensure capture of a 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water collection drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Polluted Stormwater System	Storm water discharged directly to the resource	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection system incorporating the plant, raw material stockpiles and waste disposal facilities	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Clean stormwater separated from stormwater draining "dirty" sites or facilities	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Polluted stormwater collected & stored in dams	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Return Water Dams	Sizing to accept seepage from the under drainage systems and decant systems for up to the 1:50 year rainfall event, over and above normal operating conditions	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Continued on next page

Sewage Treatment Works	Pump stations operational	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Emergency storage dam(s) available	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate capacity in emergency storage dams	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Compliance with minimum discharge standards	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate capacity to contain total volume	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Silt Dams	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Slag Dumps	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Separation of clean & dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of rainfall run-off into the dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	After decommissioning, the top surface is shaped to suit drainage requirements and re-vegetated	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Implementation of under drainage systems to collect seepage for re-use as process water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Slimes/Tailings Dams	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Separation of clean & dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of rainfall run-off into the dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	After decommissioning, the top surface is shaped to suit drainage requirements and re-vegetated	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Implementation of under drainage systems to collect seepage for re-use as process water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Covering of side slopes with soil during the operational phase to assist in reducing any contact of rainfall runoff with the tailings	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Vegetation of side slopes to minimise erosion	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Continued on next page

Sludge Drying Beds	Facility is lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Moisture reduction of sludge	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Incorporation of sludge into soil	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate management system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Mixing of high moisture content or liquid waste with dry waste	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice:		<hr/>	

Sludge Ponds/Lagoons	Facility is lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Waste Rock Dump	Stabilisation of side slopes to minimise erosion	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Rainfall runoff collected into a dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Covering of terraces or step-ins with a soil layer, followed by paddocking & vegetation to minimise ingress of water into the dump	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of percolated stormwater via under drains into collection sumps which should pump the water to a dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Waste Storage	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate management system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate detection layer in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate collection layer in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater drains in place & connected to the polluted stormwater system	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	For pits, ingress of water is prevented		
Any other practice:		<hr/>	

Continued on next page

**Waste Treatment
Plant**

Capacity to handle the 1:50 year storm event

☐ Yes☐ No

Stormwater collection system in place

☐ Yes☐ No

Stormwater diversion measures in place

☐ Yes☐ No

Seepage collection system in place

☐ Yes☐ No

Adequate structures in place to ensure capture of a 1:50 year storm event

☐ Yes☐ No

Emergency incident structures in place

☐ Yes☐ No

Any other practice:



water affairs

Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

Part 2: WASTE DISCHARGE RELATED WATER USE IN TERMS OF SECTION 21(g) OF THE NATIONAL WATER ACT, (ACT NO. 36 OF 1998)

Section 21(g): disposing of waste in a manner which may detrimentally impact on a water resource.

1. GENERAL INFORMATION

Mark the applicable option(s) with an X and/or complete details where applicable/available.

- 1.1** Indicate the nature of this application: ☒ Licence ☐ Registration (only)
- 1.2** Have you already registered a water use with the Department of Water Affairs and Forestry? ☐ Yes ☒ No
 Registration number:
 Water use number:
- 1.3** Indicate if Section 21(j) is applicable to this water use application: **Section 21(j):** removing, discharging or disposing of water found underground if it is necessary for the efficient continuation of an activity or for the safety of people. ☐ Yes ☒ No
Note: If Yes was selected, ensure that a DW805 application form has been submitted.
- 1.4** Do you have a licence, permit or exemption for this waste discharge? ☐ Yes ☒ No
 (Issued in terms of the National Water Act (Act No. 36 of 1998),
 Water Act (Act No. 54 of 1956)
 or the Environmental Conservation Act (Act No. 73 of 1989))
 Licence number:
 OR
 Permit number:
 OR
 Exemption reference number:

1.5 Applicant Type (mark only one block with X)

- ☐ Individual (complete 1.6)
 ☐ Provincial Department (complete 1.9)
- ☒ Company, business, partnership or community (complete 1.7)
 ☐ Water Services Provider (complete 1.10)
- ☐ National Department (complete 1.8)
 ☐ Water User Association (complete 1.11)

1.6 If the applicant is an individual

1.6.1 Title Surname Initials

1.6.2 South African ID (If holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

Passport Expiry Date (ccyymmdd)

Passport Country Of Issue

1.7 If the applicant is a company, business, partnership or community:**1.7.1** Name of company, business, partnership or community:

1.7.2 Business Enterprise Registration Number

1.7.3 Date Established (ccyymmdd)

Country Where Established

1.8 If the applicant is a National Department:

1.8.1 National Department Name:

1.9 If the property owner is a Provincial Department:

1.9.1 Province:

1.9.2 Provincial Department Name:

1.10 If the property owner is a Water Services Provider:

1.10.1 Name of WSP:

1.11 If the property owner is a Water User Association:

1.11.1 Name of WUA:

Declaration by applicant or waste discharger

Delete the words that are not applicable ~~I/we~~ BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Signature

Company Representative

Designation of signatory



Thumb print

(011) 735 4518

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd):

It is a criminal offence to provide information that is false or misleading.

2. DESCRIPTION OF THE WASTE GENERATED

2.1 Select the sector that generates the wastewater or waste which this application refers to

(Mark only one box with an X)

(Note, if more than one option is applicable, you must fill in a separate application form per sub-sector)

Agriculture

- ☐ Aquaculture
☐ Irrigation

- ☐ Intensive Animal Husbandry
☐ Other (please specify below)

Urban / Domestic

- ☐ Sewage Treatment Works
☐ Waste Disposal

- ☐ Water Treatment Works

Industry

- ☐ Agroprocessing
☐ Fertilisers
☐ Metal Processing And Finishing
☐ Textile
☐ Power Generation

- ☐ Meat Processing
☐ Manufacturing
☐ Paper And Pulp
☐ Winery
☐ Other (please specify below)

Mining

- ☒ Coal
☐ Gold
☐ Platinum
☐ Copper
☐ Chromium
☐ Iron

- ☐ Diamond
☐ Sand-winning
☐ Quarrying
☐ Peat Mining
☐ Uranium
☐ Other (please specify below)

2.2 Which of the following describes the nature of the wastewater?

(Mark the applicable option(s) with an X)

N/A

- 2.2.1 Wastewater containing <70% water by mass (i.e. sludge) ☐
2.2.2 Wastewater containing >70% water by mass ☐
2.2.3 Wastewater with high acidity (i.e. pH <5) or alkalinity (i.e. pH >10) ☐
2.2.4 Wastewater with temperature of >50°C ☐
2.2.5 Wastewater with an oxygen content of <5 mg/l ☐
2.2.6 Wastewater with an EC (Electrical Conductivity) of >500mS/m ☐
2.2.7 Wastewater with an EC of <500mS/m ☐

2.3 Which of the following describes the composition of the wastewater?

(Mark the applicable option(s) with an X)

N/A

- 2.3.1 Wastewater consisting of > 90% organic content by mass (i.e. load) ☐
2.3.2 Wastewater consisting of 50 – 90% organic content and 10 – 50% metals or salts by mass (i.e. load) ☐
2.3.3 Wastewater consisting of 10 – 50% organic content and 50 – 90% metals or salts by mass (i.e. load) ☐
2.3.4 Wastewater consisting of >90% metals or salts by mass (i.e. load) ☐

2.4 Describe the activity that generates the waste

Secondary washing stockpile area.

2.5 Discharge to a land based facility

2.5.1 Water use start & end date

When did/will this water use start? (ccyymmdd)

20100301

When did/will this water use end? (If applicable)
(ccyymmdd)

2.5.2 The total volume of waste / waste water discharged per year:

N/A

Cubic meters

2.5.3 The maximum volume of waste / waste water discharged on any given day:

6020

Cubic meters

2.5.4 Monthly discharge pattern expressed in:

Note

☐ Cubic meters

OR

☐ Percentage (%) of total

OR

☐ Another unit of measure

If "Another unit of measure" was selected, specify the "unit of measure" to be applied to the monthly discharge pattern details:

	Minimum	Average	Maximum
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			

The maximum capacity of the stockpile area is 6020 m³ and will be filled and emptied within 24 hrs. No cumulative capacity is required.

2.5.5 Intake Water

National Water Act - Section 21(a/b/g/j) Water Use					
Section 21(?)	Registered*	Volume of water applicable to this waste discharge (m ³)	If Registered*		
			Register Number	Water Use Number	Waste Management Facility Name
N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				

2.5.6 Average disposal volume / discharge volume onto the land / facility

Average disposal volume (cubic meters)	<input type="text"/>	Time Interval: <input type="checkbox"/> Per Month <input type="checkbox"/> Per Annum
Maximum disposal volume anticipated (cubic meters)	<input type="text"/>	Time Interval: <input type="checkbox"/> Per Month <input type="checkbox"/> Per Annum

Quality Variable And Unit Of Measurement	Concentration	For Office Use Only	
		Waste Load Onto Facility (kg)	NPS Load (kg)
Coliforms (Colony Forming Units/ml)			
Enteric pathogens e.g. E.coli (Colony Forming Units/ml)			
pH (pH units)			
Temperature (°C)			
Acidity (mg/l)			
Alkalinity (mg/l)			
Aluminium (mg/l)			
Ammonia (mg/l)			
Arsenic (mg/l)			
Barium (mg/l)			
Boron (mg/l)			
Bromide (mg/l)			
Cadmium (mg/l)			
Calcium (mg/l)			
Chemical oxygen demand (mg/l)			
Chloride (mg/l)			
Chromium (mg/l)			
Chromium(vi) (mg/l)			

Continued on next page

Quality Variable And Unit Of Measurement	Concentration	For Office Use Only	
		Waste Load Onto Facility (kg)	NPS Load (kg)
Cobalt (mg/l)			
Copper (mg/l)			
Cyanide (mg/l)			
Fluoride (mg/l)			
Iron (mg/l)			
Lead (mg/l)			
Lithium (mg/l)			
Magnesium (mg/l)			
Manganese (mg/l)			
Mercury (mg/l)			
Molybdenum (mg/l)			
Nickel (mg/l)			
Phenol (mg/l)			
Potassium (mg/l)			
Radionuclides (mg/l)			
Soap, oil or grease (mg/l)			
Sodium (mg/l)			
Sulphate (mg/l)			
Tin (mg/l)			
Total dissolved solids (mg/l)			
Total suspended solids (mg/l)			
Total nitrogen (mg/l)			
Total phosphorus (mg/l)			
Uranium (mg/l)			
Vanadium (mg/l)			
Zinc (mg/l)			

3. RECEIVING ENVIRONMENT/RECEPTOR

Serves to address the following: The resource that needs to be protected and related issues such as: how close to surface water, groundwater level, presence of boreholes, whether communities use boreholes or abstract from the surface water, etc.

3.1 Description of nearby water resource(s)

3.1.1 Description of Surface Water Resources

(Mark only one box with an X)

a) Type of surface water resource, nearest to location where discharge is taking place

☒ River / Stream

☐ Dam

☐ Estuary

☐ Lake

☐ Wetland

☐ GWS Scheme

☐ Marine

☐ Other (please specify below)

b) Name / description of the nearest surface water resource:

Unnamed tributary of Limpopo River

c) Distance to the nearest water resource (meters)

300

3.1.2 Description of Groundwater Resources

(Mark only one box with an X)

a) Type of groundwater resource, nearest to location where discharge is taking place

☐ Spring / Eye

☐ GWS Scheme

☒ Borehole

☐ Boreholes And Windmills On Government Land

☐ Other (please specify below)

b) Name / description of the nearest surface water resource

Overvakte Aquifer

c) Distance to the nearest groundwater resource (meters)

5900

3.2 Drainage Region Details

Quaternary Drainage Region

A71L

3.3 Property Relationship Details (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property				Property Relationship Date		
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)	From:	To:
Bergen Op Zoom	T12375/2009		MS								
			124								
			RE								

4. DISPOSAL OF WASTE

4.1 Commonly used description of waste types to be disposed

4.1.1 Description of the types of waste to be disposed

(Mark the applicable type option(s) with an X and/or complete details where applicable/available.)

- | | |
|--|---|
| <input type="checkbox"/> Sewage Sludge | <input type="checkbox"/> Household Refuse |
| <input type="checkbox"/> Industrial Sludge | <input type="checkbox"/> Farming Waste |
| <input type="checkbox"/> Mining Waste | <input type="checkbox"/> Dry Industrial Waste |
| <input type="checkbox"/> Hazardous Waste | <input type="checkbox"/> Industrial Liquid |
| <input type="checkbox"/> Industrial Ash (all industries) | <input checked="" type="checkbox"/> Other |
| <input type="checkbox"/> Power Generation | Specify Other: |

Specify Other:

Stockpile

4.1.2 Approximate maximum volume/tonnage per site per day

6020 m³

4.1.3 Approximate total tonnage per site per annum

--	--	--	--	--

 tons

--	--	--	--	--

 tons

4.2 Type of waste management facility

4.2.1 Name of waste site or 'facility'

(Refer attached DW905 form)

SECONDARY WASHING STOCKPILE

4.2.2 Select the type of waste disposal site (Mark only one box with an X)

Waste Management Facility Type[illegible]

Continued on next page

Waste Management Facility Type	Select with X	Size (ha)	Estimated lifetime (y)	Disposal started on: (ccyymmdd)	Disposal ceased on: (if applicable) (ccyymmdd)
Other Waste Water Ponds: (Specify other)	<input type="checkbox"/>				
Open Cast Voids	<input type="checkbox"/>				
Oxidation Ponds	<input type="checkbox"/>				
Polluted Storm Water System	<input type="checkbox"/>				
Recycling	<input type="checkbox"/>				
Return Water Dams	<input type="checkbox"/>				
Silt Dams	<input type="checkbox"/>				
Slag Dumps	<input type="checkbox"/>				
Slimes/Tailings Dams	<input type="checkbox"/>				
Sludge Drying Beds	<input type="checkbox"/>				
Sludge Ponds/Lagoons	<input type="checkbox"/>				
Waste Rock Dump	<input type="checkbox"/>				
Waste Storage	<input type="checkbox"/>				
Waste Treatment Plant	<input type="checkbox"/>	0.3	30	20100301	
(Specify)		Stockpile			

5. LIST OF SUPPORTING TECHNICAL INFORMATION

5.1 Confirm that the following forms have been included in this application

DW901	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
DW902	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
DW905	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

5.2 Mark with an X if these documents have been submitted with this application

Environmental Impact Assessment (EIA)	<input checked="" type="checkbox"/>
Environmental Management Programme (EMPR)	<input type="checkbox"/>
Standard Environmental Management Programme	<input type="checkbox"/>
Integrated Water and Waste Management Plan (IWWMP)	<input checked="" type="checkbox"/>
Integrated Water Use Licence Application Report	<input type="checkbox"/>
Report on Waste Water Quality (solute load, seasonal changes, etc.)	<input type="checkbox"/>
Report on Industrial Process Generating Waste water	<input type="checkbox"/>
Geohydrological Report	<input checked="" type="checkbox"/>
Civil Designs	<input checked="" type="checkbox"/>
Contingency Plan for Failures and Malfunctions of System	<input checked="" type="checkbox"/>
Monitoring Programme(s)	<input checked="" type="checkbox"/>
Topographical Map (1:50 000)	<input type="checkbox"/>
National Water Act (Act No 36 of 1998) – Section 27 Evaluation	<input checked="" type="checkbox"/>
DW760 NWA-Section 21(a)	<input checked="" type="checkbox"/>
DW761 NWA-Section 21(b)	<input type="checkbox"/>
DW762 NWA-Section 21(b)	<input checked="" type="checkbox"/>
DW763 NWA-Section 21(c)	<input checked="" type="checkbox"/>
DW764 NWA-Section 21(d)	<input type="checkbox"/>
DW765 NWA-Section 21(e)	<input checked="" type="checkbox"/>
DW766 NWA-Section 21(f)	<input type="checkbox"/>
DW767 NWA-Section 21(g)	<input checked="" type="checkbox"/>
DW768 NWA-Section 21(i)	<input checked="" type="checkbox"/>
DW780 NWA-Section 21(h)	<input type="checkbox"/>
DW805 NWA-Section 21(j)	<input checked="" type="checkbox"/>
DW903	<input checked="" type="checkbox"/>
DW904	<input type="checkbox"/>

Other (specify other documents submitted with this form)

D	W					<input type="checkbox"/>
D	W					<input type="checkbox"/>
D	W					<input type="checkbox"/>

5. THIS SECTION IS RESERVED FOR OFFICE USE ONLY

6.1 Management Classification Details					Management Classification (Mark applicable option(s) with an X)		
Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)		Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Mining	Slimes/Tailings Dams		Salinity, pH, SO ₄ , Cl, Na, heavy metals		<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Evaporation Dams/Ponds		Salinity, pH, SO ₄ , Cl, Na, heavy metals		<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Effluent Dams		Salinity, pH, SO ₄ , Cl, Na, heavy metals		<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Return Water Dam		Salinity, pH, SO ₄ , Cl, Na, heavy metals		<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Forced Evaporation		Salinity, pH, SO ₄ , Cl, Na, heavy metals		<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Ash Dams/Dumps		Salinity, pH, SO ₄ , Cl, Na, heavy metals		<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Open Cast Voids		Salinity, pH, SO ₄ , Cl, Na, heavy metals		<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Waste Rock Dump		Salinity, pH, SO ₄ , Cl, Na, heavy metals		<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Polluted Storm Water System		Salinity, pH, SO ₄ , Cl, Na, heavy metals		<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Industry	Evaporation Dams/Ponds	Synthetic liner	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Maturation Ponds		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 10%	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %
	Coal Dams	Clay liner and seepage drains	Salinity, pH, SO ₄ , heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
	Polluted Storm Water System	Collection and containment facilities	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 100% (no system)
		System captures 1:100 year storm-event	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	60-80% (system overflows 1:2 to 1:5 years) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Domestic	Oxidation Ponds	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Artificial Wetlands	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Polluted Storm Water System	Collection and containment facilities, system captures 1:100 year storm event	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 100% (no system)
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	60-80% (system overflows 1:2 to 1:5 years) <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="margin-left: 5px;">%</div> </div>

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Agricultural	Oxidation Ponds	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Artificial Wetlands	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Polluted Storm Water System		Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> %	<input type="checkbox"/> %
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> %	<input type="checkbox"/> %

6.2 Waste Disposal Site Classification

Mark the site classification with an X (only one option may be selected)

- | | | | |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| <input type="checkbox"/> GCB+ | <input type="checkbox"/> GSB+ | <input type="checkbox"/> GMB+ | <input type="checkbox"/> GLB+ |
| <input type="checkbox"/> GCB- | <input type="checkbox"/> GSB- | <input type="checkbox"/> GMB- | <input type="checkbox"/> GLB- |
| <input type="checkbox"/> H:H | <input type="checkbox"/> H:h | | |

Legend

- | | | | |
|-----|--|---|-------------------|
| B- | Water deficit climate resulting in only sporadic leachate generation | C | Communal Landfill |
| B+ | Water surplus climate resulting in significant leachate generation | S | Small Landfill |
| G | General waste or landfill for general waste | M | Medium Landfill |
| H:H | Hazard waste landfill that can receive waste with a hazard rating of 1 and 2 | L | Large Landfill |
| H:h | Hazard waste landfill that can receive waste with a hazard rating of 3 and 4 | | |

Site classification Date (ccyymmdd)

--	--	--	--	--	--	--	--	--	--

6.3 Authorisation / Regulation Details

6.3.1 Authorisation/Regulation Type (mark the applicable option with an X)

- ☐ Licence ("Registration of a Waste Management Facility in terms of Section 21(g) of the National Water Act".)
- ☐ Permit ("Registration of a Waste Management Facility in terms of Section 20(1) of the Environmental Conservation Act".)
- ☐ Direction ("Registration of a Waste Management Facility in terms of Section 20(5) of the Environmental Conservation Act".)
- ☐ Exemption ("Registration of a Waste Management Facility in terms of Section 20(1) of the Environmental Conservation Act".)

6.3.2 Applicable Authorisation / Regulation Reference Number

OR

Environment Conservation Act Permit Number

6.3.3 The authorisation/regulation is valid from (ccyymmdd)

--	--	--	--	--	--	--	--	--	--

Until
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

6.4 Succession transfer and source part 2 details

6.4.1 Is this a 'succession in title' related water use transfer?

☐ Yes

☐ No

6.4.2 If yes, complete the following details where applicable.

Source Register Number

WU Number

WU Status to be Allocated

WU Close Date (if applicable)
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

--	--	--	--	--	--

--	--	--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--	--	--

--	--	--	--	--	--

--	--	--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--	--	--

--	--	--	--	--	--

--	--	--	--	--	--	--	--	--	--

6.5 District Municipality

District Municipality Name (if applicable)

6.6 Billing information**6.6.1 Applicant to be billed as:**☐ Water User

or

☐ Via a WUA/WSP

Start Date (ccyymmdd)

--	--	--	--	--	--	--	--	--	--

End Date (ccyymmdd)

☐ Water User**6.6.2 Bill incentive charge:**☐ On actual load(s)

or

☐ Registered load(s)

Start Date (ccyymmdd)

--	--	--	--	--	--	--	--	--	--

End Date (ccyymmdd)

☐ On actual load(s)**6.6.3 Billing Frequency:**☐ Annually☐ Bi-annually☐ Monthly**6.6.4 If to be billed via WUA/WSP:**

Name of WUA/WSP

Is WUA/WSP a Billing Agent?

☐ Yes☐ No

Billing Agent's Register Number

--	--	--	--	--	--	--	--	--	--

6.6.5 If this WU is to be billed via a Bulk Billing Party that is not a WSP/WUA, complete the following:

Name of Customer

Bulk-Bill-to-Party Register Number

--	--	--	--	--	--	--	--	--	--

6.7 Waste management scheme information

Waste scheme name (if applicable)

- If the Waste Scheme is applicable, provide WSMP (Waste Scheme Management Parameter Name)

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

- Specify the date from which this WSMP is applicable to this water use (ccyymmdd)

--	--	--	--	--	--	--	--	--	--

6.8 Late registration penalty

Is this a late registration?

☐ Yes☐ No

If yes, mark with an X, the applicable penalty to be levied

☐ R300.00 OR☐ 10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable

☐ Waive penalty

6.9 Authorisation details

6.9.1 Water use takes/took place in terms of the General Authorisation:

☐ Yes

☐ No

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

Date(s) from which applicable GA is/was applicable to this water use	
South African Act: [E.g. National Water Act (Act No. 36 of 1998)]	Applicable section of the act [E.g. Section 21]
Date From (ccyymmdd) <input type="text"/>	Government Notice No. <input type="text"/>
Date To (ccyymmdd) <input type="text"/>	Government Notice Date (ccyymmdd) <input type="text"/>
Applicable Section Of The General Authorisation <input type="text"/>	
Date From (ccyymmdd) <input type="text"/>	Government Notice No. <input type="text"/>
Date To (ccyymmdd) <input type="text"/>	Government Notice Date (ccyymmdd) <input type="text"/>
Applicable Section Of The General Authorisation <input type="text"/>	
Date From (ccyymmdd) <input type="text"/>	Government Notice No. <input type="text"/>
Date To (ccyymmdd) <input type="text"/>	Government Notice Date (ccyymmdd) <input type="text"/>
Applicable Section Of The General Authorisation <input type="text"/>	

6.9.2 If an authorisation has been issued under other legislation – provide the Law/Regulation details if known/available.

6.9.3 If this application represents a licence related water use (new licence application or previously submitted application) – complete following details if known/available.

Responsible Licensing Authority Reference

Responsible Licensing Authority Business Unit



water affairs

Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

SUPPLEMENTARY WATER USE INFORMATION (ONLY APPLICABLE FOR NWA – SECTION 21g WATER USES)

DETAILS OF WASTE MANAGEMENT FACILITY

1. WASTE MANAGEMENT FACILITY DETAILS

1.1 Name of Waste Management Facility

1.2 Fatal flaw indicators

If any of the following criteria apply to the site, or will apply to a proposed site, mark with an X

- ☐ In an area below the 1 in 100 flood line of any watercourse
- ☐ In unstable areas (e.g. fault zones, seismic zones, dolomitic or karst areas, areas with sinkholes or subsidence)
- ☒ In sensitive ecological and/or historical areas
- ☒ In a catchment area for important, "significant" or sensitive surface water resources
- ☐ In an area with shallow or emergent groundwater, or characterised by flat gradients (wetlands, vleis, springs, etc.)
- ☐ In an area characterised by steep gradients (e.g. where problems with stability could be experienced)
- ☐ Areas of groundwater recharge on account of topography and/or highly permeable soils
- ☐ Overlaying or adjacent to important or potentially important aquifers (Parsons classification: Sole source, major)
- ☐ Within an area with shallow bedrock and limited available cover material
- ☐ Areas in close proximity to land uses that are incompatible with waste disposal activities
- ☐ Areas where adequate buffer zones are not possible

1.3 Method of disposal

- ☐ Trenching
- ☐ Ash-blending
- ☐ Co-disposal
- ☒ Other (specify) Stockpiling

1.4 Distance from nearest borehole used for drinking water or stock watering

meters

1.5 Distance from the edge of nearest downstream surface water resource

meters

1.6 Lining of the site

- a) The site is / will be ☒ Lined
- b) If lined, the lining system is ☒ Clay (compacted earth + clay)
- (Mark the applicable option with an X) ☐ Composite lining system

1.7 Total area of 'property' on which waste is disposed

2078 hectares

1.8 Area of actual waste body ("footprint" area)

0.3 hectares

1.9 Dimensions of waste site

a) At commencement

Height or depth

16

Length

98

Breadth

35

meters

b) After rehabilitation

0

0

0

meters

c) Available air space

N/A

cubic meters

d) Total volume already used for waste disposal

0

cubic meters

e) Accuracy of above volumes

☐ Surveyor☒ Estimate

1.10 Buffer Zone

a) Actual distance to the boundary of the nearest:

• Formal residential area

60000

m

• Informal residential area

5000

m

• Industrial Area

60000

m

b) Buffer zone determination done by

☐ Scientific method☒ Actual distance

1.11 Location of Waste Management Facility

1.11.1 Geographical location for each of the external corner points of the waste management facility:

Centre point due to small size

Latitude S 22° 10' 24.0" or S or S

Longitude E 29° 40' 15.0" or E or E

Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S or S or S

Longitude E or E or E

Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S or S or S

Longitude E or E or E

Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S or S or S

Longitude E or E or E

Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S or S or S

Longitude E or E or E

Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84

1.11.2 Drainage Region Details: Quaternary Drainage Region

A 7 1 L

1.12 Climatic water balance

The wettest six months of the year are

☒ November to April☐ May to October

The wettest years during the past thirty years were (populate at least one year's details with both rainfall and evaporation detail completed)

Rating	Year	Total rainfall for 6 months		Total evaporation (A-pan) for 6 months		Official use
Wettest year	1 9 9 9	9 5 8	mm	1 0 6 6	mm	
2 nd wettest	1 9 9 5	5 0 2	mm	1 2 6 1	mm	
3 rd wettest	1 9 7 7	5 4 4	mm	1 1 4 4	mm	
4 th wettest	1 9 7 1	4 4 9	mm	1 1 4 3	mm	
5 th wettest	1 9 7 5	4 1 6	mm	1 2 3 4	mm	
6 th wettest	1 9 7 3	4 2 9	mm	1 2 5 2	mm	
7 th wettest	1 9 8 4	2 8 2	mm	1 3 1 0	mm	
8 th wettest	1 9 8 0	4 6 3	mm	1 2 3 6	mm	
9 th wettest	1 9 6 0	4 1 2	mm	1 2 5 0	mm	
10 th wettest	1 9 8 7	3 5 9	mm	1 2 7 2	mm	

Site-specific water balance factors

If leachate is visible (for existing facilities only) mark with an X

☐

Other site specific water balance factors (specify)

SOURCE: DEPARTMENT OF WATER AFFAIRS, WEATHER STATION - A7E006 MACUVILLE

1.13 Details of the person in control of the site

Surname

PRETORIUS

Initials &/or First Name

NICO

Title

MR

ID No.

Phone Number

011 785 4502

Ext

Fax Number

086 692 9728

Cellphone

082 824 0913

E-mail Address

NPreorius@coalofafrica.co.za

Highest Educational Qualification

☐ Grade 8 / Std 6☐ Diploma☐ Grade 10 / Std 8☐ Higher Diploma☐ Matric☒ Degree

2. OPERATION OF THE WASTE MANAGEMENT FACILITY

2.1 Type of operation

- ☐ Landfill or Landbuild ☐ Transfer station ☐ Recycling facility ☐ Incinerator
☐ Composting plant ☐ Storage area ☐ Treatment plant
☐ Encapsulation ☒ Other (specify) Stockpile area

2.2 Length of time of the operation

Start Date
(ccyymmdd)

20100301

End Date
(ccyymmdd)

2.3 Is sufficient cover material on site?

☒ Yes

☐ No

2.4 Covering and burning of waste (mark applicable options with an X)

N/A

☐ Daily compaction and covering

☐ Weekly compaction and covering

☐ Burning of waste

2.5 Is leachate management system present?

☐ Yes

☒ No

2.6 Storm water management (mark the applicable options with an X)

☒ Upstream cut-off trenches

☒ Contaminated storm water storage facility

3.

MANAGEMENT PRACTICES OF THE WASTE MANAGEMENT FACILITY

Not LISTED

Tick the options that describe the management practices for the waste facility or site

Artificial Wetlands Facility is generally lined (clay liners typically) and are designed to receive 120/l/m2/d at a depth of 30 cm. ☐ Yes ☐ No

Stormwater and seepage drains ☐ Yes ☐ No

Any other practice: _____

Ash Dams/Dumps Facility is lined (synthetic or clay) ☐ Yes ☐ No

Side slopes stabilized to minimize erosion ☐ Yes ☐ No

Rainfall runoff collected into a dirty water storage facility ☐ Yes ☐ No

Collection of percolated storm water via under drains into collection sumps, which should pump the water to a dirty water storage facility ☐ Yes ☐ No

For pits, ingress of water is prevented ☐ Yes ☐ No

Any other practice: _____

Coal Dams Lined facility (synthetic or clay liners) ☐ Yes ☐ No

Seepage drains in place ☐ Yes ☐ No

Storm water drains in place & connected to the polluted storm water system ☐ Yes ☐ No

Effluent in the dam is not of acidic pH ☐ Yes ☐ No

Dam is covered to prevent contact with oxygen ☐ Yes ☐ No

Facility does not maintain anaerobic conditions ☐ Yes ☐ No

Any other practice: _____

Effluent Dams Lined facility (synthetic or clay) ☐ Yes ☐ No

Facility has seepage drains ☐ Yes ☐ No

Splitting of facility into 2 separate compartments for the purposes of cleaning and management ☐ Yes ☐ No

Any other practice: _____

Evaporation Dams/Ponds Lined facility (synthetic or clay) ☐ Yes ☐ No

Facility is of sufficiently large size to ensure that full evaporation of effluent is achieved ☐ Yes ☐ No

Seepage drains in place ☐ Yes ☐ No

Storm water collection drains in place ☐ Yes ☐ No

Any other practice: _____

Forced Evaporation Evaporation only with wind speeds less than 2m/sec ☐ Yes ☐ No

No evaporate pre-dawn as humidity is high ☐ Yes ☐ No

Any other practice: _____

Continued on next page

Maturation Ponds	Facility lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Facility designed to ensure at least 5 days retention time	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water and seepage collection drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Waste Water Ponds	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water collection drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Open Cast Voids	Diversion of upslope storm water around the void	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Upstream diversion berms or management measures to prevent inflow of water into the void	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Prevention of water flowing into the void by using highball drains where necessary	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Ensure any water within the void is contained	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Oxidation Ponds	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate structures in place to ensure capture of a 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water collection drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Polluted Stormwater System	Storm water discharged directly to the resource	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection system incorporating the plant, raw material stockpiles and waste disposal facilities	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Clean stormwater separated from stormwater draining "dirty" sites or facilities	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Polluted stormwater collected & stored in dams	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Return Water Dams	Sizing to accept seepage from the under drainage systems and decant systems for up to the 1:50 year rainfall event, over and above normal operating conditions	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Continued on next page

Sewage Treatment Works	Pump stations operational	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Emergency storage dam(s) available	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate capacity in emergency storage dams	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Compliance with minimum discharge standards	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate capacity to contain total volume	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Silt Dams	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice: _____		

Slag Dumps	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Separation of clean & dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of rainfall run-off into the dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	After decommissioning, the top surface is shaped to suit drainage requirements and re-vegetated	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Implementation of under drainage systems to collect seepage for re-use as process water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Slimes/Tailings Dams	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Separation of clean & dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of rainfall run-off into the dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	After decommissioning, the top surface is shaped to suit drainage requirements and re-vegetated	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Implementation of under drainage systems to collect seepage for re-use as process water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Covering of side slopes with soil during the operational phase to assist in reducing any contact of rainfall runoff with the tailings	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Vegetation of side slopes to minimise erosion	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Continued on next page

**Sludge Drying
Beds**

Facility is lined (synthetic or clay)

☐ Yes☐ No

Seepage drains in place

☐ Yes☐ No

Storm water drains in place

☐ Yes☐ No

Moisture reduction of sludge

☐ Yes☐ No

Incorporation of sludge into soil

☐ Yes☐ No

Leachate management system in place

☐ Yes☐ No

Mixing of high moisture content or liquid waste with dry waste

☐ Yes☐ No

Any other practice:

**Sludge
Ponds/Lagoons**

Facility is lined (synthetic or clay)

☐ Yes☐ No

Seepage drains in place

☐ Yes☐ No

Storm water drains in place

☐ Yes☐ No

Capacity to handle the 1:50 year storm event

☐ Yes☐ No

Any other practice:

Waste Rock Dump

Stabilisation of side slopes to minimise erosion

☐ Yes☐ No

Rainfall runoff collected into a dirty water

☐ Yes☐ No

Covering of terraces or step-ins with a soil layer, followed by paddocking & vegetation to minimise ingress of water into the dump

☐ Yes☐ No

Collection of percolated stormwater via under drains into collection sumps which should pump the water to a dirty water storage facility

☐ Yes☐ No

Any other practice:

Waste Storage

Lined facility (synthetic or clay)

☐ Yes☐ No

Leachate management system in place

☐ Yes☐ No

Leachate detection layer in place

☐ Yes☐ No

Leachate collection layer in place

☐ Yes☐ No

Seepage drains in place

☐ Yes☐ No

Stormwater drains in place & connected to the polluted stormwater system

☐ Yes☐ No

For pits, ingress of water is prevented

Any other practice:

Continued on next page

**Waste Treatment
Plant**

Capacity to handle the 1:50 year storm event

☐ Yes

☐ No

Stormwater collection system in place

☐ Yes

☐ No

Stormwater diversion measures in place

☐ Yes

☐ No

Seepage collection system in place

☐ Yes

☐ No

Adequate structures in place to ensure capture of a 1:50 year storm event

☐ Yes

☐ No

Emergency incident structures in place

☐ Yes

☐ No

Any other practice:



water affairs

Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

Part 2: WASTE DISCHARGE RELATED WATER USE IN TERMS OF SECTION 21(g) OF THE NATIONAL WATER ACT, (ACT NO. 36 OF 1998)

Section 21(g): disposing of waste in a manner which may detrimentally impact on a water resource.

1. GENERAL INFORMATION

Mark the applicable option(s) with an X and/or complete details where applicable/available.

- 1.1** Indicate the nature of this application: ☒ Licence ☐ Registration (only)
- 1.2** Have you already registered a water use with the Department of Water Affairs and Forestry? ☐ Yes ☒ No
 Registration number:
 Water use number:
- 1.3** Indicate if Section 21(j) is applicable to this water use application: **Section 21(j):** removing, discharging or disposing of water found underground if it is necessary for the efficient continuation of an activity or for the safety of people. ☐ Yes ☒ No
***Note:** If Yes was selected, ensure that a DW805 application form has been submitted.*
- 1.4** Do you have a licence, permit or exemption for this waste discharge? ☐ Yes ☒ No
 (Issued in terms of the National Water Act (Act No. 36 of 1998),
 Water Act (Act No. 54 of 1956)
 or the Environmental Conservation Act (Act No. 73 of 1989))
 Licence number:
 OR
 Permit number:
 OR
 Exemption reference number:

1.5 Applicant Type (mark only one block with X)

- ☐ Individual (complete 1.6)
 ☐ Provincial Department (complete 1.9)
- ☒ Company, business, partnership or community (complete 1.7)
 ☐ Water Services Provider (complete 1.10)
- ☐ National Department (complete 1.8)
 ☐ Water User Association (complete 1.11)

1.6 If the applicant is an individual

1.6.1 Title Surname Initials

1.6.2 South African ID (if holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

Passport Expiry Date (ccyyymmdd)

Passport Country Of Issue

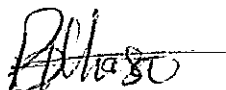
1.7 If the applicant is a company, business, partnership or community:**1.7.1** Name of company, business, partnership or community:
1.7.2 Business Enterprise Registration Number
1.7.3 Date Established (ccyyymmdd)

Country Where Established

1.8 If the applicant is a National Department:**1.8.1** National Department Name:
1.9 If the property owner is a Provincial Department:**1.9.1** Province:
1.9.2 Provincial Department Name:
1.10 If the property owner is a Water Services Provider:**1.10.1** Name of WSP:
1.11 If the property owner is a Water User Association:**1.11.1** Name of WUA:

Declaration by applicant or waste discharger

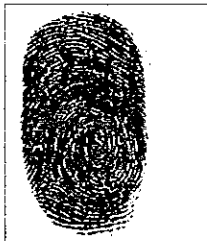
Delete the words that are not applicable I/we BALDWIN CHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Signature

Company Representative

Designation of signatory



Thumb print

(011) 785 4518

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd):

It is a criminal offence to provide information that is false or misleading.

2. DESCRIPTION OF THE WASTE GENERATED

2.1 Select the sector that generates the wastewater or waste which this application refers to

(Mark only one box with an X)

(Note, if more than one option is applicable, you must fill in a separate application form per sub-sector)

Agriculture

- ☐ Aquaculture
☐ Irrigation

- ☐ Intensive Animal Husbandry
☐ Other (please specify below)

Urban / Domestic

- ☐ Sewage Treatment Works
☐ Waste Disposal

- ☐ Water Treatment Works

Industry

- ☐ Agroprocessing
☐ Fertilisers
☐ Metal Processing And Finishing
☐ Textile
☐ Power Generation

- ☐ Meat Processing
☐ Manufacturing
☐ Paper And Pulp
☐ Winery
☐ Other (please specify below)

Mining

- ☒ Coal
☐ Gold
☐ Platinum
☐ Copper
☐ Chromium
☐ Iron

- ☐ Diamond
☐ Sand-winning
☐ Quarrying
☐ Peat Mining
☐ Uranium
☐ Other (please specify below)

2.2 Which of the following describes the nature of the wastewater?

(Mark the applicable option(s) with an X)

N/A

2.2.1 Wastewater containing <70% water by mass (i.e. sludge) ☐

2.2.2 Wastewater containing >70% water by mass ☐

2.2.3 Wastewater with high acidity (i.e. pH <5) or alkalinity (i.e. pH >10) ☐

2.2.4 Wastewater with temperature of >50°C ☐

2.2.5 Wastewater with an oxygen content of <5 mg/l ☐

2.2.6 Wastewater with an EC (Electrical Conductivity) of >500mS/m ☐

2.2.7 Wastewater with an EC of <500mS/m ☐

2.3 Which of the following describes the composition of the wastewater?

(Mark the applicable option(s) with an X)

N/A

2.3.1 Wastewater consisting of > 90% organic content by mass (i.e. load) ☐

2.3.2 Wastewater consisting of 50 – 90% organic content and 10 – 50% metals or salts by mass (i.e. load) ☐

2.3.3 Wastewater consisting of 10 – 50% organic content and 50 – 90% metals or salts by mass (i.e. load) ☐

2.3.4 Wastewater consisting of >90% metals or salts by mass (i.e. load) ☐

2.4 Describe the activity that generates the waste

Product stockpile area

2.5 Discharge to a land based facility**2.5.1 Water use start & end date**

When did/will this water use start? (ccyymmdd)

20100301

When did/will this water use end? (If applicable)
(ccyymmdd)**2.5.2 The total volume of waste / waste water discharged per year:**

N/A

Cubic meters

2.5.3 The maximum volume of waste / waste water discharged on any given day:

11735

Cubic meters

2.5.4 Monthly discharge pattern expressed in:

Note

☐ Cubic meters

OR

☐ Percentage (%) of total

OR

☐ Another unit of measure

If "Another unit of measure" was selected, specify the "unit of measure" to be applied to the monthly discharge pattern details:

	Minimum	Average	Maximum
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			

The maximum capacity of the stockpile is 11735 m³ and will be routinely filled and emptied within 24 hrs. No cumulative capacity is required.

2.5.5 Intake Water

National Water Act - Section 21(a/b/g/j) Water Use					
Section 21(?)	Registered*	Volume of water applicable to this waste discharge (m³)	If Registered*		
			Register Number	Water Use Number	Waste Management Facility Name
N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				

2.5.6 Average disposal volume / discharge volume onto the land / facility

N/A

Average disposal volume (cubic meters)	<input type="text"/>	Time Interval: <input type="checkbox"/> Per Month <input type="checkbox"/> Per Annum
Maximum disposal volume anticipated (cubic meters)	<input type="text"/>	Time Interval: <input type="checkbox"/> Per Month <input type="checkbox"/> Per Annum

Quality Variable And Unit Of Measurement	Concentration	For Office Use Only	
		Waste Load Onto Facility (kg)	NPS Load (kg)
Coliforms (Colony Forming Units/ml)			
Enteric pathogens e.g. E.coli (Colony Forming Units/ml)			
pH (pH units)			
Temperature (°C)			
Acidity (mg/l)			
Alkalinity (mg/l)			
Aluminium (mg/l)			
Ammonia (mg/l)			
Arsenic (mg/l)			
Barium (mg/l)			
Boron (mg/l)			
Bromide (mg/l)			
Cadmium (mg/l)			
Calcium (mg/l)			
Chemical oxygen demand (mg/l)			
Chloride (mg/l)			
Chromium (mg/l)			
Chromium(vi) (mg/l)			

Continued on next page

Quality Variable And Unit Of Measurement	Concentration	For Office Use Only	
		Waste Load Onto Facility (kg)	NPS Load (kg)
Cobalt (mg/l)			
Copper (mg/l)			
Cyanide (mg/l)			
Fluoride (mg/l)			
Iron (mg/l)			
Lead (mg/l)			
Lithium (mg/l)			
Magnesium (mg/l)			
Manganese (mg/l)			
Mercury (mg/l)			
Molybdenum (mg/l)			
Nickel (mg/l)			
Phenol (mg/l)			
Potassium (mg/l)			
Radionuclides (mg/l)			
Soap, oil or grease (mg/l)			
Sodium (mg/l)			
Sulphate (mg/l)			
Tin (mg/l)			
Total dissolved solids (mg/l)			
Total suspended solids (mg/l)			
Total nitrogen (mg/l)			
Total phosphorus (mg/l)			
Uranium (mg/l)			
Vanadium (mg/l)			
Zinc (mg/l)			

3. RECEIVING ENVIRONMENT/RECEPTOR

Serves to address the following: The resource that needs to be protected and related issues such as: how close to surface water, groundwater level, presence of boreholes, whether communities use boreholes or abstract from the surface water, etc.

3.1 Description of nearby water resource(s)

3.1.1 Description of Surface Water Resources

(Mark only one box with an X)

a) Type of surface water resource, nearest to location where discharge is taking place

☒ River / Stream

☐ Dam

☐ Estuary

☐ Lake

☐ Wetland

☐ GWS Scheme

☐ Marine

☐ Other (please specify below)

b) Name / description of the nearest surface water resource:

Unnamed tributary of Limpopo River

c) Distance to the nearest water resource (meters)

300

3.1.2 Description of Groundwater Resources

(Mark only one box with an X)

a) Type of groundwater resource, nearest to location where discharge is taking place

☐ Spring / Eye

☐ GWS Scheme

☒ Borehole

☐ Boreholes And Windmills On Government Land

☐ Other (please specify below)

b) Name / description of the nearest surface water resource

Overulakte Aquifer

c) Distance to the nearest groundwater resource (meters)

5900

3.2 Drainage Region Details

Quaternary Drainage Region

A71L

3.3 Property Relationship Details (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property				Property Relationship		
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)	Date From:	To:
Bergen Op Zoom	T12375/2009		124	RS	Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		

4. DISPOSAL OF WASTE

4.1 Commonly used description of waste types to be disposed

4.1.1 Description of the types of waste to be disposed

(Mark the applicable type option(s) with an X and/or complete details where applicable/available.)

- | | |
|--|---|
| <input type="checkbox"/> Sewage Sludge | <input type="checkbox"/> Household Refuse |
| <input type="checkbox"/> Industrial Sludge | <input type="checkbox"/> Farming Waste |
| <input type="checkbox"/> Mining Waste | <input type="checkbox"/> Dry Industrial Waste |
| <input type="checkbox"/> Hazardous Waste | <input type="checkbox"/> Industrial Liquid |
| <input type="checkbox"/> Industrial Ash (all industries) | <input checked="" type="checkbox"/> Other |
| <input type="checkbox"/> Power Generation | Specify Other: <u>Stockpile</u> |

4.1.2 Approximate maximum volume/tonnage per site per day

11735 m³

4.1.3 Approximate total tonnage per site per annum

tons

tons

4.2 Type of waste management facility

4.2.1 Name of waste site or 'facility'

(Refer attached DW905 form)

PRODUCT STOCKPILE

4.2.2 Select the type of waste disposal site (Mark only one box with an X)

Waste Management Facility Type

	Select with X	Size (ha)	Estimated lifetime (y)	Disposal started on: (ccyymmdd)	Disposal ceased on: (if applicable) (ccyymmdd)
Artificial Wetlands					
Ash Dams / Dumps	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Coal Dams	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Composting	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Domestic Waste	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Effluent Dams	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Evaporation Dams/Ponds	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Forced Evaporation	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Maturation Ponds	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Continued on next page

Waste Management Facility Type	Select with X	Size (ha)	Estimated lifetime (y)	Disposal started on: (ccyymmdd)	Disposal ceased on: (if applicable) (ccyymmdd)
Other Waste Water Ponds: (Specify other)	<input type="checkbox"/>				
Open Cast Voids	<input type="checkbox"/>				
Oxidation Ponds	<input type="checkbox"/>				
Polluted Storm Water System	<input type="checkbox"/>				
Recycling	<input type="checkbox"/>				
Return Water Dams	<input type="checkbox"/>				
Silt Dams	<input type="checkbox"/>				
Slag Dumps	<input type="checkbox"/>				
Slimes/Tailings Dams	<input type="checkbox"/>				
Sludge Drying Beds	<input type="checkbox"/>				
Sludge Ponds/Lagoons	<input type="checkbox"/>				
Waste Rock Dump	<input type="checkbox"/>				
Waste Storage	<input type="checkbox"/>				
Waste Treatment Plant	<input checked="" type="checkbox"/>	0.2	30	20100301	
(Specify)	Stockpile				

5. LIST OF SUPPORTING TECHNICAL INFORMATION

5.1 Confirm that the following forms have been included in this application

DW901	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
DW902	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
DW905	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

5.2 Mark with an X if these documents have been submitted with this application

Environmental Impact Assessment (EIA)	<input checked="" type="checkbox"/>
Environmental Management Programme (EMPR)	<input type="checkbox"/>
Standard Environmental Management Programme	<input type="checkbox"/>
Integrated Water and Waste Management Plan (IWWMP)	<input checked="" type="checkbox"/>
Integrated Water Use Licence Application Report	<input type="checkbox"/>
Report on Waste Water Quality (solute load, seasonal changes, etc.)	<input type="checkbox"/>
Report on Industrial Process Generating Waste water	<input type="checkbox"/>
Geohydrological Report	<input checked="" type="checkbox"/>
Civil Designs	<input checked="" type="checkbox"/>
Contingency Plan for Failures and Malfunctions of System	<input checked="" type="checkbox"/>
Monitoring Programme(s)	<input checked="" type="checkbox"/>
Topographical Map (1:50 000)	<input type="checkbox"/>
National Water Act (Act No 36 of 1998) – Section 27 Evaluation	<input checked="" type="checkbox"/>
DW760 NWA-Section 21(a)	<input checked="" type="checkbox"/>
DW761 NWA-Section 21(b)	<input type="checkbox"/>
DW762 NWA-Section 21(b)	<input checked="" type="checkbox"/>
DW763 NWA-Section 21(c)	<input checked="" type="checkbox"/>
DW764 NWA-Section 21(d)	<input type="checkbox"/>
DW765 NWA-Section 21(e)	<input checked="" type="checkbox"/>
DW766 NWA-Section 21(f)	<input type="checkbox"/>
DW767 NWA-Section 21(g)	<input checked="" type="checkbox"/>
DW768 NWA-Section 21(i)	<input checked="" type="checkbox"/>
DW780 NWA-Section 21(h)	<input type="checkbox"/>
DW805 NWA-Section 21(j)	<input checked="" type="checkbox"/>
DW903	<input checked="" type="checkbox"/>
DW904	<input type="checkbox"/>

Other (specify other documents submitted with this form)

D	W					<input type="checkbox"/>
D	W					<input type="checkbox"/>
D	W					<input type="checkbox"/>

5. THIS SECTION IS RESERVED FOR OFFICE USE ONLY

6.1 Management Classification Details						
Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Mining	Slimes/Tailings Dams		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Evaporation Dams/Ponds		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Effluent Dams		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Return Water Dam		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Forced Evaporation		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Ash Dams/Dumps		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Open Cast Voids		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Waste Rock Dump		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Polluted Storm Water System		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Industry	Evaporation Dams/Ponds	Synthetic liner	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Maturation Ponds		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 10%	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %
	Coal Dams	Clay liner and seepage drains	Salinity, pH, SO ₄ , heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
	Polluted Storm Water System	Collection and containment facilities	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 100% (no system)
		System captures 1:100 year storm-event	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	60-80% (system overflows 1:2 to 1:5 years) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Domestic	Oxidation Ponds	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Artificial Wetlands	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
		Polluted Storm Water System	Collection and containment facilities, system captures 1:100 year storm event	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 100% (no system)
				<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	60-80% (system overflows 1:2 to 1:5 years) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Agricultural	Oxidation Ponds	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Artificial Wetlands	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Polluted Storm Water System		Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> %	<input type="checkbox"/> %
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> %	<input type="checkbox"/> %

6.2 Waste Disposal Site Classification

Mark the site classification with an X (only one option may be selected)

- | | | | |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| <input type="checkbox"/> GCB+ | <input type="checkbox"/> GSB+ | <input type="checkbox"/> GMB+ | <input type="checkbox"/> GLB+ |
| <input type="checkbox"/> GCB- | <input type="checkbox"/> GSB- | <input type="checkbox"/> GMB- | <input type="checkbox"/> GLB- |
| <input type="checkbox"/> H:H | <input type="checkbox"/> H:h | | |

Legend

- | | | | |
|------------|--|----------|-------------------|
| B- | Water deficit climate resulting in only sporadic leachate generation | C | Communal Landfill |
| B+ | Water surplus climate resulting in significant leachate generation | S | Small Landfill |
| G | General waste or landfill for general waste | M | Medium Landfill |
| H:H | Hazard waste landfill that can receive waste with a hazard rating of 1 and 2 | L | Large Landfill |
| H:h | Hazard waste landfill that can receive waste with a hazard rating of 3 and 4 | | |

Site classification Date (ccyymmdd)

--	--	--	--	--	--	--	--	--	--

6.3 Authorisation / Regulation Details**6.3.1** Authorisation/Regulation Type (mark the applicable option with an X)

- ☐ Licence ("Registration of a Waste Management Facility in terms of Section 21(g) of the National Water Act".)
- ☐ Permit ("Registration of a Waste Management Facility in terms of Section 20(1) of the Environmental Conservation Act".)
- ☐ Direction ("Registration of a Waste Management Facility in terms of Section 20(5) of the Environmental Conservation Act".)
- ☐ Exemption ("Registration of a Waste Management Facility in terms of Section 20(1) of the Environmental Conservation Act".)

6.3.2 Applicable Authorisation / Regulation Reference Number

OR

Environment Conservation Act Permit Number

6.3.3 The authorisation/regulation is valid from (ccyymmdd)

--	--	--	--	--	--	--	--	--	--

Until
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

6.4 Succession transfer and source part 2 details**6.4.1** Is this a 'succession in title' related water use transfer?☐ Yes☐ No**6.4.2** If yes, complete the following details where applicable.

Source Register Number

WU Number

WU Status to be Allocated

WU Close Date (if applicable)
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

--	--	--	--

--	--	--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--	--	--

--	--	--	--

--	--	--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--	--	--

--	--	--	--

--	--	--	--	--	--	--	--	--	--

6.5 District Municipality

District Municipality Name (if applicable)

6.9 Authorisation details

6.9.1 Water use takes/took place in terms of the General Authorisation: ☐ Yes ☐ No

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

Date(s) from which applicable GA is/was applicable to this water use	
South African Act:	Applicable section of the act
[E.g. National Water Act (Act No. 36 of 1998)]	[E.g. Section 21]
Date From (ccyymmdd)	Government Notice No.
Date To (ccyymmdd)	Government Notice Date (ccyymmdd)
Applicable Section Of The General Authorisation	
Date From (ccyymmdd)	Government Notice No.
Date To (ccyymmdd)	Government Notice Date (ccyymmdd)
Applicable Section Of The General Authorisation	
Date From (ccyymmdd)	Government Notice No.
Date To (ccyymmdd)	Government Notice Date (ccyymmdd)
Applicable Section Of The General Authorisation	

6.9.2 If an authorisation has been issued under other legislation – provide the Law/Regulation details if known/available.

6.9.3 If this application represents a licence related water use (new licence application or previously submitted application) – complete following details if known/available.

Responsible Licensing Authority Reference

Responsible Licensing Authority Business Unit



water affairs

Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

SUPPLEMENTARY WATER USE INFORMATION (ONLY APPLICABLE FOR NWA – SECTION 21g WATER USES)

DETAILS OF WASTE MANAGEMENT FACILITY

1. WASTE MANAGEMENT FACILITY DETAILS

1.1 Name of Waste Management Facility

1.2 Fatal flaw indicators

If any of the following criteria apply to the site, or will apply to a proposed site, mark with an X

- ☐ In an area below the 1 in 100 flood line of any watercourse
- ☐ In unstable areas (e.g. fault zones, seismic zones, dolomitic or karst areas, areas with sinkholes or subsidence)
- ☒ In sensitive ecological and/or historical areas
- ☒ In a catchment area for important, "significant" or sensitive surface water resources
- ☐ In an area with shallow or emergent groundwater, or characterised by flat gradients (wetlands, vleis, springs, etc.)
- ☐ In an area characterised by steep gradients (e.g. where problems with stability could be experienced)
- ☐ Areas of groundwater recharge on account of topography and/or highly permeable soils
- ☐ Overlaying or adjacent to important or potentially important aquifers (Parsons classification: Sole source, major)
- ☐ Within an area with shallow bedrock and limited available cover material
- ☐ Areas in close proximity to land uses that are incompatible with waste disposal activities
- ☐ Areas where adequate buffer zones are not possible

1.3 Method of disposal

- ☐ Trenching
- ☐ Ash-blending
- ☐ Co-disposal
- ☒ Other (specify) Stockpiling

1.4 Distance from nearest borehole used for drinking water or stock watering

meters

1.5 Distance from the edge of nearest downstream surface water resource

meters

1.6 Lining of the site

- a) The site is / will be ☒ Lined
- b) If lined, the lining system is ☒ Clay (compacted earth + clay)
- (Mark the applicable option with an X) ☐ Composite lining system

1.7 Total area of 'property' on which waste is disposed

2078 hectares

1.8 Area of actual waste body ("footprint" area)

0.2 hectares

1.9 Dimensions of waste site

	Height or depth	Length	Breadth	
a) At commencement	17	50	50	meters
b) After rehabilitation	0	0	0	meters
c) Available air space		N/A		cubic meters
d) Total volume already used for waste disposal		0		cubic meters
e) Accuracy of above volumes	<input type="checkbox"/> Surveyor		<input checked="" type="checkbox"/> Estimate	

1.10 Buffer Zone

a) Actual distance to the boundary of the nearest:

- Formal residential area
- Informal residential area
- Industrial Area

60000 m

5000 m

60000 m

b) Buffer zone determination done by

☐ Scientific method☒ Actual distance

1.11 Location of Waste Management Facility

1.11.1 Geographical location for each of the external corner points of the waste management facility:

Centre point only due to small size.

Latitude S 22° 10' 29.0" or S° or S°

Longitude E 29° 40' 22.0" or E° or E°

Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S° or S° or S°

Longitude E° or E° or E°

Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S° or S° or S°

Longitude E° or E° or E°

Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S° or S° or S°

Longitude E° or E° or E°

Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S° or S° or S°

Longitude E° or E° or E°

Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84

1.11.2 Drainage Region Details: Quaternary Drainage Region

A 7 1 L

1.12 Climatic water balance

The wettest six months of the year are

☒ November to April☐ May to October

The wettest years during the past thirty years were (populate at least one year's details with both rainfall and evaporation detail completed)

Rating	Year	Total rainfall for 6 months		Total evaporation (A-pan) for 6 months		Official use
Wettest year	1 9 9 9	9 5 8	mm	1 0 6 6	mm	
2 nd wettest	1 9 9 5	5 0 2	mm	1 2 6 1	mm	
3 rd wettest	1 9 7 7	5 4 4	mm	1 1 4 4	mm	
4 th wettest	1 9 7 1	4 4 9	mm	1 1 4 3	mm	
5 th wettest	1 9 7 5	4 1 6	mm	1 2 3 4	mm	
6 th wettest	1 9 7 3	4 2 9	mm	1 2 5 2	mm	
7 th wettest	1 9 8 4	2 8 2	mm	1 3 1 0	mm	
8 th wettest	1 9 8 0	4 6 3	mm	1 2 3 6	mm	
9 th wettest	1 9 6 0	4 1 2	mm	1 2 5 0	mm	
10 th wettest	1 9 8 7	3 5 9	mm	1 2 7 2	mm	

Site-specific water balance factors

If leachate is visible (for existing facilities only) mark with an X

☐

Other site specific water balance factors (specify)

SOURCE: DEPARTMENT OF WATER AFFAIRS, WEATHER STATION - A7E006 MACUVILLE

1.13 Details of the person in control of the site

Surname

PRETORIUS

Initials &/or First Name

NICO

Title

MR

ID No.

Phone Number

011 785 4502

Ext

Fax Number

086 692 9728

Cellphone

082 824 0913

E-mail Address

NPretorius@coalofafrica.co.za

Highest Educational Qualification

☐ Grade 8 / Std 6☐ Grade 10 / Std 8☐ Matric☐ Diploma☐ Higher Diploma☒ Degree

2. OPERATION OF THE WASTE MANAGEMENT FACILITY

2.1 Type of operation

- ☐ Landfill or Landbuild ☐ Transfer station ☐ Recycling facility ☐ Incinerator
☐ Composting plant ☐ Storage area ☐ Treatment plant
☐ Encapsulation ☒ Other (specify) Stockpile area

2.2 Length of time of the operation

Start Date
(ccyymmdd)

20100301

End Date
(ccyymmdd)

2.3 Is sufficient cover material on site?

☒ Yes

☐ No

2.4 Covering and burning of waste (mark applicable options with an X)

N/A

☐ Daily compaction and covering

☐ Weekly compaction and covering

☐ Burning of waste

2.5 Is leachate management system present?

☐ Yes

☒ No

2.6 Storm water management (mark the applicable options with an X)

☒ Upstream cut-off trenches

☒ Contaminated storm water storage facility

3. MANAGEMENT PRACTICES OF THE WASTE MANAGEMENT FACILITY **Not Listed**

Tick the options that describe the management practices for the waste facility or site

Artificial Wetlands Facility is generally lined (clay liners typically) and are designed to receive 120l/m²/d at a depth of 30 cm. ☐ Yes ☐ No

Stormwater and seepage drains ☐ Yes ☐ No

Any other practice: _____

Ash Dams/Dumps Facility is lined (synthetic or clay) ☐ Yes ☐ No

Side slopes stabilized to minimize erosion ☐ Yes ☐ No

Rainfall runoff collected into a dirty water storage facility ☐ Yes ☐ No

Collection of percolated storm water via under drains into collection sumps, which should pump the water to a dirty water storage facility ☐ Yes ☐ No

For pits, ingress of water is prevented ☐ Yes ☐ No

Any other practice: _____

Coal Dams Lined facility (synthetic or clay liners) ☐ Yes ☐ No

Seepage drains in place ☐ Yes ☐ No

Storm water drains in place & connected to the polluted storm water system ☐ Yes ☐ No

Effluent in the dam is not of acidic pH ☐ Yes ☐ No

Dam is covered to prevent contact with oxygen ☐ Yes ☐ No

Facility does not maintain anaerobic conditions ☐ Yes ☐ No

Any other practice: _____

Effluent Dams Lined facility (synthetic or clay) ☐ Yes ☐ No

Facility has seepage drains ☐ Yes ☐ No

Splitting of facility into 2 separate compartments for the purposes of cleaning and management ☐ Yes ☐ No

Any other practice: _____

Evaporation Dams/Ponds Lined facility (synthetic or clay) ☐ Yes ☐ No

Facility is of sufficiently large size to ensure that full evaporation of effluent is achieved ☐ Yes ☐ No

Seepage drains in place ☐ Yes ☐ No

Storm water collection drains in place ☐ Yes ☐ No

Any other practice: _____

Forced Evaporation Evaporation only with wind speeds less than 2m/sec ☐ Yes ☐ No

No evaporate pre-dawn as humidity is high ☐ Yes ☐ No

Any other practice: _____

Continued on next page

Maturation Ponds	Facility lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Facility designed to ensure at least 5 days retention time	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water and seepage collection drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Waste Water Ponds	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water collection drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Open Cast Voids	Diversion of upslope storm water around the void	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Upstream diversion berms or management measures to prevent inflow of water into the void	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Prevention of water flowing into the void by using highball drains where necessary	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Ensure any water within the void is contained	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Oxidation Ponds	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate structures in place to ensure capture of a 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water collection drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Polluted Stormwater System	Storm water discharged directly to the resource	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection system incorporating the plant, raw material stockpiles and waste disposal facilities	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Clean stormwater separated from stormwater draining "dirty" sites or facilities	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Polluted stormwater collected & stored in dams	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Return Water Dams	Sizing to accept seepage from the under drainage systems and decant systems for up to the 1:50 year rainfall event, over and above normal operating conditions	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Continued on next page

Sewage Treatment Works	Pump stations operational	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Emergency storage dam(s) available	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate capacity in emergency storage dams	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Compliance with minimum discharge standards	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate capacity to contain total volume	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Silt Dams	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice: _____		

Slag Dumps	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Separation of clean & dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of rainfall run-off into the dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	After decommissioning, the top surface is shaped to suit drainage requirements and re-vegetated	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Implementation of under drainage systems to collect seepage for re-use as process water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Slimes/Tailings Dams	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Separation of clean & dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of rainfall run-off into the dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	After decommissioning, the top surface is shaped to suit drainage requirements and re-vegetated	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Implementation of under drainage systems to collect seepage for re-use as process water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Covering of side slopes with soil during the operational phase to assist in reducing any contact of rainfall runoff with the tailings	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Vegetation of side slopes to minimise erosion	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Continued on next page

Sludge Drying Beds	Facility is lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Moisture reduction of sludge	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Incorporation of sludge into soil	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate management system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Mixing of high moisture content or liquid waste with dry waste	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Sludge Ponds/Lagoons	Facility is lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Waste Rock Dump	Stabilisation of side slopes to minimise erosion	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Rainfall runoff collected into a dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Covering of terraces or step-ins with a soil layer, followed by paddocking & vegetation to minimise ingress of water into the dump	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of percolated stormwater via under drains into collection sumps which should pump the water to a dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Waste Storage	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate management system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate detection layer in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate collection layer in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater drains in place & connected to the polluted stormwater system	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	For pits, ingress of water is prevented		
Any other practice: _____			

Continued on next page

**Waste Treatment
Plant**

Capacity to handle the 1:50 year storm event

☐ Yes☐ No

Stormwater collection system in place

☐ Yes☐ No

Stormwater diversion measures in place

☐ Yes☐ No

Seepage collection system in place

☐ Yes☐ No

Adequate structures in place to ensure capture of a 1:50 year storm event

☐ Yes☐ No

Emergency incident structures in place

☐ Yes☐ No

Any other practice:

Surname

[illegible]

Initials

--	--	--	--

Position / Rank

[illegible]

Signature

Date _____

--	--	--	--	--	--	--	--

File number (i.e. Office Hardcopy Register File No)

[illegible]

Waste Management Facility Number

[illegible]

Water Use Register Number

--	--	--	--	--	--	--	--

Received by:

Surname

[illegible]

Initials

--	--	--	--

Position / Rank

[illegible]

Signature

Date _____

--	--	--	--	--	--	--	--

Captured on NRWU database

Captured by:

Surname

[illegible]

Initials

--	--	--	--

Signature

Date stamp of receiving office

Quality Assurance Executed by:

Surname

[illegible]

Initials

--	--	--	--

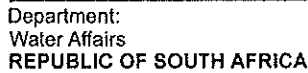
Position / Rank

[illegible]

Signature

Date _____

--	--	--	--	--	--	--	--



Section 21(g): disposing of waste in a manner which may detrimentally impact on a water resource.

Mark the applicable option(s) with an X and/or complete details where applicable/available.

- (Version 1.1, 16 September 2009) Application to Register a Waste Discharge NWA Section 21(g)

1.5 Applicant Type (mark only one block with X)

- ☐ Individual (complete 1.6)
 ☐ Provincial Department (complete 1.9)
- ☒ Company, business, partnership or community (complete 1.7)
 ☐ Water Services Provider (complete 1.10)
- ☐ National Department (complete 1.8)
 ☐ Water User Association (complete 1.11)

1.6 If the applicant is an individual

1.6.1 Title Surname Initials

1.6.2 South African ID (if holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

Passport Expiry Date (ccyymmdd)

Passport Country Of Issue

1.7 If the applicant is a company, business, partnership or community:**1.7.1** Name of company, business, partnership or community:

1.7.2 Business Enterprise Registration Number

1.7.3 Date Established (ccyymmdd)

Country Where Established

1.8 If the applicant is a National Department:

1.8.1 National Department Name:

1.9 If the property owner is a Provincial Department:

1.9.1 Province:

1.9.2 Provincial Department Name:

1.10 If the property owner is a Water Services Provider:

1.10.1 Name of WSP:

1.11 If the property owner is a Water User Association:

1.11.1 Name of WUA:

Declaration by applicant or waste discharger

Delete the words that are not applicable ~~I/we~~ BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Signature

Company Representative

Designation of signatory

Thumb print

(011) 785 4513

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd):

It is a criminal offence to provide information that is false or misleading.

2. DESCRIPTION OF THE WASTE GENERATED

2.1 Select the sector that generates the wastewater or waste which this application refers to

(Mark only one box with an X)

(Note, if more than one option is applicable, you must fill in a separate application form per sub-sector)

Agriculture

- ☐ Aquaculture
☐ Irrigation

- ☐ Intensive Animal Husbandry
☐ Other (please specify below)

Urban / Domestic

- ☐ Sewage Treatment Works
☐ Waste Disposal

- ☐ Water Treatment Works

Industry

- ☐ Agroprocessing
☐ Fertilisers
☐ Metal Processing And Finishing
☐ Textile
☐ Power Generation

- ☐ Meat Processing
☐ Manufacturing
☐ Paper And Pulp
☐ Winery
☐ Other (please specify below)

Mining

- ☒ Coal
☐ Gold
☐ Platinum
☐ Copper
☐ Chromium
☐ Iron

- ☐ Diamond
☐ Sand-winning
☐ Quarrying
☐ Peat Mining
☐ Uranium
☐ Other (please specify below)

2.2 Which of the following describes the nature of the wastewater?

(Mark the applicable option(s) with an X)

N/A

2.2.1 Wastewater containing <70% water by mass (i.e. sludge) ☐

2.2.2 Wastewater containing >70% water by mass ☐

2.2.3 Wastewater with high acidity (i.e. pH <5) or alkalinity (i.e. pH >10) ☐

2.2.4 Wastewater with temperature of >50°C ☐

2.2.5 Wastewater with an oxygen content of <5 mg/l ☐

2.2.6 Wastewater with an EC (Electrical Conductivity) of >500mS/m ☐

2.2.7 Wastewater with an EC of <500mS/m ☐

2.3 Which of the following describes the composition of the wastewater?

(Mark the applicable option(s) with an X)

N/A

2.3.1 Wastewater consisting of > 90% organic content by mass (i.e. load) ☐

2.3.2 Wastewater consisting of 50 – 90% organic content and 10 – 50% metals or salts by mass (i.e. load) ☐

2.3.3 Wastewater consisting of 10 – 50% organic content and 50 – 90% metals or salts by mass (i.e. load) ☐

2.3.4 Wastewater consisting of >90% metals or salts by mass (i.e. load) ☐

2.4 Describe the activity that generates the waste

Discard stockpile area.

2.5 Discharge to a land based facility**2.5.1 Water use start & end date**

When did/will this water use start? (ccyymmdd)

20100301

When did/will this water use end? (If applicable)
(ccyymmdd)**2.5.2 The total volume of waste / waste water discharged per year:**

N/A

Cubic meters

2.5.3 The maximum volume of waste / waste water discharged on any given day:

11735

Cubic meters

2.5.4 Monthly discharge pattern expressed in:

Note

☐ Cubic meters

OR

☐ Percentage (%) of total

OR

☐ Another unit of measure

If "Another unit of measure" was selected, specify the "unit of measure" to be applied to the monthly discharge pattern details:

	Minimum	Average	Maximum
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			

The maximum capacity of the stockpile area is 11735 m³ and will be routinely filled and emptied within 24 hrs. No cumulative capacity is required.

2.5.5 Intake Water

National Water Act - Section 21(a/b/g/j) Water Use					
Section 21(?)	Registered*	Volume of water applicable to this waste discharge (m³)	If Registered*		
			Register Number	Water Use Number	Waste Management Facility Name
N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				

2.5.6 Average disposal volume / discharge volume onto the land / facility

N/A

Average disposal volume (cubic meters)		Time Interval: <input type="checkbox"/> Per Month <input type="checkbox"/> Per Annum
Maximum disposal volume anticipated (cubic meters)		Time Interval: <input type="checkbox"/> Per Month <input type="checkbox"/> Per Annum

Quality Variable And Unit Of Measurement	Concentration	For Office Use Only	
		Waste Load Onto Facility (kg)	NPS Load (kg)
Coliforms (Colony Forming Units/ml)			
Enteric pathogens e.g. E.coli (Colony Forming Units/ml)			
pH (pH units)			
Temperature (°C)			
Acidity (mg/l)			
Alkalinity (mg/l)			
Aluminium (mg/l)			
Ammonia (mg/l)			
Arsenic (mg/l)			
Barium (mg/l)			
Boron (mg/l)			
Bromide (mg/l)			
Cadmium (mg/l)			
Calcium (mg/l)			
Chemical oxygen demand (mg/l)			
Chloride (mg/l)			
Chromium (mg/l)			
Chromium(vi) (mg/l)			

Continued on next page

Quality Variable And Unit Of Measurement	Concentration	For Office Use Only	
		Waste Load Onto Facility (kg)	NPS Load (kg)
Cobalt (mg/l)			
Copper (mg/l)			
Cyanide (mg/l)			
Fluoride (mg/l)			
Iron (mg/l)			
Lead (mg/l)			
Lithium (mg/l)			
Magnesium (mg/l)			
Manganese (mg/l)			
Mercury (mg/l)			
Molybdenum (mg/l)			
Nickel (mg/l)			
Phenol (mg/l)			
Potassium (mg/l)			
Radionuclides (mg/l)			
Soap, oil or grease (mg/l)			
Sodium (mg/l)			
Sulphate (mg/l)			
Tin (mg/l)			
Total dissolved solids (mg/l)			
Total suspended solids (mg/l)			
Total nitrogen (mg/l)			
Total phosphorus (mg/l)			
Uranium (mg/l)			
Vanadium (mg/l)			
Zinc (mg/l)			

3. RECEIVING ENVIRONMENT/RECEPTOR

Serves to address the following: The resource that needs to be protected and related issues such as: how close to surface water, groundwater level, presence of boreholes, whether communities use boreholes or abstract from the surface water, etc.

3.1 Description of nearby water resource(s)

3.1.1 Description of Surface Water Resources

(Mark only one box with an X)

a) Type of surface water resource, nearest to location where discharge is taking place

☒ River / Stream

☐ Dam

☐ Estuary

☐ Lake

☐ Wetland

☐ GWS Scheme

☐ Marine

☐ Other (please specify below)

b) Name / description of the nearest surface water resource:

Unnamed tributary of Limpopo River

c) Distance to the nearest water resource (meters)

300

3.1.2 Description of Groundwater Resources

(Mark only one box with an X)

a) Type of groundwater resource, nearest to location where discharge is taking place

☐ Spring / Eye

☐ GWS Scheme

☒ Borehole

☐ Boreholes And Windmills On Government Land

☐ Other (please specify below)

b) Name / description of the nearest surface water resource:

Overulakto Aquifer

c) Distance to the nearest groundwater resource (meters)

5900

3.2 Drainage Region Details

Quaternary Drainage Region

A71L

3.3 Property Relationship Details (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property				Property Relationship Date		
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)	From:	To:
Bergen Op Zoom	T12375/2009		15								
			124								
			RE								

4. DISPOSAL OF WASTE

4.1 Commonly used description of waste types to be disposed

4.1.1 Description of the types of waste to be disposed

(Mark the applicable type option(s) with an X and/or complete details where applicable/available.)

- | | |
|--|---|
| <input type="checkbox"/> Sewage Sludge | <input type="checkbox"/> Household Refuse |
| <input type="checkbox"/> Industrial Sludge | <input type="checkbox"/> Farming Waste |
| <input type="checkbox"/> Mining Waste | <input type="checkbox"/> Dry Industrial Waste |
| <input type="checkbox"/> Hazardous Waste | <input type="checkbox"/> Industrial Liquid |
| <input type="checkbox"/> Industrial Ash (all industries) | <input checked="" type="checkbox"/> Other |
| <input type="checkbox"/> Power Generation | Specify Other: <u>Stockpile</u> |

4.1.2 Approximate maximum volume/tonnage per site per day

11 735 m³

4.1.3 Approximate total tonnage per site per annum

tons

tons

4.2 Type of waste management facility

4.2.1 Name of waste site or 'facility'

(Refer attached DW905 form)

DISCARD STOCKPILE

4.2.2 Select the type of waste disposal site (Mark only one box with an X)

Waste Management Facility Type

	Select with X	Size (ha)	Estimated lifetime (y)	Disposal started on: (ccyymmdd)	Disposal ceased on: (if applicable) (ccyymmdd)
Artificial Wetlands					
Ash Dams / Dumps	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Coal Dams	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Composting	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Domestic Waste	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Effluent Dams	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Evaporation Dams/Ponds	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Forced Evaporation	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Maturation Ponds	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Continued on next page

Waste Management Facility Type	Select with X	Size (ha)	Estimated lifetime (y)	Disposal started on: (ccyymmdd)	Disposal ceased on: (if applicable) (ccyymmdd)
Other Waste Water Ponds: (Specify other)	<input type="checkbox"/>				
Open Cast Voids	<input type="checkbox"/>				
Oxidation Ponds	<input type="checkbox"/>				
Polluted Storm Water System	<input type="checkbox"/>				
Recycling	<input type="checkbox"/>				
Return Water Dams	<input type="checkbox"/>				
Silt Dams	<input type="checkbox"/>				
Slag Dumps	<input type="checkbox"/>				
Slimes/Tailings Dams	<input type="checkbox"/>				
Sludge Drying Beds	<input type="checkbox"/>				
Sludge Ponds/Lagoons	<input type="checkbox"/>				
Waste Rock Dump	<input type="checkbox"/>				
Waste Storage	<input type="checkbox"/>				
Waste Treatment Plant	<input checked="" type="checkbox"/>	0.2	30	20100301	
(Specify)	Stockpile				

DW901 ☒ Yes ☐ No

DW902 ☒ Yes ☐ No

DW905 ☒ Yes ☐ No

Environmental Impact Assessment (EIA)	<input checked="" type="checkbox"/>
Environmental Management Programme (EMPR)	<input type="checkbox"/>
Standard Environmental Management Programme	<input type="checkbox"/>
Integrated Water and Waste Management Plan (IWWMP)	<input checked="" type="checkbox"/>
Integrated Water Use Licence Application Report	<input type="checkbox"/>
Report on Waste Water Quality (solute load, seasonal changes, etc.)	<input type="checkbox"/>
Report on Industrial Process Generating Waste water	<input type="checkbox"/>
Geohydrological Report	<input checked="" type="checkbox"/>
Civil Designs	<input checked="" type="checkbox"/>
Contingency Plan for Failures and Malfunctions of System	<input checked="" type="checkbox"/>
Monitoring Programme(s)	<input checked="" type="checkbox"/>
Topographical Map (1:50 000)	<input type="checkbox"/>
National Water Act (Act No 36 of 1998) – Section 27 Evaluation	<input checked="" type="checkbox"/>
DW760 NWA-Section 21(a)	<input checked="" type="checkbox"/>
DW761 NWA-Section 21(b)	<input type="checkbox"/>
DW762 NWA-Section 21(b)	<input checked="" type="checkbox"/>
DW763 NWA-Section 21(c)	<input checked="" type="checkbox"/>
DW764 NWA-Section 21(d)	<input type="checkbox"/>
DW765 NWA-Section 21(e)	<input checked="" type="checkbox"/>
DW766 NWA-Section 21(f)	<input type="checkbox"/>
DW767 NWA-Section 21(g)	<input checked="" type="checkbox"/>
DW768 NWA-Section 21(i)	<input checked="" type="checkbox"/>
DW780 NWA-Section 21(h)	<input type="checkbox"/>
DW805 NWA-Section 21(j)	<input checked="" type="checkbox"/>
DW903	<input checked="" type="checkbox"/>
DW904	<input type="checkbox"/>

Other (specify other documents submitted with this form)

D	W				
D	W				
D	W				

5. THIS SECTION IS RESERVED FOR OFFICE USE ONLY

6.1 Management Classification Details					
Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)	
				Best practice leading to zero impact	Poor practice
Mining	Slimes/Tailings Dams		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0% <input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Evaporation Dams/Ponds		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0% <input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Effluent Dams		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0% <input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Return Water Dam		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0% <input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Forced Evaporation		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0% <input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Ash Dams/Dumps		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0% <input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Open Cast Voids		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0% <input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Waste Rock Dump		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0% <input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Polluted Storm Water System		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0% <input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Industry	Evaporation Dams/Ponds	Synthetic liner	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Maturation Ponds		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 10%	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %
		Coal Dams	Salinity, pH, SO ₄ , heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
	Polluted Storm Water System	Collection and containment facilities	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 100% (no system)
		System captures 1:100 year storm-event	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	60-80% (system overflows 1:2 to 1:5 years) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Domestic	Oxidation Ponds	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Artificial Wetlands	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Polluted Storm Water System	Collection and containment facilities, system captures 1:100 year storm event	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 100% (no system)
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	60-80% (system overflows 1:2 to 1:5 years) <div><input type="text"/> <input type="text"/> <input type="text"/> %</div>

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Agricultural	Oxidation Ponds	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Artificial Wetlands	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Polluted Storm Water System		Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %

6.2 Waste Disposal Site Classification

Mark the site classification with an X (only one option may be selected)

- | | | | |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| <input type="checkbox"/> GCB+ | <input type="checkbox"/> GSB+ | <input type="checkbox"/> GMB+ | <input type="checkbox"/> GLB+ |
| <input type="checkbox"/> GCB- | <input type="checkbox"/> GSB- | <input type="checkbox"/> GMB- | <input type="checkbox"/> GLB- |
| <input type="checkbox"/> H:H | <input type="checkbox"/> H:h | | |

Legend

- | | | | |
|------------|--|----------|-------------------|
| B- | Water deficit climate resulting in only sporadic leachate generation | C | Communal Landfill |
| B+ | Water surplus climate resulting in significant leachate generation | S | Small Landfill |
| G | General waste or landfill for general waste | M | Medium Landfill |
| H:H | Hazard waste landfill that can receive waste with a hazard rating of 1 and 2 | L | Large Landfill |
| H:h | Hazard waste landfill that can receive waste with a hazard rating of 3 and 4 | | |

Site classification Date (ccyymmdd)

--	--	--	--	--	--	--	--	--	--

6.3 Authorisation / Regulation Details**6.3.1** Authorisation/Regulation Type (mark the applicable option with an X)

- ☐ Licence ("Registration of a Waste Management Facility in terms of Section 21(g) of the National Water Act".)
- ☐ Permit ("Registration of a Waste Management Facility in terms of Section 20(1) of the Environmental Conservation Act".)
- ☐ Direction ("Registration of a Waste Management Facility in terms of Section 20(5) of the Environmental Conservation Act".)
- ☐ Exemption ("Registration of a Waste Management Facility in terms of Section 20(1) of the Environmental Conservation Act".)

6.3.2 Applicable Authorisation / Regulation Reference Number

OR

Environment Conservation Act Permit Number

6.3.3 The authorisation/regulation is valid from (ccyymmdd)

--	--	--	--	--	--	--	--	--	--

Until
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

6.4 Succession transfer and source part 2 details**6.4.1** Is this a 'succession in title' related water use transfer?☐ Yes☐ No**6.4.2** If yes, complete the following details where applicable.

Source Register Number

WU Number

WU Status to be Allocated

WU Close Date (if applicable)
(ccyymmdd)

--	--	--	--	--	--	--	--	--	--

--	--	--	--	--

--	--	--	--	--	--	--	--	--	--

--	--	--	--	--

--	--	--	--	--	--	--	--	--	--

--	--	--	--	--

6.5 District Municipality

District Municipality Name (if applicable)

6.9 Authorisation details

6.9.1 Water use takes/took place in terms of the General Authorisation: ☐ Yes ☐ No

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

Date(s) from which applicable GA is/was applicable to this water use	
South African Act: [E.g. National Water Act (Act No. 36 of 1998)]	Applicable section of the act [E.g. Section 21]
Date From (ccyymmdd) <input type="text"/>	Government Notice No. <input type="text"/>
Date To (ccyymmdd) <input type="text"/>	Government Notice Date (ccyymmdd) <input type="text"/>
Applicable Section Of The General Authorisation <input type="text"/>	
Date From (ccyymmdd) <input type="text"/>	Government Notice No. <input type="text"/>
Date To (ccyymmdd) <input type="text"/>	Government Notice Date (ccyymmdd) <input type="text"/>
Applicable Section Of The General Authorisation <input type="text"/>	
Date From (ccyymmdd) <input type="text"/>	Government Notice No. <input type="text"/>
Date To (ccyymmdd) <input type="text"/>	Government Notice Date (ccyymmdd) <input type="text"/>
Applicable Section Of The General Authorisation <input type="text"/>	

6.9.2 If an authorisation has been issued under other legislation – provide the Law/Regulation details if known/available.

6.9.3 If this application represents a licence related water use (new licence application or previously submitted application) – complete following details if known/available.

Responsible Licensing Authority Reference

Responsible Licensing Authority Business Unit



water affairs

Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

SUPPLEMENTARY WATER USE INFORMATION (ONLY APPLICABLE FOR NWA – SECTION 21g WATER USES)

DETAILS OF WASTE MANAGEMENT FACILITY

1. WASTE MANAGEMENT FACILITY DETAILS

1.1 Name of Waste Management Facility

1.2 Fatal flaw indicators

If any of the following criteria apply to the site, or will apply to a proposed site, mark with an X

- ☐ In an area below the 1 in 100 flood line of any watercourse
- ☐ In unstable areas (e.g. fault zones, seismic zones, dolomitic or karst areas, areas with sinkholes or subsidence)
- ☒ In sensitive ecological and/or historical areas
- ☒ In a catchment area for important, "significant" or sensitive surface water resources
- ☐ In an area with shallow or emergent groundwater, or characterised by flat gradients (wetlands, vleis, springs, etc.)
- ☐ In an area characterised by steep gradients (e.g. where problems with stability could be experienced)
- ☐ Areas of groundwater recharge on account of topography and/or highly permeable soils
- ☐ Overlaying or adjacent to important or potentially important aquifers (Parsons classification: Sole source, major)
- ☐ Within an area with shallow bedrock and limited available cover material
- ☐ Areas in close proximity to land uses that are incompatible with waste disposal activities
- ☐ Areas where adequate buffer zones are not possible

1.3 Method of disposal

- ☐ Trenching
- ☐ Ash-blending
- ☐ Co-disposal
- ☒ Other (specify) Stockpiling

1.4 Distance from nearest borehole used for drinking water or stock watering

meters

1.5 Distance from the edge of nearest downstream surface water resource

meters

1.6 Lining of the site

- a) The site is / will be ☒ Lined
- b) If lined, the lining system is ☒ Clay (compacted earth + clay)
- (Mark the applicable option with an X) ☐ Composite lining system

1.7 Total area of 'property' on which waste is disposed

2078 hectares

1.8 Area of actual waste body ("footprint" area)

0.2 hectares

1.9 Dimensions of waste site

- | | Height or depth | Length | Breadth | |
|---|--|--------|---------|--------------|
| a) At commencement | 17 | 50 | 50 | meters |
| b) After rehabilitation | 0 | 0 | 0 | meters |
| c) Available air space | | N/A | | cubic meters |
| d) Total volume already used for waste disposal | | 0 | | cubic meters |
| e) Accuracy of above volumes | <input type="checkbox"/> Surveyor <input checked="" type="checkbox"/> Estimate | | | |

1.10 Buffer Zone

a) Actual distance to the boundary of the nearest:

• Formal residential area

60000 m

• Informal residential area

5000 m

• Industrial Area

60000 m

b) Buffer zone determination done by

☐ Scientific method☒ Actual distance

1.11 Location of Waste Management Facility

1.11.1 Geographical location for each of the external corner points of the waste management facility:

Centre point only due to small size

Latitude S 22° 10' 19.0" or S° or S°

Longitude E 29° 40' 22.0" or E° or E°

Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S° or S° or S°

Longitude E° or E° or E°

Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S° or S° or S°

Longitude E° or E° or E°

Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S° or S° or S°

Longitude E° or E° or E°

Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S° or S° or S°

Longitude E° or E° or E°

Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84

1.11.2 Drainage Region Details: Quaternary Drainage Region

A 7 1 L

1.12 Climatic water balance

The wettest six months of the year are

☒ November to April☐ May to October

The wettest years during the past thirty years were (populate at least one year's details with both rainfall and evaporation detail completed)

Rating	Year	Total rainfall for 6 months		Total evaporation (A-pan) for 6 months		Official use
Wettest year	1 9 9 9	9 5 8	mm	1 0 6 6	mm	
2 nd wettest	1 9 9 5	5 0 2	mm	1 2 6 1	mm	
3 rd wettest	1 9 7 7	5 4 4	mm	1 1 4 4	mm	
4 th wettest	1 9 7 1	4 4 9	mm	1 1 4 3	mm	
5 th wettest	1 9 7 5	4 1 6	mm	1 2 3 4	mm	
6 th wettest	1 9 7 3	4 2 9	mm	1 2 5 2	mm	
7 th wettest	1 9 8 4	2 8 2	mm	1 3 1 0	mm	
8 th wettest	1 9 8 0	4 6 3	mm	1 2 3 6	mm	
9 th wettest	1 9 6 0	4 1 2	mm	1 2 5 0	mm	
10 th wettest	1 9 8 7	3 5 9	mm	1 2 7 2	mm	

Site-specific water balance factors

If leachate is visible (for existing facilities only) mark with an X

☐

Other site specific water balance factors (specify)

SOURCE: DEPARTMENT OF WATER AFFAIRS, WEATHER STATION - A7E006 MACUVILLE

1.13 Details of the person in control of the site

Surname

PRETORIUS

Initials &/or First Name

NICO

Title

MR

ID No.

Phone Number

011 785 4502

Ext

Fax Number

086 692 9728

Cellphone

082 824 0913

E-mail Address

NPretorius@coalofafrica.co.za

Highest Educational Qualification

☐ Grade 8 / Std 6☐ Diploma☐ Grade 10 / Std 8☐ Higher Diploma☐ Matric☒ Degree

2. OPERATION OF THE WASTE MANAGEMENT FACILITY

2.1 Type of operation

- ☐ Landfill or Landbuild ☐ Transfer station ☐ Recycling facility ☐ Incinerator
☐ Composting plant ☐ Storage area ☐ Treatment plant
☐ Encapsulation ☒ Other (specify) Stockpile area

2.2 Length of time of the operation

Start Date
(ccyymmdd)

20100301

End Date
(ccyymmdd)

2.3 Is sufficient cover material on site?

☒ Yes

☐ No

2.4 Covering and burning of waste (mark applicable options with an X)

N/A

☐ Daily compaction and covering

☐ Weekly compaction and covering

☐ Burning of waste

2.5 Is leachate management system present?

☐ Yes

☒ No

2.6 Storm water management (mark the applicable options with an X)

☒ Upstream cut-off trenches

☒ Contaminated storm water storage facility

3. MANAGEMENT PRACTICES OF THE WASTE MANAGEMENT FACILITY

NOT LISTED

Tick the options that describe the management practices for the waste facility or site

Artificial Wetlands Facility is generally lined (clay liners typically) and are designed to receive 120 l/m²/d at a depth of 30 cm. ☐ Yes ☐ No

Stormwater and seepage drains ☐ Yes ☐ No

Any other practice: _____

Ash Dams/Dumps Facility is lined (synthetic or clay) ☐ Yes ☐ No

Side slopes stabilized to minimize erosion ☐ Yes ☐ No

Rainfall runoff collected into a dirty water storage facility ☐ Yes ☐ No

Collection of percolated storm water via under drains into collection sumps, which should pump the water to a dirty water storage facility ☐ Yes ☐ No

For pits, ingress of water is prevented ☐ Yes ☐ No

Any other practice: _____

Coal Dams Lined facility (synthetic or clay liners) ☐ Yes ☐ No

Seepage drains in place ☐ Yes ☐ No

Storm water drains in place & connected to the polluted storm water system ☐ Yes ☐ No

Effluent in the dam is not of acidic pH ☐ Yes ☐ No

Dam is covered to prevent contact with oxygen ☐ Yes ☐ No

Facility does not maintain anaerobic conditions ☐ Yes ☐ No

Any other practice: _____

Effluent Dams Lined facility (synthetic or clay) ☐ Yes ☐ No

Facility has seepage drains ☐ Yes ☐ No

Splitting of facility into 2 separate compartments for the purposes of cleaning and management ☐ Yes ☐ No

Any other practice: _____

Evaporation Dams/Ponds Lined facility (synthetic or clay) ☐ Yes ☐ No

Facility is of sufficiently large size to ensure that full evaporation of effluent is achieved ☐ Yes ☐ No

Seepage drains in place ☐ Yes ☐ No

Storm water collection drains in place ☐ Yes ☐ No

Any other practice: _____

Forced Evaporation Evaporation only with wind speeds less than 2m/sec ☐ Yes ☐ No

No evaporate pre-dawn as humidity is high ☐ Yes ☐ No

Any other practice: _____

Continued on next page

Maturation Ponds	Facility lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Facility designed to ensure at least 5 days retention time	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water and seepage collection drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Waste Water Ponds	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water collection drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Open Cast Voids	Diversion of upslope storm water around the void	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Upstream diversion berms or management measures to prevent inflow of water into the void	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Prevention of water flowing into the void by using highball drains where necessary	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Ensure any water within the void is contained	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Oxidation Ponds	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate structures in place to ensure capture of a 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water collection drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Polluted Stormwater System	Storm water discharged directly to the resource	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection system incorporating the plant, raw material stockpiles and waste disposal facilities	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Clean stormwater separated from stormwater draining "dirty" sites or facilities	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Polluted stormwater collected & stored in dams	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Return Water Dams	Sizing to accept seepage from the under drainage systems and decant systems for up to the 1:50 year rainfall event, over and above normal operating conditions	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Continued on next page

Sewage Treatment Works	Pump stations operational	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Emergency storage dam(s) available	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate capacity in emergency storage dams	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Compliance with minimum discharge standards	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate capacity to contain total volume	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Silt Dams	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Slag Dumps	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Separation of clean & dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of rainfall run-off into the dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	After decommissioning, the top surface is shaped to suit drainage requirements and re-vegetated	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Implementation of under drainage systems to collect seepage for re-use as process water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice:	<hr/>		

Slimes/Tailings Dams	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Separation of clean & dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of rainfall run-off into the dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	After decommissioning, the top surface is shaped to suit drainage requirements and re-vegetated	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Implementation of under drainage systems to collect seepage for re-use as process water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Covering of side slopes with soil during the operational phase to assist in reducing any contact of rainfall runoff with the tailings	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Vegetation of side slopes to minimise erosion	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice:	<hr/>		

Continued on next page

Sludge Drying Beds

Facility is lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Storm water drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Moisture reduction of sludge	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Incorporation of sludge into soil	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Leachate management system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Mixing of high moisture content or liquid waste with dry waste	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice:		

Sludge Ponds/Lagoons

Facility is lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Storm water drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice:		

Waste Rock Dump

Stabilisation of side slopes to minimise erosion	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Rainfall runoff collected into a dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Covering of terraces or step-ins with a soil layer, followed by paddocking & vegetation to minimise ingress of water into the dump	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Collection of percolated stormwater via under drains into collection sumps which should pump the water to a dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice:		

Waste Storage

Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Leachate management system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Leachate detection layer in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Leachate collection layer in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Stormwater drains in place & connected to the polluted stormwater system	<input type="checkbox"/> Yes	<input type="checkbox"/> No
For pits, ingress of water is prevented		
Any other practice:		

Continued on next page

**Waste Treatment
Plant**

Capacity to handle the 1:50 year storm event

☐ Yes☐ No

Stormwater collection system in place

☐ Yes☐ No

Stormwater diversion measures in place

☐ Yes☐ No

Seepage collection system in place

☐ Yes☐ No

Adequate structures in place to ensure capture of a 1:50 year storm event

☐ Yes☐ No

Emergency incident structures in place

☐ Yes☐ No

Any other practice:



water affairs

Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

In-pit disposal.

DW767

Part 2: WASTE DISCHARGE RELATED WATER USE IN TERMS OF SECTION 21(g) OF THE NATIONAL WATER ACT, (ACT NO. 36 OF 1998)

Section 21(g): disposing of waste in a manner which may detrimentally impact on a water resource.

1. GENERAL INFORMATION

Mark the applicable option(s) with an X and/or complete details where applicable/available.

- 1.1 Indicate the nature of this application: ☒ Licence ☐ Registration (only)
- 1.2 Have you already registered a water use with the Department of Water Affairs and Forestry? ☐ Yes ☒ No
Registration number:
Water use number:
- 1.3 Indicate if Section 21(j) is applicable to this water use application: **Section 21(j):** removing, discharging or disposing of water found underground if it is necessary for the efficient continuation of an activity or for the safety of people.
☐ Yes ☒ No
Note: If Yes was selected, ensure that a DW805 application form has been submitted.
- 1.4 Do you have a licence, permit or exemption for this waste discharge?
(Issued in terms of the National Water Act (Act No. 36 of 1998),
Water Act (Act No. 54 of 1956)
or the Environmental Conservation Act (Act No. 73 of 1989))
☐ Yes ☒ No
Licence number:
OR
Permit number:
OR
Exemption reference number:

1.5 Applicant Type (mark only one block with X)

- ☐ Individual (complete 1.6)
 ☐ Provincial Department (complete 1.9)
- ☒ Company, business, partnership or community (complete 1.7)
 ☐ Water Services Provider (complete 1.10)
- ☐ National Department (complete 1.8)
 ☐ Water User Association (complete 1.11)

1.6 If the applicant is an individual

1.6.1 Title Surname Initials

1.6.2 South African ID (if holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

Passport Expiry Date (ccyyymmdd)

Passport Country Of Issue

1.7 If the applicant is a company, business, partnership or community:**1.7.1** Name of company, business, partnership or community:

1.7.2 Business Enterprise Registration Number

1.7.3 Date Established (ccyyymmdd)

Country Where Established

1.8 If the applicant is a National Department:

1.8.1 National Department Name:

1.9 If the property owner is a Provincial Department:

1.9.1 Province:

1.9.2 Provincial Department Name:

1.10 If the property owner is a Water Services Provider:

1.10.1 Name of WSP:

1.11 If the property owner is a Water User Association:

1.11.1 Name of WUA:

Declaration by applicant or waste discharger

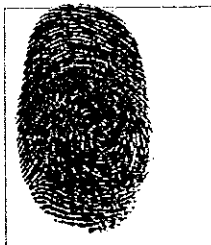
Delete the words that are not applicable I/~~we~~ BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Signature

Company Representative

Designation of signatory



Thumb print

(011) 785 4518

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd):

It is a criminal offence to provide information that is false or misleading.

2. DESCRIPTION OF THE WASTE GENERATED

2.1 Select the sector that generates the wastewater or waste which this application refers to

(Mark only one box with an X)

(Note, if more than one option is applicable, you must fill in a separate application form per sub-sector)

Agriculture

- ☐ Aquaculture
☐ Irrigation

- ☐ Intensive Animal Husbandry
☐ Other (please specify below)

Urban / Domestic

- ☐ Sewage Treatment Works
☐ Waste Disposal

- ☐ Water Treatment Works

Industry

- ☐ Agroprocessing
☐ Fertilisers
☐ Metal Processing And Finishing
☐ Textile
☐ Power Generation

- ☐ Meat Processing
☐ Manufacturing
☐ Paper And Pulp
☐ Winery
☐ Other (please specify below)

Mining

- ☒ Coal
☐ Gold
☐ Platinum
☐ Copper
☐ Chromium
☐ Iron

- ☐ Diamond
☐ Sand-winning
☐ Quarrying
☐ Peat Mining
☐ Uranium
☐ Other (please specify below)

2.2 Which of the following describes the nature of the wastewater?

(Mark the applicable option(s) with an X)

- 2.2.1 Wastewater containing <70% water by mass (i.e. sludge) ☐
2.2.2 Wastewater containing >70% water by mass ☐
2.2.3 Wastewater with high acidity (i.e. pH <5) or alkalinity (i.e. pH >10) ☐
2.2.4 Wastewater with temperature of >50°C ☐
2.2.5 Wastewater with an oxygen content of <5 mg/l ☐
2.2.6 Wastewater with an EC (Electrical Conductivity) of >500mS/m ☒
2.2.7 Wastewater with an EC of <500mS/m ☒

2.3 Which of the following describes the composition of the wastewater?

(Mark the applicable option(s) with an X)

- 2.3.1 Wastewater consisting of > 90% organic content by mass (i.e. load) ☐
2.3.2 Wastewater consisting of 50 – 90% organic content and 10 – 50% metals or salts by mass (i.e. load) ☐
2.3.3 Wastewater consisting of 10 – 50% organic content and 50 – 90% metals or salts by mass (i.e. load) ☐
2.3.4 Wastewater consisting of >90% metals or salts by mass (i.e. load) ☒

2.4 Describe the activity that generates the waste

Discard from coal
beneficiation process

2.5 Discharge to a land based facility**2.5.1 Water use start & end date**

When did/will this water use start? (ccyymmdd)

20100301

When did/will this water use end? (If applicable)
(ccyymmdd)**2.5.2 The total volume of waste / waste water discharged per year:**

2000000

thous.
Cubic meters**2.5.3 The maximum volume of waste / waste water discharged on any given day:**

Cubic meters

2.5.4 Monthly discharge pattern expressed in:☐ Cubic meters

N/A

OR

☐ Percentage (%) of total

OR

☐ Another unit of measure

If "Another unit of measure" was selected, specify the "unit of measure" to be applied to the monthly discharge pattern details:

	Minimum	Average	Maximum
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			

UNKNOWN

2.5.5 Intake Water

National Water Act - Section 21(a/b/g/j) Water Use					
Section 21(?)	Registered*	Volume of water applicable to this waste discharge (m³)	If Registered*		
			Register Number	Water Use Number	Waste Management Facility Name
N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> Yes <input type="checkbox"/> No				

2.5.6 Average disposal volume / discharge volume onto the land / facility

Average disposal volume (cubic meters)	<input type="text"/>	Time Interval: <input type="checkbox"/> Per Month <input type="checkbox"/> Per Annum
Maximum disposal volume anticipated (cubic meters)	<input type="text"/>	Time Interval: <input type="checkbox"/> Per Month <input type="checkbox"/> Per Annum

Quality Variable And Unit Of Measurement	Concentration	For Office Use Only	
		Waste Load Onto Facility (kg)	NPS Load (kg)
Coliforms (Colony Forming Units/ml)			
Enteric pathogens e.g. E.coli (Colony Forming Units/ml)			
pH (pH units)			
Temperature (°C)			
Acidity (mg/l)			
Alkalinity (mg/l)			
Aluminium (mg/l)			
Ammonia (mg/l)			
Arsenic (mg/l)			
Barium (mg/l)			
Boron (mg/l)			
Bromide (mg/l)			
Cadmium (mg/l)			
Calcium (mg/l)			
Chemical oxygen demand (mg/l)			
Chloride (mg/l)			
Chromium (mg/l)			
Chromium(vi) (mg/l)			

Continued on next page

Quality Variable And Unit Of Measurement	Concentration	For Office Use Only	
		Waste Load Onto Facility (kg)	NPS Load (kg)
Cobalt (mg/l)			
Copper (mg/l)			
Cyanide (mg/l)			
Fluoride (mg/l)			
Iron (mg/l)			
Lead (mg/l)			
Lithium (mg/l)			
Magnesium (mg/l)			
Manganese (mg/l)			
Mercury (mg/l)			
Molybdenum (mg/l)			
Nickel (mg/l)			
Phenol (mg/l)			
Potassium (mg/l)			
Radionuclides (mg/l)			
Soap, oil or grease (mg/l)			
Sodium (mg/l)			
Sulphate (mg/l)			
Tin (mg/l)			
Total dissolved solids (mg/l)			
Total suspended solids (mg/l)			
Total nitrogen (mg/l)			
Total phosphorus (mg/l)			
Uranium (mg/l)			
Vanadium (mg/l)			
Zinc (mg/l)			

3.3 Property Relationship Details (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property				Property Relationship		
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)	Date From:	To:
Overlacte	T44946/2009	MS	125	3+4	Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
	T22619/2009	MS	125	5	Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)		

4. DISPOSAL OF WASTE

4.1 Commonly used description of waste types to be disposed

4.1.1 Description of the types of waste to be disposed

(Mark the applicable type option(s) with an X and/or complete details where applicable/available.)

- | | |
|--|---|
| <input type="checkbox"/> Sewage Sludge | <input type="checkbox"/> Household Refuse |
| <input type="checkbox"/> Industrial Sludge | <input type="checkbox"/> Farming Waste |
| <input checked="" type="checkbox"/> Mining Waste | <input type="checkbox"/> Dry Industrial Waste |
| <input type="checkbox"/> Hazardous Waste | <input type="checkbox"/> Industrial Liquid |
| <input type="checkbox"/> Industrial Ash (all industries) | <input type="checkbox"/> Other |
| <input type="checkbox"/> Power Generation | Specify Other: _____ |

4.1.2 Approximate maximum volume/tonnage per site per day

5,500 tons

4.1.3 Approximate total tonnage per site per annum

2000000 tons

tons

4.2 Type of waste management facility

4.2.1 Name of waste site or 'facility'

(Refer attached DW905 form)

IN-PIT DISPOSAL

4.2.2 Select the type of waste disposal site (Mark only one box with an X)

Waste Management Facility Type

	Select with X	Size (ha)	Estimated lifetime (y)	Disposal started on: (ccyymmdd)	Disposal ceased on: (if applicable) (ccyymmdd)
Artificial Wetlands					
Ash Dams / Dumps	<input type="checkbox"/>				
Coal Dams	<input type="checkbox"/>				
Composting	<input type="checkbox"/>				
Domestic Waste	<input type="checkbox"/>				
Effluent Dams	<input type="checkbox"/>				
Evaporation Dams/Ponds	<input type="checkbox"/>				
Forced Evaporation	<input type="checkbox"/>				
Maturation Ponds	<input type="checkbox"/>				

Continued on next page

Waste Management Facility Type	Select with X	Size (ha)	Estimated lifetime (y)	Disposal started on: (ccyymmdd)	Disposal ceased on: (if applicable) (ccyymmdd)
Other Waste Water Ponds: (Specify other)	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Open Cast Voids	<input checked="" type="checkbox"/>	1 2 3 3	30	20100301	<input type="text"/>
Oxidation Ponds	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Polluted Storm Water System	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Recycling	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Return Water Dams	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Silt Dams	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Slag Dumps	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Slimes/Tailings Dams	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Sludge Drying Beds	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Sludge Ponds/Lagoons	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Waste Rock Dump	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Waste Storage	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Waste Treatment Plant	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
(Specify)					

5. LIST OF SUPPORTING TECHNICAL INFORMATION

5.1 Confirm that the following forms have been included in this application

DW901	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
DW902	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
DW905	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

5.2 Mark with an X if these documents have been submitted with this application

Environmental Impact Assessment (EIA)	<input checked="" type="checkbox"/>
Environmental Management Programme (EMPR)	<input type="checkbox"/>
Standard Environmental Management Programme	<input type="checkbox"/>
Integrated Water and Waste Management Plan (IWWMP)	<input checked="" type="checkbox"/>
Integrated Water Use Licence Application Report	<input type="checkbox"/>
Report on Waste Water Quality (solute load, seasonal changes, etc.)	<input type="checkbox"/>
Report on Industrial Process Generating Waste water	<input type="checkbox"/>
Geohydrological Report	<input checked="" type="checkbox"/>
Civil Designs	<input checked="" type="checkbox"/>
Contingency Plan for Failures and Malfunctions of System	<input checked="" type="checkbox"/>
Monitoring Programme(s)	<input checked="" type="checkbox"/>
Topographical Map (1:50 000)	<input type="checkbox"/>
National Water Act (Act No 36 of 1998) – Section 27 Evaluation	<input checked="" type="checkbox"/>
DW760 NWA-Section 21(a)	<input checked="" type="checkbox"/>
DW761 NWA-Section 21(b)	<input type="checkbox"/>
DW762 NWA-Section 21(b)	<input checked="" type="checkbox"/>
DW763 NWA-Section 21(c)	<input checked="" type="checkbox"/>
DW764 NWA-Section 21(d)	<input type="checkbox"/>
DW765 NWA-Section 21(e)	<input checked="" type="checkbox"/>
DW766 NWA-Section 21(f)	<input type="checkbox"/>
DW767 NWA-Section 21(g)	<input checked="" type="checkbox"/>
DW768 NWA-Section 21(i)	<input checked="" type="checkbox"/>
DW780 NWA-Section 21(h)	<input type="checkbox"/>
DW805 NWA-Section 21(j)	<input checked="" type="checkbox"/>
DW903	<input checked="" type="checkbox"/>
DW904	<input type="checkbox"/>

Other (specify other documents submitted with this form)

D	W					<input type="checkbox"/>
D	W					<input type="checkbox"/>
D	W					<input type="checkbox"/>

5. THIS SECTION IS RESERVED FOR OFFICE USE ONLY

6.1 Management Classification Details		Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
Waste Generating Sector	Waste Disposal Site Type			Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Mining	Slimes/Tailings Dams		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Evaporation Dams/Ponds		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Effluent Dams		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Return Water Dam		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Forced Evaporation		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Ash Dams/Dumps		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Open Cast Voids		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Waste Rock Dump		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%
	Polluted Storm Water System		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.75%	<input type="checkbox"/> 1.5%

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Industry	Evaporation Dams/Ponds	Synthetic liner	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Maturation Ponds		Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 10%	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %
	Coal Dams	Clay liner and seepage drains	Salinity, pH, SO ₄ , heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
	Polluted Storm Water System	Collection and containment facilities	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 100% (no system)
		System captures 1:100 year storm-event	Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	60-80% (system overflows 1:2 to 1:5 years) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Domestic	Oxidation Ponds	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Artificial Wetlands	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Polluted Storm Water System	Collection and containment facilities, system captures 1:100 year storm event	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 100% (no system)
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	60-80% (system overflows 1:2 to 1:5 years) <input type="text"/> <input type="text"/> %

Continued on next page

Waste Generating Sector	Waste Disposal Site Type	Lining System	Constituent (Quality Variable)	Management Classification (Mark applicable option(s) with an X)		
				Best practice leading to zero impact	Standard/minimum requirements	Poor practice
Agricultural	Oxidation Ponds	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Artificial Wetlands	Synthetic liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 0.5%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 10%
		Clay liner	Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> 1%	<input type="checkbox"/> 7.5%
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> 2.5%	<input type="checkbox"/> 10%
	Polluted Storm Water System		Nutrients, COD, pathogens	<input type="checkbox"/> 0%	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %
			Salinity, pH, SO ₄ , Cl, Na, heavy metals	<input type="checkbox"/> 0%	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> %

6.2 Waste Disposal Site Classification

Mark the site classification with an X (only one option may be selected)

☐ GCB+☐ GSB+☐ GMB+☐ GLB+☐ GCB-☐ GSB-☐ GMB-☐ GLB-☐ H:H☐ H:h**Legend****B-** Water deficit climate resulting in only sporadic leachate generation**C** Communal Landfill**B+** Water surplus climate resulting in significant leachate generation**S** Small Landfill**G** General waste or landfill for general waste**M** Medium Landfill**H:H** Hazard waste landfill that can receive waste with a hazard rating of 1 and 2**L** Large Landfill**H:h** Hazard waste landfill that can receive waste with a hazard rating of 3 and 4

Site classification Date (ccyymmdd)

--	--	--	--	--	--	--	--

6.3 Authorisation / Regulation Details**6.3.1** Authorisation/Regulation Type (mark the applicable option with an X)☐ Licence ("Registration of a Waste Management Facility in terms of Section 21(g) of the National Water Act".)☐ Permit ("Registration of a Waste Management Facility in terms of Section 20(1) of the Environmental Conservation Act".)☐ Direction ("Registration of a Waste Management Facility in terms of Section 20(5) of the Environmental Conservation Act".)☐ Exemption ("Registration of a Waste Management Facility in terms of Section 20(1) of the Environmental Conservation Act".)**6.3.2** Applicable Authorisation / Regulation Reference Number

OR

Environment Conservation Act Permit Number

6.3.3 The authorisation/regulation is valid from (ccyymmdd)

--	--	--	--	--	--	--	--

Until (ccyymmdd)

--	--	--	--	--	--	--	--

6.4 Succession transfer and source part 2 details**6.4.1** Is this a 'succession in title' related water use transfer?☐ Yes☐ No**6.4.2** If yes, complete the following details where applicable.

Source Register Number

WU Number

WU Status to be Allocated

WU Close Date (if applicable) (ccyymmdd)

--	--	--	--	--	--	--	--

--	--	--	--

--	--	--	--	--	--	--	--

--	--	--	--

--	--	--	--	--	--	--	--

--	--	--	--

--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--

--	--	--	--	--	--	--	--

6.5 District Municipality

District Municipality Name (if applicable)

6.9 Authorisation details

6.9.1 Water use takes/took place in terms of the General Authorisation:

☐ Yes

☐ No

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

Date(s) from which applicable GA is/was applicable to this water use	
South African Act: [E.g. National Water Act (Act No. 36 of 1998)]	Applicable section of the act [E.g. Section 21]
Date From (ccyymmdd) <input type="text"/>	Government Notice No. <input type="text"/>
Date To (ccyymmdd) <input type="text"/>	Government Notice Date (ccyymmdd) <input type="text"/>
Applicable Section Of The General Authorisation <input type="text"/>	
Date From (ccyymmdd) <input type="text"/>	Government Notice No. <input type="text"/>
Date To (ccyymmdd) <input type="text"/>	Government Notice Date (ccyymmdd) <input type="text"/>
Applicable Section Of The General Authorisation <input type="text"/>	
Date From (ccyymmdd) <input type="text"/>	Government Notice No. <input type="text"/>
Date To (ccyymmdd) <input type="text"/>	Government Notice Date (ccyymmdd) <input type="text"/>
Applicable Section Of The General Authorisation <input type="text"/>	

6.9.2 If an authorisation has been issued under other legislation – provide the Law/Regulation details if known/available.

6.9.3 If this application represents a licence related water use (new licence application or previously submitted application) – complete following details if known/available.

Responsible Licensing Authority Reference

Responsible Licensing Authority Business Unit



water affairs

Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

SUPPLEMENTARY WATER USE INFORMATION (ONLY APPLICABLE FOR NWA – SECTION 21g WATER USES)

DETAILS OF WASTE MANAGEMENT FACILITY

1. WASTE MANAGEMENT FACILITY DETAILS

1.1 Name of Waste Management Facility

1.2 Fatal flaw indicators

If any of the following criteria apply to the site, or will apply to a proposed site, mark with an X

- ☐ In an area below the 1 in 100 flood line of any watercourse
- ☐ In unstable areas (e.g. fault zones, seismic zones, dolomitic or karst areas, areas with sinkholes or subsidence)
- ☒ In sensitive ecological and/or historical areas
- ☒ In a catchment area for important, "significant" or sensitive surface water resources
- ☐ In an area with shallow or emergent groundwater, or characterised by flat gradients (wetlands, vleis, springs, etc.)
- ☐ In an area characterised by steep gradients (e.g. where problems with stability could be experienced)
- ☐ Areas of groundwater recharge on account of topography and/or highly permeable soils
- ☐ Overlaying or adjacent to important or potentially important aquifers (Parsons classification: Sole source, major)
- ☐ Within an area with shallow bedrock and limited available cover material
- ☐ Areas in close proximity to land uses that are incompatible with waste disposal activities
- ☐ Areas where adequate buffer zones are not possible

1.3 Method of disposal

- ☐ Trenching ☐ Ash-blending ☒ Co-disposal
- ☒ Other (specify)

In-pit disposal of discard / filter cake (slurry)

1.4 Distance from nearest borehole used for drinking water or stock watering

meters

(at closest point)

1.5 Distance from the edge of nearest downstream surface water resource

meters

(at closest point)

1.6 Lining of the site

- a) The site is / will be ☐ Lined
- b) If lined, the lining system is ☐ Clay
- (Mark the applicable option with an X) ☐ Composite lining system

1.7 Total area of 'property' on which waste is disposed

2027 hectares

1.8 Area of actual waste body ("footprint" area)

1233 hectares

1.9 Dimensions of waste site

N/A

Height or depth

Length

Breadth

a) At commencement

meters

b) After rehabilitation

meters

c) Available air space

cubic meters

d) Total volume already used for waste disposal

cubic meters

e) Accuracy of above volumes

☐ Surveyor

☐ Estimate

1.10 Buffer Zone

a) Actual distance to the boundary of the nearest:

• Formal residential area

m

• Informal residential area

m

• Industrial Area

m

b) Buffer zone determination done by

☐ Scientific method

☐ Actual distance

1.11 Location of Waste Management Facility

1.11.1 Geographical location for each of the external corner points of the waste management facility:

Latitude S 22° 08' 58.0" or S° or S°

Longitude E 29° 40' 42.4" or E° or E°

Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S 22° 09' 56.7" or S° or S°

Longitude E 29° 41' 23.2" or E° or E°

Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S 22° 09' 43.4" or S° or S°

Longitude E 29° 39' 52.1" or E° or E°

Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S° or S° or S°

Longitude E° or E° or E°

Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84

Latitude S° or S° or S°

Longitude E° or E° or E°

Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84

1.11.2 Drainage Region Details: Quaternary Drainage Region

A 7 1 L

1.12 Climatic water balance

The wettest six months of the year are ☒ November to April ☐ May to October

The wettest years during the past thirty years were (populate at least one year's details with both rainfall and evaporation detail completed)

Rating	Year	Total rainfall for 6 months		Total evaporation (A-pan) for 6 months		Official use
Wettest year	1 9 9 9	9 5 8	mm	1 0 6 6	mm	
2 nd wettest	1 9 9 5	5 0 2	mm	1 2 6 1	mm	
3 rd wettest	1 9 7 7	5 4 4	mm	1 1 4 4	mm	
4 th wettest	1 9 7 1	4 4 9	mm	1 1 4 3	mm	
5 th wettest	1 9 7 5	4 1 6	mm	1 2 3 4	mm	
6 th wettest	1 9 7 3	4 2 9	mm	1 2 5 2	mm	
7 th wettest	1 9 8 4	2 8 2	mm	1 3 1 0	mm	
8 th wettest	1 9 8 0	4 6 3	mm	1 2 3 6	mm	
9 th wettest	1 9 6 0	4 1 2	mm	1 2 5 0	mm	
10 th wettest	1 9 8 7	3 5 9	mm	1 2 7 2	mm	

Site-specific water balance factors

If leachate is visible (for existing facilities only) mark with an X ☐

Other site specific water balance factors (specify)

SOURCE: DEPARTMENT OF WATER AFFAIRS, WEATHER STATION - A7E006 MACUVILLE

1.13 Details of the person in control of the site

Surname

PRETORIUS

Initials &/or First Name

NICO

Title

MR

ID No.

Phone Number

011 785 4502

Ext

Fax Number

086 692 9728

Cellphone

082 824 0913

E-mail Address

NPretorius@coalofafrica.co.za

Highest Educational Qualification

☐ Grade 8 / Std 6☐ Diploma☐ Grade 10 / Std 8☐ Higher Diploma☐ Matric☒ Degree

2. OPERATION OF THE WASTE MANAGEMENT FACILITY

2.1 Type of operation

- ☐ Landfill or Landbuild ☐ Transfer station ☐ Recycling facility ☐ Incinerator
☐ Composting plant ☐ Storage area ☐ Treatment plant
☐ Encapsulation ☒ Other (specify) Discard in-pit disposal

2.2 Length of time of the operation

Start Date
(ccyymmdd)

20100301

End Date
(ccyymmdd)

2.3 Is sufficient cover material on site?

☒ Yes

☐ No

2.4 Covering and burning of waste (mark applicable options with an X)

N/A

- ☐ Daily compaction and covering ☐ Weekly compaction and covering
☐ Burning of waste

2.5 Is leachate management system present?

☐ Yes

☒ No

2.6 Storm water management (mark the applicable options with an X)

- ☒ Upstream cut-off trenches ☒ Contaminated storm water storage facility

3. MANAGEMENT PRACTICES OF THE WASTE MANAGEMENT FACILITY

Tick the options that describe the management practices for the waste facility or site

Artificial Wetlands	Facility is generally lined (clay liners typically) and are designed to receive 120l/m ² /d at a depth of 30 cm.	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater and seepage drains	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	
Ash Dams/Dumps	Facility is lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Side slopes stabilized to minimize erosion	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Rainfall runoff collected into a dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of percolated storm water via under drains into collection sumps, which should pump the water to a dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	For pits, ingress of water is prevented	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	
Coal Dams	Lined facility (synthetic or clay liners)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water drains in place & connected to the polluted storm water system	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Effluent in the dam is not of acidic pH	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Dam is covered to prevent contact with oxygen	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Facility does not maintain anaerobic conditions	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice:	<hr/>		
Effluent Dams	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Facility has seepage drains	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Splitting of facility into 2 separate compartments for the purposes of cleaning and management	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	
Evaporation Dams/Ponds	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Facility is of sufficiently large size to ensure that full evaporation of effluent is achieved	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water collection drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	
Forced Evaporation	Evaporation only with wind speeds less than 2m/sec	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	No evaporate pre-dawn as humidity is high	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:	<hr/>	

Continued on next page

Maturation Ponds	Facility lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Facility designed to ensure at least 5 days retention time	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water and seepage collection drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:		

Waste Water Ponds	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water collection drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:		

Open Cast Voids	Diversion of upslope storm water around the void	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
	Upstream diversion berms or management measures to prevent inflow of water into the void	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
	Prevention of water flowing into the void by using high ball drains where necessary	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
	Ensure any water within the void is contained	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:		

Discard will be placed at the bottom of the pit and covered with overburden/topsoil.

Oxidation Ponds	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate structures in place to ensure capture of a 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water collection drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:		

Polluted Stormwater System	Storm water discharged directly to the resource	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection system incorporating the plant, raw material stockpiles and waste disposal facilities	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Clean stormwater separated from stormwater draining "dirty" sites or facilities	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Polluted stormwater collected & stored in dams	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:		

Return Water Dams	Sizing to accept seepage from the under drainage systems and decant systems for up to the 1:50 year rainfall event, over and above normal operating conditions	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:		

Continued on next page

Sewage Treatment Works	Pump stations operational	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Emergency storage dam(s) available	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate capacity in emergency storage dams	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Compliance with minimum discharge standards	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Adequate capacity to contain total volume	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Any other practice: _____			

Silt Dams	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice: _____		

Slag Dumps	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Separation of clean & dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of rainfall run-off into the dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	After decommissioning, the top surface is shaped to suit drainage requirements and re-vegetated	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Implementation of under drainage systems to collect seepage for re-use as process water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice: _____		

Silimes/Tailings Dams	Stormwater collection system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Separation of clean & dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of rainfall run-off into the dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	After decommissioning, the top surface is shaped to suit drainage requirements and re-vegetated	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Implementation of under drainage systems to collect seepage for re-use as process water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Covering of side slopes with soil during the operational phase to assist in reducing any contact of rainfall runoff with the tailings	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Vegetation of side slopes to minimise erosion	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice: _____		

Continued on next page

Sludge Drying Beds	Facility is lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Moisture reduction of sludge	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Incorporation of sludge into soil	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate management system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Mixing of high moisture content or liquid waste with dry waste	<input type="checkbox"/> Yes	<input type="checkbox"/> No

Any other practice:

Sludge Ponds/Lagoons	Facility is lined (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Storm water drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Capacity to handle the 1:50 year storm event	<input type="checkbox"/> Yes	<input type="checkbox"/> No

Any other practice:

Waste Rock Dump	Stabilisation of side slopes to minimise erosion	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Rainfall runoff collected into a dirty water	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Covering of terraces or step-ins with a soil layer, followed by paddocking & vegetation to minimise ingress of water into the dump	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Collection of percolated stormwater via under drains into collection sumps which should pump the water to a dirty water storage facility	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Any other practice:		

Waste Storage	Lined facility (synthetic or clay)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate management system in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate detection layer in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Leachate collection layer in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Seepage drains in place	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Stormwater drains in place & connected to the polluted stormwater system	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	For pits, ingress of water is prevented		

Any other practice:

Continued on next page

**Waste Treatment
Plant**

Capacity to handle the 1:50 year storm event

☐ Yes☐ No

Stormwater collection system in place

☐ Yes☐ No

Stormwater diversion measures in place

☐ Yes☐ No

Seepage collection system in place

☐ Yes☐ No

Adequate structures in place to ensure capture of a 1:50 year storm event

☐ Yes☐ No

Emergency incident structures in place

☐ Yes☐ No

Any other practice:

PART 2 – SECTION 21(i)

- 1. PIPELINE STREAM CROSSING #1**
- 2. PIPELINE STREAM CROSSING #2**
- 3. PIPELINE STREAM CROSSING #3**

ASSOCIATED FORMS:

- 1. DW781suppl – Refer to S21(c)**



water affairs

Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

Registration / Licensing

Section 21(i) of the National Water Act

Part 2

ALTERING THE BED, BANKS, COURSE OR
CHARACTERISTICS OF A WATERCOURSE

SPECIAL NOTE

This form is not applicable for any structure that impedes or diverts flow.
For these structures, please complete form DW763/775

1. GENERAL INFORMATION

Mark the applicable option(s) with an X and/or complete details where applicable/available.

- 1.1 Have you already registered a water use with the Department of Water Affairs and Forestry? ☐ Yes ☒ No

Registration Number:

--	--	--	--	--	--	--	--	--	--

Water Use Number:

--	--	--	--

☐ Licence Related WU

RLA Reference

--	--	--	--	--	--	--	--	--	--

NRWU Licence Number

								/		
--	--	--	--	--	--	--	--	---	--	--

RLA Business Unit

--	--	--	--	--	--	--	--	--	--	--

(NRWU = National Register of Water Use; RLA = Responsible Licensing Authority; WU = Water Use)

1.2 Applicant Type (mark only one block with X)

- ☐ Individual (complete 1.3) ☐ Provincial Department (complete 1.6)
☒ Company, business, partnership or community (complete 1.4) ☐ Water Services Provider (complete 1.7)
☐ National Department (complete 1.5) ☐ Water User Association (complete 1.8)

1.3 If the applicant is an individual

1.3.1 Title Surname Initials

For office use only

Allocated Reg. No.

--	--	--	--	--	--	--	--

WU No.

--	--	--	--

1.3.2 South African ID (if holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

[illegible]

Passport Expiry Date (ccyyymmdd)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

Passport Country Of Issue

1.4 If the applicant is a company, business, partnership or community:

1.4.1 Name of company, business, partnership or community:

LIMPOPO COAL COMPANY (PTY) LTD

1.4.2 Business Enterprise Registration Number

		006072107
--	--	-----------

1.4.3 Date Established (ccyyymmdd)

2	0	0	5	0	2	2	4
---	---	---	---	---	---	---	---

Country Where Established

ESA

1.5 If the applicant is a National Department:

1.5.1 National Department Name:

Figure 1. Schematic representation of the experimental design. The subjects were divided into two groups: the control group (CG) and the experimental group (EG). The CG was subjected to a standard training protocol, while the EG was subjected to a modified training protocol. The EG was divided into two subgroups: the EG1 subgroup and the EG2 subgroup. The EG1 subgroup was subjected to a modified training protocol, while the EG2 subgroup was subjected to a standard training protocol. The subjects were subjected to a series of tests: the pre-test, the training, and the post-test. The pre-test was conducted before the training, the training was conducted over a period of 10 days, and the post-test was conducted after the training. The subjects were subjected to a series of tests: the pre-test, the training, and the post-test. The pre-test was conducted before the training, the training was conducted over a period of 10 days, and the post-test was conducted after the training.

1.6 If the applicant is a Provincial Department:

1.6.1 Province:

Copyright © 2016 Pearson Education, Inc. or its affiliate(s). All rights reserved.

1.6.2 Provincial Department Name:

Figure 1. Schematic representation of the experimental design. The subjects were divided into two groups: the control group (CG) and the experimental group (EG). The CG was subjected to a control protocol (CP) and the EG to an experimental protocol (EP). The CP consisted of a baseline (BL) and a post-exercise (PE) period. The EP consisted of a baseline (BL), a post-exercise (PE), and a post-exercise (PE) period. The subjects were subjected to a control protocol (CP) and an experimental protocol (EP). The CP consisted of a baseline (BL) and a post-exercise (PE) period. The EP consisted of a baseline (BL), a post-exercise (PE), and a post-exercise (PE) period. The subjects were subjected to a control protocol (CP) and an experimental protocol (EP). The CP consisted of a baseline (BL) and a post-exercise (PE) period. The EP consisted of a baseline (BL), a post-exercise (PE), and a post-exercise (PE) period.

1.7 If the applicant is a Water Services Provider:

1.7.1 Name of WSP:

1.8 If the applicant is a Water User Association:

1.8.1 Name of WUA:

[illegible]

Declaration by applicant

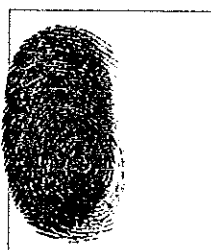
Delete the words that are not applicable to BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.

Blago

Signature

Signature Company Representative
Designation of signatory

Designation of signatory



Thumb print

(011) 785 4518

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

2. SUCCESSION/TRANSFER AND SOURCE PART 2 DETAILS

- 2.1 Is this a "succession-in-title" related Water Use? ☐ Yes
(Mark only one box with an X) ☒ No

2.2 If yes, complete the following source details

- 2.3 Source Register Number WU Number
- Source Register Number WU Number
- Source Register Number WU Number

3. WATER RESOURCE INFORMATION

- 3.1 Name of water source
UNNAMED TRIBUTARY OF LIMPOPO RIVER
- 3.2 Type of water source
☒ River/stream ☐ Estuary ☐ Spring/Eye ☐ Wetland ☐ Dam ☐ Lake
- 3.3 Quaternary Drainage Region A71L

4. DETAILS OF WATER USE ACTIVITY

- 4.1 Name of alteration
PIPELINE STREAM CROSSING #1
- 4.2 Location of the alteration
- a) Geographic location of the start of the alteration
- Latitude S 22° 09' 30.6" or S ° or S °
- Longitude E 29° 39' 14.7" or E ° or E °
- Datum Type: ☐ Cape (Modified Clarke 1880) ☒ WGS-84
- b) Geographic location of the end of the alteration (if different from the start)
- Latitude S ° or S ° or S °
- Longitude E ° or E ° or E °
- Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84
- 4.3 Length of watercourse affected by the alteration metres
- 4.4 Type of alteration (mark all applicable with an X)
- ☒ Bed ☒ Banks ☒ Course ☐ Other (specify below)
-

- 4.5 Purpose of the alteration
WATER SUPPLY PIPELINE
- 4.6 The activity is (mark only one block with X) ☐ Temporary ☒ Permanent
- 4.7 Start date of the alteration Start Date (ccyymmdd)
20100301
- 4.8 End date of the alteration (If temporary) End Date (ccyymmdd)
 [][][][][][][][]
- 4.9 Enter the number of alterations on this property [][] **3**

5. DESCRIPTION OF WATER USE SECTOR(S)

- 5.1 Where applicable select one or more of the following water use sectors
- | | |
|--|---|
| <input type="checkbox"/> Agriculture: Aquaculture | <input type="checkbox"/> Industry (Urban) |
| <input type="checkbox"/> Agriculture: Irrigation | <input checked="" type="checkbox"/> Mining |
| <input type="checkbox"/> Agriculture: Watering Livestock | <input type="checkbox"/> Power Generation |
| <input type="checkbox"/> Evaporation (Storage) | <input type="checkbox"/> Recreation |
| <input type="checkbox"/> Industry (Non-urban) | <input type="checkbox"/> Water Supply Service |

6. EXISTING AUTHORISATION

- 6.1 Water use started on Date (ccyymmdd)
 [][][][][][][][]
- 6.2 If water use is an existing water use, mark with X and enter permit numbers
- Permit number

Permit No.	
Permit No.	
Permit No.	
Permit No.	
Permit No.	
Permit No.	

☐ Date (ccyymmdd)

[]	[]	[]	[]	[]	[]	[]	[]
[]	[]	[]	[]	[]	[]	[]	[]
[]	[]	[]	[]	[]	[]	[]	[]
[]	[]	[]	[]	[]	[]	[]	[]
[]	[]	[]	[]	[]	[]	[]	[]
[]	[]	[]	[]	[]	[]	[]	[]

6.3 If water use is in terms of the General Authorisation, mark with X

☐

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

<u>Date(s) from which applicable GA is/was applicable to this water use</u>			
South African Act:		Applicable section of the act	
[E.g. National Water Act (Act No. 36 of 1998)]		[E.g. Section 21]	
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			

6.4 If an authorisation has been issued under other legislation

Law /Regulation

7. PROPERTY RELATIONSHIP DETAILS (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property				Property Relationship Date		
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)	From:	To:
Overlaid 12S MS											

File number

[illegible]

Water Use Register Number

--	--	--	--	--	--	--	--

Received by:

Surname

Initials

--	--	--	--

Position / Rank

--

Signature

Captured on NRWU database (ccyymmdd)

[illegible]

Captured by:

Surname

Initials

--	--	--	--

Signature

Date stamp of receiving office



Registration / Licensing

Section 21(i) of the National Water Act

Part 2

ALTERING THE BED, BANKS, COURSE OR
CHARACTERISTICS OF A WATERCOURSE

SPECIAL NOTE

This form is not applicable for any structure that impedes or diverts flow.
For these structures, please complete form DW763/775

1. GENERAL INFORMATION

Mark the applicable option(s) with an X and/or complete details where applicable/available.

1.1 Have you already registered a water use with the Department of Water Affairs and Forestry? ☐ Yes ☒ No

Registration Number:

--	--	--	--	--	--	--	--	--	--

Water Use Number:

--	--	--	--

☐ Licence Related WU

RLA Reference

--	--	--	--	--	--	--	--	--	--

NRWU Licence Number

								/		
--	--	--	--	--	--	--	--	---	--	--

RLA Business Unit

--	--	--	--	--	--	--	--	--	--	--

(NRWU = National Register of Water Use; RLA = Responsible Licensing Authority; WU = Water Use)

1.2 Applicant Type (mark only one block with X)

- | | |
|--|---|
| <input type="checkbox"/> Individual (complete 1.3) | <input type="checkbox"/> Provincial Department (complete 1.6) |
| <input checked="" type="checkbox"/> Company, business, partnership or community (complete 1.4) | <input type="checkbox"/> Water Services Provider (complete 1.7) |
| <input type="checkbox"/> National Department (complete 1.5) | <input type="checkbox"/> Water User Association (complete 1.8) |

1.3 If the applicant is an individual

1.3.1 Title Surname Initials

For office use only

Allocated Reg. No.

WU No.

1.3.2 South African ID (if holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Passport Expiry Date (ccyyymmdd)

--	--	--	--	--	--	--	--	--	--

Passport Country Of Issue

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

1.4 If the applicant is a company, business, partnership or community:**1.4.1 Name of company, business, partnership or community:**

LIMPOPO COAL COMPANY (PTY) LTD

1.4.2 Business Enterprise Registration Number

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

1.4.3 Date Established (ccyyymmdd)

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Country Where Established

RSA

1.5 If the applicant is a National Department:**1.5.1 National Department Name:**

--

1.6 If the applicant is a Provincial Department:**1.6.1 Province:**

--

1.6.2 Provincial Department Name:

--

1.7 If the applicant is a Water Services Provider:**1.7.1 Name of WSP:**

--

1.8 If the applicant is a Water User Association:**1.8.1 Name of WUA:**

--

Declaration by applicant

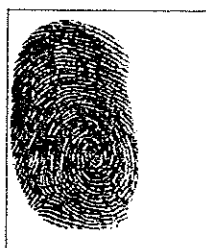
Delete the words that are not applicable I/ BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Signature

Company Representative

Designation of signatory



Thumb print

(011) 785 4518

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

2. SUCCESSION/TRANSFER AND SOURCE PART 2 DETAILS

- 2.1 Is this a "succession-in-title" related Water Use? ☐ Yes
(Mark only one box with an X) ☒ No

2.2 If yes, complete the following source details

- 2.3 Source Register Number WU Number
- Source Register Number WU Number
- Source Register Number WU Number

3. WATER RESOURCE INFORMATION

- 3.1 Name of water source
UNNAMED TRIBUTARY OF LIMPOPO RIVER
- 3.2 Type of water source
☒ River/stream ☐ Estuary ☐ Spring/Eye ☐ Wetland ☐ Dam ☐ Lake
- 3.3 Quaternary Drainage Region A71L

4. DETAILS OF WATER USE ACTIVITY

- 4.1 Name of alteration
PIPELINE STREAM CROSSING #2
- 4.2 Location of the alteration
- a) Geographic location of the start of the alteration
- Latitude S 22° 09' 54.5" or ° or °
- Longitude E 29° 39' 32.6" or ° or °
- Datum Type: ☐ Cape (Modified Clarke 1880) ☒ WGS-84
- b) Geographic location of the end of the alteration (if different from the start)
- Latitude ° ' " or ° or °
- Longitude ° " or ° or °
- Datum Type: ☐ Cape (Modified Clarke 1880) ☒ WGS-84
- 4.3 Length of watercourse affected by the alteration metres
- 4.4 Type of alteration (mark all applicable with an X)
- ☒ Bed ☒ Banks ☒ Course ☐ Other (specify below)
-

4.5

Purpose of the alteration

WATER SUPPLY PIPELINE

4.6

The activity is (mark only one block with X)

☐ Temporary☒ Permanent

4.7

Start date of the alteration

Start Date (ccyymmdd)

20100301

4.8

End date of the alteration (if temporary)

End Date (ccyymmdd)

4.9

Enter the number of alterations on this property

3

5.

DESCRIPTION OF WATER USE SECTOR(S)

5.1

Where applicable select one or more of the following water use sectors

☐ Agriculture: Aquaculture☐ Industry (Urban)☐ Agriculture: Irrigation☒ Mining☐ Agriculture: Watering Livestock☐ Power Generation☐ Evaporation (Storage)☐ Recreation☐ Industry (Non-urban)☐ Water Supply Service

6.

EXISTING AUTHORISATION

6.1

Water use started on

Date (ccyymmdd)

6.2

If water use is an existing water use, mark with X and enter permit numbers

☐

Permit number

Date (ccyymmdd)

Permit No.

Permit No.

Permit No.

Permit No.

Permit No.

Permit No.

6.3 If water use is in terms of the General Authorisation, mark with X



*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

<u>Date(s) from which applicable GA is/was applicable to this water use</u>			
South African Act:		Applicable section of the act	
[E.g. National Water Act (Act No. 36 of 1998)]		[E.g. Section 21]	
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			

6.4 If an authorisation has been issued under other legislation

Law /Regulation

7. PROPERTY RELATIONSHIP DETAILS (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property	Property Relationship Date	
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property		From:	To:
Overlaid 12S MS					Surname of the Leader of Village, Community or Tribal Authority		
					Initial of the Leader of Village, Community or Tribal Authority		
					Local Authority (if applicable)		
					Magisterial District (if applicable)		
					Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority		
					Initial of the Leader of Village, Community or Tribal Authority		
					Local Authority (if applicable)		
					Magisterial District (if applicable)		
					Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority		
					Initial of the Leader of Village, Community or Tribal Authority		
					Local Authority (if applicable)		
					Magisterial District (if applicable)		
					Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority		
					Initial of the Leader of Village, Community or Tribal Authority		
					Local Authority (if applicable)		
					Magisterial District (if applicable)		
					Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority		
					Initial of the Leader of Village, Community or Tribal Authority		
					Local Authority (if applicable)		
					Magisterial District (if applicable)		
					Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority		
					Initial of the Leader of Village, Community or Tribal Authority		
					Local Authority (if applicable)		
					Magisterial District (if applicable)		
					Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority		
					Initial of the Leader of Village, Community or Tribal Authority		
					Local Authority (if applicable)		
					Magisterial District (if applicable)		
					Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority		

8. FOR OFFICE USE ONLY

8.1 List of attached forms and documents

8.1.1 Specify the number of other documents submitted with this form, if any

- ☐ Motivation for the proposed alteration
- ☐ Environmental impact assessment
- ☐ Certified copy of agreement from each property owner involved, if more than one

Specify the other documents submitted with this form (mark with an X)

- ☐ Other: (specify)
- ☐ Other: (specify)
- ☐ Other: (specify)
- ☐ Other: (specify)

[illegible]

8.2 Succession transfer and source Part 2 details

Source Register number

WU Number

WU Status to be allocated

WU Close Date (if applicable)
(ccyyymmdd)

[illegible]

8.3 District Municipality

District Municipality Name (if applicable)

8.4 Late Registration Penalty

Is this a late registration?

- ☐
- Yes
- ☐
- No

If yes, mark with an X, the applicable penalty to be levied

- ☐ R300.00 OR
- ☐ 10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable

- ☐
- Waive penalty



water affairs

Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

Registration / Licensing

Section 21(i) of the National Water Act

Part 2

ALTERING THE BED, BANKS, COURSE OR CHARACTERISTICS OF A WATERCOURSE

SPECIAL NOTE

This form is not applicable for any structure that impedes or diverts flow.
For these structures, please complete form DW763/775

1. GENERAL INFORMATION

Mark the applicable option(s) with an X and/or complete details where applicable/available.

- 1.1 Have you already registered a water use with the Department of Water Affairs and Forestry? ☐ Yes ☒ No

Registration Number:

--	--	--	--	--	--	--	--	--	--

Water Use Number:

--	--	--	--

☐ Licence Related WU

RLA Reference

--	--	--	--	--	--	--	--	--	--

NRWU Licence Number

								/		
--	--	--	--	--	--	--	--	---	--	--

RLA Business Unit

--	--	--	--	--	--	--	--	--	--	--

(NRWU = National Register of Water Use; RLA = Responsible Licensing Authority; WU = Water Use)

1.2 Applicant Type (mark only one block with X)

- ☐ Individual (complete 1.3) ☐ Provincial Department (complete 1.6)
☒ Company, business, partnership or community (complete 1.4) ☐ Water Services Provider (complete 1.7)
☐ National Department (complete 1.5) ☐ Water User Association (complete 1.8)

1.3 If the applicant is an individual

1.3.1 Title Surname Initials

For office use only

Allocated Reg. No.

--	--	--	--	--	--	--	--

WU No.

--	--	--	--

1.3.2 South African ID (If holder of South African Id) alternatively Passport Number:

ID Number or Passport Number

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Passport Expiry Date (ccyymmdd)

--	--	--	--	--	--	--	--	--	--	--	--

Passport Country Of Issue

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

1.4 If the applicant is a company, business, partnership or community:**1.4.1 Name of company, business, partnership or community:**

LIMPOPO COAL COMPANY (PTY) LTD

1.4.2 Business Enterprise Registration Number

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

1.4.3 Date Established (ccyymmdd)

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Country Where Established

RSA

1.5 If the applicant is a National Department:**1.5.1 National Department Name:**

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

1.6 If the applicant is a Provincial Department:**1.6.1 Province:**

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

1.6.2 Provincial Department Name:

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

1.7 If the applicant is a Water Services Provider:**1.7.1 Name of WSP:**

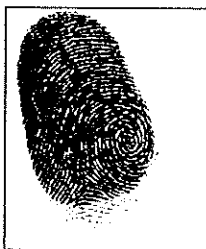
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

1.8 If the applicant is a Water User Association:**1.8.1 Name of WUA:**

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Declaration by applicant

Delete the words that are not applicable I BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Thumb print

Signature

Designation of signatory

(011) 785 4518

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

2. SUCCESSION/TRANSFER AND SOURCE PART 2 DETAILS

- 2.1 Is this a "succession-in-title" related Water Use? ☐ Yes
(Mark only one box with an X) ☒ No

2.2 If yes, complete the following source details

- 2.3 Source Register Number WU Number
- Source Register Number WU Number
- Source Register Number WU Number

3. WATER RESOURCE INFORMATION

- 3.1 Name of water source
UNNAMED TRIBUTARY OF LIMPOPO RIVER
- 3.2 Type of water source
☒ River/stream ☐ Estuary ☐ Spring/Eye ☐ Wetland ☐ Dam ☐ Lake
- 3.3 Quaternary Drainage Region A71L

4. DETAILS OF WATER USE ACTIVITY

- 4.1 Name of alteration
PIPELINE STREAM CROSSING #3
- 4.2 Location of the alteration
- a) Geographic location of the start of the alteration
- Latitude S 22 ° 10 ' 18 " S or S ° ' " or S ° ' "
- Longitude E 29 ° 39 ' 52 " 6 or E ° ' " or E ° ' "
- Datum Type: ☐ Cape (Modified Clarke 1880) ☒ WGS-84
- b) Geographic location of the end of the alteration (if different from the start)
- Latitude S ° ' " or S ° ' " or S ° ' "
- Longitude E ° ' " or E ° ' " or E ° ' "
- Datum Type: ☐ Cape (Modified Clarke 1880) ☐ WGS-84
- 4.3 Length of watercourse affected by the alteration 1 metres
- 4.4 Type of alteration (mark all applicable with an X)
- ☒ Bed ☒ Banks ☒ Course ☐ Other (specify below)
-

4.5 Purpose of the alteration
WATER SUPPLY PIPELINE

4.6 The activity is (mark only one block with X) ☐ Temporary ☒ Permanent

4.7 Start date of the alteration Start Date (ccyymmdd)
20100301

4.8 End date of the alteration (if temporary) End Date (ccyymmdd)
 [][][][][][][][]

4.9 Enter the number of alterations on this property [][] **3**

5. DESCRIPTION OF WATER USE SECTOR(S)

5.1 Where applicable select one or more of the following water use sectors

- | | |
|--|---|
| <input type="checkbox"/> Agriculture: Aquaculture | <input type="checkbox"/> Industry (Urban) |
| <input type="checkbox"/> Agriculture: Irrigation | <input checked="" type="checkbox"/> Mining |
| <input type="checkbox"/> Agriculture: Watering Livestock | <input type="checkbox"/> Power Generation |
| <input type="checkbox"/> Evaporation (Storage) | <input type="checkbox"/> Recreation |
| <input type="checkbox"/> Industry (Non-urban) | <input type="checkbox"/> Water Supply Service |

6. EXISTING AUTHORISATION

6.1 Water use started on Date (ccyymmdd)
 [][][][][][][][]

6.2 If water use is an existing water use, mark with X and enter permit numbers

	Permit number	<input type="checkbox"/> Date (ccyymmdd)
Permit No.	[][][][][][][][]	[][][][][][][][]
Permit No.	[][][][][][][][]	[][][][][][][][]
Permit No.	[][][][][][][][]	[][][][][][][][]
Permit No.	[][][][][][][][]	[][][][][][][][]
Permit No.	[][][][][][][][]	[][][][][][][][]
Permit No.	[][][][][][][][]	[][][][][][][][]

6.3 If water use is in terms of the General Authorisation, mark with X ☐

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

<u>Date(s) from which applicable GA is/was applicable to this water use</u>			
South African Act:		Applicable section of the act	
[E.g. National Water Act (Act No. 36 of 1998)]		[E.g. Section 21]	
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			

6.4 If an authorisation has been issued under other legislation

Law /Regulation

7. PROPERTY RELATIONSHIP DETAILS (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property				Property Relationship		
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property	Surname of the Leader of Village, Community or Tribal Authority	Initial of the Leader of Village, Community or Tribal Authority	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)	From:	To:
Overvalable 125 MS											

8.1.1 Specify the number of other documents submitted with this form, if any

- ☐ Motivation for the proposed alteration
- ☐ Environmental impact assessment
- ☐ Certified copy of agreement from each property owner involved, if more than one

Specify the other documents submitted with this form (mark with an X)

- ☐ Other: (specify)

[illegible]

8.2 Succession transfer and source Part 2 details

Source Register number

WU Number

WU Status to be allocated

WU Close Date (if applicable)
(ccyyymmdd)

[illegible]

8.3 District Municipality

District Municipality Name (if applicable)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 104

8.4 Late Registration Penalty

Is this a late registration?

- ☐ Yes ☐ No

If yes, mark with an X, the applicable penalty to be levied

- ☐ R300.00 OR
- ☐ 10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable

Figure 1

- ☐
- Waive penalty

File number

[illegible]

Water Use Register Number

--	--	--	--	--	--	--	--

Received by:

Surname

Initials

--	--	--	--

Position / Rank

Signature

Captured on NRWU database (ccyymmdd)

[illegible]

Captured by:

Surname

Initials

--	--	--	--

Signature

Date stamp of receiving office

Date stamp of receiving office

PART 2 – SECTION 21(j)

1. DEWATERING OF VELE OPENCAST PIT

ASSOCIATED FORMS:

- 1. DW767: OPENCAST DIRTY WATER DAM (Refer to S21(g))**
- 2. DW765: DUST SUPPRESSION (Refer to S21(e))**



water affairs

Department:
Water Affairs
REPUBLIC OF SOUTH AFRICA

Part 2: REMOVING, DISCHARGING OR DISPOSING OF WATER FOUND UNDERGROUND IF IT IS NECESSARY FOR THE EFFICIENT CONTINUATION OF AN ACTIVITY OR FOR THE SAFETY OF PEOPLE IN TERMS OF SECTION 21(j) OF THE NATIONAL WATER ACT (ACT NO.36 OF 1998)

1. GENERAL INFORMATION

Mark the applicable option(s) with an X and/or complete details where applicable/available.

- 1.1 Indicate the nature of this application: ☒ Licence ☐ Registration (only)

- 1.2 Have you already registered a water use with the Department of Water Affairs and Forestry?** ☐ Yes ☒ No
Registration number:

Registration number:

--	--	--	--	--	--	--	--

Water use number:

--	--	--	--

- 1.3 Applicant Type** (mark only one block with X)

- ☐ Individual (complete 1.3)
 ☐ Provincial Department (complete 1.6)
- ☒ Company, business, partnership or community (complete 1.4)
 ☐ Water Services Provider (complete 1.7)
- ☐ National Department (complete 1.5)
 ☐ Water User Association (complete 1.8)

- #### 1.4 If the applicant is an individual

- 1.4.1** Title Surname Initials

--	--	--	--	--

- 1.4.2 South African ID (if holder of South African Id) alternatively Passport Number:**

ID Number or Passport Number

[illegible]

Passport Expiry Date (ccyyymmdd)

--	--	--	--	--	--	--

Passport Country Of Issue

© 2017 Pearson Education, Inc. or its affiliate(s). All rights reserved.

- 1.5 If the applicant is a company, business, partnership or community:**

- 1.5.1** Name of company, business, partnership or community:

LIMPOPO COAL COMPANY (PTY) LTD

- ### 1.5.2 Business Enterprise Registration Number

		0	0	6	0	7	2	1	0	7
--	--	---	---	---	---	---	---	---	---	---

- 1.5.3** Date Established (ccyymmdd)

2	0	0	5	0	2	2	4
---	---	---	---	---	---	---	---

Country Where Established

ESA

- 1.6 If the applicant is a National Department:**

- 1.6.1 National Department Name:**

For office use only

Allocated Reg. No.

--	--	--	--	--	--	--	--

WU No.

--	--	--	--

1.7 If the applicant is a Provincial Department:**1.7.1** Province: **1.7.2** Provincial Department Name: **1.8 If the applicant is a Water Services Provider:****1.8.1** Name of WSP: **1.9 If the applicant is a Water User Association:****1.9.1** Name of WUA: **Declaration by applicant or waste discharger**

Delete the words that are not applicable ~~to~~ BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Signature

Company Representative
Designation of signatory

Thumb print

(011) 785 4518

Contact number during office hours

2009/11/05

Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.

2. WATER RESOURCE INFORMATION

2.1 Name of the place or aquifer from which water is removed

VELE COLLIERY OPENCAST PIT

2.2 Type of water source receiving the discharged water (mark only one block with an X)

☐ River / stream

☐ Dam

☐ Estuary

☐ Wetland

☐ Lake

☐ Marine outfall pipeline

☒ Other

(Description of other Dirty water dam.)

Reason for dust suppression

2.3 Geographic location of the removal point

Latitude S 22° 09' 31.2" or S ° ' " or S ° ' "

Longitude E 29° 40' 42.8" or E ° ' " or E ° ' "

Datum Type:

☐ Cape (Modified Clarke 1880)

☒ WGS-84

2.4 Drainage Region Details:

Quaternary Drainage Region

A71L

3. DESCRIPTION OF WATER USE

3.1 Volume of underground water removed

a) Total volume of underground water removed per year

109500 Cubic metres

b) Maximum volume of underground water removed per day

500 Cubic metres

3.2 Disposal or discharge of underground water (mark with an X)

☐ Water is discharged

Please also complete form DW766/DW780

☒ Water is disposed

Please also complete form DW767/DW780

☐ Water is stored

Please also complete form DW762

4. PROPERTY RELATIONSHIP DETAILS (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property				Unsurveyed property	Property Relationship	
	Title Deed Number	Surveyor-General Cadastral Code	Property Number	Portion of property		Date From:	To:
Overlaid			T44946/2009		Surname of the Leader of Village, Community or Tribal Authority		
			MS		Initial of the Leader of Village, Community or Tribal Authority		
			125		Local Authority (if applicable)		
			3 + 4		Magisterial District (if applicable)		
Overlaid			T22619/2009		Surname of the Leader of Village, Community or Tribal Authority		
			MS		Initial of the Leader of Village, Community or Tribal Authority		
			125		Local Authority (if applicable)		
			S		Magisterial District (if applicable)		
					Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority		
					Initial of the Leader of Village, Community or Tribal Authority		
					Local Authority (if applicable)		
					Magisterial District (if applicable)		
					Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority		
					Initial of the Leader of Village, Community or Tribal Authority		
					Local Authority (if applicable)		
					Magisterial District (if applicable)		
					Tribal Authority/Council (if applicable)		
					Surname of the Leader of Village, Community or Tribal Authority		
					Initial of the Leader of Village, Community or Tribal Authority		
					Local Authority (if applicable)		
					Magisterial District (if applicable)		
					Tribal Authority/Council (if applicable)		

5. AUTHORISATION DETAILS

5.1 Water use takes/took place in terms of the General Authorisation: ☐ Yes ☐ No

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

Date(s) from which applicable GA is/was applicable to this water use	
South African Act:	Applicable section of the act
[E.g. National Water Act (Act No. 36 of 1998)]	[E.g. Section 21]
Date From (ccyymmdd) <input type="text"/>	Government Notice No. <input type="text"/>
Date To (ccyymmdd) <input type="text"/>	Government Notice Date (ccyymmdd) <input type="text"/>
Applicable Section Of The General Authorisation <input type="text"/>	
Date From (ccyymmdd) <input type="text"/>	Government Notice No. <input type="text"/>
Date To (ccyymmdd) <input type="text"/>	Government Notice Date (ccyymmdd) <input type="text"/>
Applicable Section Of The General Authorisation <input type="text"/>	
Date From (ccyymmdd) <input type="text"/>	Government Notice No. <input type="text"/>
Date To (ccyymmdd) <input type="text"/>	Government Notice Date (ccyymmdd) <input type="text"/>
Applicable Section Of The General Authorisation <input type="text"/>	

5.2 If an authorisation has been issued under other legislation – provide the Law/Regulation details if known/available.

5.3 If this application represents a licence related water use (new licence application or previously submitted application) – complete following details if known/available.

Responsible Licensing Authority Reference

Responsible Licensing Authority Business Unit

6. LIST OF SUPPORTING TECHNICAL INFORMATION

Mark with an X if these documents have been submitted with this application

- ☒ Environmental impact assessment
☐ Certified copy of property zoning document
☒ Geohydrological report
☐ Topographic map (1:50 000) or orthophoto (1:10 000) of location of water removal

Other (specify other documents submitted with this form)

D	W	7	6	7	Dirty water dam	<input checked="" type="checkbox"/>
D	W	7	6	5	Dust suppression	<input checked="" type="checkbox"/>
D	W					<input type="checkbox"/>

7. THIS SECTION IS RESERVED FOR OFFICE USE ONLY

7.1 Is this a 'succession in title' related water use transfer? ☐ Yes ☐ No

7.2 Succession transfer and source Part 2 details

Source Register number	WU Number	WU Status to be allocated	WU Close Date (if applicable) (ccyymmdd)

7.3 Billing Information

7.3.1 Applicant to be billed as	<input type="checkbox"/> An Individual	<input type="checkbox"/> Via a WUA / WSP	Start date (ccyymmdd)	End date (ccyymmdd)
7.3.2 Billing frequency	<input type="checkbox"/> Annually	<input type="checkbox"/> Bi-annually	<input type="checkbox"/> Monthly	

7.3.3 If to be billed via a WUA / WSP

Name of WUA / WSP

Is WUA / WSP a Billing Agent? ☐ Yes ☐ No

Billing Agent's Register Number

7.3.4 If this WU is to be billed via a Bulk Billing Party that is not a WSP / WUA, complete the following:

Name of Customer

Bulk-Bill-to-Party Register Number

7.4 Volume Reduction

	Existing Water Use	Proposed Water Use	Start date (ccyymmdd)	End date (ccyymmdd)
7.4.1				
7.4.2				

7.5 District Municipality

District Municipality Name (if applicable)

7.6 Late Registration Penalty

Is this a late registration?

☐ Yes☐ No

If yes, mark with an X, the applicable penalty to be levied

☐ R300.00 OR☐ 10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable

☐ Waive penalty

File number (i.e. Office Hardcopy Register File No)

Water Use Register Number

Received by:

Surname

Initials

Position / Rank

Signature

Date (ccyymmdd)

Captured on NRWU database

Captured by:

Surname

Initials

Signature

Date stamp of receiving office

Quality Assurance Executed by:

Surname

Initials

Position / Rank

Signature

Date (ccyymmdd)

Department:
Water Affairs & Forestry
REPUBLIC OF SOUTH AFRICA

Part 2

TAKING WATER FROM A WATER RESOURCE

1. WATER USE DETAILS

- ☒
- No

[illegible]

--	--	--	--

- [illegible]

[illegible][illegible]

1.2 Applicant Type (mark only one block with X)

- ☐ Water User Association (complete 1.8)

- ### 1.3 If the applicant is an individual

- | 1.3.1 | Title | Surname | Initials |
|-------|-------|---------|----------|
| | | | |

- 1.3.2 South African ID (if holder of South African Id) alternatively Passport Number:**

[illegible][illegible]

Passport Country Of Issue

For office use only

Allocated Reg. No.

--	--	--	--	--	--	--	--

WU No.			
--------	--	--	--

1.4 If the applicant is a company, business, partnership or community:

1.4.1 Name of company, business, partnership or community:

LIMPOPO COAL COMPANY (PTY) LTD

1.4.2 Business Enterprise Registration Number

006072107

1.4.3 Date Established (ccyymmdd)

20050224

Country Where Established

RSA

1.5 If the applicant is a National Department:

1.5.1 National Department Name:

1.6 If the property owner is a Provincial Department:

1.6.1 Province:

1.6.2 Provincial Department Name:

1.7 If the property owner is a Water Services Provider:

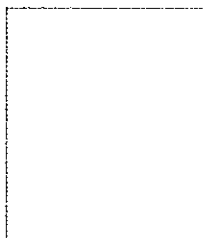
1.7.1 Name of WSP:

1.8 If the property owner is a Water User Association:

1.8.1 Name of WUA:

Declaration by applicant

Delete the words that are not applicable I/we _____ (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.



Signature

Thumb print

Contact number during office hours

Designation of signatory

Date (ccyy/mm/dd):

It is a criminal offence to provide information that is false or misleading.

1.4 If the applicant is a company, business, partnership or community:

1.4.1 Name of company, business, partnership or community:

LIMPOPO COAL COMPANY (PTY) LTD

1.4.2 Business Enterprise Registration Number

006072107

1.4.3 Date Established (ccymmdd)

20050224

Country Where Established

RSA

1.5 If the applicant is a National Department:

1.5.1 National Department Name:

1.6 If the applicant is a Provincial Department:

1.6.1 Province:

1.6.2 Provincial Department Name:

1.7 If the applicant is a Water Services Provider:


1.7.1 Name of WSP:

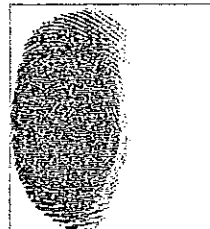
1.8 If the applicant is a Water User Association:

1.8.1 Name of WUA:

Declaration by applicant

Delete the words that are not applicable I/we BALDWIN KHOSA (FULL NAME(S)) hereby declare that the information provided by me/us in this application form is, to the best of my/our knowledge, true and correct.

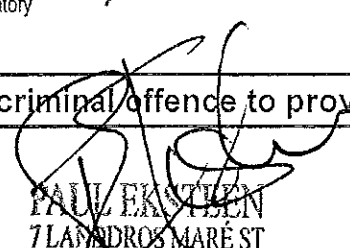

Signature
Company Representative
Designation of signatory



Thumb print

(011) 785 4518
Contact number during office hours
2009/11/05
Date (ccyy/mm/dd)

It is a criminal offence to provide information that is false or misleading.


PAUL EKSTEEN
7 LAFAYETTE MARÉ ST
POLOKWANE 0700
COMMISSIONER OF OATHS
KOMMISSARIS VAN EDE
ASSESSOR - LEKANA TRADING CC
LIMPOPO PROVINCE
REF NO: 9/1/8/2 POLOKWANE

02.05.2010.

2. SUCCESSION/TRANSFER AND SOURCE PART 2 DETAILS

- 2.1 Is this a Succession or a Transfer related Water Use? ☐ Yes
(Mark only one box with an X) ☒ No
- 2.2 If yes, mark with an X the Succession / Transfer Type ☐ Full Temporary Transfer ☐ Partial Temporary Transfer
☐ Permanent Transfer ☐ Succession in Title
- 2.3 Source Register Number

 WU Number

Source Register Number

 WU Number

Source Register Number

 WU Number

3. WATER RESOURCE INFORMATION

- 3.1 Name of water resource VELE COLLIERY OPENCAST PIT
- 3.2 Name or reference number of abstraction point (if any)
- 3.3 Type of water source (mark only one with X) ☐ River / stream ☐ Spring / Eye ☐ Borehole ☐ Dam ☐ Estuary
☐ Wetland ☐ Lake ☐ GWS (scheme) ☐ Boreholes And Windmills On Government Land
If water source is government water scheme, give the name: Opencast dewatering 216j
- 3.4 Geographic location of the abstraction point
- Latitude S 22° 09' 31.2" or S ° ' " or S ° ' "
- Longitude E 29° 40' 42.8" or E ° ' " or E ° ' "
- Datum Type: ☐ Cape (Modified Clarke 1880) ☒ WGS-84
- 3.5 Reliability of water resource (mark only one with an X)
☐ Water always available ☒ Dry during certain seasons ☐ Frequently Dry
- 3.6 Quaternary Drainage Region A71L

4. DESCRIPTION OF WATER USE

- 4.1 Select only one WU sector – purpose of the WU: (NB: Complete a separate DW760/773 form for each sector if more than one is applicable)
- | | |
|---|--|
| <input type="checkbox"/> Agriculture: Aquaculture | <input type="checkbox"/> Power Generation (also complete DW788) |
| <input type="checkbox"/> Agriculture: Irrigation (also complete form DW787) | <input type="checkbox"/> Recreation |
| <input type="checkbox"/> Agriculture: Watering Livestock | <input type="checkbox"/> Schedule 1 |
| <input type="checkbox"/> Industrial (also complete form DW788) | <input type="checkbox"/> Urban (excl. Domestic &/or Industrial) |
| <input checked="" type="checkbox"/> Mining (also complete form DW788) | <input type="checkbox"/> Water Supply Service (also complete form DW789) |

4.2 Period of water use

Date of first use or proposed first use
(ccyymmdd)

20100101

End date (if applicable)
(ccyymmdd)

4.3 Volume of water abstracted (*minus a realistic estimate of the transmission losses in the case of a WUA / WSP related water use)

*WU / WSP: Transmission Loss
(taken into account i.r.o gross volume)

	Start date (ccyymmdd)	Volume	m ³	Time interval (mark only one with X)			
a)	20100101	109500		<input type="checkbox"/> Daily	<input type="checkbox"/> Monthly	<input checked="" type="checkbox"/> Annually	
b)				<input type="checkbox"/> Daily	<input type="checkbox"/> Monthly	<input type="checkbox"/> Annually	
c)				<input type="checkbox"/> Daily	<input type="checkbox"/> Monthly	<input type="checkbox"/> Annually	

4.4 Estimated water abstraction pattern:

in total cubic meters ☒ or % per month ☐

Jan	300	Apr	300	Jul	300	Oct	300
Feb	300	May	300	Aug	300	Nov	300
Mar	300	Jun	300	Sep	300	Dec	300

4.5 Method of abstraction (mark with an X the abstraction method currently used or to be installed)

☒ Pump * ☐ Canal ☐ Gravity or outlet pipe ☐ Other (specify) **

* Also complete supplementary form DW784pmp ('Taking water from a water resource – pump technical data'), if 'pump' was selected.

** If the method of abstraction is not PUMP / CANAL / GRAVITY OR OUTLET PIPE, please define method utilised:

4.6 Number of households served with water (if known)

4.7 Is this water provided by a Water User Association or Water Services Provider?

☐ WUA☐ WSP

4.8 Name of Water User Association / Water Services Provider:

5. EXISTING AUTHORISATION AND REGISTRATION (PERMIT INFORMATION)

5.1 Existing permit information

Permit number

Date (ccyymmdd)

Permit No.	
Permit No.	
Permit No.	
Permit No.	
Permit No.	
Permit No.	

5.2 If water use takes place in terms of the General Authorisation, mark with an X

☐

*If yes complete the following details after confirmation with relevant DWAF/CMA officials:

<u>Date(s) from which applicable GA is/was applicable to this water use</u>			
South African Act:		Applicable section of the act	
[E.g. National Water Act (Act No. 36 of 1998)]		[E.g. Section 21]	
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			
Date From (ccyymmdd)	<input type="text"/>	Government Notice No.	<input type="text"/>
Date To (ccyymmdd)	<input type="text"/>	Government Notice Date (ccyymmdd)	<input type="text"/>
Applicable Section Of The General Authorisation			

5.3 If an authorisation has been issued under other legislation

Law /Regulation

6. SUBSIDY DETAILS

6.1 Resource Poor Farmer (RPF)

Should this WU application be considered for RPF subsidy?

☐ Yes

☒ No

7. PROPERTY RELATIONSHIP DETAILS (Complete supplementary forms DW901 & DW902)

Property Name	Surveyed Property			Unsurveyed property			Property Relationship Date			
	Title Deed Number	Surveyor-General Cadastral Code	Portion of property	Surveyor-General Cadastral Code	Portion of property	Local Authority (if applicable)	Magisterial District (if applicable)	Tribal Authority/Council (if applicable)	From:	To:
Overlakte	T 44946/2009	MS	3 + 4							
Overlakte	T 22619/2009	MS	5							

8.6 Late Registration Penalty

Is this a late registration?

☐ Yes☐ No

If yes, mark with an X, the applicable penalty to be levied

☐ R300.00 OR☐ 10% (ten percent) of the annual water use charge outstanding at the date of registration which ever is greater

Specify the penalty amount payable

☐ Waive penalty

File number

Water Use Register Number

Received by:

Surname

Initials

Position / Rank

Signature

Captured on NRWU database
(ccyymmdd)

Captured by:

Surname

Initials

Signature

Date stamp of receiving office