Harry's Dam

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?

(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)
- ☒ Company, business, partnership or community (complete 1.7)
- ☐ National Department (complete 1.8)
- ☐ Provincial Department (complete 1.9)
- ☐ Water Services Provider (complete 1.10)
- ☐ 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:

SILICON SMELTERS (PTY) LTD. RAND CARBIDE

1.7.2 Business Enterprise Registration Number: 9 8 0 1 9 0 3 6 / 0 7

1.7.3 Date Established (ccyymmdd): 1 9 9 8 0 9 2 5

Country Where Established: REPUBLIC OF SOUTH AFRICA

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:

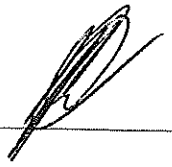
1.11 If the property owner is a Water User Association:

1.11.1 Name of WUA:

Declaration by applicant or waste discharger

Delete the words that are not applicable I/we CORNELIUS MULLER BESTER

(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

GENERAL MANAGER

Designation of signatory

Thumb print

Contact number during office hours

2012-08-22

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

CONTAMINATED STORM WATER RUNOFF FROM THE SITE

2.5 Discharge to a land based facility

2.5.1 Water use start & end date

When did/will this water use start? (ccyymmdd)

When did/will this water use end? (If applicable) (ccyymmdd)

2	0	1	6	0	1	0	1

2.5.2 The total volume of waste / waste water discharged per year:

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

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
	☐ Yes ☐ No				
	☐ Yes ☐ No				
	☐ Yes ☐ No				
	☐ Yes ☐ No				

2.5.6 Average disposal volume / discharge volume onto the land / facility

Average disposal volume (cubic meters)		Time Interval: ☐ Per Month	☐ Per Annum
Maximum disposal volume anticipated (cubic meters)		Time Interval: ☐ Per Month	☐ 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)	7.97		
Temperature (°C)			
Acidity (mg/l)			
Alkalinity (mg/l)	143		
Aluminium (mg/l)	0.01		
Ammonia (mg/l)			
Arsenic (mg/l)	< 0.01		
Barium (mg/l)			
Boron (mg/l)			
Bromide (mg/l)			
Cadmium (mg/l)	< 0.003		
Calcium (mg/l)	95		
Chemical oxygen demand (mg/l)	34		
Chloride (mg/l)	47		
Chromium (mg/l)	< 0.01		
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)	< 0.01		
Copper (mg/l)	0.02		
Cyanide (mg/l)			
Fluoride (mg/l)	0.6		
Iron (mg/l)			
Lead (mg/l)	< 0.01		
Lithium (mg/l)			
Magnesium (mg/l)	22		
Manganese (mg/l)			
Mercury (mg/l)	< 0.001		
Molybdenum (mg/l)			
Nickel (mg/l)	0.01		
Phenol (mg/l)	< 0.005		
Potassium (mg/l)	21		
Radionuclides (mg/l)			
Soap, oil or grease (mg/l)			
Sodium (mg/l)	38		
Sulphate (mg/l)	180		
Tin (mg/l)			
Total dissolved solids (mg/l)	544		
Total suspended solids (mg/l)			
Total nitrogen (mg/l)			
Total phosphorus (mg/l)			
Uranium (mg/l)			
Vanadium (mg/l)	< 0.01		
Zinc (mg/l)	0.02		

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:

DOORNPOORT DAM

c) Distance to the nearest water resource (meters) | | | | 6 | 5 | 0 | 0 |

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

FOUR (4) SPRINGS OCCUR ON SITE

c) Distance to the nearest groundwater resource (meters) | | | | | | | |

3.2 Drainage Region Details

Quaternary Drainage Region | B | 1 | 1 | K |

3.3 Property Relationship Details *(Complete supplementary forms DW901 & DW902)*

Property Name	Surveyed Property		Unsurveyed property		Property Relationship Date From:	Property Relationship Date To:
PORTION 60 OF THE FARM JOUBERTSRUST 310 JS	Title Deed Number	T4136/2009	Surname of the Leader of Village, Community or Tribal Authority		2009	CURRENT
	Surveyor-General Cadastral Code	T0JS00000000031000060	Initial of the Leader of Village, Community or Tribal Authority			
	Property Number	310	Local Authority (if applicable)			
	Portion of property	60	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)			
	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)			
	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)			
	Portion of property		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.)

- ☐ 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: STORM WATER RUNOFF

4.1.2 Approximate maximum volume/tonnage per site per 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)

HARRY'S DAM (STORMWATER MANAGEMENT DAM)

4.2.2 Select the type of waste disposal site (Mark only one box with an X)

Waste Management Facility Type

Artificial Wetlands	Select with X	Size (ha)	Estimated lifetime (y)	Disposal started on: (ccyymmdd)	Disposal ceased on: (if applicable) (ccyymmdd)
Ash Dams / Dumps	☐	☐☐☐	☐☐☐	☐☐☐☐☐☐☐☐	☐☐☐☐☐☐☐☐
Coal Dams	☐	☐☐☐	☐☐☐	☐☐☐☐☐☐☐☐	☐☐☐☐☐☐☐☐
Composting	☐	☐☐☐	☐☐☐	☐☐☐☐☐☐☐☐	☐☐☐☐☐☐☐☐
Domestic Waste	☐	☐☐☐	☐☐☐	☐☐☐☐☐☐☐☐	☐☐☐☐☐☐☐☐
Effluent Dams	☐	☐☐☐	☐☐☐	☐☐☐☐☐☐☐☐	☐☐☐☐☐☐☐☐
Evaporation Dams/Ponds	☐	☐☐☐	☐☐☐	☐☐☐☐☐☐☐☐	☐☐☐☐☐☐☐☐
Forced Evaporation	☐	☐☐☐	☐☐☐	☐☐☐☐☐☐☐☐	☐☐☐☐☐☐☐☐
Maturation Ponds	☐	☐☐☐	☐☐☐	☐☐☐☐☐☐☐☐	☐☐☐☐☐☐☐☐

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)	☐				
Open Cast Voids	☐				
Oxidation Ponds	☐				
Polluted Storm Water System	☒	.75			20160101
Recycling	☐				
Return Water Dams	☐				
Silt Dams	☐				
Slag Dumps	☐				
Slimes/Tailings Dams	☐				
Sludge Drying Beds	☐				
Sludge Ponds/Lagoons	☐				
Waste Rock Dump	☐				
Waste Storage	☐				
Waste Treatment Plant	☐				

(Specify) Chargold waste reprocessing plant

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 7 8 5	☒
D W 7 8 8	☒
D W 7 5 8	☒

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	☐ 0%	☐ 0.75%	☐ 1.5%
	Evaporation Dams/Ponds		Salinity, pH, SO_4, Cl, Na, heavy metals	☐ 0%	☐ 0.75%	☐ 1.5%
	Effluent Dams		Salinity, pH, SO_4, Cl, Na, heavy metals	☐ 0%	☐ 0.75%	☐ 1.5%
	Return Water Dam		Salinity, pH, SO_4, Cl, Na, heavy metals	☐ 0%	☐ 0.75%	☐ 1.5%
	Forced Evaporation		Salinity, pH, SO_4, Cl, Na, heavy metals	☐ 0%	☐ 0.75%	☐ 1.5%
	Ash Dams/Dumps		Salinity, pH, SO_4, Cl, Na, heavy metals	☐ 0%	☐ 0.75%	☐ 1.5%
	Open Cast Voids		Salinity, pH, SO_4, Cl, Na, heavy metals	☐ 0%	☐ 0.75%	☐ 1.5%
	Waste Rock Dump		Salinity, pH, SO_4, Cl, Na, heavy metals	☐ 0%	☐ 0.75%	☐ 1.5%
	Polluted Storm Water System		Salinity, pH, SO_4, Cl, Na, heavy metals	☐ 0%	☐ 0.75%	☐ 1.5%

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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	☐ **0%**	☐ **1%**	☐ **10%**
		Clay liner	Salinity, pH, SO_4, Cl, Na, heavy metals	☐ **0%**	☐ **2.5%**	☐ **10%**
	Maturation Ponds		Salinity, pH, SO_4, Cl, Na, heavy metals	☐ **0%**	☐ **10%**	☐☐☐ **%**
	Coal Dams	Clay liner and seepage drains	Salinity, pH, SO_4, heavy metals	☐ **0%**	☐ **1%**	☐ **10%**
	Polluted Storm Water System	Collection and containment facilities	Salinity, pH, SO_4, Cl, Na, heavy metals	☐ **0%**	☐ **1%**	☐ **100%** (no system)
		System captures 1:100 year storm-event	Salinity, pH, SO_4, Cl, Na, heavy metals	☐ **0%**	☐ **1%**	**60-80%** (system overflows 1:2 to 1:5 years) ☐☐☐ **%**

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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	☐ **0%**	☐ **0.5%**	☐ **7.5%**
			Salinity, pH, SO_4, Cl, Na, heavy metals	☐ **0%**	☐ **1%**	☐ **10%**
		Clay liner	Nutrients, COD, pathogens	☐ **0%**	☐ **1%**	☐ **7.5%**
			Salinity, pH, SO_4, Cl, Na, heavy metals	☐ **0%**	☐ **2.5%**	☐ **10%**
	Artificial Wetlands	Synthetic liner	Nutrients, COD, pathogens	☐ **0%**	☐ **0.5%**	☐ **7.5%**
			Salinity, pH, SO_4, Cl, Na, heavy metals	☐ **0%**	☐ **1%**	☐ **10%**
		Clay liner	Nutrients, COD, pathogens	☐ **0%**	☐ **1%**	☐ **7.5%**
			Salinity, pH, SO_4, Cl, Na, heavy metals	☐ **0%**	☐ **2.5%**	☐ **10%**
	Polluted Storm Water System	Collection and containment facilities, system captures 1:100 year storm event	Nutrients, COD, pathogens	☐ **0%**	☐ **1%**	☐ **100%** (no system)
			Salinity, pH, SO_4, Cl, Na, heavy metals	☐ **0%**	☐ **1%**	**60-80%** (system overflows 1:2 to 1:5 years) ☐☐☐ %

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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	☐ 0%	☐ 0.5%	☐ 7.5%
			Salinity, pH, SO_4, Cl, Na, heavy metals	☐ 0%	☐ 1%	☐ 10%
		Clay liner	Nutrients, COD, pathogens	☐ 0%	☐ 1%	☐ 7.5%
			Salinity, pH, SO_4, Cl, Na, heavy metals	☐ 0%	☐ 2.5%	☐ 10%
	Artificial Wetlands	Synthetic liner	Nutrients, COD, pathogens	☐ 0%	☐ 0.5%	☐ 7.5%
			Salinity, pH, SO_4, Cl, Na, heavy metals	☐ 0%	☐ 1%	☐ 10%
		Clay liner	Nutrients, COD, pathogens	☐ 0%	☐ 1%	☐ 7.5%
			Salinity, pH, SO_4, Cl, Na, heavy metals	☐ 0%	☐ 2.5%	☐ 10%
	Polluted Storm Water System		Nutrients, COD, pathogens	☐ 0%	☐☐☐ %	☐☐☐ %
			Salinity, pH, SO_4, Cl, Na, heavy metals	☐ 0%	☐☐☐ %	☐☐☐ %

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) _____

6.6 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 Quality Management Assessment:

Surname

Initials

Position / Rank

Signature

Date (ccyymmdd)

File number *(i.e. Office Hardcopy Register File No)*

Waste Management Facility Number

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)

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

HARRY'S DAM - CURRENT STORM 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 AND EVAPORATION OF CONTAMINATED STORM WATER RUNOFF FROM THE SITE

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

		2	0	0

meters

1.6 Lining of the site

a) The site is / will be ☐ Lined

b) If lined, the lining system is (Mark the applicable option with an X)
- ☐ Clay
- ☐ Composite lining system

1.7 **Total area of 'property' on which waste is disposed** 64 hectares

1.8 **Area of actual waste body ("footprint" area)** 0.75 hectares

1.9 **Dimensions of waste site**

	Height or depth	Length	Breadth	
a) At commencement	2	125	100	meters
b) After rehabilitation	0	0	0	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 500 m
- Informal residential area 1700 m
- Industrial Area 0 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 ° ' "	or S . °	or S 25 ° 51.787 '
Longitude	E ° ' "	or E . °	or E 29 ° 14.035 '
Datum Type:	☐ Cape (Modified Clarke 1880)	☒ WGS-84	
Latitude	S ° ' "	or S . °	or S 25 ° 51.822 '
Longitude	E ° ' "	or E . °	or E 29 ° 14.069 '
Datum Type:	☐ Cape (Modified Clarke 1880)	☒ WGS-84	
Latitude	S ° ' "	or S . °	or S 25 ° 51.861 '
Longitude	E ° ' "	or E . °	or E 29 ° 14.033 '
Datum Type:	☐ Cape (Modified Clarke 1880)	☒ WGS-84	
Latitude	S ° ' "	or S . °	or S 25 ° 51.814 '
Longitude	E ° ' "	or E . °	or E 29 ° 14.006 '
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 B 1 1

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	1996	1139	mm	872	mm	
2nd wettest	2000	885	mm	881	mm	
3rd wettest	2006	880	mm	805	mm	
4th wettest	1984	734	mm	852	mm	
5th wettest	2005	684	mm	842	mm	
6th wettest	1991	681	mm	667	mm	
7th wettest	1994	676	mm	787	mm	
8th wettest	1987	669	mm	848	mm	
9th wettest	2004	659	mm	842	mm	
10th wettest	1985	603	mm	851	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)

1.13 Details of the person in control of the site

Surname	BESTER		
Initials &/or First Name	CM		
Title	MR	ID No.	710608 5004 08 1
Phone Number	013 690-8245	Ext	
Fax Number	013 690-8380	Cellphone	
E-mail Address	nellis.bester@siliconsmelters.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)

2.2 Length of time of the operation

Start Date (ccyymmdd): | | | | | | | | |

End Date (ccyymmdd): | 2 | 0 | 1 | 6 | 0 | 1 | 0 | 1 |

2.3 Is sufficient cover material on site?

☐ Yes ☒ No

2.4 Covering and burning of waste (mark applicable options with an X)

- ☐ 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 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)	☐ Yes	☐ No
	Facility designed to ensure at least 5 days retention time	☐ Yes	☐ No
	Storm water and seepage collection drains in place	☐ Yes	☐ No
	Any other practice:		
Waste Water Ponds	Lined facility (synthetic or clay)	☐ Yes	☐ No
	Storm water collection drains in place	☐ Yes	☐ No
	Seepage drains in place	☐ Yes	☐ No
	Any other practice:		
Open Cast Voids	Diversion of upslope storm water around the void	☐ Yes	☐ No
	Upstream diversion berms or management measures to prevent inflow of water into the void	☐ Yes	☐ No
	Prevention of water flowing into the void by using highball drains where necessary	☐ Yes	☐ No
	Ensure any water within the void is contained	☐ Yes	☐ No
	Any other practice:		
Oxidation Ponds	Lined facility (synthetic or clay)	☐ Yes	☐ No
	Adequate structures in place to ensure capture of a 1:50 year storm event	☐ Yes	☐ No
	Seepage drains in place	☐ Yes	☐ No
	Storm water collection drains in place	☐ Yes	☐ No
	Any other practice:		
Polluted Stormwater System	Storm water discharged directly to the resource	☐ Yes	☒ No
	Collection system incorporating the plant, raw material stockpiles and waste disposal facilities	☒ Yes	☐ No
	Clean stormwater separated from stormwater draining "dirty" sites or facilities	☒ Yes	☐ No
	Polluted stormwater collected & stored in dams	☒ Yes	☐ 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	☐ Yes	☐ No
	Any other practice:		

Continued on next page

Sewage Treatment Works	Pump stations operational	☐ Yes	☐ No
	Emergency storage dam(s) available	☐ Yes	☐ No
	Adequate capacity in emergency storage dams	☐ Yes	☐ No
	Compliance with minimum discharge standards	☐ Yes	☐ No
	Stormwater collection system in place	☐ Yes	☐ No
	Adequate capacity to contain total volume	☐ Yes	☐ No
	Any other practice:		
Silt Dams	Lined facility (synthetic or clay)	☐ Yes	☐ No
	Stormwater collection system in place	☐ Yes	☐ No
	Seepage drains in place	☐ Yes	☐ No
	Any other practice:		
Slag Dumps	Stormwater collection system in place	☐ Yes	☐ No
	Seepage drains in place	☐ Yes	☐ No
	Separation of clean & dirty water	☐ Yes	☐ No
	Capacity to handle the 1:50 year storm event	☐ Yes	☐ No
	Collection of rainfall run-off into the dirty water storage facility	☐ Yes	☐ No
	After decommissioning, the top surface is shaped to suit drainage requirements and re-vegetated	☐ Yes	☐ No
	Implementation of under drainage systems to collect seepage for re-use as process water	☐ Yes	☐ No
	Any other practice:		
Slimes/Tailings Dams	Stormwater collection system in place	☐ Yes	☐ No
	Seepage drains in place	☐ Yes	☐ No
	Separation of clean & dirty water	☐ Yes	☐ No
	Capacity to handle the 1:50 year storm event	☐ Yes	☐ No
	Collection of rainfall run-off into the dirty water storage facility	☐ Yes	☐ No
	After decommissioning, the top surface is shaped to suit drainage requirements and re-vegetated	☐ Yes	☐ No
	Implementation of under drainage systems to collect seepage for re-use as process water	☐ Yes	☐ No
	Covering of side slopes with soil during the operational phase to assist in reducing any contact of rainfall runoff with the tailings	☐ Yes	☐ No
	Vegetation of side slopes to minimise erosion	☐ Yes	☐ 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 Quality Management Assessment:

Surname

Initials

Position / Rank

Signature

Date

File number *(i.e. Office Hardcopy Register File No)*

Waste Management Facility Number

Water Use Register Number

Received by:

Surname

Initials

Position / Rank

Signature

Date

Date stamp of receiving office

Captured on NRWU database

Captured by:

Surname

Initials

Signature

Quality Assurance Executed by:

Surname

Initials

Position / Rank

Signature

Date

New Storm Water Dam

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?

(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)
- ☒ Company, business, partnership or community (complete 1.7)
- ☐ National Department (complete 1.8)
- ☐ Provincial Department (complete 1.9)
- ☐ Water Services Provider (complete 1.10)
- ☐ 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:

SILICON SMELTERS (PTY) LTD - RAND CARBIDE

1.7.2 Business Enterprise Registration Number: 98/19036/07

1.7.3 Date Established (ccyymmdd): 19980925

Country Where Established: REPUBLIC OF SOUTH AFRICA

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:

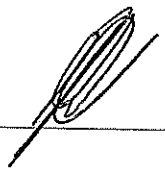
1.11 If the property owner is a Water User Association:

1.11.1 Name of WUA:

Declaration by applicant or waste discharger

Delete the words that are not applicable I/we CORNELIUS MULLER BESTER

(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

GENERAL MANAGER

Designation of signatory

Thumb print

Contact number during office hours

013 690 8245

Date (ccyy/mm/dd): 2012-08-22

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

Contaminated Storm Water Runoff from the site

2.5 Discharge to a land based facility

2.5.1 Water use start & end date

When did/will this water use start? (ccyymmdd): 2 0 1 2 0 1 0 1

When did/will this water use end? (If applicable) (ccyymmdd):

2.5.2 The total volume of waste / waste water discharged per year:

4 1 0 3 5 Cubic meters

2.5.3 The maximum volume of waste / waste water discharged on any given day:

2 3 7 Cubic meters

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		7 0 8 3	
February		5 4 1 7	
March		4 6 9 4	
April		2 6 8 8	
May		1 0 3 0	
June		4 9 2	
July		4 2 7	
August		4 1 9	
September		1 4 0 3	
October		3 9 8 0	
November		6 8 9 4	
December		6 5 0 8	

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
G	☐ Yes ☒ No	41 040/annum			
	☐ Yes ☐ No				
	☐ Yes ☐ No				
	☐ Yes ☐ No				

2.5.6 Average disposal volume / discharge volume onto the land / facility

Average disposal volume (cubic meters)	41 035	Time Interval:	☐ Per Month	☒ Per Annum
Maximum disposal volume anticipated (cubic meters)	7 083	Time Interval:	☒ Per Month	☐ 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)	7.97		
Temperature (°C)			
Acidity (mg/l)			
Alkalinity (mg/l)	143		
Aluminium (mg/l)	0.01		
Ammonia (mg/l)			
Arsenic (mg/l)	< 0.01		
Barium (mg/l)			
Boron (mg/l)			
Bromide (mg/l)			
Cadmium (mg/l)	< 0.003		
Calcium (mg/l)	95		
Chemical oxygen demand (mg/l)	34		
Chloride (mg/l)	47		
Chromium (mg/l)	< 0.01		
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)	< 0.01		
Copper (mg/l)	0.02		
Cyanide (mg/l)			
Fluoride (mg/l)	0.6		
Iron (mg/l)			
Lead (mg/l)	< 0.01		
Lithium (mg/l)			
Magnesium (mg/l)	22		
Manganese (mg/l)			
Mercury (mg/l)	< 0.001		
Molybdenum (mg/l)			
Nickel (mg/l)	0.01		
Phenol (mg/l)	< 0.005		
Potassium (mg/l)	21		
Radionuclides (mg/l)			
Soap, oil or grease (mg/l)			
Sodium (mg/l)	38		
Sulphate (mg/l)	180		
Tin (mg/l)			
Total dissolved solids (mg/l)	544		
Total suspended solids (mg/l)			
Total nitrogen (mg/l)			
Total phosphorus (mg/l)			
Uranium (mg/l)			
Vanadium (mg/l)	< 0.01		
Zinc (mg/l)	0.02		

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:

DOORNPOORT DAM

c) Distance to the nearest water resource (meters) | | | | 6 | 5 | 0 | 0 |

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

FOUR (4) NATURAL SPRINGS OCCUR ON THE PROPERTY

c) Distance to the nearest groundwater resource (meters) | | | | | 5 | 0 | 0 |

3.2 Drainage Region Details

Quaternary Drainage Region | B | 1 | 1 | K |

3.3 Property Relationship Details *(Complete supplementary forms DW901 & DW902)*

Property Name	Surveyed Property		Unsurveyed property		Property Relationship Date From:	To:
PORTION 60 OF THE FARM JOUBERTSRUST 310 JS	Title Deed Number	T4136/2009	Surname of the Leader of Village, Community or Tribal Authority		2009	CURRENT
	Surveyor-General Cadastral Code	T0JS000000000310000 60	Initial of the Leader of Village, Community or Tribal Authority			
	Property Number	310	Local Authority (if applicable)			
	Portion of property	60	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)			
	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)			
	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)			
	Portion of property		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.)

- ☐ Sewage Sludge
- ☐ Industrial Sludge
- ☐ Mining Waste
- ☐ Hazardous Waste
- ☐ Industrial Ash (all industries)
- ☐ Power Generation
- ☐ Household Refuse
- ☐ Farming Waste
- ☐ Dry Industrial Waste
- ☐ Industrial Liquid
- ☒ Other

Specify Other: STORM WATER RUNOFF

4.1.2 Approximate maximum volume/tonnage per site per day 237 m³

4.1.3 Approximate total tonnage per site per annum ☐☐☐☐☐☐☐ tons

☐☐☐☐☐☐☐ tons

4.2 Type of waste management facility DAM

4.2.1 Name of waste site or 'facility'

(Refer attached DW905 form)

STORM WATER CONTROL DAM

4.2.2 Select the type of waste disposal site (Mark only **one** box with an X)

Waste Management Facility Type

Artificial Wetlands	Select with X	Size (ha)	Estimated lifetime (y)	Disposal started on: (ccyymmdd)	Disposal ceased on: (if applicable) (ccyymmdd)
Ash Dams / Dumps	☐	☐☐☐	☐☐☐	☐☐☐☐☐☐☐☐	☐☐☐☐☐☐☐☐
Coal Dams	☐	☐☐☐	☐☐☐	☐☐☐☐☐☐☐☐	☐☐☐☐☐☐☐☐
Composting	☐	☐☐☐	☐☐☐	☐☐☐☐☐☐☐☐	☐☐☐☐☐☐☐☐
Domestic Waste	☐	☐☐☐	☐☐☐	☐☐☐☐☐☐☐☐	☐☐☐☐☐☐☐☐
Effluent Dams	☐	☐☐☐	☐☐☐	☐☐☐☐☐☐☐☐	☐☐☐☐☐☐☐☐
Evaporation Dams/Ponds	☐	☐☐☐	☐☐☐	☐☐☐☐☐☐☐☐	☐☐☐☐☐☐☐☐
Forced Evaporation	☐	☐☐☐	☐☐☐	☐☐☐☐☐☐☐☐	☐☐☐☐☐☐☐☐
Maturation Ponds	☐	☐☐☐	☐☐☐	☐☐☐☐☐☐☐☐	☐☐☐☐☐☐☐☐

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)	STORMWATER CONTAINMENT DAM				
Open Cast Voids	☐				
Oxidation Ponds	☐				
Polluted Storm Water System	☒	.66		20120101	
Recycling	☐				
Return Water Dams	☐				
Silt Dams	☐				
Slag Dumps	☐				
Slimes/Tailings Dams	☐				
Sludge Drying Beds	☐				
Sludge Ponds/Lagoons	☐				
Waste Rock Dump	☐				
Waste Storage	☐				
Waste Treatment Plant	☐				
(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)*

DW784	☒
DW788	☒
DW758	☒

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	☐ 0%	☐ 0.75%	☐ 1.5%
	Evaporation Dams/Ponds		Salinity, pH, SO_4, Cl, Na, heavy metals	☐ 0%	☐ 0.75%	☐ 1.5%
	Effluent Dams		Salinity, pH, SO_4, Cl, Na, heavy metals	☐ 0%	☐ 0.75%	☐ 1.5%
	Return Water Dam		Salinity, pH, SO_4, Cl, Na, heavy metals	☐ 0%	☐ 0.75%	☐ 1.5%
	Forced Evaporation		Salinity, pH, SO_4, Cl, Na, heavy metals	☐ 0%	☐ 0.75%	☐ 1.5%
	Ash Dams/Dumps		Salinity, pH, SO_4, Cl, Na, heavy metals	☐ 0%	☐ 0.75%	☐ 1.5%
	Open Cast Voids		Salinity, pH, SO_4, Cl, Na, heavy metals	☐ 0%	☐ 0.75%	☐ 1.5%
	Waste Rock Dump		Salinity, pH, SO_4, Cl, Na, heavy metals	☐ 0%	☐ 0.75%	☐ 1.5%
	Polluted Storm Water System		Salinity, pH, SO_4, Cl, Na, heavy metals	☐ 0%	☐ 0.75%	☐ 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	☐ **0%**	☐ **1%**	☐ **10%**
		Clay liner	Salinity, pH, SO_4, Cl, Na, heavy metals	☐ **0%**	☐ **2.5%**	☐ **10%**
	Maturation Ponds		Salinity, pH, SO_4, Cl, Na, heavy metals	☐ **0%**	☐ **10%**	☐☐☐ %
	Coal Dams	Clay liner and seepage drains	Salinity, pH, SO_4, heavy metals	☐ **0%**	☐ **1%**	☐ **10%**
	Polluted Storm Water System	Collection and containment facilities	Salinity, pH, SO_4, Cl, Na, heavy metals	☐ **0%**	☐ **1%**	☐ **100%** (no system)
		System captures 1:100 year storm-event	Salinity, pH, SO_4, Cl, Na, heavy metals	☐ **0%**	☐ **1%**	**60-80%** (system overflows 1:2 to 1:5 years) ☐☐☐ %

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	☐ **0%**	☐ **0.5%**	☐ **7.5%**
			Salinity, pH, SO_4, Cl, Na, heavy metals	☐ **0%**	☐ **1%**	☐ **10%**
		Clay liner	Nutrients, COD, pathogens	☐ **0%**	☐ **1%**	☐ **7.5%**
			Salinity, pH, SO_4, Cl, Na, heavy metals	☐ **0%**	☐ **2.5%**	☐ **10%**
	Artificial Wetlands	Synthetic liner	Nutrients, COD, pathogens	☐ **0%**	☐ **0.5%**	☐ **7.5%**
			Salinity, pH, SO_4, Cl, Na, heavy metals	☐ **0%**	☐ **1%**	☐ **10%**
		Clay liner	Nutrients, COD, pathogens	☐ **0%**	☐ **1%**	☐ **7.5%**
			Salinity, pH, SO_4, Cl, Na, heavy metals	☐ **0%**	☐ **2.5%**	☐ **10%**
	Polluted Storm Water System	Collection and containment facilities, system captures 1:100 year storm event	Nutrients, COD, pathogens	☐ **0%**	☐ **1%**	☐ **100%** (no system)
			Salinity, pH, SO_4, Cl, Na, heavy metals	☐ **0%**	☐ **1%**	**60-80%** (system overflows 1:2 to 1:5 years) ☐☐☐ %

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	☐ 0%	☐ 0.5%	☐ 7.5%
			Salinity, pH, SO_4, Cl, Na, heavy metals	☐ 0%	☐ 1%	☐ 10%
		Clay liner	Nutrients, COD, pathogens	☐ 0%	☐ 1%	☐ 7.5%
			Salinity, pH, SO_4, Cl, Na, heavy metals	☐ 0%	☐ 2.5%	☐ 10%
	Artificial Wetlands	Synthetic liner	Nutrients, COD, pathogens	☐ 0%	☐ 0.5%	☐ 7.5%
			Salinity, pH, SO_4, Cl, Na, heavy metals	☐ 0%	☐ 1%	☐ 10%
		Clay liner	Nutrients, COD, pathogens	☐ 0%	☐ 1%	☐ 7.5%
			Salinity, pH, SO_4, Cl, Na, heavy metals	☐ 0%	☐ 2.5%	☐ 10%
	Polluted Storm Water System		Nutrients, COD, pathogens	☐ 0%	☐☐☐ %	☐☐☐ %
			Salinity, pH, SO_4, Cl, Na, heavy metals	☐ 0%	☐☐☐ %	☐☐☐ %

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) _____

6.6 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 Quality Management Assessment:

Surname

Initials

Position / Rank

Signature

Date (ccyymmdd)

File number *(i.e. Office Hardcopy Register File No)*

Waste Management Facility Number

Water Use Register Number

Received by:

Surname

Initials

Position / Rank

Signature

Date (ccyymmdd)

Date stamp of receiving office

Captured on NRWU database

Captured by:

Surname

Initials

Signature

Quality Assurance Executed by:

Surname

Initials

Position / Rank

Signature

Date (ccyymmdd)

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

NEW STORM 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 AND EVAPORATION OF CONTAMINATED STORM WATER RUNOFF FROM THE SITE

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

		2	0	0

meters

1.6 Lining of the site

a) The site is / will be ☒ Lined

b) If lined, the lining system is (Mark the applicable option with an X)
- ☐ Clay
- ☐ Composite lining system

1.7 Total area of 'property' on which waste is disposed 64 hectares

1.8 Area of actual waste body ("footprint" area) 0.66 hectares

1.9 Dimensions of waste site

	Height or depth	Length	Breadth	
a) At commencement	4	63	63	meters
b) After rehabilitation		0		meters
c) Available air space				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 500 m
- Informal residential area 1700 m
- Industrial Area 0 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 ° ' " or S . ° or S 25 ° 51.589 '
Longitude E ° ' " or E . ° or E 29 ° 13.724 '
Datum Type: ☐ Cape (Modified Clarke 1880) ☒ WGS-84

Latitude S ° ' " or S . ° or S 25 ° 51.613 '
Longitude E ° ' " or E . ° or E 29 ° 13.759 '
Datum Type: ☐ Cape (Modified Clarke 1880) ☒ WGS-84

Latitude S ° ' " or S . ° or S 25 ° 51.640 '
Longitude E ° ' " or E . ° or E 29 ° 13.734 '
Datum Type: ☐ Cape (Modified Clarke 1880) ☒ WGS-84

Latitude S ° ' " or S . ° or S 25 ° 51.619 '
Longitude E ° ' " or E . ° or E 29 ° 13.702 '
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 B 1 1

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	1996	1139	mm	872	mm	
2nd wettest	2000	885	mm	881	mm	
3rd wettest	2006	880	mm	805	mm	
4th wettest	1984	734	mm	852	mm	
5th wettest	2005	684	mm	842	mm	
6th wettest	1991	681	mm	667	mm	
7th wettest	1994	676	mm	787	mm	
8th wettest	1987	669	mm	848	mm	
9th wettest	2004	659	mm	842	mm	
10th wettest	1985	603	mm	851	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)

1.13 Details of the person in control of the site

Surname	BESTER		
Initials &/or First Name	CM		
Title	MR	**ID No.**	710608 5004 08 1
Phone Number	013 690-8245	**Ext**	
Fax Number	013 690-8380	**Cellphone**	
E-mail Address	nellis.bester@siliconsmelters.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)

2.2 Length of time of the operation

Start Date (ccyymmdd): 2 0 1 3 0 1 0 1

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)

- ☐ 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 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)	☐ Yes	☐ No
	Facility designed to ensure at least 5 days retention time	☐ Yes	☐ No
	Storm water and seepage collection drains in place	☐ Yes	☐ No
	Any other practice:		
Waste Water Ponds	Lined facility (synthetic or clay)	☐ Yes	☐ No
	Storm water collection drains in place	☐ Yes	☐ No
	Seepage drains in place	☐ Yes	☐ No
	Any other practice:		
Open Cast Voids	Diversion of upslope storm water around the void	☐ Yes	☐ No
	Upstream diversion berms or management measures to prevent inflow of water into the void	☐ Yes	☐ No
	Prevention of water flowing into the void by using highball drains where necessary	☐ Yes	☐ No
	Ensure any water within the void is contained	☐ Yes	☐ No
	Any other practice:		
Oxidation Ponds	Lined facility (synthetic or clay)	☐ Yes	☐ No
	Adequate structures in place to ensure capture of a 1:50 year storm event	☐ Yes	☐ No
	Seepage drains in place	☐ Yes	☐ No
	Storm water collection drains in place	☐ Yes	☐ No
	Any other practice:		
Polluted Stormwater System	Storm water discharged directly to the resource	☐ Yes	☒ No
	Collection system incorporating the plant, raw material stockpiles and waste disposal facilities	☒ Yes	☐ No
	Clean stormwater separated from stormwater draining "dirty" sites or facilities	☒ Yes	☐ No
	Polluted stormwater collected & stored in dams	☒ Yes	☐ 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	☐ Yes	☐ No
	Any other practice:		

Continued on next page

Sewage Treatment Works	Pump stations operational	☐ Yes	☐ No
	Emergency storage dam(s) available	☐ Yes	☐ No
	Adequate capacity in emergency storage dams	☐ Yes	☐ No
	Compliance with minimum discharge standards	☐ Yes	☐ No
	Stormwater collection system in place	☐ Yes	☐ No
	Adequate capacity to contain total volume	☐ Yes	☐ No
	Any other practice:		
Silt Dams	Lined facility (synthetic or clay)	☐ Yes	☐ No
	Stormwater collection system in place	☐ Yes	☐ No
	Seepage drains in place	☐ Yes	☐ No
	Any other practice:		
Slag Dumps	Stormwater collection system in place	☐ Yes	☐ No
	Seepage drains in place	☐ Yes	☐ No
	Separation of clean & dirty water	☐ Yes	☐ No
	Capacity to handle the 1:50 year storm event	☐ Yes	☐ No
	Collection of rainfall run-off into the dirty water storage facility	☐ Yes	☐ No
	After decommissioning, the top surface is shaped to suit drainage requirements and re-vegetated	☐ Yes	☐ No
	Implementation of under drainage systems to collect seepage for re-use as process water	☐ Yes	☐ No
	Any other practice:		
Slimes/Tailings Dams	Stormwater collection system in place	☐ Yes	☐ No
	Seepage drains in place	☐ Yes	☐ No
	Separation of clean & dirty water	☐ Yes	☐ No
	Capacity to handle the 1:50 year storm event	☐ Yes	☐ No
	Collection of rainfall run-off into the dirty water storage facility	☐ Yes	☐ No
	After decommissioning, the top surface is shaped to suit drainage requirements and re-vegetated	☐ Yes	☐ No
	Implementation of under drainage systems to collect seepage for re-use as process water	☐ Yes	☐ No
	Covering of side slopes with soil during the operational phase to assist in reducing any contact of rainfall runoff with the tailings	☐ Yes	☐ No
	Vegetation of side slopes to minimise erosion	☐ Yes	☐ 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 Quality Management Assessment:

Surname

Initials

Position / Rank

Signature

Date

File number *(i.e. Office Hardcopy Register File No)*

Waste Management Facility Number

Water Use Register Number

Received by:

Surname

Initials

Position / Rank

Signature

Date

Captured on NRWU database

Captured by:

Surname

Initials

Signature

Date stamp of receiving office

Quality Assurance Executed by:

Surname

Initials

Position / Rank

Signature

Date

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: | | | | | | | | |

Water use number: | | | |

1.3 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)

1.4 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 | | | | | | | | | | | | | |

Passport Expiry Date (ccyymmdd) | | | | | | | | |

Passport Country Of Issue | |

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

1.5.1 Name of company, business, partnership or community:

SILICON SMELTERS (PTY) LTD - RAND CARBIDE

1.5.2 Business Enterprise Registration Number 9 8 /1 9 0 3 6 / 0 7

1.5.3 Date Established (ccyymmdd) 1 9 9 8 0 9 2 5

Country Where Established REPUBLIC OF SOUTH AFRICA

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 I/we CORNELIUS MULLER BESTER (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 GENERAL MANAGER	Thumb print	013 690 8245 Contact number during office hours 2012-08-22
Designation of signatory		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

CONVEYOR B9 SPRING

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 SPRING)

2.3 Geographic location of the removal point

Latitude S ° ' " or S . ° or S 25 ° 51.844 '

Longitude E ° ' " or E . ° or E 29 ° 13.523 '

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

2.4 Drainage Region Details: Quaternary Drainage Region B11K

3. DESCRIPTION OF WATER USE

3.1 Volume of underground water removed

a) Total volume of underground water removed per year 952.8 Cubic metres

b) Maximum volume of underground water removed per day 2.6 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 Date	
					From:	To:
PORTION 101 OF THE FARM JOUBERTSRUST 310 JS	Title Deed Number	T4137/2009	Surname of the Leader of Village, Community or Tribal Authority		2009	CURRENT
	Surveyor-General Cadastral Code	T0JS000000000310001 01	Initial of the Leader of Village, Community or Tribal Authority			
	Property Number	310	Local Authority (if applicable)			
	Portion of property	101	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)			
	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)			
	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)			
	Portion of property		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) ☐☐☐☐☐☐☐☐ 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 ____________________

5.2 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 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 5 8	☒
D W 7 6 0	☒
D W	☐

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

					Start date (ccyymmdd)	**End date** (ccyymmdd)
7.3.1	Applicant to be billed as	☐ An Individual	☐ Via a WUA / WSP			
7.3.2	Billing frequency	☐ Annually	☐ Bi–annually	☐ 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

				Start date (ccyymmdd)	**End date** (ccyymmdd)
7.4.1	Exsisting Water Use		m^3 Per annum		
7.4.2	Proposed Water Use		m^3 Per annum		

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)

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: [| | | | | | | |]

Water use number: [| | | |]

1.3 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)

1.4 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 [| | | | | | | | | | | | |]

Passport Expiry Date (ccyymmdd) [| | | | | | | |]

Passport Country Of Issue [ ]

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

1.5.1 Name of company, business, partnership or community:

SILICON SMELTERS (PTY) LTD - RAND CARBIDE

1.5.2 Business Enterprise Registration Number 9 8 / 1 9 0 3 6 / 0 7

1.5.3 Date Established (ccyymmdd) 1 9 9 8 0 9 2 5

Country Where Established REPUBLIC OF SOUTH AFRICA

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:

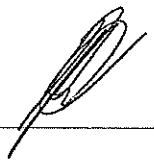
1.8.1 Name of WSP:

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 I/we CORNELIUS MULLER BESTER (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

GENERAL MANAGER

Designation of signatory

Thumb print

013 690 8245

Contact number during office hours

2012-08-22

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

FURNACE E SPRING

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 SPRING)

2.3 Geographic location of the removal point

Latitude S ° ' " or S . ° or S 25 ° 51.813 '

Longitude E ° ' " or E . ° or E 29 ° 13.541 '

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

2.4 Drainage Region Details: Quaternary Drainage Region B11K

3. DESCRIPTION OF WATER USE

3.1 Volume of underground water removed

a) Total volume of underground water removed per year 237.6 Cubic metres

b) Maximum volume of underground water removed per day 0.65 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 Date	
					From:	To:
PORTION 101 OF THE FARM JOUBERTSRUST 310 JS	Title Deed Number	T4137/2009	Surname of the Leader of Village, Community or Tribal Authority		2009	CURRENT
	Surveyor-General Cadastral Code	T0JS00000000031000101	Initial of the Leader of Village, Community or Tribal Authority			
	Property Number	310	Local Authority (if applicable)			
	Portion of property	101	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)			
	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)			
	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)			
	Portion of property		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: [E.g. National Water Act (Act No. 36 of 1998)]

Applicable section of the act [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

5.2 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 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 5 8	☒
D W 7 6 0	☒
D W	☐

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**

					Start date (ccyymmdd)	End date (ccyymmdd)
7.3.1	Applicant to be billed as	☐ An Individual	☐ Via a WUA / WSP			
7.3.2	Billing frequency	☐ Annually	☐ Bi-annually	☐ 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**

				Start date (ccyymmdd)	End date (ccyymmdd)
7.4.1	Exsisting Water Use	m³	Per annum		
7.4.2	Proposed Water Use	m³	Per annum		

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)

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:

Water use number:

1.3 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)

1.4 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

Passport Expiry Date (ccyymmdd)

Passport Country Of Issue

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

1.5.1 Name of company, business, partnership or community:

SILICON SMELTERS (PTY) LTD - RAND CARBIDE

1.5.2 Business Enterprise Registration Number 9 8 / 1 9 0 3 6 / 0 7

1.5.3 Date Established (ccyymmdd) 1 9 9 8 0 9 2 5

Country Where Established REPUBLIC OF SOUTH AFRICA

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:**

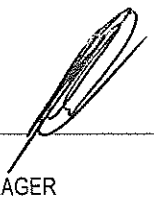
1.8.1 Name of WSP:

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 I/we CORNELIUS MULLER BESTER (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

GENERAL MANAGER

Designation of signatory

Thumb print

013 690 8245

Contact number during office hours

2012-08-22

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

FURNACE F SPRING

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 SPRING)

2.3 Geographic location of the removal point

Latitude S ° ' " or S . ° or S 25 ° 51.813 '

Longitude E ° ' " or E . ° or E 29 ° 13.541 '

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

2.4 Drainage Region Details: Quaternary Drainage Region B11K

3. DESCRIPTION OF WATER USE

3.1 Volume of underground water removed

a) Total volume of underground water removed per year 2371.6 Cubic metres

b) Maximum volume of underground water removed per day 0.65 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 Date From:	To:
PORTION 101 OF THE FARM JOUBERTSRUST 310 JS	Title Deed Number	T4137/2009	Surname of the Leader of Village, Community or Tribal Authority		2009	CURRENT
	Surveyor-General Cadastral Code	T0JS00000000031000101	Initial of the Leader of Village, Community or Tribal Authority			
	Property Number	310	Local Authority (if applicable)			
	Portion of property	101	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)			
	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)			
	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)			
	Portion of property		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: [E.g. National Water Act (Act No. 36 of 1998)]

Applicable section of the act [E.g. Section 21]

Date From (ccyymmdd)

Date To (ccyymmdd)

Government Notice No.

Government Notice Date (ccyymmdd)

Applicable Section Of The General Authorisation

Date From (ccyymmdd)

Date To (ccyymmdd)

Government Notice No.

Government Notice Date (ccyymmdd)

Applicable Section Of The General Authorisation

Date From (ccyymmdd)

Date To (ccyymmdd)

Government Notice No.

Government Notice Date (ccyymmdd)

Applicable Section Of The General Authorisation

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 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 5 8	☒
D W 7 6 0	☒
D W	☐

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**

					Start date (ccyymmdd)	End date (ccyymmdd)
7.3.1	Applicant to be billed as	☐ An Individual	☐ Via a WUA / WSP			
7.3.2	Billing frequency	☐ Annually	☐ Bi-annually	☐ 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**

				Start date (ccyymmdd)	End date (ccyymmdd)
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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)