

## **Appendix E**

### **Public Participation Details**

- Background Information Document (BID)
- Newspaper notice (Witbank News)
- Response forms received from I&AP's
- Communications with I&AP's



**ENVIRONMENTAL IMPACT ASSESSMENT  
WASTE MANAGEMENT LICENCE APPLICATION  
WATER USE LICENCE APPLICATION  
AT SILICON SMELTERS (PTY) LTD - RAND CARBIDE,  
EMALAHLENI, MPUMALANGA PROVINCE OF SOUTH  
AFRICA**

**BACKGROUND INFORMATION DOCUMENT**

Prepared for

**Silicon Smelters (Pty) Ltd**

Prepared by

**HydroScience cc**

P.O. Box 1322

Ruimsig

1732



## LIST OF DEFINITIONS, ABBREVIATIONS AND ACRONYMS

Al .....	Aluminium
BID .....	Background Information Document
Ca.....	Calcium
CBD.....	Central Business District
DEA.....	Department of Environmental Affairs
DWA.....	Department of Water Affairs
E.C.A.....	Electrically Calcined Anthracite
EAP .....	Environmental Assessment Practitioner
EIA .....	Environmental Impact Assessment
EIR .....	Environmental Impact Report
EMPr .....	Environmental Management Programme report
Fe-Si.....	Ferrosilicon
I&AP.....	Interested and Affected Party
IWUL .....	Integrated Water Use Licence
IWWMP .....	Integrated Water and Waste Management Plan
NEM:WA .....	National Environmental Management: Waste Act, 2008 (Act 59 of 2008)
NEMA.....	National Environmental Management Act, 1998 (Act 107 of 1998) as amended
NWA.....	National Water Act, 1998 (Act 36 of 1998)
PPP .....	Public Participation Process
Rand Carbide .....	Silicon Smelters (Pty) Ltd – Rand Carbide
WMA .....	Water Management Area
WML.....	Waste Management Licence

## 1 INTRODUCTION

HydroScience cc, an independent Environmental Assessment Practitioner (EAP), has been appointed by Silicon Smelters (Pty) Ltd - Rand Carbide, hereafter referred to as Rand Carbide, to undertake an Environmental Impact Assessment (EIA) process and submit a Scoping Report, Environmental Impact Report (EIR), Environmental Management Programme report (EMPr) and Integrated Water and Waste Management Plan (IWWMP) in support of the applications for environmental authorisation, a waste management licence (WML) and an integrated water use licence (IWUL).

As part of the EIA process (Figure 1), an application form, in terms of the listed activities under Government Notice Regulation 718 (3 July 2009) in accordance with Section 20(b) of the National Environmental Management: Waste Act (NEM:WA), 2008 (Act 59 of 2008) and the EIA regulations made under Section 24(5) of the National Environmental Management Act (NEMA), 1998 (Act 107 of 1998) as amended, and in accordance with Government Notice Regulation 543 (18 June 2010), will be submitted to the Directorate: Authorisation and Waste Disposal Management of the National Department of Environmental Affairs (DEA) in Pretoria.

As part of the water use licence application in terms of Section 21 of the National Water Act (NWA), 1998 (Act 36 of 1998), an IWWMP as well as all the applicable water use registration/licencing forms will be submitted to Department of Water Affairs (DWA).

## 2 PURPOSE OF THIS DOCUMENT

The purpose of this document (Background Information Document or BID) is to provide background information (in addition to the published notices) in terms of Regulation 56 of the NEMA, 1998, as amended and the NWA, 1998, to all Interested and Affected Parties (I&APs) regarding the applications for environmental authorisation, a WML and IWUL by Rand Carbide for their on-site activities in eMalahleni, Mpumalanga Province.

In addition, this document will provide a platform from which to obtain comments and contributions from stakeholders with regard to the potential environmental impacts of the project as part of the Public Participation Process (PPP). The aim of the PPP is not only to adhere to the legislative requirements, but also to give as many stakeholders and I&APs as possible an opportunity to be actively involved in this process.

The PPP will be carried out in accordance with Chapter 6 of NEMA, as amended, and in support of the Environmental Impact Assessments Regulations, 2010 as published in Government Notice Regulation 543 (18 June 2010).

## 3 ROLE OF I&APS

You are invited to register as an I&AP (see contact details and registration form attached) and to assist us in:

- Identifying issues of concern that need to be investigated as well as possible impacts of the facility/operations on the environment;
- Suggesting alternatives in which to mitigate possible negative impacts and enhance positive impacts.

Your input is considered valuable as:

- It contributes to the decision-making process;
- It contributes to information on public needs, values and expectations; and
- It contributes to local and traditional knowledge.

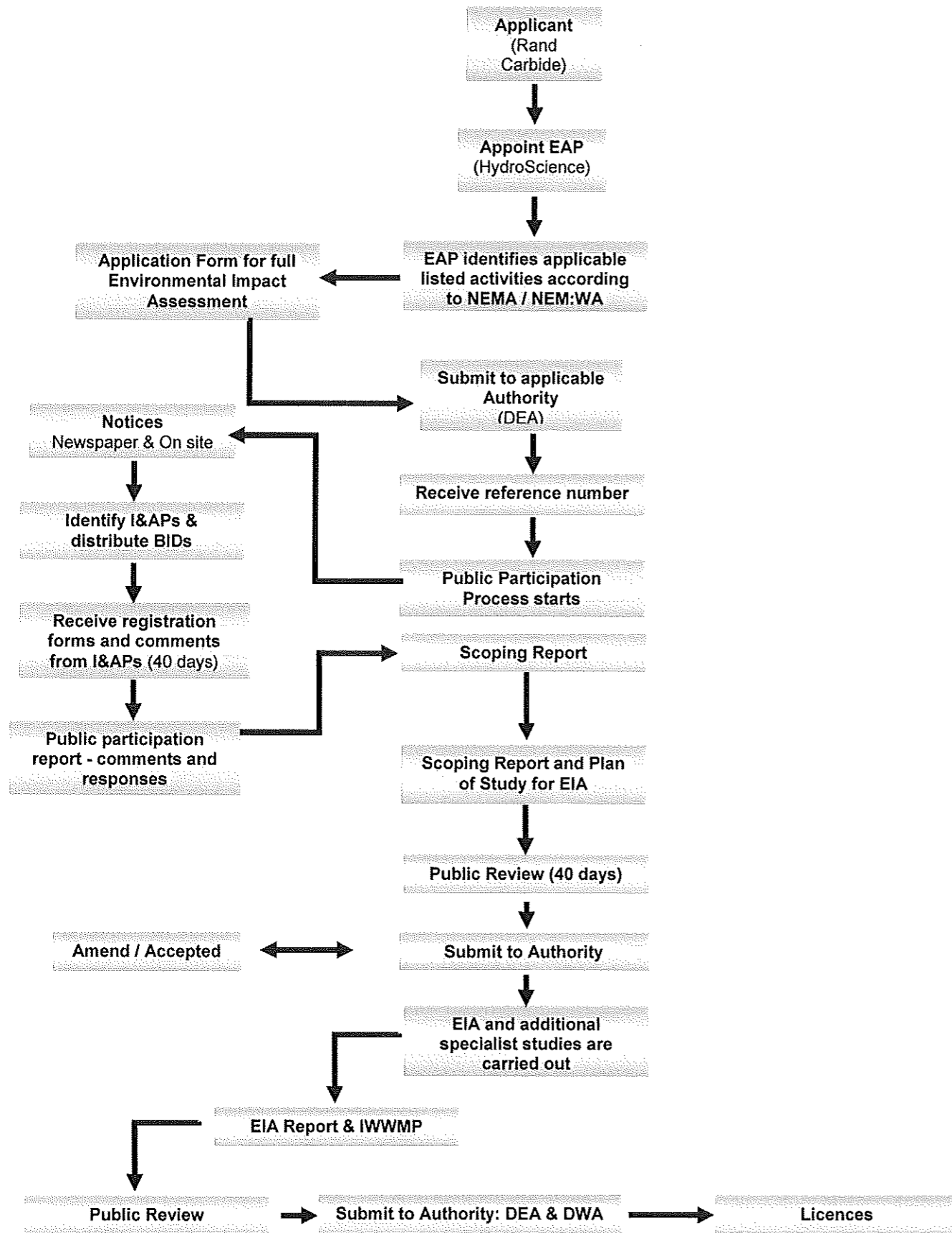


Figure 1: Simplified diagram providing the process

## 4 SILICON SMELTERS (PTY) LTD - RAND CARBIDE

### 4.1 Background

Rand Carbide Limited, which came into being in 1918 in Germiston for the production of calcium carbide, moved to Witbank in 1926 to avail itself of cheaper power and because it envisaged the use of coal in the area as a raw material. Since those early days, the production of carbide has been greatly expanded, and the company has diversified into the production of ferrosilicon (Fe-Si), silicon metal, electrically calcined anthracite (E.C.A), electrode paste and silica fume.

Rand Carbide was acquired by Highveld Steel and Vanadium Corporation Ltd in 1978 but was sold in February 2008 to Silicon Smelters (Pty) Ltd, a subsidiary of FerroAtlantica (Spain). The company is now referred to as Silicon Smelters (Pty) Ltd - Rand Carbide (or Rand Carbide).

### 4.2 Operations and processes

Rand Carbide produces ferrosilicon (Fe-Si), silicon metal and carbonaceous products including electrically calcined anthracite (E.C.A) and electrode paste.

**Raw material handling:** Raw materials, upon receipt, are stockpiled on site from where the intermediate storage bunkers are fed. Batching of the raw materials take place underneath these storage bunkers where the required ratio's for each of the raw materials are weighed out and dispatched to the furnace bins. Raw material mixture is fed into the furnaces via six chutes.

#### 4.2.1 Fe-Si production

Fe-Si is produced in three furnaces (Furnaces D, E & F).

**Raw materials:** coal, charcoal, quartz, wood chips, mill scale and ad hoc, in small quantities – barium sulphate, strontium, silicon manganese, zircon sand.

Fe-Si is produced via the carbothermic reduction of quartz in a sub-merged arc furnace (3 phase) requiring approximately 8 000kWh to produce 1 ton of product. Liquid metal is tapped (intermittently) from a taphole at  $\pm 1\ 600^{\circ}\text{C}$  into a ladle lined with refractory material. The metal is then cast into a casting dam lined with ferrosilicon fines. The solidified product is then crushed and packed. Fe-Si raises the hardness of steel, increases tensile strength, elasticity, oxidation resistance and flow limits all the while reducing its ductility.

#### 4.2.2 Silicon metal production

Silicon metal is produced in Furnace E.

**Raw materials:** coal, charcoal, quartz, wood chips, lime stone.

For silicon metal production, composite electrodes are used versus the paste or Soderburg electrodes used for Fe-Si production. Si is produced via the carbothermic reduction of quartz in a sub-merged arc furnace (3 phase) requiring approximately 12 000kWh to produce 1 ton of product. Liquid metal is tapped (continuously) from a taphole at  $\pm 1\ 600^{\circ}\text{C}$  into a ladle lined with refractory material. Silicon metal is refined during and after tapping in order to oxidise impurities like Aluminium and Calcium. The metal is then cast into a casting pan lined with silicon fines. The solidified product is then crushed and packed.

#### 4.2.3 Refining of Fe-Si / silicon metal

It is necessary to refine the product in its liquid stage to yield a product with small quantities of impurities (mainly Al and Ca). This can only be done during tapping or afterwards.

Refining during tapping is done via a ceramic plug fitted in the bottom of the ladle through which Oxygen and Nitrogen gasses are purged (low flow rates).

Refining subsequent to tapping can be done in a separate ladle with tuyeres tubes through which Oxygen and Nitrogen gasses are purged at high flow rates.

#### 4.2.4 E.C.A production

Electrically Calcined Anthracite (E.C.A.) is produced in the Calciners (Calciner 1 & 2).

**Raw material:** Anthracite

Anthracite is fed into a cylindrical furnace and heated by electrical current passing between two electrodes. The calcined anthracite is discharged from the bottom of the furnace and conveyed to storage bunkers for use in the production of paste.

#### 4.2.5 Electrode paste production

Electrode paste is produced at the paste plant.

**Raw materials:** tar pitch and various fractions of E.C.A.

E.C.A. from the two calcined furnaces is drawn from storage bunkers to three hammer mills and a ball mill for crushing. The crushed E.C.A. is taken via bucket conveyors to two twin deck screens where it is distributed to different bunkers holding the different E.C.A. fraction sizes. The fractions are taken via feed chute to a dry mix scale for batch weighing. The batch is then discharged into two mixers where it is mixed with tar binder from the inside binder tanks to produce paste.

#### 4.2.6 Reprocessing of waste and waste management

Reprocessing of waste takes place at the Chargold plant.

**Raw materials:** Waste material (approximately 500 000 tons of dry waste material) from historic operations dumped on the waste dump of 2.25ha from 1926 until 2006 as well as current waste arisings.

No waste is currently going onto the dump. Chargold is processing the waste material and extracts about 50% of the material on the dump for placement back into the Rand Carbide processes. The entire dump will be reworked over the next 8 years and materials that cannot be utilised will be disposed off site.

### 4.3 Locality

Rand Carbide is situated on Portions 60 and 101 of the farm Joubertsrust 310 JS within the eMalahleni (Witbank) Municipal area of the Nkangala District, Mpumalanga Province, South Africa (Figure 2). Site coordinates are as follows: 25° 51.738' South; 29° 13.731' East (centre of property). The site can be accessed from Voortrekker Road on the west of the plant, also known as the Old Middelburg Road or R 555. Christiaan de Wet Street (south), Swartbos/OR Tambo Road (north and east) also borders the property. The site, which extends over 56.2810 ha, is situated approximately 2 km north east of the eMalahleni Central Business District (CBD). The site is zoned as industrial and is surrounded by industrial/commercial and residential properties.

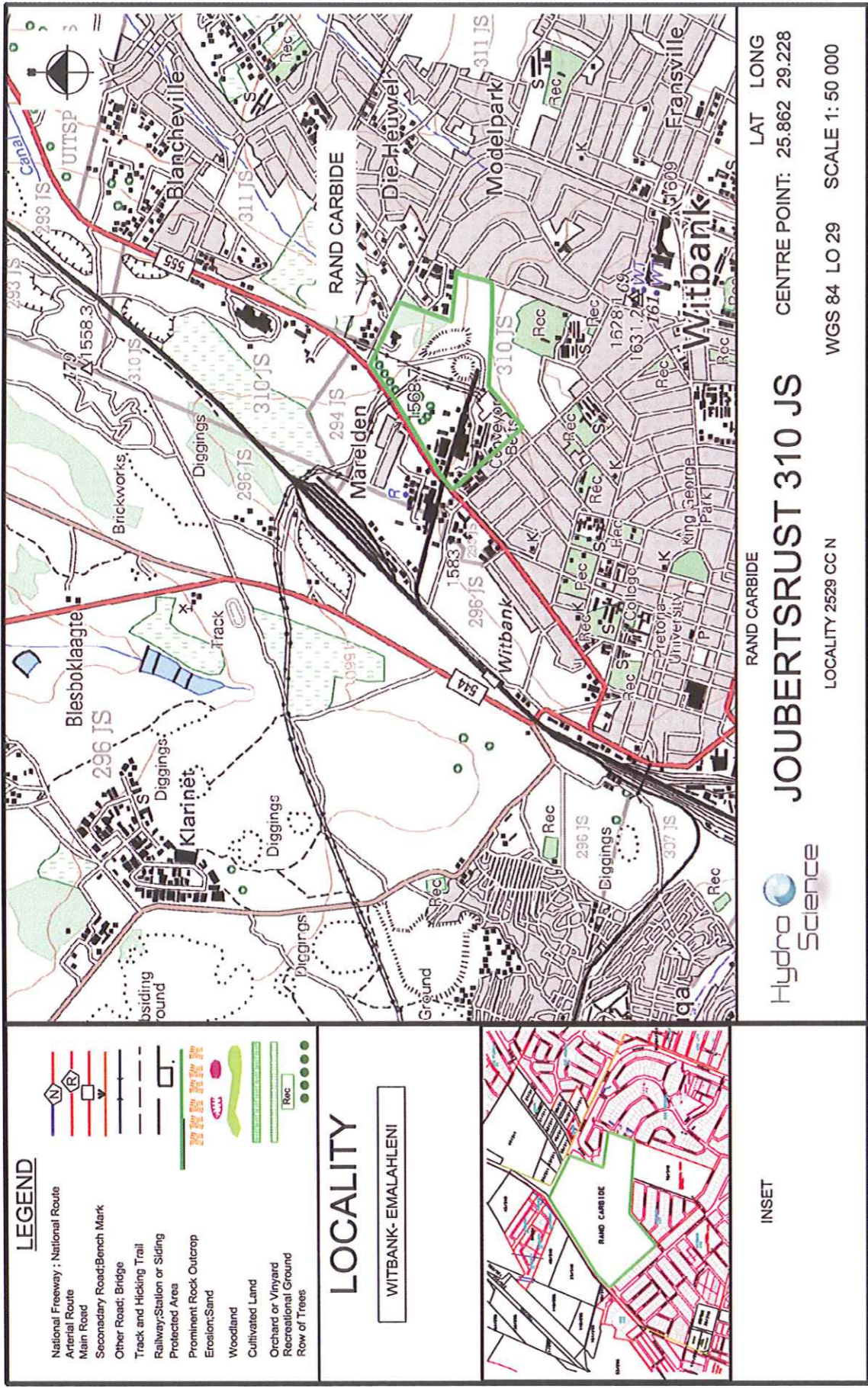


Figure 2: Locality map



#### 4.4 Existing infrastructure

Existing infrastructure include:

- Fe-Si furnaces (3 furnaces) with cooling facilities and dust plants for emissions control
- Calcine furnace building
- Fe-Si crushing/screening plant
- Support: Laboratory, Canteen, First aid, Training Centre, Change room, Laundry, Parking, General administration and Office building
- Substations for provision of electricity
- Storage buildings/areas/bunkers – raw materials, scrap metal, equipment etc
- Compressor house (air compressors for dust plants and instrumentation)
- Workshops (electrical services, mechanical, carpentry, paste plant, instrumentation)
- Wash bay for vehicles
- Waste dump (currently being processed by Chargold)
- Chargold plant (processing of waste material)
- Underground storage tanks (UST): Petrol (14m<sup>3</sup>; 1983); diesel (23m<sup>3</sup>; 1979)

#### 4.5 Additional business ventures operating on site

- Chargold (Pty) Ltd.
- Bakwena Ready Mix Concrete

#### 4.6 Water management

Rand Carbide falls within the B11K quaternary catchment of the Olifants River Water Management Area (WMA). The closest surface water course is a seasonal stream arising from a spring 200 metres north east of the site which discharges into the Olifants River 5km north east of the site.

Rand Carbide is supplied with municipal water for human consumption and industrial use. Sewage effluent feeds into the municipal sewage management system. Some storm water also discharges to the municipal storm water system while some storm water is contained on the site in an unlined earth dam (Harry's dam). A storm water management plan, which separates dirty and clean water, discharges clean water and contains dirty water for reuse will be developed as part of this project. Process water is contained (closed concrete tank) on the site for recycling.

### 5 OBJECTIVE AND MOTIVATION

The objective of this project is twofold:

1. Obtain a Waste Management Licence (WML) for the storage, recycling and/or recovery and treatment (through reprocessing) of waste material;
2. Obtain an Integrated Water Use Licence (IWUL) for the abstraction and use of water (spring water used for dust suppression) as well as disposal and re-use of wastewater (process water and contaminated storm water).

#### 5.1 Waste Management Licence (WML)

The application for a Waste Management Licence (WML) will be done in accordance with NEM:WA, 2008, for the closure and rehabilitation of the historic waste dump located on site which is already being processed as part of its closure and consequent rehabilitation. A

WML is also required for the Chargold (Pty) Ltd plant which currently processes the historic waste dump.

## 5.2 Integrated Water Use Licence (IWUL)

An application for an Integrated Water Use Licence (IWUL) and the associated IWWMP as technical support and motivation will be required in accordance with the NWA, 1998 in terms of the Section 21 water uses identified. These identified water uses include:

- The abstraction of water originating from springs (Section 21j);
- The use of water from springs for dust suppression purposes (Section 21a);
- The storage of water for emergency situations (Section 21b); and
- The disposal of wastewater and waste (Section 21g).

## 6 POTENTIAL IMPACTS

No potential negative impacts have been identified as this project relates firstly to the legalisation of current activities in terms of the latest environmental legislation, and secondly, to the improvement of storm water, effluent and waste management which will benefit the environment.

## 7 APPLICABLE LEGISLATION

### 7.1 Public Participation Process

Notification, in the form of site notices and BIDs (on the 20<sup>th</sup> of July 2011) as well as an advertisement placed in the Witbank News (21/22 July 2011), has been given to all I&APs in terms of Regulation 56, informing them that a Scoping Report, EIA Report, EMPr, waste management licence application and water use licence application will be submitted to the relevant authorities (Department of Environmental Affairs and Department of Water Affairs).

### 7.2 NEM:WA

An application in terms of the NEM:WA, 2008 will be submitted to the National DEA.

The following listed activities which require environmental authorisation and a waste management licence have been identified in terms of NEM:WA Government Notice Regulation 718 (3 July 2009), Category B:

**Activity 2:** The reuse and recycling of hazardous waste.

**Activity 3:** The recovery of hazardous waste including the refining, utilisation or co-processing of waste at a facility with a capacity to process more than 500kg of hazardous waste per day excluding recovery that takes place as an integral part of an internal manufacturing process within the same premises or unless the Minister has approved re-use guidelines for the specific waste stream.

### 7.3 NWA:

Registration and licencing forms in terms of the NWA, 1998 will be submitted to the DWA.

An IWUL application and associated IWWMP will be compiled in accordance with the NWA, 1998 in terms of Section 21 for the following uses:

**Section 21 (a):** Taking water from a water resource

- Section 21 (b):** Storing water  
**Section 21 (g):** Disposing of waste in a manner which may detrimentally impact on a water resource  
**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

## 8 PROCESS AND WAY FORWARD

- An application for environmental authorisation and a waste management licence will be submitted to National DEA (Contact telephone number: 012 310 3920).
- Notices have been placed in the Witbank News (21/22 July 2011) and on the site (20 July 2011).
- Further notification and BIDs are to be delivered by hand, fax or email to all identified I&APs, including neighbours, authorities and other stakeholders.
- Initial comments and/or registration forms from I&APs should be received on or before 31 August 2011.
- A draft Scoping Report will be available for public review for a period of forty (40) days in 2012.
- A final Scoping Report will thereafter be submitted to the authority (DEA) for their review.
- Once the authority (DEA) has given approval for the Scoping report and Plan of study for EIA, the EAP will proceed with the EIA process which includes the EIR and EMPr.
- During the months of July through to November, specialist studies regarding storm water management and process water management will be conducted.
- An air quality impact study and Atmospheric Emissions Licence application have already been completed.
- A geohydrological study (groundwater) will also be conducted.
- The IWUL application and IWWMP will be completed and submitted towards the end of 2011.

## 9 CONTACT DETAILS

Please complete the attached form or contact the person below should you wish to be registered as an I&AP or make any comments regarding this project.

### *HydroScience cc*

**Person:** Paulette Jacobs  
**Tel:** 082 850 5482  
**Fax:** 086 692 8820  
**E-mail:** paulette@hydroscience.co.za  
**Postal address:** P.O. Box 1322, Ruimsig, 1732

COMPLETE & FAX OR E-MAIL TO:  
 HYDROSCIENCE 086 692 8820 / paulette@hydroscience.co.za

ENVIRONMENTAL IMPACT ASSESSMENT, WASTE MANAGEMENT LICENCE APPLICATION  
 AND WATER USE LICENCE APPLICATION FOR ACTIVITIES AT SILICON SMELTERS (PTY)  
 LTD - RAND CARBIDE, EMALAHLENI, MPUMALANGA PROVINCE

INTERESTED AND AFFECTED PARTY REGISTRATION AND COMMENT SHEET

<b>Title:</b>	Mr		Mrs		Ms		Dr	
<b>Surname:</b>				<b>First name &amp; initials:</b>				
<b>Organisation / Company:</b>								
<b>Postal / physical address:</b>					<b>Postal code:</b>			
<b>Tel:</b>					<b>Fax:</b>			
<b>Email:</b>					<b>Cell:</b>			
<b>Interest in approval or refusal:</b>	<b>Business:</b>	YES	NO	<b>Preferred method of notification / communication</b>	<b>Post/mail:</b>			
	<b>Financial:</b>	YES	NO		<b>Fax:</b>			
	<b>Personal:</b>	YES	NO		<b>Email:</b>			
<b>Details of interest</b>								
Waste Licence Application				Water Use Licence Application				
<b>Name of other I&amp;APs to be contacted:</b>								
<b>Contact details:</b>								

Comments: (please use separate sheets if you wish/require)

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Thank you for your comments, participation and time. Your contribution is appreciated and will form part of the final submission to the authority for decision-making.



**From:** Riaan Swemmer [mailto:[riaan@hydroscience.co.za](mailto:riaan@hydroscience.co.za)]  
**Sent:** 25 July 2011 10:28 AM  
**To:** 'francob@enviroserv.co.za'; 'bakwenconcrete@vodamail.co.za'; 'abre@live.co.za'  
**Cc:** paulette@hydroscience.co.za  
**Subject:** Waste licence and Water use licence application-Rand Carbide

Dear Stakeholder

Please find attached information (Background Information Document) regarding a project that may be of interest to you. Should you wish to register as a stakeholder or Interested and Affected Party (I&AP) and be included in further correspondence, be part of the process, stay informed, or, would like to make any comments, kindly complete the response form attached to the BID.

Thank you for your time

**Riaan Swemmer (MSc)**  
Environmental Consultant  
Cell: 083 744 8243 E-mail: [riaan@hydroscience.co.za](mailto:riaan@hydroscience.co.za)  
Fax: 086 548 5184 Website: [www.hydroscience.co.za](http://www.hydroscience.co.za)  
Postal: P.O. Box 1322, Ruimsig 1732

Hydro   
Science

**From:** Riaan Swemmer [mailto:[riaan@hydroscience.co.za](mailto:riaan@hydroscience.co.za)]

**Sent:** 22 July 2011 06:00 PM

**To:** 'Stephen.wentzel@vitalpt.co.za'; 'jtavares@cybertrade.co.za'; 'treza.tavares10@gmail.com'; 'ared@proparts.co.za'; 'louisp@komatsu.co.za'; 'witbank@ilips.co.za'; 'witbank@engsup.co.za'; 'mpumagrass@vodamail.co.za'; 'ria@ilips.co.za'; 'venom@venomracing.co.za'

**Cc:** 'paulette@hydroscience.co.za'

**Subject:** Waste licence and Water use licence application-Rand Carbide

Dear Stakeholder

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Thank you for your time

**Riaan Swemmer (MSc)**

**Environmental Consultant**

**Cell:** 083 744 8243 **E-mail:** [riaan@hydroscience.co.za](mailto:riaan@hydroscience.co.za)

**Fax:** 086 548 5184 **Website:** [www.hydroscience.co.za](http://www.hydroscience.co.za)

**Postal:** P.O. Box 1322, Ruimsig 1732

Hydro   
Science

**From:** Riaan Swemmer [mailto:[riaan@hydroscience.co.za](mailto:riaan@hydroscience.co.za)]

**Sent:** 22 July 2011 06:01 PM

**To:** 'mautjanal@dwa.gov.za'; 'MalesaJ@dwa.gov.za'; 'MolotoM@dwa.gov.za';  
'MaceveleS@dwa.gov.za'; 'Mesok@dwa.gov.za'; 'NtabeniP@dwa.gov.za'; 'ShabanguS2@dwa.gov.za';  
'vilanez@dwa.gov.za'; 'mahosie@dwa.gov.za'; 'mntambof@dwa.gov.za'

**Cc:** 'paulette@hydroscience.co.za'

**Subject:** Waste licence and Water use licence application-Rand Carbide

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Thank you for your time

**Riaan Swemmer (MSc)**

**Environmental Consultant**

Cell: 083 744 8243 E-mail: [riaan@hydroscience.co.za](mailto:riaan@hydroscience.co.za)

Fax: 086 548 5184 Website: [www.hydroscience.co.za](http://www.hydroscience.co.za)

Postal: P.O. Box 1322, Ruimsig 1732

Hydro   
Science



**From:** Riaan Swemmer [mailto:[riaan@hydroscience.co.za](mailto:riaan@hydroscience.co.za)]  
**Sent:** 22 July 2011 06:01 PM  
**To:** 'JMMabuza@wit.mpu.gov.za'; 'tmtshikwatamba@wit.mpu.gov.za';  
'cnmthimunye@wit.mpu.gov.za'; 'himavodze@wit.mpu.gov.za'; 'dtswai@mpg.gov.za';  
'pakadej@mpg.gov.za'; 'GBatchelor@mpg.gov.za'; 'mohauram@mpg.gov.za';  
'engelbrechtaj@emalaheni.gov.za'; 'brentjiescbc@emalaheni.gov.za'  
**Cc:** 'paulette@hydroscience.co.za'  
**Subject:** Waste licence and Water use licence application-Rand Carbide

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Thank you for your time

**Riaan Swemmer (MSc)**

Environmental Consultant

Cell: 083 744 8243 E-mail: [riaan@hydroscience.co.za](mailto:riaan@hydroscience.co.za)

Fax: 086 548 5184 Website: [www.hydroscience.co.za](http://www.hydroscience.co.za)

Postal: P.O. Box 1322, Ruimsig 1732

Hydro   
Science

**NOTICE OF DELIVERY:**

This serves to confirm that the **Witbank Public Library** in eMalahleni has received the following document:

**WASTE MANAGEMENT LICENCE APPLICATION REPORT**

for

**SILICON SMELTERS - RAND CARBIDE**

for

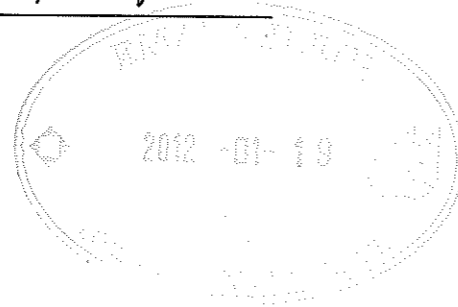
**THE STORAGE, REUSE, RECYCLING AND RECOVERY, OF WASTE  
AT SILICON SMELTERS (PTY) LTD, EMALAHLENI, MPUMALANGA  
PROVINCE**

Date submitted: 2012/01/19

Signature: *Lindie van Papendrup*

Name: *Lindie van Papendrup*

Stamp:



Date retrieved: 2012/02/29

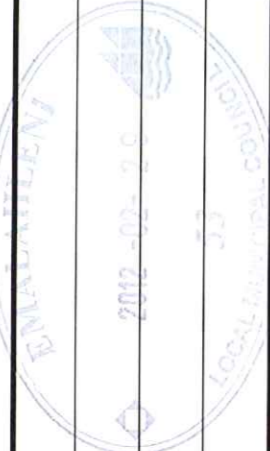
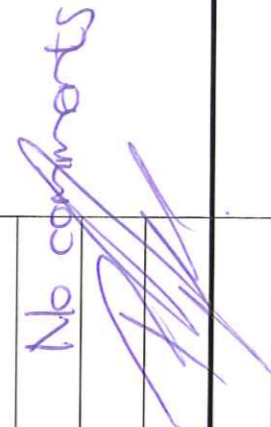


*Lindri Venter  
Writer*

WMLPUBLIC REVIEW COMMENTS SHEET (19 January 2012 - 27 February 2012)

WASTE MANAGEMENT LICENSE APPLICATION FOR THE STORGAE, REUSE, RECYCLING AND RECOVERY OF WASTE FOR SILICON SMELTERS (PTY) LTD - RAND CARBIDE.

EMELAHLENI, MPUMALANGA PRIVINCE

NAME/ SURNAME:		CONTACT DETAILS:	COMMENTS:	SIGNATURE:
Name:		Tel:		
Surname:		E-mail:	<p>Notes</p> <p>2012-02-20</p> <p>No comments</p> 	
Name:		Tel:		
Surname:		E-mail:		
Name:		Tel:		
Surname:		E-mail:		

**NOTICE OF DELIVERY:**

This serves to confirm that the **eMalahleni Local Municipality** in eMalahleni has received the following document:

**SCOPING REPORT AND STORM WATER MANAGEMENT PLAN**

for

**SILICON SMELTERS - RAND CARBIDE**

for

**THE STORAGE, REUSE, RECYCLING AND RECOVERY, OF WASTE  
AT SILICON SMELTERS (PTY) LTD, EMALAHLENI, MPUMALANGA  
PROVINCE**

Date submitted: 2012/ 02/24

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

*[Handwritten signature]*  
*[Handwritten name: LIZINE KAMIA]*

Stamp:

## Johan Snyman

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**From:** Charl Venter [charl.mantella@mweb.co.za]  
**Sent:** 18 January 2012 05:02 PM  
**To:** 'Chris de Beer'  
**Cc:** 'Johan Snyman'  
**Subject:** FW: Scoping Report for WML Application - Silicon Smelters (PTY) Ltd - Rand Carbide

Hi Johan,

Sal jy asb reel om 'n kopie van di report by die biblioteek te kry.

Dankie  
Charl

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**From:** Inus de Wit [mailto:info@hydroscience.co.za]  
**Sent:** 18 January 2012 04:49 PM  
**To:** admin@witplumb.co.za; gregb@live.co.za; connie.dibb@afgri.co.za; Amanda.botha@afrox.linde.com; dolf.groenewald@afrox.linde.com; htswtb@mweb.co.za; Mantella310@mweb.co.za; admin@filvent.co.za; dennis@mweb.co.za; Fanusvdw.avc@gmail.com; bakone@telkomsa.net; Stephen.wentzel@vitalpt.co.za  
**Cc:** 'Paulette'  
**Subject:** Scoping Report for WML Application - Silicon Smelters (PTY) Ltd - Rand Carbide

Dear Stakeholder,

The process for obtaining a waste management license for the activities and facilities at Silicon Smelters (Pty) Ltd – Rand Carbide in eMalahleni, Mpumalanga has reference:

Stakeholders are hereby notified of the availability of the Scoping report relating to the application for a Waste Management License for public review. The report will be available for public review and comment from tomorrow 19 January 2012 until 27 February 2012.

A hard copy of the Scoping Report is available at the Witbank Public Library (013 656 6229) located on the corner of Hofmeyer street and Elizabeth Avenue.

Please feel free to add your comments to the very last page of the report.

If you are unable to access the hardcopy of the report, feel free to contact HydroScience (see details below) and we will accommodate you.

Any additional comments or questions can also be forwarded as written submissions to us via e-mail or fax to the details provided below. Please do not hesitate to contact us should you require additional information or clarification regarding the proposed project.

Kind regards,

Inus de Wit  
Cell: 082 786 7910  
Fax: 086 692 8820  
086 588 1770  
Email: [info@hydroscience.co.za](mailto:info@hydroscience.co.za)  
P.O. Box 1322, Ruimsig, 1732  
[www.hydroscience.co.za](http://www.hydroscience.co.za)

## Paulette

---

**From:** Inus de Wit <info@hydroscience.co.za>  
**Sent:** 18 January 2012 04:49 PM  
**To:** admin@witplumb.co.za; gregb@live.co.za; connie.dibb@afgr.co.za;  
Amanda.botha@afrox.linde.com; dolf.groenewald@afrox.linde.com; htswtb@mweb.co.za;  
Mantella310@mweb.co.za; admin@filvent.co.za; gdennis@mweb.co.za;  
Fanusvdw.avc@gmail.com; bakone@telkomsa.net; Stephen.wentzel@vitalpt.co.za  
**Cc:** 'Paulette'  
**Subject:** Scoping Report for WML Application - Silicon Smelters (PTY) Ltd - Rand Carbide

Dear Stakeholder,

The process for obtaining a waste management license for the activities and facilities at Silicon Smelters (Pty) Ltd – Rand Carbide in eMalaheni, Mpumalanga has reference:

Stakeholders are hereby notified of the availability of the Scoping report relating to the application for a Waste Management License for public review. The report will be available for public review and comment from tomorrow 19 January 2012 until 27 February 2012.

A hard copy of the Scoping Report is available at the Witbank Public Library (013 656 6229) located on the corner of Hofmeyer street and Elizabeth Avenue.

Please feel free to add your comments to the very last page of the report.

If you are unable to access the hardcopy of the report, feel free to contact HydroScience (see details below) and we will accommodate you.

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Kind regards,

Inus de Wit  
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Fax: 086 692 8820  
086 588 1770  
Email: [info@hydroscience.co.za](mailto:info@hydroscience.co.za)  
P.O. Box 1322, Ruimsig, 1732  
[www.hydroscience.co.za](http://www.hydroscience.co.za)



## Paulette

---

**From:** Inus de Wit <info@hydroscience.co.za>  
**Sent:** 18 January 2012 04:52 PM  
**To:** jtavares@cybertrade.co.za; treza.tavares10@gmail.com; ared@proparts.co.za; louis@komatsu.co.za; witbank@ilips.co.za; witbank@engsup.co.za; mpumagrass@vodamail.co.za; ria@ilips.co.za; venom@venomracing.co.za; carbontech@lantic.net; lintal@mweb.co.za; shaboni@telkomsa.net; witbank@uretech.co.za  
**Cc:** 'Paulette'  
**Subject:** Scoping Report for WML Application - Silicon Smelters (PTY) Ltd - Rand Carbide

Dear Stakeholder,

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Kind regards,

Inus de Wit  
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Fax: 086 692 8820  
086 588 1770  
Email: [info@hydroscience.co.za](mailto:info@hydroscience.co.za)  
P.O. Box 1322, Ruimsig, 1732  
[www.hydroscience.co.za](http://www.hydroscience.co.za)



## Paulette

---

**From:** Inus de Wit <info@hydroscience.co.za>  
**Sent:** 18 January 2012 04:55 PM  
**To:** pegasustyres@telkomsa.net; ontvangs@ccatt.co.za; info@propmentum.com;  
sculptonconcrete@lantic.net; Nbdlamini05@gmail.com; francob@enviroserv.co.za;  
bakwenconcrete@vodamail.co.za; abre@live.co.za; vanaswegenj@dwa.gov.za;  
mautjanal@dwa.gov.za; MalesaJ@dwa.gov.za; MolotoM@dwa.gov.za  
**Cc:** 'Paulette'  
**Subject:** Scoping Report for WML Application - Silicon Smelters (PTY) Ltd - Rand Carbide

Dear Stakeholder,

The process for obtaining a waste management license for the activities and facilities at Silicon Smelters (Pty) Ltd – Rand Carbide in eMalahleni, Mpumalanga has reference:

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Kind regards,

**Inus de Wit**  
Cell: 082 786 7910  
Fax: 086 692 8820  
086 588 1770  
Email: [info@hydroscience.co.za](mailto:info@hydroscience.co.za)  
P.O. Box 1322, Ruimsig, 1732  
[www.hydroscience.co.za](http://www.hydroscience.co.za)





## Paulette

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**From:** Inus de Wit <info@hydroscience.co.za>  
**Sent:** 18 January 2012 04:57 PM  
**To:** MaceveleS@dwa.gov.za; Mesok@dwa.gov.za; NtabeniP@dwa.gov.za; ShabanguS2@dwa.gov.za; vilanez@dwa.gov.za; mahosie@dwa.gov.za; mntambof@dwa.gov.za; davidkl@nda.agric.za; dais@daff.gov.za; AModise@environment.gov.za; MLushaba@environment.gov.za; ssebone@environment.gov.za; Lmahlangu@environment.gov.za  
**Cc:** 'Paulette'  
**Subject:** Scoping Report for WML Application - Silicon Smelters (PTY) Ltd - Rand Carbide

Dear Stakeholder,

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Kind regards,

**Inus de Wit**  
Cell: 082 786 7910  
Fax: 086 692 8820  
086 588 1770  
Email: [info@hydroscience.co.za](mailto:info@hydroscience.co.za)  
P.O. Box 1322, Ruimsig, 1732  
[www.hydroscience.co.za](http://www.hydroscience.co.za)



## Paulette

---

**From:** Inus de Wit <info@hydroscience.co.za>  
**Sent:** 18 January 2012 04:59 PM  
**To:** mtshitangoni@environment.gov.za; Tramavhona@environment.gov.za;  
dmthembu@environment.gov.za; mtheledi@mpg.gov.za; JMMabuza@wit.mpu.gov.za;  
tmtshikwatamba@wit.mpu.gov.za; cnmthimunye@wit.mpu.gov.za; dtswai@mpg.gov.za;  
pakadej@mpg.gov.za; GBatchelor@mpg.gov.za; mohauram@mpg.gov.za;  
himavodze@wit.mpu.gov.za  
**Cc:** 'Paulette'  
**Subject:** Scoping Report for WML Application - Silicon Smelters (PTY) Ltd - Rand Carbide

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Kind regards,

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Fax: 086 692 8820  
086 588 1770  
Email: [info@hydroscience.co.za](mailto:info@hydroscience.co.za)  
P.O. Box 1322, Ruimsig, 1732  
[www.hydroscience.co.za](http://www.hydroscience.co.za)



## Paulette

---

**From:** Inus de Wit <info@hydroscience.co.za>  
**Sent:** 18 January 2012 05:02 PM  
**To:** engelbrechtaj@emalahleni.gov.za; brentjiescbc@emalahleni.gov.za;  
ndlovusc@emalahleni.gov.za; sedupaneme@emalahleni.gov.za;  
Nkabindee@emalahleni.gov.za; makenamj@emalahleni.gov.za;  
mkhwnazih@emalahleni.gov.za; nkambulemp@emalahleni.gov;  
vancastlep@emalahleni.gov.za; wittlibrary@mweb.co.za; phine@sahra.org.za;  
davidp@social.mpu.gov.za; mahlanguwm@nkangaladm.org.za;  
ntekelefr@nkangaladm.org.za; makolatc@nkangala.org.za;  
Raputsoap@nkangaladm.org.za  
**Cc:** 'Paulette'  
**Subject:** Scoping Report for WML Application - Silicon Smelters (PTY) Ltd - Rand Carbide

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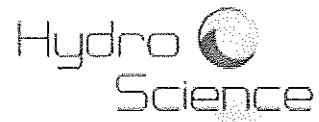
Please feel free to add your comments to the very last page of the report.

If you are unable to access the hardcopy of the report, feel free to contact HydroScience (see details below) and we will accommodate you.

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Kind regards,

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Fax: 086 692 8820  
086 588 1770  
Email: [info@hydroscience.co.za](mailto:info@hydroscience.co.za)  
P.O. Box 1322, Ruimsig, 1732  
[www.hydroscience.co.za](http://www.hydroscience.co.za)



**NOTICE OF DELIVERY:**

This serves to confirm that the **National Department of Environmental Affairs** has received the following document:

**WASTE LICENCE APPLICATION FORM**


for

**SILICON SMELETERS – RAND CARBIDE**

for

**THE STORAGE, REUSE, RECYCLING AND/OR RECOVERY OF WASTE  
AT SILICON SMELTERS (PTY) LTD – RAND CARBIDE, EMALAHLENI,  
MPUMALANGA**

Date submitted: 2012-05-11

Signature: 

Name: Kelebogile

Stamp: 

Date retrieved: 2012 /

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

P.O. Box 1322  
Ruimsig  
1732  
South Africa



Tel: + (27) 082 850 5482

Fax: + (27)086 692 8820  
+ (27) 086 588 1770

Email:  
paulette@hydrosience.co.za

www.hydrosience.co.za

1 March 2012

eMalahleni Local Municipality  
P.O. Box 3  
WITBANK  
1035

**Attention:** Mr Ronald Mukondeleli by email: Mukondelelidr@emalahleni.gov.za & post

Dear Sir,

**Silicon Smelters (Pty) Ltd – Rand Carbide: Provision of services by the eMalahleni local municipality**

I refer to recent communication received from the Department of Water Affairs (see attached letter) as well as a permit issued in terms of the old Water Act, 1956 for Rand Carbide's operations.

Department of Water Affairs has requested a copy of the agreement between Silicon Smelters – Rand Carbide and the eMalahleni Municipality for service provision.

Permit 282N (29 March 1989; ref B33/2/210/34) from the Department of Water Affairs authorised Rand Carbide the use of municipal water for industrial purposes at the premises in eMalahleni. A quantity of 515 000m<sup>3</sup>/annum (1 410 m<sup>3</sup>/day) was authorised in terms of the repealed Water Act of 1956.

As you know, this water use is not included in the National Water Act, 1998 (Act 36 of 1998) and is therefore no longer authorised by the Department of Water Affairs. It should therefore be included in an agreement between the user (Silicon Smelters – Rand Carbide) and the water services provider (eMalahleni Local Municipality). Silicon Smelters – Rand Carbide has been paying for services provided by the eMalahleni Local Municipality but has never received an agreement from eMalahleni Local Municipality (refer to attached municipal bill).

The agreement should refer to water supply, sewage management (as sewage from the plant area also discharges to the municipal sewer infrastructure) and storm water management.

The agreement between eMalahleni Local Municipality and Silicon Smelters – Rand Carbide is required as a matter of urgency. Authorities issuing the Waste Management Licence (National Department of Environmental Affairs) and Integrated Water Use Licence (Department of Water Affairs) for Silicon Smelters – Rand Carbide require proof that services are provided by the municipality to the operations before they will issue licences.

Kindly note, Ms Liziwe Kama has a copy of the storm water management plan as well as a document containing all relevant background information on the operations. If you require any further information or assistance kindly contact us.

Regards,

Paulette Jacobs



environmental affairs

Department:  
Environmental Affairs  
REPUBLIC OF SOUTH AFRICA

Private Bag X 447, PRETORIA, 0001- Fedsure Building, 315 Pretorius Street, PRETORIA

Ref No.: 12/9/11/L912/6

Enquiries: Mr. Lucas Mahlangu

Tel: (012) 310 3536 Fax: (012) 310 3753. Email: [lmahlangu@environment.gov.za](mailto:lmahlangu@environment.gov.za)

[www.environment.gov.za](http://www.environment.gov.za)

HydroScience cc  
P O Box 1233  
Ruimsig  
1732

Fax No. (086) 692 8820

Attention: Paulette Jacobs

**APPLICATION FOR A WASTE MANAGEMENT LICENCE IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT: WASTE ACT, 2008 (NO. 59 OF 2008): PROPOSED STORAGE, RESUSE, RECYCLING, RECOVERY AND TREATMENT OF HAZARDOUS WASTE FOR SILICON SMELTERS-RAND CARBIDE, MPUMALANGA PROVINCE.**

The Department confirms having received waste licence application form for the abovementioned activity on 11 May 2012.

You are hereby reminded to comply with the requirements: **Regulations 67 of GN No. R 543** with regard to the period allowed for complying with the requirements of the regulations, and **Regulations 56 and 57 of GN No. R 543** with regard to the allowance of a commenting period for interested and affected parties on all reports submitted.

Your application has been assigned with a reference number (12/9/11/L912/6). Kindly quote this reference number in any future correspondence in respect of your application. The responsible officer for the processing of your application is Ms Hlamarisa Mavodze who can be contacted on (012) 310 3059.

Please draw the applicant's attention to the fact that the activity may not commence prior to a waste licence being granted by the Department.

Should you require further detailed information, please do not hesitate to contact this office.

Yours sincerely

  
Mr. Ishaam Abader.

Deputy Director-General

Environmental Quality and Protection

Letter signed by: Mr. Lucas Mahlangu

Designation: Deputy Director: Systems

Date: 20/2/05/17

**NOTICE OF DELIVERY:**

This serves to confirm that the **Department of Water Affairs  
(Bronkhorstspuit office)** has received the following document:

**WASTE MANAGEMENT LICENCE APPLICATION REPORT**

for

**SILICON SMELTERS - RAND CARBIDE**

for

**THE STORAGE, REUSE, RECYCLING AND RECOVERY, OF WASTE  
AT SILICON SMELTERS (PTY) LTD, EMALAHLENI, MPUMALANGA  
PROVINCE**

Date submitted: 2012/01/19

Signature: \_\_\_\_\_

*[Handwritten Signature]*

Name: \_\_\_\_\_

*[Handwritten Name: HABI]*

Stamp:





## water affairs

Department:  
Water Affairs  
REPUBLIC OF SOUTH AFRICA

### MPUMALANGA

Private Bag X11259, Nelspruit, 1200. Prorom Building, Cnr Brown & Paul Kruger Street

Enq: Ms AM Rambuda

Email: [rambudaa@dwa.gov.za](mailto:rambudaa@dwa.gov.za)

Tel : 013 932 2061

Fax : 013 932 2071

File No: 16/2/7/B100/C617

Hydro Science  
P.O.BOX 1322  
Ruimsig  
1732

For Attention: Ms Paulette Jacobs

**ACKNOWLEDGEMENT OF RECEIPT OF DOCUMENT: SCOPING REPORT FOR  
WASTE MANAGEMENT LICENCE APPLICATION FOR THE STORAGE, REUSE,  
RECYCLING AND RECOVERY OF WASTE AT SILICON SMELTERS (PTY) LIMITED  
– RAND CARBIDE, EMALAHLENI, MPUMALANGA PROVINCE**

The Department of Water Affairs, Mpumalanga Regional Office, acknowledges receipt of the document by Hydro Science dated January 2012.

Please note that the Department is currently evaluating the application and will communicate with you should more information be required.

Should you have any queries, kindly contact this office for assistance at the above mentioned contact details.

Yours faithfully,

*Melato.*

PP REGIONAL HEAD: MPUMALANGA

DATE: 30/01/2012





## water affairs

Department:  
Water Affairs  
REPUBLIC OF SOUTH AFRICA

### MPUMALANGA

Private Bag x11259, Nelspruit, 1200. Prorum Building, Cnr Brown & Paul Kruger Street

**Enq:** Ms AM Rambuda  
**Email:** [rambudaa@dwa.gov.za](mailto:rambudaa@dwa.gov.za)

**Tel:** 013 932 2061  
**Fax:** 013 932 2071  
☎ 16/2/7/B100/C617

Hydro Science  
P. O. Box 1322  
**Ruimsig**  
1732

**Attention:** Ms. Paulette Jacobs

### **SCOPING REPORT FOR WASTE MANAGEMENT LICENCE APPLICATION FOR THE STORAGE, REUSE, RECYCLING AND RECOVERY OF WASTE AT SILICON SMELTERS (PTY) LIMITED – RAND CARBIDE, EMALAHLENI, MPUMALANGA PROVINCE**

The above-mentioned report prepared by Hydro Science and dated January 2012 has relevance.

The Department of Water Affairs (DWA) has evaluated the above-mentioned report and wish to comment as follows:

1. The Applicant shall conduct a preliminary legal assessment to identify all the water use activities associated with the proposed project that will require authorisation by the DWA and the applicant is hereby referred to Section 22(1) of the National Water Act, 1998 (Act 36 of 1998).
2. Therefore any other water use related activities associated with this project that are not permissible as indicated on Section 22(1) of the National Water Act, 1998 (Act 36 of 1998) shall have to be authorized by the DWA prior to such water use activities taking place and the applicant is requested to liaise with the DWA for guidance on the requirements for such an authorisation.
3. **Flood-lines:** The map of location of the proposed project showing the 1:100 year flood-line in terms of section 144 of the National Water Act, 1998 (Act No. 36 of 1998) shall be submitted to the DWA.
4. **Streams and Wetlands:** An indication shall also be provided on the availability of any wetlands, rivers and drainage lines within the area surrounding the proposed project.
5. **Page 1, Stormwater Management:** It is indicated that stormwater discharges into the municipal stormwater system and is also collected within an earth dam (Harry's dam) on site; however adequate stormwater control and management must be practiced to ensure that contaminants are not introduced into water resources during the operational phase of the proposed project.
6. **Page 6, Sewage Management:** It is indicated that sewage effluent feeds into the municipal sewage management system. The applicant is expected to provide the Department with a letter of consent from the responsible Local Municipality confirming that there will be enough capacity at the sewage works to accommodate additional sewage.

7. **Page 6, Potable water supply:** It is indicated that Rand Carbide is supplied with municipal water from Emalahleni municipality for its domestic (worker) and industrial uses. A letter of agreement between the applicant and the municipality should be submitted to this Department.
8. **Page 6, Water uses:** It is indicated that Rand Carbide also uses water abstracted from three springs located on the property since 2011. The applicant shall note that abstracting water from the springs is regarded as a water use in terms of Section 21(a) of the National Water Act 1998, Act 36 of 1998, and relevant forms must be completed and submitted to this Department.
  - **Page 6,** It is indicated that Rand Carbide also intends to effectively capture and utilize stormwater runoff for dust suppression. The applicant should note that using water for dust suppression is regarded as a water use in terms of Section 21(g) of the National Water Act 1998, Act 36 of 1998, and relevant forms must be completed and submitted to this Department.
9. **Page 1, Waste Management:** It is indicated that general waste is removed off site for disposal to the municipal landfill site. A letter of agreement between the developer and the Permit Holder of the waste disposal site shall be provided to this Department.
10. **Page 1, Hazardous Waste:** It is indicated that hazardous waste is removed off site by EnviroServ and Darkmetals for disposal to Holfontein. A letter of agreement between the developer and the Permit Holder of the waste disposal site shall be provided to this Department.
11. **Pollution Incidents:** The Applicant is referred to Section 19(1) of the National Water Act, 1998 (Act No. 36 of 1998), and to report any pollution incidents originating from the proposed project to the Regional Office of DWA within 24 hours.

Therefore the Applicant shall provide clarity on the above-mentioned issues of concern prior to any recommendations from the DWA.

Please do not hesitate to contact the DWA Regional Office should you have any queries.

Yours faithfully,

  
REGIONAL HEAD: MPUMALANGA

DATE: 2/2/12

P.O. Box 1322  
Ruimsig  
1732  
South Africa



Tel: + (27) 082 850 5482

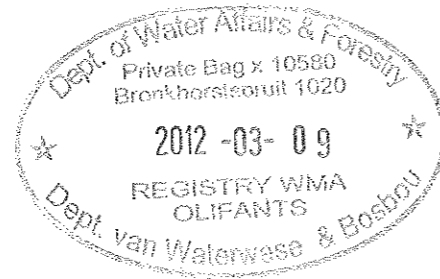
Fax: + (27)086 692 8820  
+ (27) 086 588 1770

Email:  
paulette@hydroscience.co.za

www.hydroscience.co.za

8 March 2012

Department of Water Affairs  
Private Bag X11259  
NELSPRUIT  
1200



Attention: Ms A.M. Rambuda  
By email: RambudaA@dwa.gov.za  
By hand: Rooth Street, Bronkhorstspuit

Dear Madam,

**Scoping Report for waste management licence application for the storage, reuse, recycling and recovery of waste at Silicon Smelters (Pty) Ltd – Rand Carbide, eMalahleni, Mpumalanga Province**

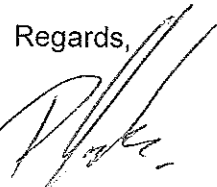
I refer to your comments dated 2 February 2012, received by fax on 6 February 2012, and would like to respond as follows:

1. The applicant (Silicon Smelters – Rand Carbide) commissioned HydroScience in 2010 to conduct a preliminary legal assessment in terms of water and waste. The application for the waste management licence (the document you reviewed) in terms of the National Environmental Management Waste Act, 2008 (Act 59 of 2008) and the application for an integrated water use licence in terms of the National Water Act (NWA), 1998 (Act 36 of 1998) were identified as requirements. All water uses were identified in 2011 and the NWA section 21(g) water uses were registered on 31 March 2011 as per government notice. The water use licence application forms have been completed and the Integrated Water and Waste Management Plan (IWWMP) in support of the water use licence is 90% complete. HydroScience is just awaiting results from the geohydrological investigation to finalise the report and submit to Department of Water Affairs.
2. Silicon Smelters – Rand Carbide do require a water use licence and HydroScience has communicated with the Department of Water Affairs and a meeting and site visit had been arranged for 22 February 2012 (see attached minutes of this meeting).
3. **Flood-lines:** A locality map is provided in the scoping report but I attach it again for easy reference. There are no water courses in proximity to the site and therefore no flood-lines are indicated. The closest water course is the Olifants River 4km north east of the site.
4. **Streams & Wetlands:** There are no streams or wetlands in proximity to the site. A drainage line originates 300m north east of the site and feeds into the Olifants River – this is the closest water course.
5. **Storm water management:** A storm water management plan was developed by Etek Consulting in 2011 (final report in September 2011) and will form part of the IWWMP for the water use licence and EIA report for the waste management licence. A meeting was held with eMalahleni Local Municipality storm water management (Mr Peter Nkambule & Ms Hessie Mkhwanazi) and a site visit took place on 8 December 2011 to obtain confirmation

that the local authority is in agreement with storm water management on the site and discharges to their municipal system. Ms Liziwe Kama from eMalahleni storm water also attended the site visit with Department of Water Affairs on 22 February 2012 and a copy of the storm water management plan and all supporting documentation was delivered to Ms Kama on 29 February 2012.

6. **Sewage management:** Sewage from the Rand Carbide site has been feeding into the municipal system since services were established in the area and since the site is located within the eMalahleni urban area. A copy of the municipal account can be supplied as proof. There is no expansion of the operation and therefore no additional sewage will be generated (no extra capacity required). HydroScience has send a letter to eMalahleni Local Mubicipality requesting them to provide a services agreement or letter confirming provision of services such as sewage management (1 March 2012 to Mr Ronald Mukondeleli).
7. **Potable water supply:** No such letter exists. A copy of the municipal account can be supplied as proof of potable water supply. There is no expansion of the operation and therefore no additional water will be required. The water obtained from the municipality will decrease with the capturing and reuse of storm water as planned. HydroScience has send a letter to eMalahleni Local Mubicipality requesting them to provide a services agreement or letter confirming provision of services such as water supply (1 March 2012 to Mr Ronald Mukondeleli).
8. **Water uses:** The forms for Section 21(a) and 21(j) water uses have been completed (use of water dewatered from springs for dust suppression) and will be submitted to the Department with the IWWMP to motivate for the authorisation of these uses. Section 21(g) water use forms (for storm water dam etc) have been submitted to the Department on 31 March 2011 but no acknowledgement of receipt has been received to date though proof of submission is available.
9. **Waste management:** General waste is removed off-site by Darkling Industrial Metals to the Kriel waste disposal facility which is an authorised facility (B33/2/210/43/P182 for GSB). Darkling Industrial Metals have been requested to provide safe disposal certificates.
10. **Hazardous waste:** Hazardous waste (such as fluorescent tubes) is removed off-site by Darkling Industrial Metals to the Holfontein waste disposal facility which is an authorised facility (B33/2/321/121/P3 for H:H). Darkling Industrial Metals have been requested to provide safe disposal certificates.
11. **Pollution incidents:** Noted.

Regards,



Paulette Jacobs

**NOTICE OF DELIVERY:**

This serves to confirm that the **National Department of Environmental Affairs** has received the following document:

**Scoping Report for Waste Management Licence**

for

**Silicon Smelters - Rand Carbide**

for

**THE STORAGE, REUSE, RECYCLING AND RECOVERY OF WASTE  
AT SILICON SMELTERS (PTY) LTD - RAND CARBIDE,  
EMALAHLENI, MPUMALANGA**

Date submitted: 2012/03/02

Signature: Mketeke

Name: Mketeke

Stamp:

<b>RECEIVED</b>	
<b>DEAT</b>	
BRANCH:	<u>EAP</u>
PRINT NAME:	<u>Mketeke</u>
ORDER No:	EXT: <u>3041</u>
DATE:	<u>02/03/2012</u>
FORWARD INVOICE TO SCM	



**environmental affairs**

Department:  
Environmental Affairs  
REPUBLIC OF SOUTH AFRICA

Private Bag X 447, PRETORIA, 0001 - Fedsure Building, 315 Pretorius Street, PRETORIA

Ref No.: 12/9/11L912/6

Enquiries: Ms Hlamarisa Mavodze

Tel: (012) 310 3059 Fax: (012) 310 3753 Email HMAvodze@environment.gov.za

[www.environment.gov.za](http://www.environment.gov.za)

Hydro Science cc  
P O Box 1233  
Ruimsig  
1732

Fax: 086 692 8820

Attention: Paulette Jacobs

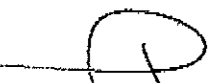
**ACCEPTANCE OF FINAL SCOPING REPORT FOR THE PROPOSED STORAGE, REUSE,  
RECYCLING RECOVERY AND TREATMENT OF HAZARDOUS WASTE FOR SILICON SMELTERS-  
RAND CARBIDE, MPUMALANGA PROVINCE.**

The Department confirms having received the above-mentioned Final Scoping Report (FSR) for the abovementioned activity on 25 May 2012.

The Department has evaluated the submitted Final Scoping Report and is satisfied that the documents comply with the minimum requirements of the Scoping Report as required by regulation 28 of GN No.R.543 of 18 June 2010. The Final Scoping Report is hereby accepted by the Department.

You are hereby reminded that the activity must not commence prior to Waste Management Licence being granted by the Department.

Yours sincerely

  
Ms. Nolwazi Cobbinah  
Acting Deputy Director-General  
Environmental Quality and Protection  
Letter signed by: Mr. Lucas Mahlangu  
Designation: Control Environmental Officer: Systems  
Date: 2012/08/13

P.O. Box 1322  
Ruimsig  
1732  
South Africa  
  
www.hydroscience.co.za



Tel: + (27) 082 850 5482  
Fax: + (27)086 692 8820  
+ (27) 086 588 5482  
Email:  
paulette@hydroscience.co.za

2 March 2012

The Director: Authorisation and Waste Disposal Management  
Private Bag X447  
Pretoria  
0001

**Attention:** Mr Mpho Tshitangoni (Directorate: Authorisation and Waste Disposal Management)

Delivered by hand: 315 Pretorius Street, Fedsure Forum Building, North Tower, Second Floor

Dear Sir,

**SUBMISSION OF DRAFT WASTE LICENCE APPLICATION FORM AND SCOPING REPORT**

HydroScience cc, as Environmental Assessment Practitioner (EAP), has been appointed by Silicon Smelters (Pty) Ltd - Rand Carbide to undertake an Environmental Impact Assessment (EIA) process and submit a Scoping Report, Environmental Impact Report (EIR) and Environmental Management Programme (EMPr) report in support of the application for a waste management licence for the facility.

We hereby submit a draft Waste Management Licence application form (an original plus three copies) and Scoping Report. We respectfully request that the Department issue a reference number for this project and evaluate the Scoping Report and provide written confirmation for the project to proceed to the EIA phase.

Please note that a fully comprehensive Waste Management Licence Application form will be submitted with the Environmental Impact Assessment (EIA) report.

Regards,

Paulette Jacobs



**environmental affairs**

Department:  
Environmental Affairs  
REPUBLIC OF SOUTH AFRICA

Private Bag X 447, PRETORIA, 0001- Fedsure Building, 315 Pretorius Street, PRETORIA

Ref No.: 12/9/11/L912/6  
Enquiries: Ms Hlamarisa Mavodze  
Tel: (012) 310 3059 Fax: (012) 310 3753  
Email: HMavodze@environment.gov.za

Hydro Science cc  
P O Box 1233  
Ruimsig  
1732

Fax: 086 692 8820

Attention: Ms. Paulette Jacobs

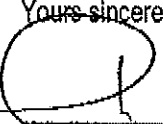
**ACKNOWLEDGEMENT OF RECEIPT OF SCOPING REPORT FOR THE PROPOSED STORAGE, REUSE, RECYCLING, RECOVERY AND TREATMENT OF HAZARDOUS WASTE FOR SILICON SMELTERS - RANDCARBIDE SITE, MPUMALANGA PROVINCE.**

The Department confirms having received the above-mentioned Final Scoping Report for the abovementioned activity on 25 May 2012

The Department will be evaluating the report in order to ascertain the documents comply with the minimum requirements of the (FSR) NEMA Regulations, 2010.

You are hereby reminded that the activity may not commence prior to a Waste Management Licence being granted by the Department.

Yours sincerely

  
Mr. Ishaam Abader  
Deputy Director-General  
Environmental Quality and Protection  
Letter signed by: Mr. Lucas Mahlangu  
Designation: Deputy Director: Systems

Date: 2012/05/30



**NOTICE OF DELIVERY:**

This serves to confirm that the **Witbank Public Library** in Emalahleni has received the following document:

**WASTE MANAGEMENT LICENSE APPLICATION FOR THE STORAGE, REUSE, RECYCLING AND RECOVERY OF WASTE AT SILICON SMELTERS (PTY) LIMITED - RAND CARBIDE, EMALAHLENI, MPUMALANGA**

with

**THE NATIONAL DEPARTMENT OF ENVIRONMENTAL AFFAIRS**

Date submitted: 2012-08-23

Signature: *Nelly Mathone*

Name: *Nelly Mathone*



Date retrieved: 2012 /

Signature: *Johanette Rozmiarek*

Name: *Johanette Rozmiarek*

*No comments*

## FAX TRANSMISSION SHEET



To: AFGRI  
Attention: To whom it may concern  
Fax number: 013 656 4541  
Date: 2012-08-23  
From: Paulette Jacobs  
Tel: 082 850 5482  
Number of pages: 1 (including this page)

---

Should you experience any problems in transmission of this document please phone 082 850 5482.

Dear interested and affected party,

**Public Review of WML Impact Assessment Report Silicon Smelters – Rand Carbide on Portions 60 and 101 of the farm Joubertsrust 310 JS**

The process for obtaining a Waste Management License for the activities and facilities at Silicon Smelters (Pty) Ltd – Rand Carbide in eMalahleni, Mpumalanga has reference:

Stakeholders are hereby notified of the availability of the Environmental Impact Assessment Report relating to the application for a Waste Management License for public review. The report will be available for public review and comment over a 40 day calendar period from 23 August 2012 until 3 October 2012. A hard copy of the Draft EIR is available at the Witbank Public Library (013 656 6229) located on the corner of Hofmeyer street and Elizabeth Street.

Please feel free to add your comments on the comments sheet at the back of the file.

Thank you kindly.  
Regards,

Paulette Jacobs

\* \* \* Immediate TX Result Report ( 23. Aug. 2012 16:28 ) \* \* \*

1) The Pen Den  
2) The Pen Den 27117644235

Date	Time	Destination	Mode	TXtime	Page	Result	User Name	File No.
23. Aug.	16:28	0136564541	G3TES	0'12"	P.	1 OK		9186

# : Batch	C : Confidential	S : Transfer	P : SEP Code
M : Memory	L : Send later	@ : Forwarding	E : ECM
S : Standard	D : Detail	F : Fine	U : Super Fine
> : Reduction	H : Stored/D. Server	* : LAN-Fax	+ : Delivery
Q : RX Notice Req.	A : RX Notice	✉ : Mail	<-> : IP-FAX
□ : Folder			

## FAX TRANSMISSION SHEET



To: Nkangala Municipality  
Attention: Mr P Raputsoa  
Fax number: 013 249 2145  
Date: 2012-08-23  
From: Paulette Jacobs  
Tel: 082 850 5482  
Number of pages: 1 (including this page)

---

Should you experience any problems in transmission of this document please phone 082 850 5482.

Dear interested and affected party,

**Public Review of WML Impact Assessment Report Silicon Smelters – Rand Carbide on Portions 60 and 101 of the farm Joubertsrust 310 JS**

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Please feel free to add your comments on the comments sheet at the back of the file.

Thank you kindly  
Regards,

Paulette Jacobs

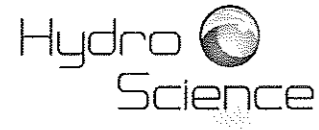
\* \* \* Immediate TX Result Report ( 23. Aug. 2012 16:34 ) \* \* \*

1) The Pen Den  
2) The Pen Den 27117644235

Date	Time	Destination	Mode	TXtime	Page	Result	User Name	File No.
23. Aug.	16:34	0132492145	G3TES	0'12"	P.	1 OK		9192

# : Batch	C : Confidential	S : Transfer	P : SEP Code
M : Memory	L : Send later	@ : Forwarding	E : ECM
S : Standard	D : Detail	F : Fine	U : Super Fine
y : Reduction	H : Stored/D. Server	* : LAN-Fax	+ : Delivery
Q : RX Notice Req.	A : RX Notice	☞ : Mail	<-> : IP-FAX
☐ : Folder			

## FAX TRANSMISSION SHEET



**To:** Houtkraal poles and timber  
**Attention:** To whom it may concern  
**Fax number:** 013 650 1888  
**Date:** 2012-08-23  
**From:** Paulette Jacobs  
**Tel:** 082 850 5482  
**Number of pages:** 1 (including this page)

---

Should you experience any problems in transmission of this document please phone 082 850 5482.

Dear interested and affected party,

**Public Review of WML Impact Assessment Report Silicon Smelters – Rand Carbide on Portions 60 and 101 of the farm Joubertsrust 310 JS**

The process for obtaining a Waste Management License for the activities and facilities at Silicon Smelters (Pty) Ltd – Rand Carbide in eMalahleni, Mpumalanga has reference:

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Please feel free to add your comments on the comments sheet at the back of the file.

Thank you kindly  
Regards,

Paulette Jacobs

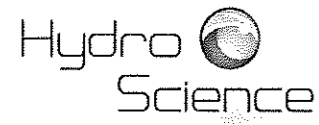
\* \* \* Immediate TX Result Report ( 23. Aug. 2012 16:29 ) \* \* \*

1) The Pen Den  
2) The Pen Den 27117644235

Date	Time	Destination	Mode	TXtime	Page	Result	User Name	File No.
23. Aug.	16:29	0136501888	G3TES	0'24"	P.	1 OK		9187

# : Batch	C : Confidential	S : Transfer	P : SEP Code
M : Memory	L : Send later	@ : Forwarding	E : ECM
S : Standard	D : Detail	F : Fine	U : Super Fine
> : Reduction	H : Stored/D. Server	x : LAN-Fax	+ : Delivery
Q : RX Notice Req.	A : RX Notice	☞ : Mail	<-> : IP-FAX
☐ : Folder			

## FAX TRANSMISSION SHEET



To: Fanus van der Walt  
Attention: Fanus van der Walt  
Fax number: 013 656 0892  
Date: 2012-08-23  
From: Paulette Jacobs  
Tel: 082 850 5482  
Number of pages: 1 (including this page)

---

Should you experience any problems in transmission of this document please phone 082 850 5482.

Dear interested and affected party,

**Public Review of WML Impact Assessment Report Silicon Smelters – Rand Carbide on Portions 60 and 101 of the farm Joubertsrust 310 JS**

The process for obtaining a Waste Management License for the activities and facilities at Silicon Smelters (Pty) Ltd – Rand Carbide in eMalahleni, Mpumalanga has reference:

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Please feel free to add your comments on the comments sheet at the back of the file.

Thank you kindly  
Regards,

Paulette Jacobs



\* \* \* Immediate TX Result Report ( 23. Aug. 2012 16:36 ) \* \* \*

1) The Pen Den  
2) The Pen Den 27117644235

Date	Time	Destination	Mode	TXtime	Page	Result	User Name	File No.
23. Aug.	16:35	0136560892	GSTES	0'42"	P.	1 OK		9193

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M : Memory	L : Send later	@ : Forwarding	E : ECM
S : Standard	D : Detail	F : Fine	U : Super Fine
> : Reduction	H : Stored/D. Server	* : LAN-Fax	+ : Delivery
Q : RX Notice Req.	A : RX Notice	✉ : Mail	<-> : IP-FAX
□ : Folder			

## FAX TRANSMISSION SHEET



To: Lintal  
Attention: To whom it may concern  
Fax number: 086 547 1479  
Date: 2012-08-23  
From: Paulette Jacobs  
Tel: 082 850 5482  
Number of pages: 1 (including this page)

---

Should you experience any problems in transmission of this document please phone 082 850 5482.

Dear interested and affected party,

**Public Review of WML Impact Assessment Report Silicon Smelters – Rand Carbide on Portions 60 and 101 of the farm Joubertsrust 310 JS**

The process for obtaining a Waste Management License for the activities and facilities at Silicon Smelters (Pty) Ltd – Rand Carbide in eMalahleni, Mpumalanga has reference:

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Please feel free to add your comments on the comments sheet at the back of the file.

Thank you kindly  
Regards,

Paulette Jacobs

\* \* \* Immediate TX Result Report ( 23. Aug. 2012 16:32 ) \* \* \*

1) The Pen Den  
2) The Pen Den 27117644235

Date	Time	Destination	Mode	TXtime	Page	Result	User Name	File No.
23. Aug.	16:31	0865471479	G3TS	0'46"	P. 1	OK		9189

# : Batch	C : Confidential	S : Transfer	P : SEP Code
M : Memory	L : Send later	@ : Forwarding	E : ECM
S : Standard	D : Detail	F : Fine	U : Super Fine
y : Reduction	H : Stored/D. Server	* : LAN-Fax	+ : Delivery
Q : RX Notice Req.	A : RX Notice	< : Mail	<> : IP-FAX
Folder			

## Louise Van Wyk

---

**From:** Louise Van Wyk <louise@hydroscience.co.za>  
**Sent:** 23 August 2012 08:36 AM  
**To:** 'admin@witplumb.co.za'; 'gregb@live.co.za'; 'connie.dibb@afgri.co.za';  
'Amanda.botha@afrox.linde.com'; 'dolf.groenewald@afrox.linde.com';  
'htswtb@mweb.co.za'; 'Mantella310@mweb.co.za'; 'admin@filvent.co.za';  
'gdennis@mweb.co.za'; 'Fanusvdw.avc@gmail.com'; 'bakone@telkomsa.net';  
'Stephen.wentzel@vitalpt.co.za'  
**Cc:** paulette@hydroscience.co.za  
**Subject:** Public Review of WML Impact Assessment Report Silicon Smelters – Rand Carbide  
on Portions 60 and 101 of the farm Joubertsrust 310 JS

Dear interested and affected party

The process for obtaining a Waste Management License for the activities and facilities at Silicon Smelters (Pty) Ltd – Rand Carbide in eMalahleni, Mpumalanga has reference:

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Please feel free to add your comments on the comments sheet at the back of the file.

Thank you kindly

Louise van Wyk  
Cell: 082 225 7663  
Fax: 086 692 8820  
086 588 1770  
Email: [louise@hydroscience.co.za](mailto:louise@hydroscience.co.za)  
P.O. Box 1322, Ruimsig, 1732  
[www.hydroscience.co.za](http://www.hydroscience.co.za)



## Louise Van Wyk

---

**From:** Louise Van Wyk <louise@hydroscience.co.za>  
**Sent:** 23 August 2012 08:39 AM  
**To:** 'jtavares@cybertrade.co.za'; 'treza.tavares10@gmail.com'; 'ared@proparts.co.za';  
'louisp@komatsu.co.za'; 'witbank@ilips.co.za'; 'witbank@engsup.co.za';  
'mpumagrass@vodamail.co.za'; 'ria@ilips.co.za'; 'venom@venomracing.co.za';  
'carbontech@lantic.net'; 'lintal@mweb.co.za'; 'shaboni@telkomsa.net';  
'witbank@uretech.co.za'; 'pegasustyres@telkomsa.net'  
**Cc:** paulette@hydroscience.co.za  
**Subject:** Public Review of WML Impact Assessment Report Silicon Smelters – Rand Carbide  
on Portions 60 and 101 of the farm Joubertsrust 310 JS

Dear interested and affected party

The process for obtaining a Waste Management License for the activities and facilities at Silicon Smelters (Pty) Ltd – Rand Carbide in eMalahleni, Mpumalanga has reference:

Stakeholders are hereby notified of the availability of the Environmental Impact Assessment Report relating to the application for a Waste Management License for public review. The report will be available for public review and comment over a 40 day calendar period from 23 August 2012 until 3 October 2012. A hard copy of the Draft EIR is available at the Witbank Public Library (013 656 6229) located on the corner of Hofmeyer street and Elizabeth Street.

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Thank you kindly

Louise van Wyk  
Cell: 082 225 7663  
Fax: 086 692 8820  
086 588 1770  
Email: [louise@hydroscience.co.za](mailto:louise@hydroscience.co.za)  
P.O. Box 1322, Ruimsig, 1732  
[www.hydroscience.co.za](http://www.hydroscience.co.za)



## Louise Van Wyk

---

**From:** Louise Van Wyk <louise@hydroscience.co.za>  
**Sent:** 23 August 2012 08:41 AM  
**To:** 'ontvangs@ccatt.co.za'; 'info@propmentum.com'; 'sculptonconcrete@lantic.net';  
'Nbdlamini05@gmail.com'; 'francob@enviroserv.co.za';  
'bakwenconcrete@vodamail.co.za'; 'abre@live.co.za'  
**Cc:** paulette@hydroscience.co.za  
**Subject:** Public Review of WML Impact Assessment Report Silicon Smelters – Rand Carbide  
on Portions 60 and 101 of the farm Joubertsrust 310 JS

Dear interested and affected party

The process for obtaining a Waste Management License for the activities and facilities at Silicon Smelters (Pty) Ltd – Rand Carbide in eMalahleni, Mpumalanga has reference:

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Please feel free to add your comments on the comments sheet at the back of the file.

Thank you kindly

Louise van Wyk  
Cell: 082 225 7663  
Fax: 086 692 8820  
086 588 1770  
Email: [louise@hydroscience.co.za](mailto:louise@hydroscience.co.za)  
P.O. Box 1322, Ruimsig, 1732  
[www.hydroscience.co.za](http://www.hydroscience.co.za)



## Louise Van Wyk

---

**From:** Louise Van Wyk <louise@hydroscience.co.za>  
**Sent:** 23 August 2012 08:43 AM  
**To:** 'vanaswegenj@dwa.gov.za'; 'mautjanal@dwa.gov.za'; 'MalesaJ@dwa.gov.za';  
MolotoM@dwa.gov.za; MaceveleS@dwa.gov.za; 'Mesok@dwa.gov.za';  
'NtabeniP@dwa.gov.za'; 'ShabanguS2@dwa.gov.za'; 'vilanez@dwa.gov.za';  
'mahosie@dwa.gov.za'; MntamboF@dwa.gov.za  
**Cc:** paulette@hydroscience.co.za  
**Subject:** Public Review of WML Impact Assessment Report Silicon Smelters – Rand Carbide  
on Portions 60 and 101 of the farm Joubertsrust 310 JS

Dear interested and affected party

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Thank you kindly

Louise van Wyk  
Cell: 082 225 7663  
Fax: 086 692 8820  
086 588 1770  
Email: [louise@hydroscience.co.za](mailto:louise@hydroscience.co.za)  
P.O. Box 1322, Ruimsig, 1732  
[www.hydroscience.co.za](http://www.hydroscience.co.za)



## Louise Van Wyk

---

**From:** Louise Van Wyk <louise@hydroscience.co.za>  
**Sent:** 23 August 2012 08:44 AM  
**To:** davidkl@nda.agric.za; 'dais@daff.gov.za'; amodise@environment.gov.za;  
'mlushaba@environment.gov.za'; 'ssebone@environment.gov.za';  
'lmahlangu@environment.gov.za'; MTshitangoni@environment.gov.za;  
'Tramavhona@environment.gov.za'; 'dmthembu@environment.gov.za'  
**Cc:** paulette@hydroscience.co.za  
**Subject:** Public Review of WML Impact Assessment Report Silicon Smelters – Rand Carbide  
on Portions 60 and 101 of the farm Joubertsrust 310 JS

Dear interested and affected party

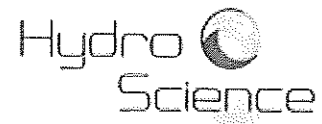
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Louise van Wyk  
Cell: 082 225 7663  
Fax: 086 692 8820  
086 588 1770  
Email: [louise@hydroscience.co.za](mailto:louise@hydroscience.co.za)  
P.O. Box 1322, Ruimsig, 1732  
[www.hydroscience.co.za](http://www.hydroscience.co.za)





## Louise Van Wyk

---

**From:** Louise Van Wyk <louise@hydroscience.co.za>  
**Sent:** 23 August 2012 08:45 AM  
**To:** mtheledi@mpg.gov.za; jmmabuza@wit.mpu.gov.za;  
'tmtshikwatamba@wit.mpu.gov.za'; cnmthimunye@wit.mpu.gov.za;  
himavodze@wit.mpu.gov.za; 'dtswai@mpg.gov.za'; pakadej@mpg.gov.za;  
'GBatchelor@mpg.gov.za'; 'mohauram@mpg.gov.za'  
**Cc:** paulette@hydroscience.co.za  
**Subject:** Public Review of WML Impact Assessment Report Silicon Smelters – Rand Carbide  
on Portions 60 and 101 of the farm Joubertsrust 310 JS

Dear interested and affected party

The process for obtaining a Waste Management License for the activities and facilities at Silicon Smelters (Pty) Ltd – Rand Carbide in eMalahleni, Mpumalanga has reference:

Stakeholders are hereby notified of the availability of the Environmental Impact Assessment Report relating to the application for a Waste Management License for public review. The report will be available for public review and comment over a 40 day calendar period from 23 August 2012 until 3 October 2012. A hard copy of the Draft EIR is available at the Witbank Public Library (013 656 6229) located on the corner of Hofmeyer street and Elizabeth Street.

Please feel free to add your comments on the comments sheet at the back of the file.

Thank you kindly

Louise van Wyk  
Cell: 082 225 7663  
Fax: 086 692 8820  
086 588 1770  
Email: [louise@hydroscience.co.za](mailto:louise@hydroscience.co.za)  
P.O. Box 1322, Ruimsig, 1732  
[www.hydroscience.co.za](http://www.hydroscience.co.za)



## Louise Van Wyk

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**From:** Louise Van Wyk <louise@hydroscience.co.za>  
**Sent:** 23 August 2012 08:47 AM  
**To:** engelbrechtaj@emalahleni.gov.za; 'brentjiescbc@emalahleni.gov.za';  
'ndlovusc@emalahleni.gov.za'; 'sedupaneme@emalahleni.gov.za';  
nkabindeej@emalahleni.co.za; 'makenamj@emalahleni.gov.za';  
vancastlep@emalahleni.gov.za; 'witlibrary@mweb.co.za'  
**Cc:** paulette@hydroscience.co.za  
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## Louise Van Wyk

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**From:** Louise Van Wyk <louise@hydroscience.co.za>  
**Sent:** 23 August 2012 08:48 AM  
**To:** 'phine@sahra.org.za'; 'davidp@social.mpu.gov.za';  
'mahlanguwm@nkangaladm.org.za'; 'ntekelefr@nkangaladm.org.za';  
'makolatc@nkangala.org.za'; 'DevelomentandPlanningUnit@nkangaladm.org.za'  
**Cc:** paulette@hydroscience.co.za  
**Subject:** Public Review of WML Impact Assessment Report Silicon Smelters – Rand Carbide  
on Portions 60 and 101 of the farm Joubertsrust 310 JS

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**Louise Van Wyk**

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**From:** Louise Van Wyk <louise@hydroscience.co.za>  
**Sent:** 23 August 2012 08:49 AM  
**To:** 'linal@mweb.co.za'; ria@ilips.co.za; witbank@ilips.co.za  
**Subject:** Public Review of WML Impact Assessment Report Silicon Smelters – Rand Carbide on Portions 60 and 101 of the farm Joubertsrust 310 JS

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**Louise Van Wyk**

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**From:** Louise Van Wyk <louise@hydroscience.co.za>  
**Sent:** 23 August 2012 08:50 AM  
**To:** 'mlushaba@environment.gov.za'  
**Subject:** Public Review of WML Impact Assessment Report Silicon Smelters – Rand Carbide on Portions 60 and 101 of the farm Joubertsrust 310 JS

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## Louise Van Wyk

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**From:** Louise Van Wyk <louise@hydroscience.co.za>  
**Sent:** 23 August 2012 05:47 PM  
**To:** 'kamal@emalahleni.gov.za'; MoolmanW@dwa.gov.za  
**Cc:** paulette@hydroscience.co.za  
**Subject:** Public Review of WML Impact Assessment Report Silicon Smelters – Rand Carbide on Portions 60 and 101 of the farm Joubertsrust 310 JS

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**Louise Van Wyk**

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**From:** Louise Van Wyk <louise@hydroscience.co.za>  
**Sent:** 24 August 2012 08:42 AM  
**To:** 'HMavodze@environment.gov.za'  
**Cc:** paulette@hydroscience.co.za  
**Subject:** Public Review of WML Impact Assessment Report Silicon Smelters – Rand Carbide on Portions 60 and 101 of the farm Joubertsrust 310 JS

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