Khumani Iron Ore Mine

Final Rehabilitation Plan for 2018/2019

Report Purpose

Providing the client and Regulatory Authority with an understanding of the Final Closure Plan for the mine.

Report Status

FINAL

Report Reference

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With more than 14 years' experience in environmental management and the consulting industry, she follows a methodical and practical approach in attending to environmental problems and identifying environmental solutions throughout the planning, initiation, operation and decommissioning or closure of projects.

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1 INTRODUCTION AND TERMS OF REFERENCE

1.1 Introduction

Khumani Iron Ore Mine (hereafter referred to as "Khumani"), located near Kathu in the Northern Cape Province, is owned by Associated Manganese Mines of South Africa Limited ("Assmang").

Khumani has an approved Mining Right, granted by the Department of Mineral Resources (hereafter referred to as the "DMR") in January 2007 for mining activities associated with iron ore. Khumani comprises of four (4) farms, namely Parson 564 (including Police Camp 692) (Portions 0, 2, 8 and 9), King (Portions 0), Bruce 544 (Portion RE) and Mokaning 560 (Portions 0, 1, 2, 3, and 4), hereafter referred to as "Parson", "King", "Bruce" and "Mokaning" respectively.

The Mining Right is located over portions of the farms King, Bruce and Mokaning. The overall mining area, however, also includes the farm Parson, where the plant infrastructure, product- and low grade stockpiles, explosives magazine and main offices are situated. The last mentioned farm property does not form part of the mining right and therefore no mining activities are undertaken over this farm.

Construction activities at Khumani commenced during June 2006, with an environmental approval in terms of the Environment Conservation Act, 1989 (Act No. 73 of 1989) (hereafter referred to as the "ECA"), while operational activities on the farm Bruce commenced during May 2007.

Khumani is an opencast Iron Ore Mine and is classified in terms of the DMR as a Primary Risk Class: A, which relates to the mining of base metals (including Iron Ore) for a Large Mining Operation, which includes a mine, mine waste, plant and plant waste.

The mining operations include opencast mining operations, within seven (7) opencast pits, from where the Run of Mine is trucked to a primary crusher and is transported via conveyor to the secondary and tertiary crushers, with the latter located at the Beneficiation Plant on the farm Parson. Material is washed and screened in the Beneficiation Plants, where the final product is stockpiled for rail transport to either Saldanha for export (via the OREX Line) or Port Elizabeth for local markets (via Transnet Fright Rail (TFR)). Waste Rock (or low-grade material) is placed on, what will in future be named the Low Grade Stockpiles, and earmarked for reprocessing in the future, depending on market requirements. Waste material from the beneficiation process is pumped through a series of thickeners to the Paste Disposal Facility located on the farm King. Additional ancillary mine infrastructure has been constructed, such as the main offices, access roads, haul roads, power lines, fences for security purposes, etc. The mine has, in the past number of years, invested in the delineation of its primary catchment areas for the purposes of designing a detailed clean and dirty water management system for the mine. One of the key purposes of this system is the importance of water conservation. The area in which the mine is located is characterised as a water negative environment, i.e. evaporation exceeds precipitation. The mine is committed to reuse as much water as possible, not only from an environmental and sustainable viewpoint, but also due to the fact that the mine is reliant on purchasing water from the Sedibeng Water Pipeline, which is currently considered to be an unreliable source of water supply, having often resulted in the mine not having access to water. Water from the storm water system is utilised as a dust suppressant over roads, in combination with roads also being treated with a dust suppressant.

The mining infrastructure associated with each farm of the Mining Right is detailed as follows:

Parson:

- Rapid Load-Out Facility;
- Product Stockpile Area;
- Run of Mine (ROM) Stockpile Area;
- Discard Stockpile (to be known as the Low Grade ROM Stockpile);

- The mine is currently in the process of undertaking an Environmental Authorisation Process to increase this facility in terms of its footprint, and through additional infrastructure such as a Reclaiming Facility.

- Plant Area (Original Beneficiation Plant and the Wet, High-Intensity Magnetic Separation (WHIMS) Plant);
    - The mine is currently in the process of undertaking an Environmental Authorisation Process to establish a second WHIMS Plant. During 2013 the mine was awarded with approval for the establishment of another Plant, the Off-Grade 2 Plant. This plant has as yet not been constructed and for this reason, has not been included in this 2018 assessment.
- Plant Offices;
- Third Party Stockpile Area
- Workshop Areas;
- Explosive Magazine (operated by Sasol Nitro);
- Sewage Facilities;
- Conveyors;
- Storm Water Management Infrastructure (channels and dam);
- Borrow Pits; and
- Contractor Workshop Areas.

<u>Bruce:</u>

- Primary Crusher;
- Secondary Crusher;
- Mine Workshops;
- Offices;
- Overland Conveyors;
- Sewage Facilities;
- Contractor Workshop Areas;
- Opencast Operations (five main Opencast Pits – BA05, BB01, BC01, BC02, BC03);
- Topsoil Stockpile;
- Barrier Pillar Mining operations;
- Panhandle Dump;
- Low Grade ROM Stockpile (Waste Rock Dump); and
- Storm Water Management Infrastructure (channels and dam).

<u>King/ Mokaning:</u>

- Paste Disposal Facility;
- Topsoil Stockpile;
- Low Grade Run of Mine (ROM) Stockpile;
- Waste Rock Dump;
    - A second Waste Rock Dump is planned in the near future. The mine is currently in the process of undertaking an Environmental Authorisation Process for the Dump.
- Contractor Workshop Areas;
- Opencast Pits (two main opencast pits – KM01, KM02);
- Primary and Secondary Crusher;
- Sewage Facilities;
- TFR Diversion has been completed and the decommissioned Port Elizabeth Railway Line is being dismantled;
- River Diversion associated with the TFR Diversion;
- Mine Workshops; and
- Offices.

Linear Activities Connecting the Farms Include:

- Conveyors;
- Roads; and
- Power lines.

In addition to the above, the mine has obtained approval for the construction and operation of the proposed Off-Grade 2 Plant, construction of this facility is however still on hold due to the current economic setting.

1.2 Local Setting

Khumani is situated 15km south of Kathu, adjacent to the Kumba Iron Ore Mine and compromises of four (4) farms, namely Parson, King, Bruce and Mokaning.

The mine falls within two Local and two District Municipalities. The farm Mokaning is situated within the Tsantsabane Local Municipality (NC085), which forms part of the ZF Mgcawu District Municipality (formerly known as the Siyanda District Municipality). The farms Parson, Bruce and King are situated within the Gamagara Local Municipality (NC01B1), which forms part of the John Taolo Gaetsewe District Municipality (formerly known as the Kgalagadi District Municipality). Neighbouring towns and villages include Olifantshoek, Beeshoek, Postmasburg and Dingleton. The main industries in the area include mining (mainly of manganese ore, iron ore and tiger's eye), agriculture (mainly cattle, sheep, goat and game farming) and tourism.

1.3 Current Environmental Authorisations

The mine is operating with all required environmental authorisations in terms of the:

- National Environmental Management Act, 1998 (Act No. 107 of 1998) (hereafter referred to as the "NEMA") [also the original approval in terms of the Environmental Conservation Act, 1989 (Act No. 73 of 1989) (hereafter referred to as the "ECA")];
- National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) (hereafter referred to as the "NEM:WA);
- Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002) (hereafter referred to as the "MPRDA"); and
- National Water Act, 1998 (Act No. 36 of 1998) (hereafter referred to as the "NWA").
    - The aforementioned Act makes provision for a Water Use Licence (hereafter referred to as a "WUL"), which was obtained during 2013. This Licence is currently being amended by the Department of Water and Sanitation (hereafter referred to as the "DWS") due to inconsistencies found in the Licence.

These include the following:

- Permits:
    - NEMA (and ECA):
        - Permit 43/2006 for the development of an iron ore opencast mine with all associated infrastructure.
        - Permit 47/2009 for the Railway Line Diversion and Local Siding Establishment.
        - Permit 37/2012 for the expansion of diesel storage and a silo for explosives, construction of a tar road and additional refuelling station, storm water dams and storage tanks.
        - Permit 56/2013 for the Off-Grade 2 Plant.
        - Permit 21/2016 for the expansion of the Parson Low Grade Stockpile (previously the Parson Discard Dump), infrastructure associated with the reworking of this facility, expansion of the King/ Mokaning and Bruce Low Grade ROM Stockpiles, and the establishment of additional Low Grade ROM Stockpiles on the farm King.
    - NEM:WA:

- Permit 12/9/11/L812/8 for the Landfill Site and Hazardous Storage Facility

- MPRDA
  - MPRDA Environmental Management Programme (EMP) Record of Decision (ROD) 2007 for the new Mining Operation and associated EMP dated February 2006.
  - MPRDA EMP ROD – undated 2007 (document date of modification states August 2007) for the Barrier Pillar and associated EMP dated April 2007 (EMP resulted in a change to certain commitments by the mine since the original EMP).
  - MPRDA EMP ROD 2011 – for the additional infrastructure such the local siding in line with Permit 47/2009.
  - MPRDA EMP ROD 2012 – for the additional infrastructure such as the diesel storage in line with Permit 37/2012.
- NWA:
  - Water Use Licence (WUL): 10/D41J/BC1J/2122 for the 2013 WUL.

1.4 Pending Environmental Authorisations

Through Khumani's ongoing commitment to optimise its existing mineral resources, the design and operational team has identified the need for two (2) additional process facilities to optimise beneficiation with the aim of producing the required grade for its markets and strive to meet its approved production allocation. These facilities include the Off-Grade 2 Plant (approved in terms of the NEMA during October 2013) and the proposed WHIMS 2 Plant (part of the pending Environmental Authorisation application – submitted but not yet approved).

1.4.1 Off-Grade 2 Plant Project

The construction of the Off-Grade 2 Plant has been placed on hold due to the current decline in the Iron Ore Market. When the market stabilises the feasibility of the Off-Grade 2 Plant will be reinvestigated. The Off-Grade 2 Environmental Authorisation was valid for a period of three (3) years from allocation (i.e. up until the last quarter of 2016) and the opportunity to renew this application has subsequently lapsed. The implication thereof is that the mine will have to resubmit an application for authorisation for this project.

1.4.2 New King Low Grade Sorter Plant and Silo Project

It is Khumani's intention to initiate certain additional activities on site. These will include the establishment of a Low Grade Run of Mine (ROM) Sorter Plant, south-west of the existing King Plant, the decommissioning of the existing Magazines and Silos on site, and the establishment of two new Silos/Magazines areas on site to replace the decommissioned sites.

<u>The first project:</u>

The mine intends to establish a new Low Grade ROM Sorter Plant to beneficiate the low-grade ROM from the Khumani Opencast Pit operations at the King Mine. The project will be developed in a phased approach. Phase 1 will involve the processing of 700tph ROM through a sorter plant. Phase 2 will be a second plant similar to Phase 1 allowing an additional 700tph to be processed. The -32mm size fraction stockpile emanating from Phase 1 and Phase 2 will be located on the already approved Low Grade ROM Stockpile, as well as the low-low grade sorter discharge ROM stockpile. For the Phase 3 portion of the plant, the -32mm stockpile will be re-located to a position east of the Low Grade ROM Sorter plant. Sorter plant material, which can be processed during later phases of the plant will be stockpiled on the existing Low Grade ROM Stockpile, located to the west of the proposed plant.

The low-grade material (grade not further processed as part of this plant output) emanating from the Phase1, Phase 2 and Phase 3 sorter plants will be stockpiled on the already approved Low Grade ROM Stockpile. The intention is to beneficiate a product, which is currently not being processed by the current plant at Khumani, thus re-enforcing one of the aims at Khumani, which is to ensure optimal beneficiation of ROM.

In terms of NEM:WA and associated Regulations, which came into effect on 24 July 2015, and which include Mine Residue Stockpiles as listed Waste Management Activities, all such activities that commenced prior to 24 July 2015, may be regarded as lawful and need not be authorised (Regulation 7(1) of GN 921 contains the relevant transitional requirements). Prior to the NEM:WA Regulations of 2015, the reclamation of residue for re-use did not require EMP amendments, as it fell within the definition of mining (as defined in the MPRDA), especially in this instance where no separate infrastructure (e.g. crushing plants) were constructed that had to be reflected in the EMPs. However, Khumani has approval in terms of the NEMA and the MPRDA to rework its Low Grade ROM Stockpiles on site through the approved EMPs and as a result a Waste Management Licence will not be required. Activities associated with the Low Grade Sorter Plant, such as the thickener process (Phase 3), will not result in storage or disposal of dirty water, but is considered an integral part of the beneficiation process for optimal water reuse. Waste from the Low Grade Sorter Plant will be deposited on the approved Low Grade Stockpile [Permit 21/2016 issued by the Northern Cape Department of Environment and Nature Conservation (NCDENC)], which is located to the south-west of the proposed plant. Low grade fines (-10mm) emanating from the wet Phase 3 beneficiation processes will be deposited on the approved Paste Disposal Facility [approved in terms of the MPRDA, Ref: NC30/5/1/2/3//1/070EM, dated 25 January 2007; the Environmental Impact Assessment (EIA) Regulations under ECA, Ref 43/2006, dated 13 June 2006; and the NWA, Ref 10/D41J/BC1J/2122, dated 16 March 2013].

The second project:

Khumani will decommission the existing emulsion silos located on farm King and farm Parson.

At King Mine, the silos will be relocated due to encroaching mining activities. The new silos will be established on farm Mokaning, which forms part of the approved mining area. This area will comprise of an emulsion silo [capacity of approximately 67 cubic metres (89 tons)] and a second silo, which will house ammonium nitrate [approximately 65 cubic metres (52 tons)]. Two magazines will also be established at this area and will house electric detonators (all types), boosters, blasting cartridges and detonating cord (cortex).

The magazines and silos currently located on farm Parson will be moved to Bruce Mine to reduce the travelling distance between the storage area and where mining is undertaken. The area will comprise of an emulsion silo (capacity of approximately 33 cubic metres) and a second silo, which will house ammonium nitrate (approximately 32 cubic metres). Two magazines will also be relocated to this area and will house electric detonators (all types), boosters, blasting cartridges and detonating cord (cortex).

Both sites will comprise of a fenced area of about 2.5 hectares (ha).

1.5 Purpose of this Report

Newly promulgated regulations (November 2015) pertaining to the Financial Provision for Prospecting, Exploration, Mining and Production Operations in terms of the NEMA prescribes the determination and making of Financial Provision for existing rights/ permit holders (Regulation 11 of GNR.1147). Importantly, the provisions in Section 24P of NEMA have been given effect through these newly promulgated regulations.

Accordingly, the following is required to satisfy the requirements for the determination of the Financial Provision and provides the basis to bring Khumani's Financial Provision into alignment with the new regulations:

- A detailed review and itemisation of all activities and associated actual costs for the implementation of:
    - Annual rehabilitation, as reflected in an Annual Rehabilitation Plan;
    - Final rehabilitation, decommissioning and closure of the mining operations at the end of the life of the operations, as reflected in a Final Rehabilitation, Decommissioning and Closure Plan; and

- Remediation of latent or residual environmental impacts which may become known in the future, including the pumping and treatment of extraneous water, again as reflected in an Environmental Risk Assessment Report.

According to the Amendments to the 20 November 2015 Financial Provision Regulations (dated 26 October 2016), a holder, or holder of a right or permit who applied for such right or permit prior to the commencement of the 2015 Regulations, must within 39 months of the commencement of the Regulations and annually thereafter ensure that a review, assessment and adjustment of the financial provision is conducted in accordance with Regulation 11 of the Regulations. All mining right holders must therefore ensure compliance with these regulations by 20 February 2019.

No Latent or Residual Environmental Impact Closure Assessment is expected to be required. This is based on the current information provided in the EMP that the required management measures approved in the EMPs, will be sufficient to reduce the significance of impacts on the environment. For this reason, no remediation or latent or residual environmental impacts are further considered and no Environmental Risk Assessment Report is submitted. It is however recommended, that an overall hydrogeological numerical assessment be undertaken to ensure that the long term impacts of the mine as it currently stands and based on the future mine plan is understood and the potential for residual impacts are scientifically excluded.

The purpose of this report is to present the Final Rehabilitation Plan. This plan must be assessed annually to determine the mine's compliance in terms of rehabilitation commitments set.

1.5.1 Information Utilised during the Development of the Plan

The information utilised in the development of this plan is stipulated in Section 1.3 and 1.4. In addition to this, a site visit was undertaken in May 2018 during which time photographs were taken and interviews were held with key personnel (Safety, Health, Environment and Quality (SHEQ) Manager, Mineral Resources Manager and Paste Disposal Facility operator).

The Bill of Quantities (BoQ) used to calculate the provision was provided by the SHEQ and Survey Department of the Mine.

1.5.2 About the Author

1.5.2.1 *The Company*

EnviroGistics, established in 2015, provides Independent Environmental Planning, Permitting, and Consulting Services to a vast array of clients throughout the mining, construction and development industry. EnviroGistics' independence is ensured with Ms Tanja Bekker being both registered with the South African Council for Natural Scientific Professions (SACNASP), as well as the Interim Certification board for Environmental Assessment Practitioners Association of South Africa (EAPASA), complying with the highest requirements of the South African Environmental Legislation. The company holds further no equity in any other project. EnviroGistics' operates with the goal of fulfilling its vision and mission, breaking away from a general consulting mould, striving to form an integrate part of a project team. For this reason, clients will be provided with experienced, practical, technically sound, independent, objective and value adding advice, ensuring support on environmental planning, permitting and compliance matters.

EnviroGistics is an independent company and has no vested interest in the outcome of the environmental assessment.

1.5.2.2 *Details of the person(s) who prepared the plan*

Ferdi Pieterse: Ferdi has more than 15 years' experience in the Environmental Management field. He has a strong background in providing environmental solutions, having completed numerous projects from concept and pre-feasibility phases to full completion and implementation phases. Ferdi has undertaken and completed projects in different sectors, including tourism, mining, manufacturing, energy and industrial. He also completed a year as an Environmental Manager in the Electricity Generation Industry (Eskom), specifically within the coal, water and gas resource sectors where the focus was on mining environmental management and compliance assurance.

Ferdi's main strengths are focused within the environmental management and sustainable development spheres. Significant experience within the primary, secondary and business economic sectors include strategic planning and advisory, project management and coordination, client interaction and management, capacity building, providing innovative solutions, compliance assurance and reporting, liability valuations, sound advice and objectivity. Ferdi has been extensively involved in projects in Lesotho, Zambia, Angola, Kenya, Namibia, Madagascar and Tanzania.

Ferdi is passionate about creating value and growth for people and projects on the African continent. He thrives on the challenge of integrating his experience and knowledge with new people and project teams and is naturally motivated through the adventure, exploration, learning, engagement and travel which is associated with the developing economies in Africa.

Refer to the Curriculum Vitae of Mr Ferdi Pieterse in Annexure A.

Tanja Bekker Ms. Bekker is registered as a Professional Natural Scientist in the field of Environmental Science with the South African Council for Natural Scientific Professions (SACNASP) Board and is also a Certified Environmental Assessment Practitioner (EAP) with the Interim Certification Board of Environmental Assessment Practitioners of South Africa (EAPSA), a legal requirement stipulated by NEMA. She is further certified as an ISO 14001 Lead Auditor. Her qualifications include BSc. Earth Sciences (Geology and Geography), BSc. Hons. Geography, and MSc. Environmental Management. In addition to these tertiary qualifications, she obtained a Certificate in Project Management, and completed the Management Advancement Programme at Wits Business School.

With more than 14 years' working experience in environmental management and the consulting industry and managing various Large Account Clients, she understands the South African Regulatory System, and can advise clients with due diligence on their environmental regulatory requirements and offer a solution driven service to their project life cycle. She is equipped with exceptional project management and coordination skills, which especially enhances the service she offers clients within the environmental permitting system.

Her key focus is environmental management and compliance with extensive experience in the mining industry. Project Management and Coordination of projects form a critical component of her duties, which include project planning, initiation of projects, client, authority and stakeholder consultation, specialist coordination, budget control, process control, quality control and timeframe management. Her interest lies in a client advisory capacity, being involved during due diligence investigations, pre-project development and assisting the client and engineering team in adding value to develop the project in an environmentally sustainable manner, considering client costs and liabilities, as well as considering the implication of environmental authorisation conditions and requirements on project deliverables. Her involvement in projects has spanned over the project life cycle from Due Diligence Investigations, Pre-Feasibility Investigations, Prospecting Right Applications, Mining Right Applications, Environmental Reporting and implementation and auditing of Environmental Management Plans and Authorisations.

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Summary of the EAP's Education

B.Sc. Earth Sciences (Geography & Geology) - RAU (University of Johannesburg)
B.Sc. (Hons) Geography - RAU (University of Johannesburg)
M.Sc. Environmental Management - RAU (University of Johannesburg)

Career Enhancing Courses

ISO 14000 Lead Auditors Course (WTH Management)
Certificate in Project Management (Pretoria of University)
Management Advancement Programme (MAP 81) (Wits Business School)

Professional Affiliations

Certified member of the Interim Certification Board of Environmental Assessment Practitioners of South Africa
Certified ISO 14001 Environmental Management System Auditor
Registered as a Professional Natural Scientist with the South African Council for Natural Scientific Professions (SACNASP)
Member of the South African affiliate of the International Association for Impact Assessment (IAIA)
Member of the Environmental Law Association of South Africa (ELA)

Refer to the Curriculum Vitae of Ms Bekker in Annexure A.

1.5.2.3 *Registrations, Affiliations & Experience*

The following table presents the expertise of the Auditor to carry out the Assessment.

Name	Position	Project Responsibility	Qualification	Professional Registrations	Experience
Ferdi Pieterse	Rehabilitation and Closure Cost Assessor	Compliance Assessor	B.Sc. (Honours) Environmental Management (RAU, nov University of Johannesburg)	Member of the Environmental Law Association of South Africa	15 Years
Tanja Bekker	EAP	Compliance Assessor	M.Sc. Environmental Management (RAU), now Johannesburg University)	Certified member of the Environmental Assessment Practitioners Association of South Africa (October 2013) South African Council of National Scientific Professions (SACNASP: Pr.Sci.Nat. Reg No. 400198/09 Member of IAIA Member of the Environmental Law Association of South Africa	14 Years

2 PROJECT CONTEXT

2.1 Introduction to the Mining Operation

The iron ore is mined from a series of opencast pits on the farms Bruce and King by means of conventional drilling, blasting and loading onto trucks, followed by hauling to either of the Bruce and King primary and secondary crushing facilities. From there, it is transferred by means of overland conveyors and stockpiled onto blending beds that divide the material into two categories, on- and off-grade material, before reaching the Parson Beneficiation Plant.

On-grade material is moved from the on-grade stockpile through to the Washing and Screening Plant situated on the farm Parson, to ultimately produce final product incorporating tertiary crushing of any oversize material from the screening plant.

Off-grade material is moved from the off-grade stockpile through to the Washing and Screening Plant. Any oversized material is crushed in the Tertiary Crushers, and also beneficiated through jigging in the Lumpy or Fines Jig Plants, in order to remove any contaminants (Assmang Limited, 2015).

The final products are stockpiled on the Lumpy or Fines product stockpiles, before loading through a rapid load-out station onto 342 wagon trains (a total of approximately 34,200t) that are sent for export to the Port of Saldanha Bay on South Africa's West Coast, via the 861 km Sishen-Saldanha ore export railway line (OREX Line). (Assmang Limited, 2015).

2.2 Approved Infrastructure

The following table has been sourced from the EMP submitted to the DMR in 2014 and presents a list of all approved infrastructure on site which are considered in the development of the Annual and Final Rehabilitation Plans.

Table 1: List of Approved Infrastructure

Infrastructure	Description
Roads	
The N14 National Road	**Existing N14 National Road:** The N14 national road traverses the Khumani property between the farms Bruce and King in a north-south direction.
The Secondary road (R325)	**Existing Secondary Road (R325):** A regional road (R325) to the town Dingleton runs through to the farm Parson in a north-south direction.
Access Roads	**Approved Access Roads:** Access to the plant and main administrative buildings is from the existing R325 Dingleton road. Roads to the administrative buildings are surfaced. Access to the King/ Mokaning operations is directly from the N14 road. Access to the Bruce operations is from an existing road turning off from the N14. Treated roads serve the plant area. Treated access roads have been established for access to the Bruce and King opencast operations.
Haul Roads	**Approved Haul Roads:** Haul roads serve as links between the various mine opencast pits, the two ore crushing facilities (at Bruce and King respectively), as well as the topsoil storage areas and discard dumps. Overburden is transported via trucks on treated roads to the crushers, which are situated in close proximity to the opencast operations. ROM is transported to the crushers via haul roads from where it is loaded onto conveyors. Various haul roads have been/ will be constructed to provide access from one opencast working area to the other. Two categories of haul roads are present: - Category 1 has a width of 38.0m and serves as main arterials between opencast pits and crushing facilities. - Category 2 haul roads have a width of 31.0m without a central berm, and function as links from opencast pits to Category 1 haul roads.
Other Roads	**Approved Other Roads:** Service roads have been constructed connecting the plant area to the Bruce and King/ Mokaning opencast operations. A link road between the Bruce operations and the plant has also been approved, but not yet constructed.

Infrastructure	Description
	The service road from the plant to the Bruce opencast operations runs parallel to the conveyors in a north-easterly direction. The service road from the plant area to the King/ Mokaning operations utilises the same road as the Bruce opencast operations for the first 1.5km, after which it crosses the N14 national road under a bridge in an easterly direction parallel to the conveyors connecting the King/ Mokaning opencast operations with the plant. A surface road has been constructed between the Bruce and King/ Mokaning opencast operation, to serve as access between the two mining operations. This road is known as the A1 highway. The road runs on the eastern boundary of the farm King in an approximate northerly direction. The road crosses the N14 national road under a bridge.
Conveyors	
Bruce Conveyor	**Approved Conveyor at Bruce:** This single length conveyor PS 15/CV60 is 6,5km long. From the stockpile at Bruce, where the conveyor is loaded, it passes under a Transnet railway line (OREX line) and public road (N14) to surface on the southern side of these. The conveyor further crosses a bridge (400m wide) across the Gamagara, travelling outside of the 1:100 floodline. The fourth crossing is under the Transnet Hotazel/ Port Elizabeth (PE) line. Before arriving at the load off point at Parson, the conveyor travels over two small flood plains where it is suspended on culverts, and under the Khumani export siding.
King Conveyors	**Approved Conveyor at King:** This conveyor route is made up of two conveyors. The first leg, PS25/CV60, which is 1km long, travels west from the stockpile where it is loaded. After 400m, the conveyor passes over the Mine Access road and Hotazel/ PE Transnet railway line. The conveyor further passes under the N14 highway to arrive at a transfer tower. The ore is then transferred to the second conveyor PS25/CV70 which is ~1,5km long. The conveyor passes under the export siding at the same point as the Bruce conveyor.
Railway Lines and Associated Infrastructure	
The OREX Railway Line	**Existing OREX Railway Line:** The OREX Railway Line is an existing railway line between Sishen Mine and the Saldanha Port (export market) which runs parallel to the R325.
The Port Elizabeth / Hotazel Railway line	**Existing Hotazel/ PE Railway Line:** The Hotazel/ PE Railway line (local markets) traverses the farms Mokaning and King where after it runs west of the farm Bruce.
Rapid Load-Out Facilities	**Approved Rapid Load-Out Facility:**

Infrastructure	Description
	The layout of the siding is of a balloon shape with double track arrangement comprising two (2) balloons. The siding is electrified at 50kV in common with the Transnet Main Line (OREX Line), and the take-off from the Transnet line is fully signalled and controlled from Saldanha. One siding line initiates from the OREX line and splits to form two balloons (loop structures) in order to load the required product on the train wagons for export. The railway siding has been established to accommodate 342 wagons plus 6 locomotives. Wagons capable of transporting 100 tonnes (t) of product are used. The layout basically allows for a 342 wagon train to enter the siding, one at a time, and proceed on to the balloon layout in an anti-clockwise direction. The train will proceed to one of the load-out stations. Uncoupling will take place and the rear part of the train with two (2) locomotives now leading will proceed to the load-out station. Loading will commence after the train has entered the load-out and the first wagon in each rake has been aligned and declared ready for loading. Three (3) rakes of 114 wagons each are loaded separately, connected and dispatched to the OREX line. Movement of rakes on the balloons is currently undertaken by diesel locomotives. The following design criteria has been adopted (track standards as per Transnet, i.e. 30t axle loads, 60kg/m rails): - 30t axle loads; - 50kV AC overhead electrification; - Multi aspect colour light signalling; and - Maximum train length 342 wagons excluding locomotives.
Port Elizabeth / Hotazel Railway Line Diversion	**Approved Hotazel/ PE Railway Line Diversion:** The railway line linking Hotazel to Port Elizabeth passes through an area that has been earmarked for opencast pits on King. In order to mine these opencast pits, the railway line was diverted to the west.
Local Railway Line Siding	**Approved Local Railway Line Siding:** There are requirements for iron ore on the local market and financial feasibility studies carried out by Assmang indicated that it would be advantageous to sell material on the local market. A siding linked to the Hotazel/ PE line has been constructed. The local siding will be a single-track railway tying into with the Hotazel/ PE railway line south-east of the point at which the Hotazel/ PE line crosses the Sishen-Saldanha (OREX) Line. The local siding then crosses the following existing infrastructure: 1. A Rail-over-Road bridge over the Dingleton regional road. 2. The 100 year flood line of the Gamagara River where drainage structures will be provided. 3. The 132kV Eskom power line - this line has been raised to accommodate the siding. 4. The three Assmang transmission lines - these lines have been raised to accommodate the siding. 5. The Bruce overland conveyor - a culvert has been placed over the conveyor. 6. The Sishen Saldanha (OREX) export railway line with a Rail-over-Rail bridge.

Infrastructure	Description
	7. The Sedibeng Pipeline running parallel to the Dingleton provincial road - this has been protected with a culvert incorporated in the bridge design. The local siding will join up with the second railway balloon running outside of the first balloon.
Power Lines	
Eskom Power Lines	**Existing Eskom Power Lines:** Existing Eskom power lines (132 kV) from the Sishen traction station are present to the north of the farm Parson and transect the farm Bruce. Another line traverses the farms Mokaning and King parallel to the Hotazel/ PE railway line.
Three New Power Lines (132kV)	**Approved New Power Lines:** Three power lines (132kV) have been routed from an existing Eskom Substation near Sishen Mine. The power lines are routed to an Eskom yard, situated at the plant area on the farm Parson. From the Eskom yard, two 22kV lines are routed to the Bruce opencast operations and two 22kV lines are taken to the King/ Mokaning opencast operations. The balloons can be electrified at 50kV AC, in common with the Transnet OREX Line, and the take-off from the Transnet line is fully signalled and controlled from Saldanha. Power supply for traction on the siding is from the Transnet system. The structure-series Eskom used for pylons is the "Steel Monopole Raptor Friendly" series. The intermediate suspension structure can be self-supporting or guyed structures depending on the landowner and/ or environmental preferences.
Additional Power Supply	**Approved Additional Power Supply:** The electricity shortage in the country has necessitated the creation of additional power supplies on site. The mine intends to implement the use of additional diesel generators for this purpose. An additional 1.25MVA generator will be placed on Parson and an additional two (2) 800kVA generators have been placed at King, all of which are located within the existing plant areas on site (Bruce, Parson and King). These generators are located at the following coordinates: King Genset – X = +81,417.940, Y = +49,365.570 Parson Genset – X = +83,253.980, Y = +52,677.310
Fuel and Lubricant Storage	
Temporary Fuel Storage	**Approved Temporary Fuel Storage:** The temporary fuel storage facility consists of two (2) above ground temporary diesel storage facilities, each with a capacity of 61m³. Each tank is double bunded (so-called “Transtanks”) and have been equipped with drip free nozzles. The structures have been established on concrete slabs with humps on all sides. A sloped, fully bunded area has been located between the two tanks in order to enable the collection and management of potential spillages from the tanks.
Additional Diesel and Lubricant Storage	**Approved Additional Diesel and Lubricant Storage**

Infrastructure	Description
	The operation of the diesel generators and the additional activities on site require the storage of additional fuel and oil. The mine has a storage capacity of 21 days. This translates to an additional 1312m^3 of diesel and 276m^3 lubricants being stored on site at any time. All fuel is stored above-ground within designated and appropriately constructed hazardous material storage areas.
Solid Waste Management Facilities	
Industrial and Domestic Waste Disposal Sites	**Approved Industrial and Waste Deposal Sites:** Industrial waste is limited to oil, diesel and grease. This waste is sold in bulk back to the manufacturers and suppliers. Unwanted waste is disposed of by a contractor at an approved industrial waste site. Three central areas have been identified in which domestic waste is stored for collection by the Gamagara Local Municipality. The Gamagara Local Municipality disposes of the domestic waste at the local municipal waste disposal facility in the Kathu area.
Chemical Storage	**Approved Chemical Storage:** The mine uses several petroleum products on the mine. These can be separated into two types of products, namely bulk storage products and packaged products and will be stored as follows: • Bulk storage comprises above-ground tanks in the vicinity of the workshops located at the Parson Plant and at the workshop areas at Bruce and King. The delivery area and storage areas are lined with a concrete sealed floor and are bunded to contain any spillage or leakage and prevent contamination of the underlying soils. Sumps have been provided to allow contaminated storm water and spillage to be pumped out and disposed of by the contractor. • Packaged products are stored in areas lined with a concrete floor to prevent contamination of the underlying soils due to spillages. As the quantities of these products are small and the area roofed thus preventing rainwater dispersal, the area is not bunded. Spillages are treated with an absorbent type material and then disposed of as contaminated waste.
Contaminated Waste	**Approved Contaminated Waste Storage:** Contaminated waste such as oily rags, oil filters etc. are deposited in sealed drums at designated areas in the vicinity of the workshops at the Beneficiation Plant and the two opencast operations. These drums are removed from the area, for disposal in an approved manner.
Tyres	**Approved Tyre Waste Storage:** Old tyres are removed from site by a contracted tyre company for recycling or disposal in an approved manner. The tyre storage area has not as yet been registered as per the Tyre Regulations.
Lubrication Oils	**Approved Lubrication Oil Waste Storage:**

Infrastructure	Description
	Used lubrication oils are removed from site by the fuel and lubrication contractor, for recycling and re-use. This occurs in bulk from tanks designed for this purpose. The area surrounding the tanks containing the waste oil and the collection point is bunded.
Office and Domestic Waste	**Approved Office and Domestic Waste:** Office and domestic waste is collected and disposed of at the mine's waste site. Three collection points have been provided by the mine, one at the farm Parson, and one at each of the opencast operations.
Domestic Waste Site on the farm Parson	**Approved Domestic Waste site in terms of the NEMA – on the Farm Parson:** The waste disposal site is located on the remainder of the farm Parson. Uncontaminated rubble is collected and transported by trucks via the existing road network at the mine and is transported to the waste disposal site. The waste is collected on a weekly basis. Offloading and compaction takes about 5-10 minutes, which implies that the waste is exposed to the atmosphere within an enclosed building for only a very short period of time during normal operational conditions.
Temporary Hazardous Waste Disposal Facility	**Approved Temporary Hazardous Waste Disposal Facility in terms of the NEMA:** The facility consists of an area where all hazardous waste can temporarily be stored prior to removal and disposal at a licensed hazardous waste disposal site. The proposed temporary storage facility is located adjacent to the proposed general waste disposal site.
Topsoil Stockpiles	
Topsoil Stockpiles	**Approved Topsoil Stockpiles:** Due to the shallow soil cover at Khumani, all topsoil and subsoil has been/ will be stripped (minimum of 0.25m or until hard rock is reached) from the: • Opencast pits; • Overburden and low-grade ROM stockpiles; • Overburden dump; • Paste disposal facility; • Parson plant; • Discard stockpile; • Export stockpile; and • Haul roads. Various topsoil stockpiles have been created (Total area: 106.110ha; Height: ranges from 1.5m to 5m; Volume: 4,378,000m^3). An eighth area is reserved for topsoil north of the rapid load-out facility on Parson. <u>Stockpiling of topsoil</u>

Infrastructure	Description
	The height of the topsoil stockpiles range between 1.5m and 5m. All topsoil stockpiles higher than 1.5m will require erosion control measures (i.e. terraces).
Overburden and low-grade ROM Stockpiles	
Overburden and Low-grade ROM Stockpiles	**Approved Overburden and Low-grade ROM Stockpiles:** Three overburden stockpiles (three types) have been established on the Khumani property: • The overburden and waste rock, with an iron content of less than 50 percent and high in impurities (i.e. Al_2O_3 and K_2O) will be stockpiled on overburden dumps situated at the Paste Disposal Facility. • The waste rock and overburden from the KM_NTH opencast pit will be stockpiled as material for the Paste Disposal Facility walls. • Low Grade ROM Stockpile J on the farm King. • Material with an approximated 50 percent iron content and high Al_2O_3 and K_2O will be stockpiled on the overburden and low-grade ROM stockpiles situated at the King/ Mokaning and Bruce opencast workings. These stockpiles will be utilised once the mine reaches the end of life should it be proven economically feasible to process and sell the product. The following is anticipated: o Currently, it is planned that 1.3 percent (1.6 million tons) of the Bruce overburden and low-grade ROM stockpiles will be reworked. The remainder of the stockpile will remain as a rehabilitated overburden dump upon decommissioning. o Currently, it is planned that 4.9 percent (19.4 million tons) of the King/ Mokaning overburden and low-grade ROM stockpiles will be reworked. The remainder of the stockpile will remain as a rehabilitated overburden dump upon decommissioning.
Paste Disposal Facility	
Paste Disposal Facility	**Approved Paste Disposal Facility:** All residue derived from the Parson Plant is thickened and disposed of at the approved paste disposal facility. Khumani has developed a paste disposal facility to ensure that no significant environmental impacts occur. The area of the paste disposal facility is 168.4854ha. Water derived during the thickening process is returned to the Parson Plant to be reused. The paste disposal facility has been constructed according to sound engineering and environmental principles.
Borrow Pits	
Borrow Pits	**Approved Borrow Pits:** There are large volumes of borrow material available for use as bulk and engineered fill materials as well as road and sub-ballast layer works. The hauling distances are expected to vary between 2km and 6km depending on the location of the borrow pit and the place where the material is needed.

Infrastructure	Description
	Materials were tested to determine the suitability for use: road pavement layers, upper and lower sub-ballast layers, gravel wearing coarse, semi-permeable material for the seepage cut-off and construction materials for paste disposal facility starter walls and storm water retention dams, and materials for engineered fills. The engineering properties of the materials were evaluated in terms of the Technical Recommendations for Highways: Standards for Road Construction Materials 1980 (TRH14).
Mineral Processing	
Mineral Processing	The iron ore processing facility has been designed to process ROM ores from the Bruce, King and Mokaning opencast pits. The first phase (phase 1) allows for 8 million dry metric tons product per annum, with the second phase (phase 2) ramping up to an approved 16 million dry metric tons product per annum. The Bruce and King mining areas are each equipped with processing units, consisting of a primary gyratory crusher, scalping screen and secondary cone crusher. ROM ore is reduced from a top size of one metre, to a crushed plant feed of less than 80mm. Following the primary and secondary crushing operations, the crushed ore is conveyed to the processing plant area, which is situated remotely from the mining areas, on the farm Parson. On-grade and off-grade crushed ore is stockpiled separately with dedicated stackers and reclaimed to be fed separately to the dedicated on-grade and off-grade processing plants. On-grade ore requires only screening, while off-grade ore requires further beneficiation, to conform to the market requirements. On-grade ore requiring no beneficiation, i.e. ore conforming to the required chemical specifications is washed, crushed to -32mm in closed circuit, and sized into three market related products: • Lumpy export product; • Medium Sized product for export and local markets; and • Fines export product. Off-grade ore (i.e. ore not conforming to the required chemical specifications) is washed, crushed to -32mm in closed circuit and screened into a coarse fraction and a fine fraction, prior to the beneficiation processes. Beneficiation is achieved by utilising jig technology. Jigs separate the ore according to the specific density of the particles. The separating units operate in such a way that particles within the off-grade ore with densities generally less than 4.9 will be rejected as discards, while particles with a specific density greater than 4.9, will be recovered as a product. The products from the beneficiation processes are screened into the three market related sizes as mentioned above. Reagents are not utilised in any of the beneficiation processes. A flocculating agent is required to assist in clarifying process water in the water reticulation circuit. This is achieved by utilising a conventional thickener. The clarified water is reticulated in the processing plants. A significant amount of water is recycled in the processing plant to reduce the magnitude of the clarifying requirement.

Infrastructure	Description
	Thickened pulp from the thickener units is pumped to a secondary thickener, situated away on farm King, to recover the remaining water from the thickened pulp. The secondary thickener produces a "paste", which is deposited onto a "paste deposition facility", designed specifically for this purpose.
Mine Offices	**Approved Mine Offices:** Mine offices have been established at the Bruce and King/ Mokaning opencast areas for managers, engineers and administration staff. The main administrative buildings are situated at the plant (on Parson) and houses managers, engineers and administrative staff. A separate engineering block has been established at the plant, which houses engineers, technical and administration staff employed in the operation of the process plant. A separate export office has been established at the load-out facility, which is equipped with tearoom and ablution facilities.
Laboratory	**Approved Laboratory:** A laboratory has been established at the plant, which is utilised for the testing and certification of the product being processed and exported from the mine.
Change House	**Approved Change House:** Staff facilities for washing, ablutions and the safe keeping of personal belongings have been established at the Bruce and King/ Mokaning opencast areas as well as at the Plant. The change houses at the plant accommodates a medical centre at the main offices. A laundry facility has been established at the King Mine to provide a washing service to Bruce, King and Parson for the cleaning of overalls and other clothing issued to staff. Sewage plants have been established at the opencast and plant areas, to treat the sewage within the mine area.
Clinic / Training Centre	**Approved Clinic / Training Centre:** A medical centre and a training centre has been established at the Parson Plant.
Security Building	**Approved Security Building:** Security buildings have been established at the Bruce and King/ Mokaning opencast areas, as well as at the Plant area.
Plant Control Centre	**Approved Plant Control Centre:** A plant control centre has been established on the farm Parson for operators to monitor and control the process plant. The centre is equipped with offices, electronics, workshop, a tea room and ablutions for staff associated with the centre. A Control Centre for the operation of the load-out and discard areas has been established on the farm Parson.
Workshops / Stores / Substations	**Approved Workshop, Stores and Substations:**

Infrastructure	Description
	The following infrastructure has been established: • Garage for the servicing and repair of mine vehicles at the Bruce and King/ Mokaning opencast areas; • Stores on the Bruce and King/ Mokaning opencast areas, as well as the plant, for the daily requirements of the mine (i.e. spares); • Workshops on the Bruce and King/ Mokaning opencast areas, as well as the plant, for the maintenance and repair of equipment used on the mine (i.e. crusher screens and conveyors etc.); • Substations to house electrical equipment have been established at the Plant and the opencast operations; • Sumps equipped with a submersible pumps and oils traps have established at the workshops where lubricants and chemicals are stored; and • Vehicle cleaning facilities linked to oil/water separators have been established.
Mess Facility	**Approved Mess Facility:** A mess area for train drivers and Transnet staff associated with the rapid load-out facility has been provided at the export facility.
Weighbridge	**Approved Weighbridge:** A weighbridge has been established at the Plant area for verification regarding weight of loaded and unloaded vehicles etc.
Explosives Magazine	**Approved Explosives Magazine:** The explosives magazine has been built to Sasol Nitro design with the finished structures having been approved by Sasol Nitro. An exclusion zone of 800m radius within which there will be no buildings, other structures or public access is maintained.
Housing and Recreation	
Housing and Recreation	**Approved Housing and Recreation:** Assmang is not directly involved in the provision of housing. Housing is included as an element within the remuneration package to allow the employees to provide their own housing. By undertaking this view, Assmang envisages their employees becoming self-sustaining. No permanent housing has been erected for employees on the site. The existing infrastructure and residential areas in and around Kathu, Postmasburg and Olifantshoek are utilised.
Transport	
Transportation of Ore on Site	**Approved Transportation Of Ore on Site:** Haul trucks transport the blasted product to the crushers. Following the primary and secondary crushing operations, the crushed ore is stockpiled using stackers. Re-claimers are used to load the ore onto belt conveyors to transport the ore to the processing plant situated away from the mining areas, on the farm Parson. From the plant, the final product is transported via conveyor to the product stockpiles, from where it is loaded into the rapid load-out facilities.

Infrastructure	Description
Transport of Ore Off-site	**Approved Transportation of Ore Off-site:** The final product is transported from the Rapid Loud-Out Facilities, via the OREX railway line to Saldanha (for export) and the Hotazel/ PE line (for local markets).
Water Pollution and Storm Water Management Facilities	
Water Pollution and Storm Water Management Facilities - Legalities	Storm water management infrastructure at Khumani does and will comply with the requirements of Government Notice Number 704 (GN.704), published in terms of the NWA. GN.704 requires the following: • All clean water systems must be designed and operated in such a manner that they are at all times capable of handling the 1:50 year flood event on top of their mean operation level without spilling; • Any water arising from an area, which causes, has caused or is likely to cause pollution of a water resource, including polluted storm water, must be contained within a dirty water system. In order to reduce the volume of polluted water, contaminated areas should be minimised. While clean water should be diverted to natural watercourses, polluted water should be re-used wherever possible, thereby reducing the use of clean water; and • Design, construct, maintain and operate any dam or tailings dam (in the Khumani situation, a Paste Disposal Facility) that forms part of a dirty water system to have a minimum freeboard of 0.8m above full supply level. The following criteria have therefore been assumed for design purposes at Khumani: • 1:50 year, 24hr flood event; • Average precipitation in the annual wettest month; • Average operations water pumped to the Paste Disposal Facility; and • 0.8m freeboard (incl. freeboard for wave action) on the Paste Disposal Facility.
Sewage Treatment Plants	**Approved Sewage Treatment Plants:** During construction, chemical toilets and mobile ablution blocks will be provided for the construction workers. These toilets will be cleaned as and when required. The waste material will be taken by a contractor to a suitable waste water treatment facility. During the operational phase the three main areas of operation, i.e. the Parson Plant, Bruce opencast area and the King/ Mokaning opencast areas, will be supplied with sewage treatment plants designed to treat 120 to 140l of sewage per person per day. The Rapid Load-Out Facilities and the Explosives Magazine are equipped with smaller treatment facilities. At each site, underground piping carries the sewage to a central collection tank capable of buffering the loading from the sewage plant. This tank also acts as a combined settling tank and aerobatic digester. A secondary aerobic process comprising of a Bio Filter Rotating Biological Concentrator (RBC), fixed film reactor unit, followed by a humus settlement tank and disinfection tank completes the process.

Infrastructure	Description
	The discharges, following chlorination, from the sewage plants are: • Parson Plant (2.33m³/hr) – to the 5000m³ process water dam, forming part of the water employed in the plant process. • Rapid Load-Out Facilities (0.05m³/hr) – to the storm water dam where the returning water is pumped to the process water dam as described above. • Explosives magazine (0.02m³/hr) – to the storm water dam where the water is allowed to evaporate. • Bruce opencast operations (1.33m³/hr) – to the 300m³ mine water tank where the water will be used for mining activities. • King/ Mokaning opencast operation (1.21³/hr) – to the 300m³ mine water tank where the water will be used for mining activities. Once a day, the filter elements are washed using clean water and once a week the units moving parts are inspected and greased. The settled sludge is emptied once a year or as necessary using an outside contractor such as Waste Tech. It is part of the contract for the contractor to safely dispose of the solid waste off-site.
Additional Sewerage Works	**Approved Additional Sewerage Works:** The expansion of capacity and operations on King required an increase in the number of staff on site. This growth in the workforce created the need for additional sewerage capacity. The peak workforce on King was 1800 during construction. This number has dropped to 600 for operations. The sewerage works was designed to handle the peak conditions at 1800 people.
Parson Plant Area and Surroundings - Water Pollution and Storm Water Management Facilities	**Approved Water Pollution and Storm Water Management Facilities at Parson Plant Area and Surroundings** Surrounding Area: All the storm water runoff from the upstream catchment of the plant area, ROM stockpile area and product stockpile area is diverted around the affected areas by means of berms and channels and has been sized for a 1:50 year flood event. The surface runoff from the areas is collected in pollution control dams. All the pollution control dams are sized to contain the 1:50 year storm event, including a 0.8m freeboard. The pollution control dam are: • Plant Storm Water Dam; • Load Out Storm Water Dam; • King Storm Water Dam; • King Crusher Dam; and • Bruce Storm Water Dam. Inside Parson Plant: All plant sections, which process ore or form part of the processing facility, have been designed and laid out within proper sump areas, as contingency measures should spills occur. These have been constructed from concrete and are equipped with suitable vertical spindle centrifugal pumps, to allow for controlled evacuation of potential spillages.

Infrastructure	Description
	The design of the volumetric proportions of the bunds allow accommodation of the maximum volume of the tank or container, which might drain or overflow in that particular catchment. Sumps have been allowed for in the area of water treatment and clarification, and are similarly equipped with suitable sump pumps. Potential overflows from the thickener and process water tank are channelled to the dedicated storm water dam.
Opencast Area - Water Pollution and Storm Water Management Facilities	**Approved Water Pollution and Storm Water Management Facilities at Opencast Area** Diversion systems have been/ will be constructed upslope of the King and Bruce opencast areas in order to divert clean water away from the contaminated areas. Clean runoff from upstream of the opencast areas is/ will be diverted around the affected area by means of berms, sized so as to prevent spilling from a 1:50 year storm event. The diversion berms have been/ will be constructed with overburden material from the mining area. Groundwater seepage and direct rainfall water onto the opencast areas is pumped out by means of portable pumps. This water is used for dust suppression on the mine haul roads and operation water in the process plant. Water within the opencast pit areas is contained within the pit perimeter in low-lying areas. This water is pumped to various areas within the pit perimeter should it be required by the mining activities.
Primary and Secondary Crushers - Water Pollution and Storm Water Management Facilities	**Approved Water Pollution and Storm Water Management Facilities at Primary and Secondary Crushers** All the storm water runoff from the upstream catchment of the King crusher and Bruce crusher, is diverted around the areas by means of berms and channels which are sized for a 1:50 year storm event to designated pollution control dams. The sumps within the pollution control dams are lined to minimise seepage. All the pollution control dams are sized to contain the 1:50 year storm event including 0.8m freeboard. The pollution control dams are: • Plant Storm Water Dam; • Load Out Storm Water Dam; • King Storm Water Dam; • King Crusher Dam; and • Bruce Storm Water Dam. Water collected is used for dust suppression at the primary and secondary crushers at the Bruce and King/ Mokaning opencast operations. Dry materials from the paddock is then removed to the Overburden and Low-grade ROM Stockpiles. Sumps have been constructed at the crushers to contain the water from the dust suppression system. The sumps have each been equipped with silt traps and a submersible pump. Sludge and mud are removed and disposed of on the nearest overburden dump and/ or low-grade ROM stockpile.
Stockpiles and dumps - Water Pollution and	**Approved Water Pollution and Storm Water Management Facilities at Stockpiles and Dumps**

Infrastructure	Description
Storm Water Management Facilities	Diversion systems have been constructed upslope of the stockpiles and/ or dump areas in order to divert clean water away from the contaminated areas. Clean runoff from upstream of the opencast areas is diverted around the affected area by means of berms, sized for a 1:50 year storm event. The diversion berms have been constructed with overburden material from the mining area.
Paste Disposal Facility - Water Pollution and Storm Water Management Facilities	**Approved Water Pollution and Storm Water Management Facilities at Paste Disposal Facility** Under-Drainage and Seepage Control System: An under drainage and seepage control system with downstream paddocks has been designed and implemented to assist in lowering the phreatic surface in the starter wall, to maximise water return and to limit the release of potentially contaminated water into the downstream environment. A layer of sand underlies the Paste Disposal Facility. Supernatant water collects at the interface between the residue surface and the natural ground. In this area seepage into the underlying sand is likely to occur, as the sand will not be sufficiently blinded with residue. This seepage water will be confined to the sand layer and will flow down-gradient towards the downstream environment. To capture and control this flow, a combined under-drainage and cut-off system is required. Contaminated Runoff Control: Any storm water runoff from the downstream embankment slopes will contain some eroded residue solids. In order to prevent the eroded residue solids from discharging into the surrounding environment, catchment paddocks are provided downstream of the embankment toe. The paddocks are sized to contain the peak runoff from the outer embankment expected from the 1:50 year recurrence interval storm and allow for sedimentation of any eroded solids and evaporation of storm runoff. The catchment paddocks require periodic cleaning of deposited sediment. This should form part of normal operation and maintenance. Due to the site being positioned in a valley, storm water diversion forms a significant consideration in terms of the overall design. The external catchment draining towards the Paste Disposal Facility has an area of 171ha. The catchment is largely positioned to the east of the site. In order to divert the flows from each portion of the catchment, cut-off trenches and diversion bunds are required. The sand is highly permeable and therefore any water entering the sand will drain rapidly. The deposition method results in the blinding of the surface of this sand layer with the residue material. This serves to reduce seepage from the basin once it has been covered by residue. Containment: A containment dam has been constructed to contain all precipitation. Supernatant water (above the paste in the Paste Disposal Facility) is pumped into the return water system when required, and is returned to the plant for reuse. The slurry delivery system to the Paste Disposal Facility has been designed to allow containment of potential spills at any location along the route for the full volume of the pipeline contents. A pipeline break will therefore result in the controlled spill of slurry into a spill collection ditch that discharges into an emergency paddock, where the slurry will be contained for subsequent removal, to prevent release into the environment.

Infrastructure	Description
Linear infrastructure - Water Pollution and Storm Water Management Facilities	**Approved Storm Water Management Facilities for Linear Infrastructure** • Haul roads are constructed to allow storm water to run over low points. • Storm water is allowed to run off the access roads towards low points. • Culverts have been constructed where conveyors and roads cross the 1:100 year flood lines. The culverts have been constructed such as to allow through-flow of 1:100 year floods and debris. • The following have reference to the Rail Siding: o Culverts are located at the lowest points along the long section; and o Long sections are used to determine the acceptable sizes of culverts so that the depth of the culvert does not exceed the depth available under the railway line.
Workshops - Water Pollution and Storm Water Management Facilities	**Approved Water Pollution and Storm Water Management Facilities for Workshops** Maintenance workshops have been provided as part of the infrastructure in the vicinity of the Parson Plant, and Bruce and King/ Mokaning opencast operations. Oil/ water separators have been installed on each of the water discharges of the three workshops. The separators have three compartments. The first compartment collects sand, grit and stones and is emptied and cleaned once a year or when necessary. The material is disposed of with the waste being deposited in the oil contaminated waste skip for disposal. Retained oils and grease in the second compartment are emptied once a year and discharged off-site in line with the Mine's contract for the disposal of such material. Water from the separator is collected in the third compartment before being pumped to the process water dam at Parson and the mine water tank at the Bruce and King/ Mokaning operations, depending on where the workshop is located.
Laboratory Acid Treatment Plant	**Approved Water Pollution and Storm Water Management Facilities for Laboratory Acid Treatment Plant** Weak diluted acids are used in the laboratory at the Parson Plant. These solutions are discharged from sinks in the laboratory. Prior to the discharge of these solutions into the sewerage system, they are treated in an acid neutralising treatment plant to a neutral pH.
Potable Water Supply	
Potable Water Supply	**Approved Potable Water Supply** With the start of the Sishen iron ore mining operation, the Vaal-Gamagara water scheme was built with one of the main purposes being to supply water from the Vaal River to the Sishen mining operations. The magnitude of the dewatering requirements at Kumba necessary to create dry mining conditions was not foreseen at the time of the construction of the Vaal-Gamagara pipeline. In recent years, the dewatering programs at both Kumba and further south at Assmang's Beeshoek Mine near Postmasburg have started pumping more and more water into the pipeline. Although Kumba currently discharges excess water into the pipeline, water demand from the pipeline is also on the increase.

<table>
<tr><th>Infrastructure</th><th>Description</th></tr>
<tr><td></td><td>Water is contracted to be supplied at a rate of 800m³/hr from an abstraction point on the existing Sedibeng Water Pipeline to a point on the farm Parson.
Coordinates of the Sedibeng Pipeline Abstraction Point on the farm Parson:
<table>
<tr><th>Reference</th><th>X Coordinate
South</th><th>Y-Coordinate
North</th></tr>
<tr><td>Abstraction Point from the Sedibeng Pipeline</td><td>27º 51’ 48.2”</td><td>22º 58’ 14.5”</td></tr>
</table>
Water supply is potable water, and is used to top up the 10 000m³ make-up Gamagara Tank, and for certain other uses. Water in the plant system is recycled where possible to minimise the potable water top-up demand.
Khumani plans to utilise 4.5 million m³ per year, which may increase in the future.
A 10 000m³ and two (2) other potable water dams have been established at the Parson Plant in which the water from the Sedibeng Pipeline is stored. From the potable water dam, the water is pumped to potable water tanks (150m³), which have been established at the plant and the opencast areas to provide water for domestic, workshop and wash bay purposes.
Dirty water from the pits, sewage facilities, workshops and wash bays is re-used in the plant process and/ or mining activities.
Assmang’s objective is to reduce the volume of water obtained by maintaining the re-use of water.</td></tr>
<tr><td colspan="2">Disturbance of Water Courses</td></tr>
<tr><td>Disturbance of Water Courses</td><td>Two (2) river diversions have been approved for Khumani:
- Drainage channel diversion associated with the King/ Mokaning Low Grade Stockpile; and
- Diversion of the non-perennial drainage channel around the King West opencast mining area.</td></tr>
</table>

2.3 Future Planned Infrastructure

The following description is presented verbatim from the EIA report submitted to the DMR and still pending in terms of the required Environmental Authorisation.

2.3.1 Proposed Infrastructure and Upgrades

Please refer to the figures on the following pages presenting the references to the proposed infrastructure.

2.3.1.1 *WHIMS 2 Plant (C)*

The first WHIMS Plant were approved, constructed and completed on Khumani in 2013. As part of the optimisation of the current processing activities, an additional WHIMS Plant (C) is proposed as part of the Infrastructure Expansion Project. The new facility will be located on the western side of the Khumani Access Road (R523) and north of the Parson Low Grade Stockpile (A) (previously known as the Parson Discard Dump). The facility will comprise an area of approximately 23ha.

Refer to the figure overleaf: the Parson Low Grade Conveyor (F) will convey reclaimed material from the Low Grade Reclaim Stockpile (B) to the new WHIMS 2 Plant (C). From the WHIMS 2 Plant (C) the product will be transported via conveyor (F) to the Parson product stockpile yard. Off-grade material will be conveyed back to the Low Grade Product Stockpile (A) via the Reclaimed Product Conveyor (G) for future use.

2.3.1.2 *Parson Low Grade Stockpile Expansion (A)*

The existing and approved Low Grade Stockpile (A) on the farm Parson, will be expanded to accommodate the additional product from the various plants, which will be reclaimed in the future. The facility will be expanded by approximately 245ha, resulting in an overall footprint of 356.3ha.

Material, reclaimed from the Low Grade Stockpile (A), will be processed at the WHIMS 2 Plant (C) as part of the reclamation process through the Low Grade Reclaim Facility (B).

2.3.1.3 *Low Grade Reclaim Facility (B)*

The Low Grade Reclaim Facility (B) will be located on the northern side of the Parson Low Grade Stockpile (A). The facility will comprise an area of approximately 13ha. The facility will comprise reclaiming infrastructure which may include a conveyor and loading equipment. From the Low Grade Reclaim Facility (B), the material will be conveyed to WHIMS 2 Plant (C), and after WHIMS 2 Plant will be conveyed either to the Parson product stockpile yard or will be return via the Reclaimed Product Conveyor (G) to the Parson Low Grade Stockpile (A) for further processing.

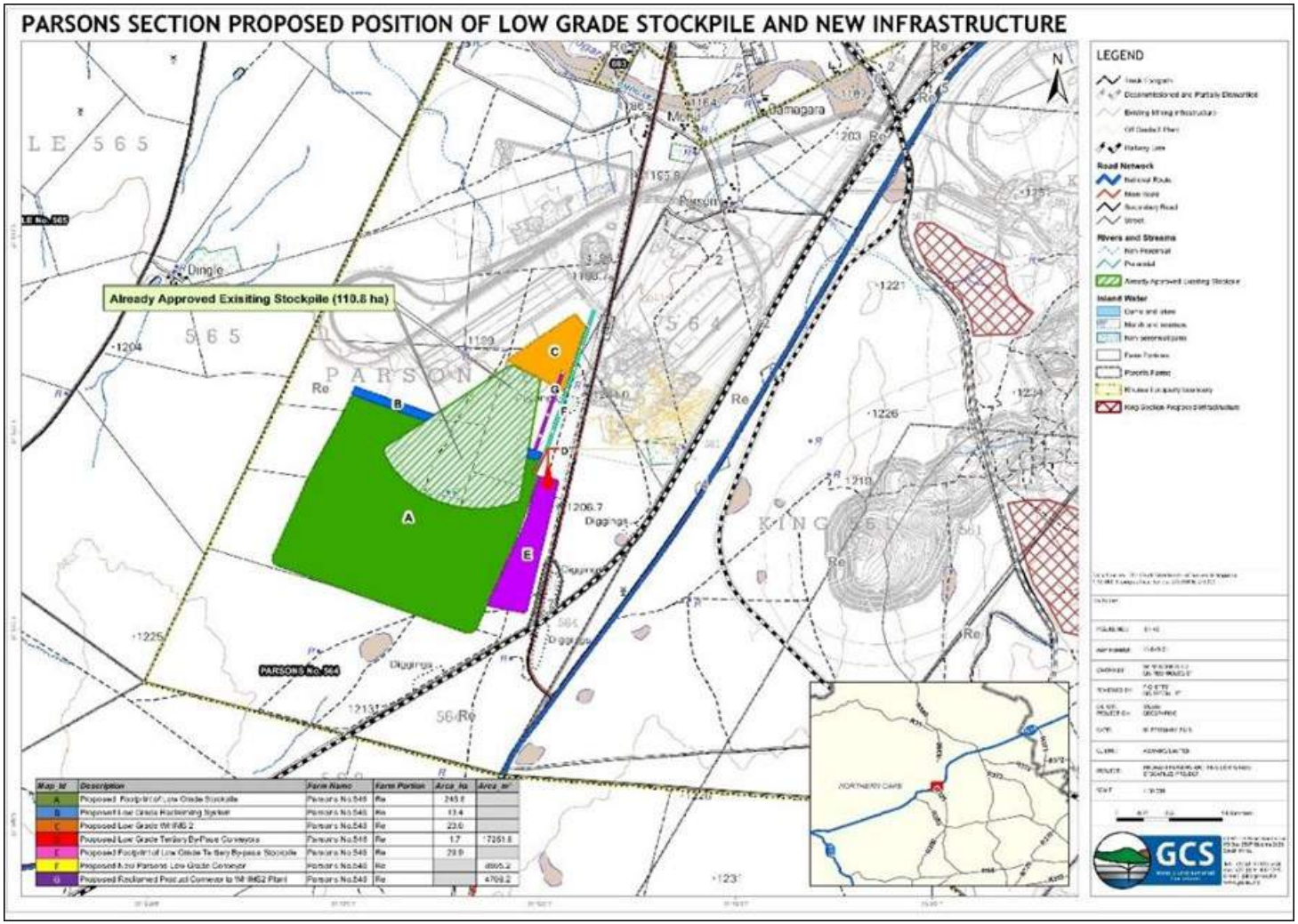


Figure 1: Proposed Infrastructure at the Parson Site

2.3.1.4 *Tertiary By-pass Stockpile (E)*

Design changes to the approved Off-Grade 2 have indicated the necessity for the addition of infrastructure, which includes the Tertiary By-pass Stockpile area (E). The Off-Grade 2 Plant was approved in October 2013 by NCDENC and the DMR. The Off-Grade 2 Plant is part of the processing optimisation strategy, which aims at ensuring that Khumani reaches its optimal approved production target of 16 million tons per annum. The Off-Grade 2 Plant will be situated to the south-east of the existing plant.

Low grade material from the Off-Grade 2 plant will be transported via an approved conveyor to a transfer bin, just west of the Dingleton road (R523). From the transfer bin, the material will be transported via the new low grade conveyors (D), to either the Parson Low Grade Stockpile (A) or the Tertiary By-pass Stockpile (E). All conveyors will be associated with service roads of less than 8m in width.

The Tertiary By-pass Stockpile (E) will be utilised during times when access to the main Low Grade Stockpile (A) is not available (for example during maintenance periods, expansion activities, or due to logistical constraints). The facility will be located on the western side of the Khumani Access Road (R523) and just east of the Parson Low Grade stockpile (Previously known as the Parson Discard Dump). The facility will comprise an area of approximately 30ha.

2.3.2 Additional Low Grade Stockpiles

2.3.2.1 *King Low Grade Stockpile (J)*

The Low Grade Stockpile (J), is located to the south west of the existing crushing facility and will comprise an area of approximately 48ha. The material intended for the Low Grade Stockpile (J) is contaminated material derived from the King Crusher facilities. The stockpile is considered temporary, as the material will be processed through a Jig Plant, from where on-grade material will be conveyed to the Parson Plant and the off-grade will be conveyed to the Parson Low Grade Stockpile (A) for further reclamation through the WHIMS 2 Plant (C).

2.3.2.2 *King/ Mokaning Low Grade Stockpile Expansion (H)*

The existing King/ Mokaning Low Grade Stockpile on farm King will be expanded to accommodate material from the King opencast pit. This expansion is indicated as (H) on the map. During the application phase it was initially indicated as a standalone dump. To optimise stockpiling and design requirements, the facility will be integrated with the existing King/ Mokaning Low Grade Stockpile.

The King/ Mokaning Low Grade Stockpile is located east of the decommissioned Hotazel/ PE railway line and to the south of the King opencast pit. The stockpile will be an extended to the west by 58ha.

2.3.2.3 *Bruce Low Grade ROM and Overburden Dump Expansion (K)*

The existing Bruce Low Grade ROM and Overburden Dump on farm Bruce will be expanded. This expansion is indicated as (K) on the map. Based on the current mining schedule the mine has determined that the areas for the Bruce Low Grade ROM and Overburden Dump will not be sufficient in the long term and would require expansion.

The Bruce Low Grade ROM and Overburden Dump is proposed to be extended by 75ha to increase the capacity of the dump. The area originally approved for the Bruce Low Grade ROM and Overburden Dump were 268ha, thus increasing the area to 343ha in total.

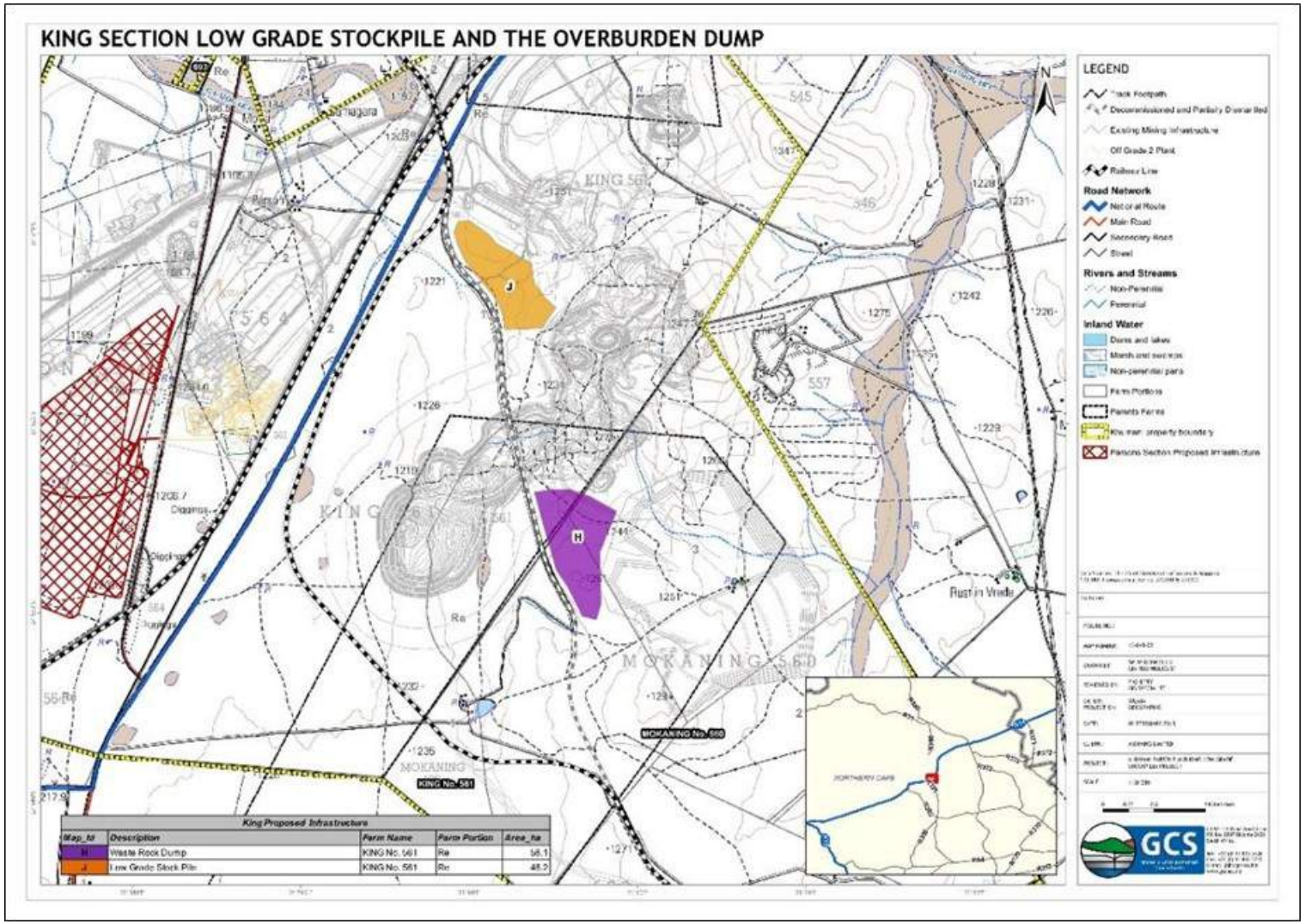


Figure 2: Proposed Infrastructure at the King Site

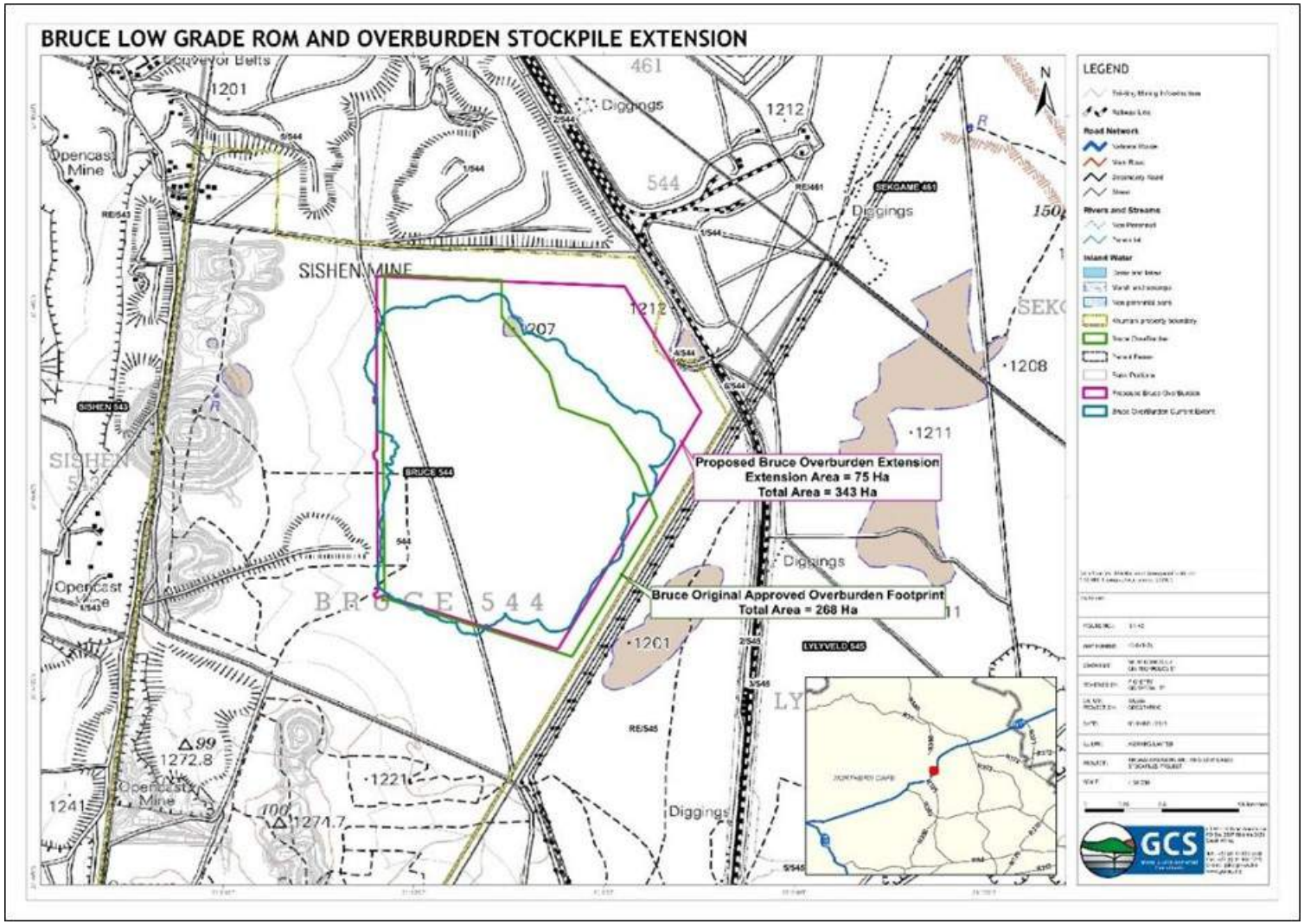


Figure 3: Proposed Infrastructure at the Bruce Site

2.3.2.4 *Ancillary Infrastructure*

Additional infrastructure will include:

- Upgrading and expansion of storm water facilities (separating clean and dirty water);
- High Pressure Grinding Roll (HPGR) Crushing Facility;
- Haul roads; and
- 22kV power lines to accommodate the WHIMS 2 Plant and the reclamation activities.

2.3.3 King Low Grade ROM Sorter Plant

The mine intends to establish a new Low Grade ROM Sorter Plant to beneficiate the low grade ROM from the Khumani opencast pit operations at the King Mine. The project will be developed in a phased approach. Phase 1 will involve the processing of 700tph ROM through a sorter plant. Phase 2 will be a second plant similar to Phase 1 allowing an additional 700tph to be processed. The -32mm size fraction stockpile emanating from Phase 1 and Phase 2 will be located on the already approved Low Grade ROM Stockpile, as well as the low-low grade sorter discharge ROM stockpile. For the Phase 3 portion of the plant, the -32mm stockpile will be re-located to a position east of the Low Grade ROM Sorter plant.

The low grade material (grade not further processed as part of this plant output) emanating from the Phase 1, Phase 2 and Phase 3 sorter plants will be stockpiled on the already approved Low Grade ROM Stockpile. The intention is to beneficiate a product, which is currently not being processed by the current plant at Khumani, thus re-enforcing one of the aims at Khumani, which is to ensure optimal beneficiation of ROM.

In terms of the NEM:WA and associated Regulations, which came into effect on 24 July 2015, and include Mine Residue Stockpiles as listed Waste Management Activities, all such activities that commenced prior to 24 July 2015, may be regarded as lawful and need not be authorised (Regulation 7(1) of GN 921 contains the relevant transitional requirements). Prior to the NEM:WA Regulations of 2015, the reclamation of residue for re-use did not require EMP amendments, as it fell within the definition of mining (as defined in the MPRDA), especially in this instance where no separate infrastructure (e.g. crushing plants) were constructed that had to be reflected in the EMPs. However, Khumani has approval in terms of the NEMA and the MPRDA to rework its Low Grade ROM Stockpiles on site through the approved EMPs, and as a result a Waste Management Licence will not be required. Activities associated with the Low Grade Sorter Plant, such as the thickener process (Phase 3), will not result in storage or disposal of dirty water, but is considered an integral part of the beneficiation process for optimal water reuse. Waste from the Low Grade Sorter Plant will be deposited on the approved Low Grade Stockpile [Permit 21/2016 issued by the NCDENC], which is located to the south-west of the proposed plant. Low grade fines (-10mm) emanating from the wet Phase 3 beneficiation processes will be deposited on the approved Paste Disposal Facility [approved in terms of the MPRDA Ref: NC30/5/1/2/3//1/070EM, dated 25 January 2007; the EIA Regulations under the ECA Ref 43/2006, dated 13 June 2006, and the NWA Ref 10/D41J/BC1J/2122, dated 16 March 2013].

2.3.3.1 *Phase 1*

A tripper chute arrangement on the King ROM Buffer Stockpile Feed Conveyor will divert the low grade crushed ROM coming from the primary and secondary crushing sections. The ROM will be discharged onto a stockpile for buffering purposes.

The low grade ROM will be fed to a screening section where the +80mm, -80+32mm and the -32mm material will be classified. The +80mm material will discharge onto the Sorter Plant Product Conveyor and will be fed back to the overland conveyor feeding the Parson Plant via a product stockpile, while the -32mm material will be stockpiled for future use in the low grade stockpile area. The -80+32mm fraction is the sorter plant feed (see diagram below).

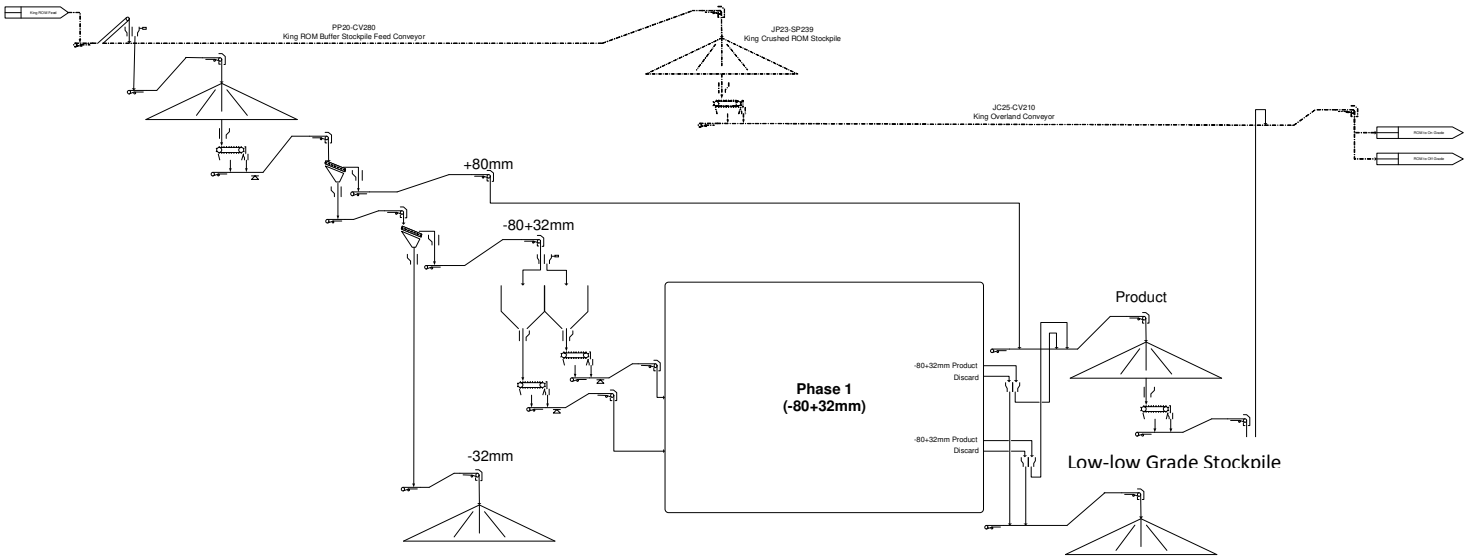


Diagram 1: Phase 1 Flow Diagram.

Sorted product will be stockpiled to achieve a buffer before it is fed to the Parson Plant, where it will be processed and then despatched via rail for export or to local markets.

Sorter plant material, which can be processed during later phases of the plant will be stockpiled on the existing Low Grade ROM Stockpile, located to the west of the proposed plant.

2.3.3.2 *Phase 2*

Phase 2 of the plant will comprise an additional sorter and associated equipment to allow a further 700tph of low grade ROM to be processed and fed back into the overall system to be further beneficiated at the Parson Plant. Phase 2 (see diagram hereafter) will have an additional plant feed stockpile of similar size as that of Phase 1.

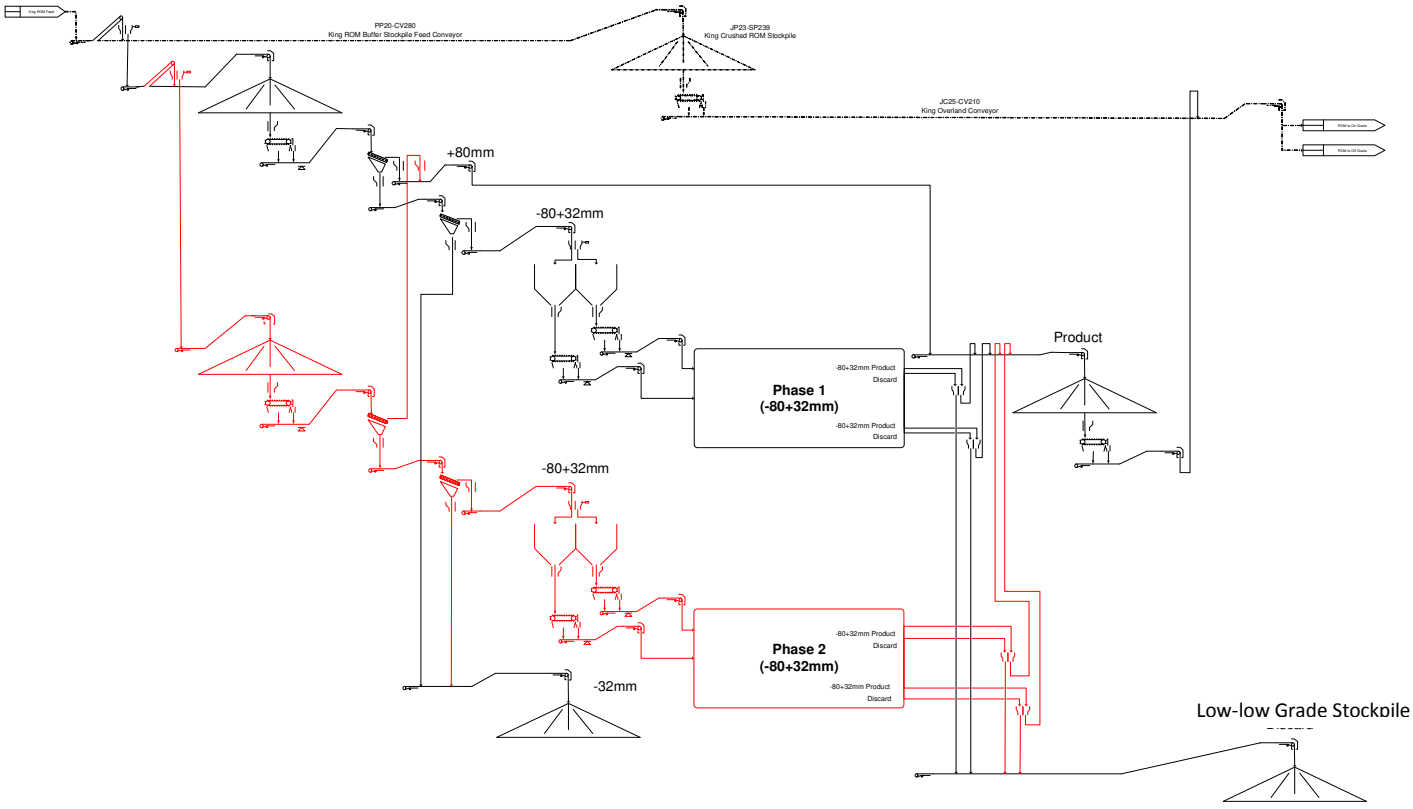


Diagram 2: Phase 2 Flow Diagram (black: Phase 1; red: Phase 2)

2.3.3.3 *Phase 3*

Phase 3 will be implemented in two stages.

Phase 3a will involve a feeding arrangement to the relocated -32mm stockpile. The -32mm material will be fed to a wet screening section where the -32+10mm, -10+1mm and the -1mm sizes will be classified. An additional sorter will be installed and the -32+10mm size fraction will be the Phase 3 sorter pant feed (see diagram hereafter).

The -10+1mm material will report to the Low-Low Grade Stockpile located on the already approved Low Grade ROM Stockpile, and the -1mm material will be processed in a dewatering section with Thickener and discharged onto the already existing King Mine tailings dam using existing infrastructure.

As per the prior two phases, product will be stockpiled to achieve a buffer before it is fed to Parson, where it will be further processed and despatched via rail for export to local markets.

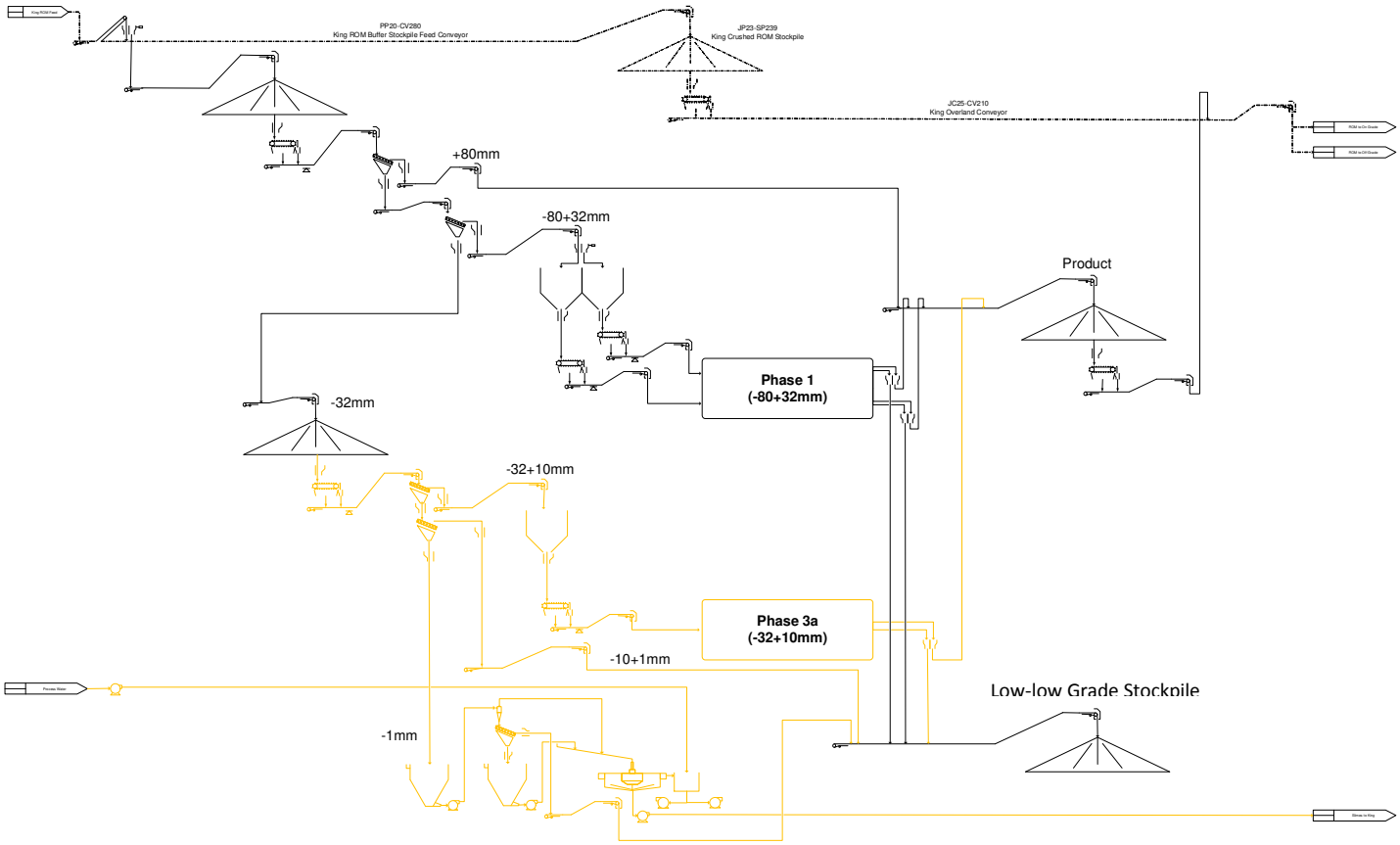


Diagram 3: Phase 3a Flow Diagram (black: Phases 1 & 2; yellow: Phase 3)

As part of Phase 3b, a feeding arrangement on the -32mm Stockpile (-32mm coming from the -150+32mm section) will be fed to a wet screening section where the -32+10mm, -10+1mm and the -1mm material will be classified. The -32+10mm is the Sorter Plant Feed. The -10+1mm material will report to the Sorter Plant Discard (which will be disposed of on the approved Low Grade Stockpile J), the -1mm material will be processed in a dewatering section with Thickener and discharged onto the already existing King Mine tailings dam using existing infrastructure.

Please refer to the diagram overleaf for the process flow illustration.

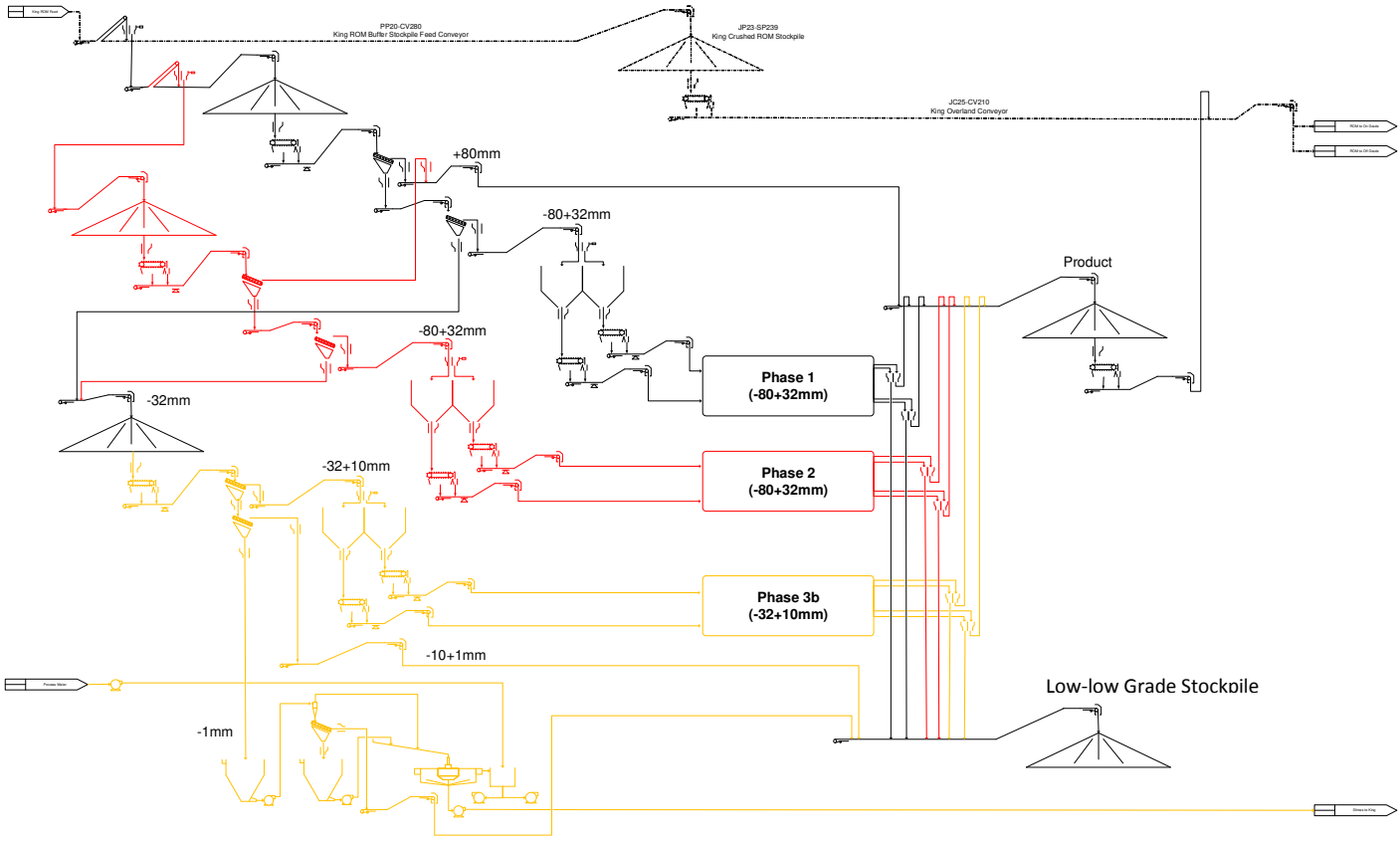


Diagram 4: Phase 3 Flow Diagram (black: Phase 1; red: Phase 2; yellow: Phase 3; dotted lines: existing infrastructure)

2.3.3.4 *Discussion on Waste Management*

The Low Grade ROM Sorter Plant's purpose is to beneficiate the low grade ROM from the King Mine. A second source will be the low grade ROM from the existing stockpiles on site.

In terms of the NEM:WA and associated regulations, which came into effect on 24 July 2015, and include Mine Residue Stockpiles as listed Waste Management Activities, all such activities that commenced prior to 24 July 2015, may be regarded as lawful and need not be authorised (Regulation 7(1) of GN 921 contains the relevant transitional requirements). Prior to the NEM:WA Regulations of 2015, the reclamation of residue for re-use did not require EMP amendments, as it fell within the definition of mining (as defined in the MPRDA), especially in this instance where no separate infrastructure (e.g. crushing plants) were constructed that had to be reflected in the EMPs. However, Khumani has approval in terms of the NEMA and the MPRDA to rework its Low Grade ROM Stockpiles on site through the approved EMPs and as a result a Waste Management Licence will not be required.

Activities associated with the Low Grade Sorter Plant, such as the thickener process, will not result in storage or disposal of dirty water, but is considered an integral part of the beneficiation process for optimal water reuse. Material for further processing from the Low Grade Sorter Plant will be deposited on the approved Low Grade ROM Stockpile, which is located to the south-west of the proposed plant.

No additional access roads will be required for the plant as existing access roads will be utilised.

Refer to the following figure for the Low Grade ROM Sorter Plant Location and infrastructure.

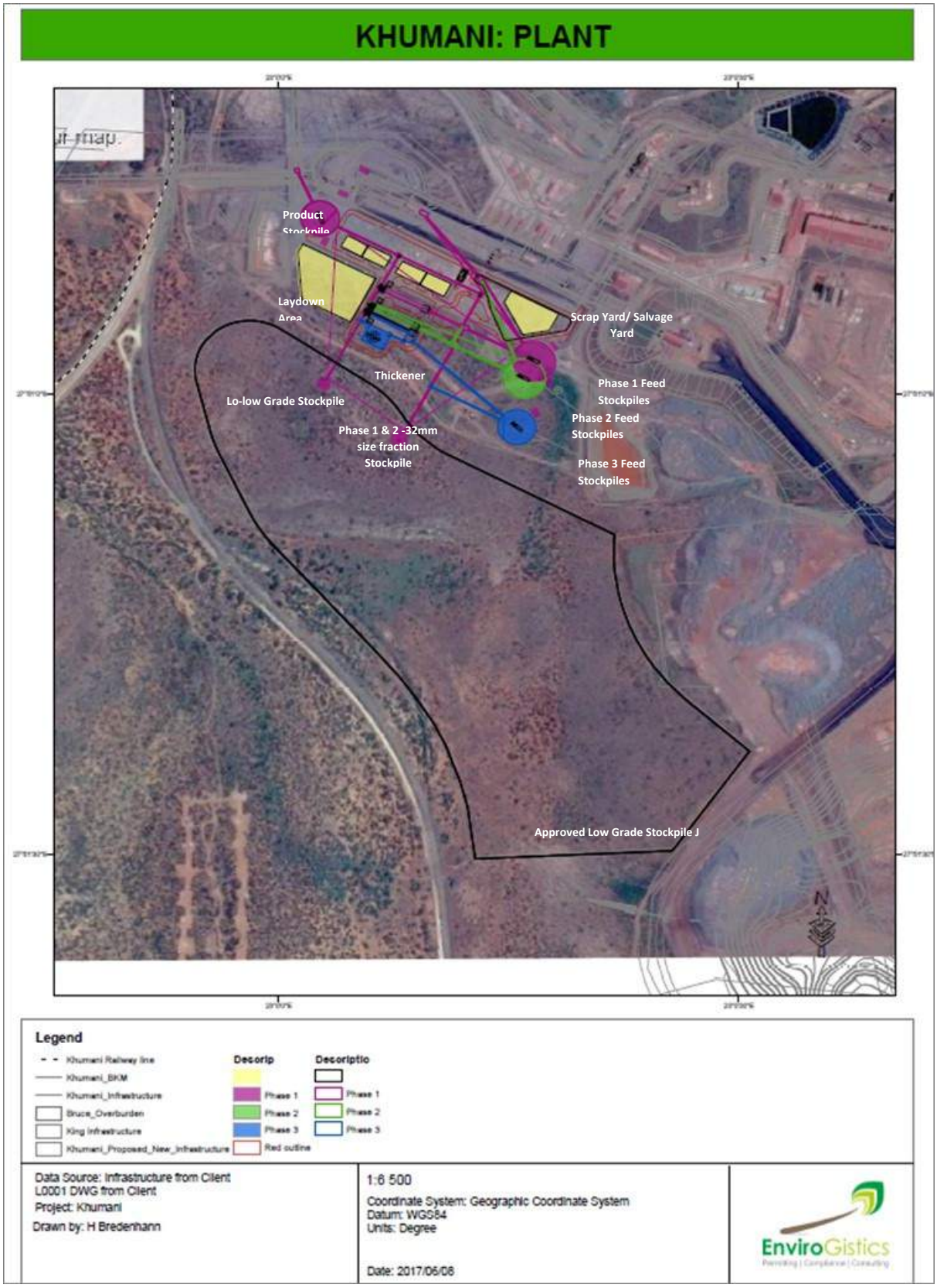


Figure 4: Low Grade ROM Sorter Plant Location (updated drawing to be presented as part of the current EMP pending for DMR consideration)

2.3.4 Explosives Magazine & Silos

The mine will decommission the existing silos at King Mine and farm Parson and relocate these to the alternative location at the King Mine and Bruce Mine respectively. Both sites will comprise of a fenced area of about 2.5ha.

2.3.4.1 *King Silo Project*

At King Mine, the silos will be relocated from their current position due to encroaching mining activities. The new silos will be established on the farm Mokaning, which forms part of the approved mining area. This site is located approximately 600m from a dry pan (see figure below).

Figure 5: Location of proposed King Silo in relation to dry pan

This area will comprise of an emulsion silo [capacity of approximately 67 cubic metres (89 tons)] and a second silo, which will house ammonium nitrate [approximately 65 cubic metres (52 tons)]. Two magazines will also be established at this area and will house electric detonators (all types), boosters, blasting cartridges and detonating cord (cortex).

<u>Access to King Silo:</u>

Access to the relocated King Mine silos will be via existing roads. However, some expansions will be required.

The most probable access to the proposed King Silo will be from the existing haul road system of the King West Pit and the King/ Mokaning Low Grade ROM Stockpile.

Please refer to the following figure for an illustration of the potential access road. The areas indicated in red could be potential extensions to the existing roads. Such extensions would be in sum total approximately 500m in length. The roads proposed will not exceed a width of 8m.

Figure 6: King Silo Potential Access

2.3.4.2 *Parson and Bruce Silo Project*

The silos and magazine at farm Parson will be relocated to Bruce Mine to reduce the travelling distance between the facility and where mining is undertaken. The area will comprise of an emulsion silo (capacity of approximately 33 cubic metres) and a second silo, which will house ammonium nitrate (approximately 32 cubic metres). Two magazines will also be relocated to this area and will house electric detonators (all types), boosters, blasting cartridges and detonating cord (cortex).

Access to Bruce Silo will be via existing roads. However, some expansions will be required.

<u>Access to Bruce Silo:</u>

The most probable access to the proposed Bruce Silo will be from the existing burning ground, located to the west of the proposed location.

Please refer to the following figure for an illustration of the potential access road. The areas indicated in red could be potential extensions to the existing roads. Such extensions would be in sum total approximately 500m in length. The roads proposed will not exceed a width of 8m.

Figure 7: Bruce Silo Potential Access

Refer to the figure overleaf for the location of the silos.

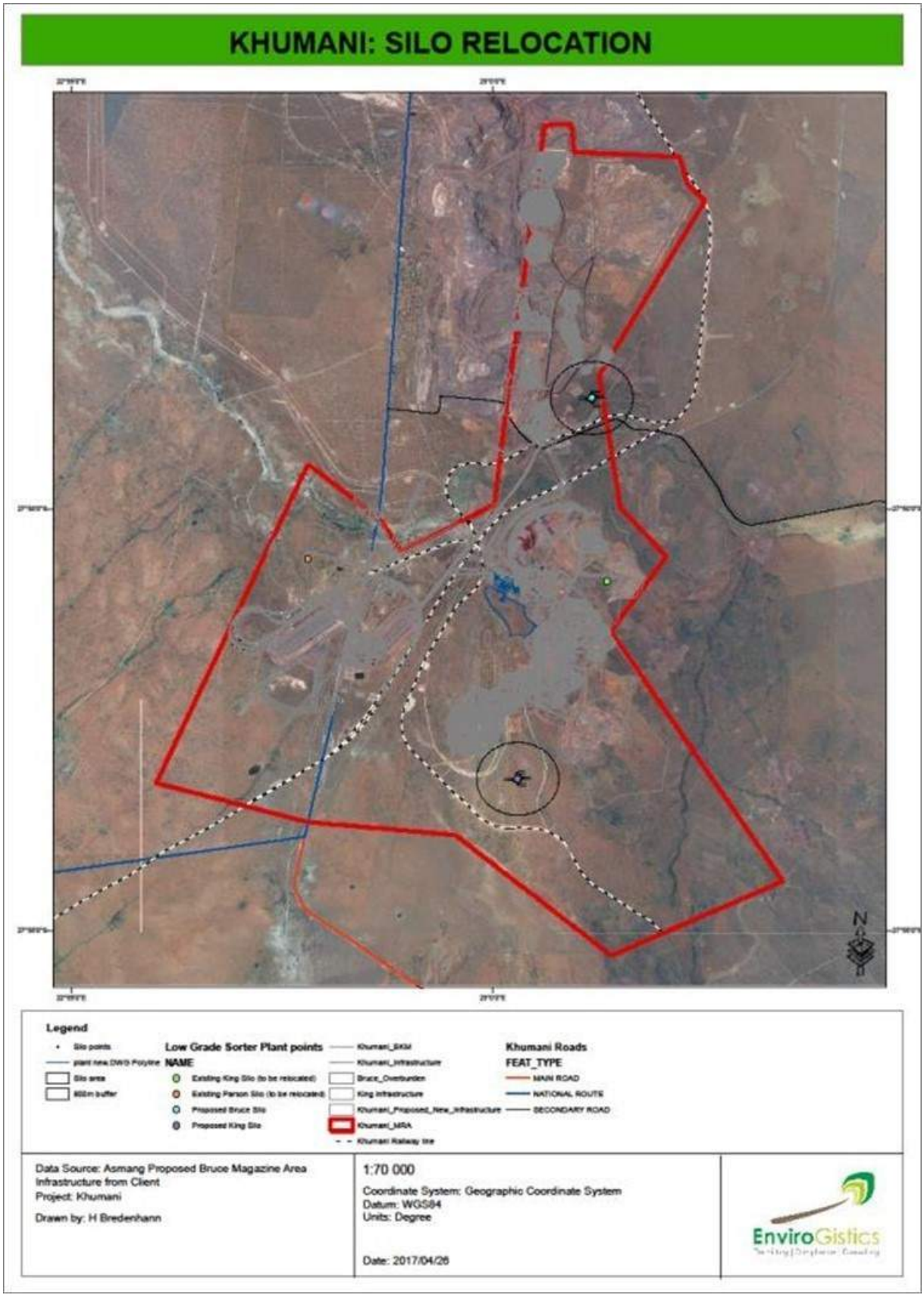


Figure 8: Location of the Silos and Relocation Areas

2.3.4.3 *Ancillary Infrastructure*

Additional infrastructure will include:

- Upgrading and expansion of storm water facilities (separating clean and dirty water);
- High Pressure Grinding Roll (HPGR) Crushing Facility;
- Haul roads; and
- 22kV power lines to accommodate the WHIMS 2 Plant and the reclamation activities.

2.4 Current Mine Plan

2.4.1 Mining Plan

According to the approved 2006 EMP, the following information is submitted. This information is still considered applicable as no requests for amendments have been made in terms of this.

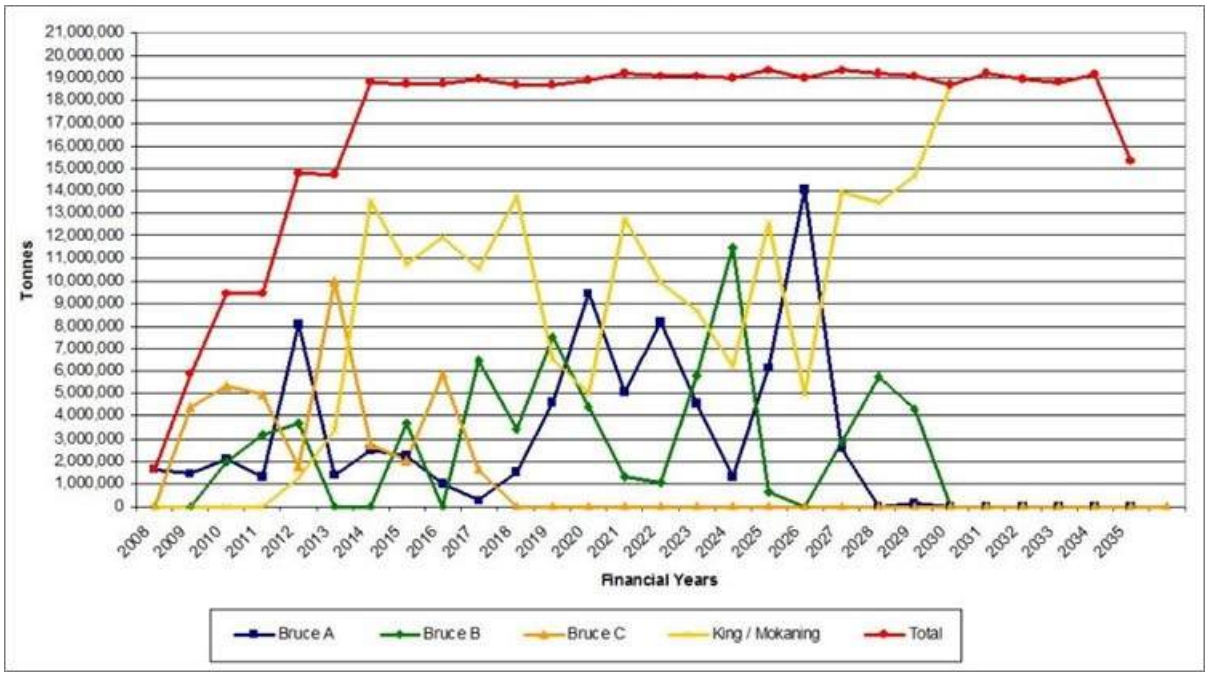
Please refer to Graph 1 and 2 overleaf which provide the schedule of ore and waste as was available during the 2006 EMP. The schedule indicates the total ore and waste, as well as the total volume of material to be removed during a given year, per opencast pit.

The following was planned for the commencement of opencast mining operations at specific opencast pits:

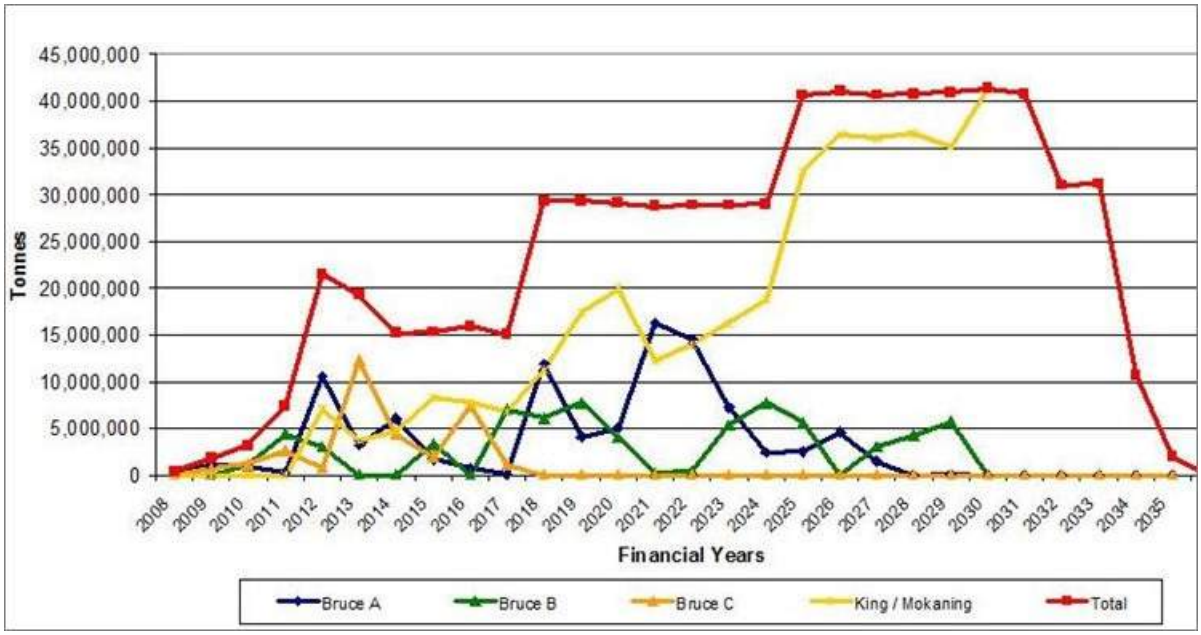
- Bruce A during the year 2008;
- Bruce B during the year 2009;
- Bruce C during the year 2009; and
- King/ Mokaning during the year 2012.

The following is planned for the end of the mining operations at specific pits:

- Bruce A completed by the year 2029;
- Bruce B completed by the year 2029;
- Bruce C complete by the year 2017 (completed); and
- King/ Mokaning completed by the year 2035.



Graph 1: Khumani Mine Total Ore



Graph 2: Khumani Mine Total Waste

The mine will undertake continuous backfilling throughout the mining operation in order to eliminate double handling. The following tables indicate the volumes of backfilling per opencast area and per individual pits as outlined in the proposed 2006 mine schedule.

Table 2: Bruce and King opencast pit backfill volume estimates

Opencast pit	Tonnage Backfilled (Million tons)
Bruce A	31.5
Bruce B	0
Bruce C	44.5
King/ Mokaning	96.0
Total	172.0

Table 3: Proposed backfill schedule by pit area

Opencast pit	Year available for backfilling	Tonnes Backfilled (million tons)	Source of waste	Year pit filled
Bruce C opencast pit area				
BC_CENT	2017	30.3	BA_STH, BA_CENT	2021
BC_NTH	2018	12.7	BA_CENT	2022
BC_WEST	2012	1.1	BA_CENT	2013
BC_STH	2018	0.4	BA_CENT	2022
Bruce A opencast pit area				
BA_STH	2025	8.7	BA_CENT	2029
BA_CENT	2030	0.0	-	-
BA_NTH	2018	18.0	BA_CENT, BB_STH	2024
BA_ESTN	2010	1.6	BA_ESTS, BB_STH	2011
BA_ESTC	2017	1.1	BA_NTH, BC_NTH, BC_STH	2017
BA_ESTS	2013	2.1	BA_CENT, BA_NTH	2014
Bruce B opencast pit area				
BB_STH	2030	0.0	-	-

Opencast pit	Year available for backfilling	Tonnes Backfilled (million tons)	Source of waste	Year pit filled
BB_CENT	2030	0.0	-	-
BB_NTH	2030	0.0	-	-
King/ Mokaning opencast pit area				
KM_WST2	End of life	0.0	-	-
KM_WST1	End of life	0.0	-	-
KM_CENT	End of life	0.0	-	-
KM_EAST2	2030	85.6	KM_WST1, KM_CENT, KM_EST1	2035
KM_EST1	End of life	0.0	-	-
KM_NTH	2014	10.4	KM_EST1	2016
Total opencast pit area				
Bruce A	2010	31.5		2029
Bruce B	2030	0.0		-
Bruce C	2012	44.5		2022
King / Mokaning	2014	96.0		2035
Total	-	172.0	-	-

The information provided above is regarded as the conservative scenario. It is likely that the volume to be backfilled will increase substantially once the mine is in operation.

The following important concepts should be noted:

- No additional infrastructure is currently planned with the exception of those stipulated in Section 2.3. These additional expansions have been taken into account as part of the financial provision.
- The two projects (Off-Grade 2 and WHIMS) have not been included, as it is uncertain whether these will be constructed in the near future due to the current economic conditions.

2.4.2 Life of Mine

The life of mine is expected to be in excess of 30 years.

3 ENVIRONMENTAL CONTEXT

3.1.1 Geology

The farm Parson is situated in the northern part of the Maramane Dome. Carbonate rocks of the Campbellrand Subgroup and iron formations of the Asbesheuwels Subgroup of the Transvaal sequence define the dome. The eastern part of Maramane Dome is exposed. The red beds of the Gamagara Formation of the Olifantshoek Group overlie the Transvaal sequence along an angular unconformity to the west.

3.1.2 Topography

The general topography is characterised by fairly flat terrain, with no steep inclines, except for the two (2) mountain ranges to the west (Langberg range) and a smaller range to the east (Kuruman Heuwels). Altitudes range from approximately 1360 metres above mean sea level (mamsl) in the south to 1200mamsl in the north. Various landform elevations occur in the area, with the highest elevations on the southern portion of the farm Mokaning (1365mamsl) and on the border between farms Mokaning and King (1347.3mamsl).

3.1.3 Soils

Soil distribution is strongly linked to the topography of the area. In turn, the topography is closely linked to the underlying surface geology. Hard rock outcrops characterise the topographic highs of the area. The outcrops generally comprise quartzites and the iron ore bearing ironstones. These outcrops form prominent hills or ridges with moderate to steep slopes. In these areas, soils are very shallow to non-existent, occurring as erratic pockets of orange sands within the outcrops, which can be as deep as 1m. These soils are classified as Mispah Form soils, with minor occurrences of Hutton Form soils.

The very gently sloping areas between the hills and ridges are generally underlain by calcrete or dolomite. The calcrete is overlain by orange fine sands, which can be classified as Plooysburg Form soils. The calcrete surface is undulating, with isolated boulder outcrops occurring within the soils. The soil depth is highly variable, being between about 0,3m to greater than 2m.

On the lower slopes, between the Plooysburg Form soils and the Mispah Form soils are Hutton Form soils. These areas are characterised by abundant, to numerous surface boulders, derived from the outcrops upslope thereof, which have moved by gravity down slope to be deposited on the ground surface.

The Hutton Form soils are characteristically dystrophic and non-luvic in the B1- horizon, indicative of Lillieburn Family soils while the Plooysburg Form soils are non luvic – Brakkies family and the Augrabies Form soils have a non-bleached red A horizon and are non-luvic, characteristic of the Khubus Family. The Hutton and Plooysburg Form soils examined on site comprise dry, yellowish red to red, apedal, loose, fine sands, with little observed differentiation between the topsoil and the B1-horizon sandy loams. The topsoil of the Mispah Form and Augrabies Form soils is also very similar in structure.

The mine currently has three (3) topsoil stockpiles on site at farms Bruce, King and Mokaning.

3.1.4 Ecology

The Savanna Biome is the largest biome in southern Africa, covering about 46% of its area. The term savanna is widely accepted as describing a vegetation type with a well-developed grassy layer and an upper layer of woody

plants. Many environmental factors correlate with the distribution of different savannah vegetation types, including landform, climate, soil types, fire and a very specific fauna. South African savannas of nutrient-poor substrates are characteristically broad-leaved and without thorns, while those of nutrient-rich substrates are fine-leaved and thorny. Nutrient-rich savannas have high grass layer productivity and the grasses are acceptable to grazers, resulting in a high grazing capacity (Knobel, 1999).

The diversity of African savanna is exceptional, comprising more than 13,000 plant species, of which 8,000 are savanna endemics. Specifically, dry savannas have more than 3,000 species. This diversity equals that of the South African grasslands and is only exceeded by Fynbos (Knobel, 1999). Similarly, in respect of animal diversity, savannas are without peer, including approximately 167 mammals (15% endemism), 532 birds (15% endemism), 161 reptiles (40% endemism), 57 amphibians (18% endemism) and an unknown number of invertebrates (Knobel, 1999). Flagship species include the Starburst Horned Baboon Spider (*Ceratogyrus bechuanicus*), ground Hornbill (*Bucorvus leadbeateri*), Cape Griffon (*Gyps coprotheres*), Wild dog (*Lycaon pictus*), Short-Eared Trident Bat (*Cloeotis percivali*) and the White Rhino (*Ceratotherium simum*) (EWT, 2002).

Conservation within and of the savanna biome is good in principle, mainly due to the presence of a number of wildlife reserves. Urbanisation is not a threat, perhaps because the hot, dry climate and diseases prominent in the savanna areas have hindered urban development. Much of the area is used for game farming and the importance of tourism and big-game hunting in the conservation areas must not be underestimated. Savannas are the basis of the African wildlife and ecotourism industry and play a major role in the meat industry.

Surprisingly little is known about the vegetation as most studies have been done in nature reserves and game farms, but five major regions are present, three of which are represented in the area. Sweet Bushveld occurs on fertile soils in the dry and hot valleys of the Limpopo River and the thorny, small-leaved vegetation is dominated by Acacia species that increase to dense, impenetrable thickets at the expense of the grass layer when overutilised. Mixed Bushveld varies from short, dense bushveld to a rather open tree savanna.

On shallow, infertile soils the broad-leaved Red Bushwillow (*Combretum apiculatum*) dominates, whereas on deeper, leached soils the Silver Clusterleaf (*Terminalia sericea*) becomes dominant.

The vegetation that characterises this area has developed many survival strategies, including the ability to produce tannins that are triggered when the leaves are browsed, the production of toxic sap, the development of thorns or their adaptation to sourveld areas that are not generally favoured by grazers. The interaction of vegetation, fire and animals play important roles in maintaining savanna ecosystems (Knobel, 1999). Over thousands of years, the savanna system and the antelope that inhabit them have developed side by side. Grasses, for example, have become well adapted to defoliation, as much a defensive response to constant pressure by grazers as to the regular veld fires that rage through the savanna in the dry seasons.

3.1.5 Hydrology

The mine falls within the Lower Vaal Water Management Area. The area is situated in the catchment of the Gamagara River, the quaternary catchment being D41J. The site is located on gently sloping to hilly terrain with watercourses flowing in a general north-westerly direction. The major river traversing the site is the Gamagara River, which flows from the east to west north of the Parson Plant area. The river then flows north to confluence with the Kuruman River.

The Gamagara River and the tributaries within the existing and proposed development areas are normally dry and only flow for comparatively short periods after significant rainfall events (Knight Piesold, 2005).

3.1.6 Hydrogeology

The hydraulic properties of the area are characterised by shallow dolomitic aquifers with high transmissivities. The lithologies below the dolomites are characterised by a host interbedded chert, ironstones, chert breccias, quartzites, conglomerates and shales which would be indicative of primary and secondary aquifers. Groundwater flow will mainly be in the form of fracture flow. Porosities vary greatly throughout the lithologies from 1% to 30%.

The dykes in the area that have not been permeated by faulting, form compartments where water is dammed up and greatly disrupt groundwater flow; this phenomenon is known as compartmentalisation. The shallow aquifers are of younger age than the dyke structures and are therefore not intruded by these structures. The implication of this is that the shallow, unconsolidated sandy aquifers were previously not affected by the dyke structures and water could flow freely across the top of the dyke structures and the water levels would be more constant throughout the area. As the water table has now been lowered, the effect of compartmentalisation has now become relevant.

It is likely that the geohydrological regime in the study area is made up of two aquifer systems. The first, the upper, semi-confined aquifer occurs in the calcrete or on the contact between the calcrete and underlying Kalahari clay formation, if the latter is present. This aquifer is, however, often poorly developed in the area and only sustains livestock and domestic water supply. Where thick clay layers are developed in this aquifer, a recharge lag time to the underlying aquifer(s) often occurs. The second, deeper aquifer is associated with fractures, fissures and joints and other discontinuities within the older hard rock geology of the Transvaal Supergroup and associated intrusives. The aquifer occurs at depths of between 20m and 350m or even deeper in the area. Where the upper aquifer is present, mining in the mine boundary area will completely destroy it, but the dewatering effects of the aquifer will not be so widespread due to its limited depth. The most significant dewatering effect as well as contamination, if present, will be on the deeper secondary aquifer with higher transmissive properties and more dynamic hydraulic properties.

Theoretically, water entering the system will migrate vertically downwards until a perched aquifer is encountered. As the perched aquifer did not feature very prominently during drilling, it is likely that the recharging water might be retarded, but the majority will continue to migrate downwards into the saturated zone. From there it will migrate in the direction of the hydraulic gradient until it eventually enters surface water bodies (i.e. rivers or springs) from where it will flow out as surface water.

4 STAKEHOLDER CONSIDERATION

As part of the ongoing development of the mine, various EIA Processes have been conducted. A key component to each of these processes is the consultation with the Stakeholders. The findings and outcomes of these sessions are documented in the EMPs. Through assessing the EMPs, the following key issues have been identified for consideration in the closure plan:

- Impact of the mine on groundwater levels in the area;
- The potential for groundwater pollution;
- Increase of dust in the area;
- Involvement of youth and local community in the mine; and
- Loss of sensitive and protected ecology.

During the development of the Final Rehabilitation Plan it was important to take cognisance of the above. This was done by means of the following:

- Impact of the mine on groundwater levels in the area.
    - The mine is not currently abstracting any groundwater as the opencast pits have not intercepted these levels. It is uncertain whether the mine will intercept groundwater due to the current dewatering practices of surrounding mines; and
    - The mine is in the process of investigating the potential of abstracting groundwater due to the shortage of water supplied by the Sedibeng Scheme. A groundwater investigation is currently being undertaken to determine the impact of this abstraction (should it be approved) on the regional groundwater levels. The outcomes of these studies are currently being reassessed.
- The potential for groundwater pollution.
    - Shaping and vegetation of the Mine Residue Deposits must take place;
    - Rehabilitation of the Opencast Pits must be priorotised; and
    - Implementing strategies to ensure that the area is free draining when backfilled.
- Increase of dust in the area.
    - The practices to be implemented must ensure that the emissions in the area remains within the regulated levels of 1200mg/m^2/day.
- Involvement of youth and local community in the mine.
    - The activities undertaken must take into consideration compliance in terms of commitments made in the Social and Labour Plan in terms of involving local people as far as practically possible.
- Loss of sensitive and protected ecology.
    - As discussed in the section hereafter, the mine has committed to the establishment of an Offset Area, due to the sensitive ecology in which this mine is located. As part of the operational internal commitments (not legally binding through an EMP) the mine will replant tree species which are indigenous to the area. The closure plan however, does not include the replanting of trees, as the EMP allows for self-succession to take place.

5 RISK MONITORING RESULTS

5.1 Legal Waste Management Requirements

Previously, the MPRDA required all mine residue to be deposited in "approved demarcated" areas. These areas were to be included in the EMP which was required in terms of the now repealed section 39 of the MPRDA.

These provisions were repealed with effect from 8 December 2014, and new provisions were inserted in the NEM:WA, 2008 (section 43A).

Approved EMPs, however, remain legally binding, and approved residue stockpiles and deposits need not be re-approved. See Section 5.1.2 below.

As from 2 September 2014, Mine Residue Stockpiles and deposits, as defined in MPRDA, are no longer excluded from the ambit of the NEM:WA.[1] The key implications of this change are briefly described as follows:

i. Mine Residue must be classified and assessed in accordance with the requirements prescribed by regulations 4 & 8 of the Waste Classification and Management Regulations (GN R 634);[2]
ii. The establishment, reclamation and decommissioning of residue stockpiles and/or residue deposits require waste management licences in terms of section 20 of NEM:WA, **unless** these activities have been approved in the existing EMPs in terms of the MPRDA, in which event the EMP will be deemed to be a waste management licence.[3]
iii. Mine residue stockpiles and deposits must be managed in accordance with the Regulations regarding the Planning and Management of Residue Stockpiles and Residue Deposits, 2015 (GN R 632).

These three (3) requirements are discussed in more detail below.

5.1.1 Waste Classification and Management Regulations (GN R 634, NEM:WA)

5.1.1.1 *Obligation to classify and assess waste*

In terms of regulation 4 of GN R 634, all waste - as **defined,** excluding those listed in Annexure 1 of GN R 634, must be classified in terms of SANS 10234. The purpose of the SANS 10234 classification is to identify risks during handling of the waste.

In terms of regulation 8 of GN R 634, all waste - **as defined,** that will be placed on land, must also be assessed in terms of the *National Norms and Standards for the Assessment of Waste to Landfill* (GN R 635). The purpose of the Waste Type Assessment is to identify the leachate potential of the waste if placed on land. The waste type so derived (0 – 4) determines the applicable pollution barrier design, as outlined in the *National Norms and Standards for Disposal of Waste to Landfill* (GN R 636).

5.1.1.2 *Definition of "waste"*

In order to determine whether a material must be classified and assessed as aforementioned, it must be determined whether it is any one or more of the following:

- Unwanted; or

[1] Section 4, NEM:WA, as amended.
[2] Regulation 4(2) of GN R 634, NEM:WA, refers.
[3] National Laws Amendment Bill, 2015

- Discarded; or
- Disposed; or
- Required to be discarded or disposed.[4]

If so, and provided that the material is not listed in Annexure 1 of GN R 634, the waste must be classified in terms of SANS 10234.

If the waste is to be discarded or disposed of, it must also be subjected to a Waste Type Assessment by an accredited laboratory, conducted in accordance with the *National Norms and Standards for the Assessment of Waste to Landfill* (GN R 635).

Uncontaminated topsoil is an example of material that is not waste, as defined, as it is NOT unwanted, discarded, disposed or required to be discarded or disposed of.

5.1.1.3 *Annexure 1 Exclusions*

Included in Annexure 1 of GN R 634[5], is *"excavated earth material not containing **hazardous waste** or hazardous chemicals".*

> "**Hazardous waste**" is defined as meaning "*any waste that contains organic or inorganic elements or compounds that may, owing to the inherent physical, chemical or toxicological characteristics of that waste, have a detrimental impact on health and the environment."*

Waste rock, tailings or any other residue that is to be discarded or disposed of cannot be regarded as inert without classification and assessment, and must accordingly be classified and assessed in terms of GN R 634.

If previously classified in terms of the *Minimum Requirements for the Classification and Disposal of Hazardous Waste*, or in terms of GN R 527 of the MPRDA, reclassification may be postponed until August 2016.[6]

5.1.1.4 *Provision for exclusion of a waste stream or a portion of a waste stream from the definition of waste.*

In terms of DRAFT regulations promulgated in Nov 2014,[7] the Minister of Environmental Affairs may exclude a waste stream from the definition of waste (and as such from the ambit of NEM:WA) on the following two grounds:

i. If it can be demonstrated that the waste is non-hazardous in accordance with classification and assessment done in accordance with the *Waste Classification and Management Regulations* (regulation 4(1)). In order to demonstrate that it is *not hazardous* for the purposes of regulation 4(1), SANS 10234 classification by an accredited laboratory will be required. For waste that will be disposed to landfill, an additional assessment will be required in terms of the *National Norms and Standards for the Assessment of Waste to Landfill.* If the outcome of these assessments confirm the particular waste to be non-hazardous, the Minister may exclude it from the ambit of the NEM:WA.

and/or

ii. If it can be demonstrated that the waste will be used in a manner that will not have a significant adverse impact on the environment (regulation 4(2)). This provision may, for example, be used to apply for the reuse of waste rock, tailings or slag, PROVIDED that it can be shown that the use in question will not have a significant adverse impact on the environment.

[4] Proposed new definition of "waste" – National Environmental Laws Amendment Act, 2015.
[5] As item 2(a) (viii).
[6] Regulation 12(1), GN R 634 refers.
[7] GN 1006 of 14 November 2014: PROPOSED Regulations to Exclude a Waste Stream or a Portion of a Waste Stream from the Definition of Waste.

Mindful of the fact that the Waste Type Assessment results confirm the waste to be of a moderate hazard, it will not be exempted on the first ground. If it is to be re-used, even though hazardous, it could possibly qualify for exemption in terms of the second ground, if it can be shown that the re-use will not have a significant detrimental impact on the environment.

The final promulgation of these regulations should accordingly be monitored in the context of waste re-use opportunities.

5.1.2 Waste Management Licence Requirements (Section 20, NEM:WA)

5.1.2.1 *Establishment, reclamation and decommissioning of Residue Stockpiles/ Deposits must be licensed*

Activities that are listed in terms of Section 20 of NEM:WA may not be carried out without a Waste Management Licence. The list of activities that are subject to these requirements was amended during July 2015 to include the establishment and reclamation of Residue Stockpiles and Residue Deposits (as defined in the MPRDA).[8] The decommissioning[9] of activities listed in GN 921 must also be licensed. [10]

It follows that new Residue Stockpiles, or the expansion of existing stockpiles beyond their approved footprints, as well as new reclamation and/or decommissioning of residue stockpiles/ deposits require a Waste Management Licence. The procedure to be followed for such an application is outlined in GN R 892 of the NEMA.

5.1.2.2 *Allowance for unlicensed continuation of lawful Residue Stockpiles/ Deposits*

Residue stockpiles/ deposits that were lawful on the effective date of this change (24 July 2015), are not affected by the NEM:WA licence requirements and may continue without a Waste Management Licence. "Lawful" in this context means demarcated in an MPRDA-approved EMP. [11]

5.1.2.3 *Pending EMP amendment applications for residue deposits/ stockpiles*

EMP Amendment applications that were submitted prior to 8 December 2014, will be dealt with in terms of the MPRDA and, once approved, will also be regarded as a Waste Management Licence, insofar relating to residue stockpiles/ deposits.

EMP Amendment applications submitted after 8 December 2014, will be dealt with in terms of NEMA and the Regulations Regarding the Planning and Management of Residue Stockpiles and Residue Deposits, 2015 (GN R 632) – see 5.1.3.

[8] GN R 921, Category A, activity no 15, and Category B, activity no 11.
[9] 'decommissioning', in relation to waste treatment, waste transfer or waste disposal facilities, means the planning for and management and remediation of the closure of a facility that is in operation or that no longer operates – Section 1, NEM:WA refers.
[10] GN 921, Category A, activity no 12.
[11] GN R 921, regulation 7 refers. (Further amendments are proposed in terms of which the approved EMPs will be recognised as waste management licences for residue stockpiles/deposits that were lawful that were approved before 24 July 2015).

5.1.2.4 *Illegal Residue Stockpiles/ Deposits*

Existing residue stockpiles and deposits that are not described in an approved EMP, and not the subject of a pending EMP Amendment application, are accordingly illegal until licensed in terms of NEM:WA.

The same principles apply to reclamation and/or decommissioning of residue stockpiles/ deposits – if approved in terms of an EMP, or a pending EMP, no Waste Management Licence is required. If however, carried out without an approved EMP, the activity requires a Waste Management Licence.

5.1.3 Regulations Regarding the Planning and Management of Residue Stockpiles and Residue Deposits, 2015 (GN R 632)

These new Regulations regarding the Planning and Management of Residue Stockpiles and Residue Deposits impose several obligations relating to new stockpiles, and also impose obligations on the holder of Mining Rights that apply to all existing Residue Deposits and Stockpiles.

These are outlined in regulations 7 - 11 and include the obligation to undertake impact prediction investigations and to take action when pollution is detected.

The results of the Waste Type Assessment must inform the required predictions and mitigation obligations. Several of the residue deposits at Khumani were previously managed as inert wastes, and not subjected to impact prediction studies. The results of the assessment necessitate additional source-pathway receptor investigations in terms of GN R 632.

5.1.4 Financial Provisioning Regulations, 2015 (GN R1147, NEMA)

Once the impact prediction investigation required in terms of GN R 632 have been completed, the information so gained must be considered for purposes of the three (3) compulsory plans and related financial provision required in terms of GN R 1147. The new regulations commenced on 20 November 2015.

5.2 Status of Long Term Risk Identification

5.2.1 Mine Residue Deposit Legal Risk

The transitional arrangements of the NEMA Regulations for the Planning and Management of Residue Deposits and Residue Stockpiles are very important. Under the transitional arrangements it is stated that an EMP approved in terms of the MPRDA shall be deemed to have been approved and issued in terms of the NEM:WA. The Minister may however direct any holder of a mining right if he or she is of the opinion that the residue stockpile or residue deposit in question is likely to result in significant pollution, degradation or damage to the environment, to take such action to upgrade the EMP to address any deficiency in the EMP. A further very important component of the transitional arrangements is the fact that under Section 6 it is stated that an EMP submitted in terms of the MPRDA and which is pending when this Notice takes effect (8 December 2014), must despite the repeal of the MPRDA be dispensed with in terms of the MPRDA. The aforementioned statement will then again give effect to the transitional arrangements stating that an EMP approved in terms of the MPRDA shall be deemed to have been approved and issued in terms of the NEM:WA.

5.2.2 Rehabilitation Material Availability

Three (3) topsoil stockpiles are present on site. Based on the current layout and engineering investigation sufficient topsoil is available on site.

5.2.3 Waste Classification Outcomes

As part of the commitment of Assmang to comply with the national environmental legislation and to follow a proactive and responsible approach in the undertaking of the mining operations, the importance of the changes in the Regulatory System in terms of the governance, management and licensing of Mine Residue has been raised as an urgent matter to be investigated and the legal requirements and potential liabilities be understood and planned towards.

The waste classification and type analysis was undertaken during 2015 and 2016, with the finalisation of the report in June 2016. The outcomes of the report is summarised below:

5.2.3.1 *Type Assessment*

The material from all the different sites is classified as Type 3 Waste following the GN 635 classification system.

This classification is mostly based on the results of the total concentration testing results where there are elements that exceed the TCT0 guidelines for all the samples. The Bruce Low Grade ROM Stockpile may not be impacted when taking into consideration dilution with natural groundwater based on the leach concentration results.

Following the GN 636 guideline, the material from all the facilities may only be disposed of at a Class C landfill designed in accordance with Section 1(1) and (2) of the GN 636 Norms and Standards, or, subject to Section 3(4) it may be disposed of at a landfill site designed in accordance with the requirements for a GLB+ landfill as specified in the Minimum Requirements for Waste Disposal by Landfill (2nd Ed., DWAF, 1998).

5.2.3.2 *Environmental Impact*

The groundwater in the Khumani area is naturally high in nitrate with concentrations ranging between 30mg/L and 81mg/L in the majority of the monitoring boreholes.

The sulphate concentrations in monitoring boreholes BK12 and BK17 are measured at 300 and 279mg/L respectively. These values exceed the LCT0 guideline value of 250mg/L.

Manganese and zinc form part of the four (4) main elements to be considered when assessing the impact of leachate from the surface facilities towards the aquifers. The measured concentrations from all the samples comply with the LCT0 guideline values. The manganese concentrations are mostly in the order of 0.001 to 0.006 mg/L with BK36 showing a concentration of 0.11mg/L. Zinc concentrations are consistently below detection limit (<0.005mg/L).

Natural barium concentrations in the area fall below detection limit (<0.001mg/L). The borehole at the paste disposal area shows an elevated barium concentration which can be attributable to the nearby Paste Disposal Facility. The barium concentration in this borehole is measured at 0.835 mg/L, which is one order of magnitude less than the source concentration at the paste disposal facility. This indicates the influence of dilution of the source fluids with uncontaminated natural groundwater.

Based on the available groundwater quality data and the leach test results, little impact is expected on the groundwater quality in the underlying and surrounding aquifers, except:

- All facilities have the potential to increase the aluminium and sodium concentrations due to seepage into the underlying aquifers. The resultant water will still comply with LCT0 guideline values;
- All facilities, except the BC11 facility, can be expected to have an impact on the barium concentrations in the groundwater. The barium concentrations are expected to increase up to 1.7 to 2.3mg/L over time as the plumes develop and ultimately the barium concentrations will exceed the LCT0 guidelines;
- At the King Waste Rock Dump potassium concentrations could increase. There are no LCT0 guideline values to compare it against;
- The King Paste Disposal Facility could pose some risk of increasing the manganese concentration in the underlying aquifers up to 1.7mg/L. This value exceeds the LCT0 guideline value;
- The Bruce BC11 and King Waste Rock Dump facilities could cause an increase in the zinc concentrations in the underlying aquifers. At the King Waste Rock Dump facility the leachate could exceed the LCT0 guideline value slightly (0.085mg/l vs 0.07mg/L). At the Bruce BC11 facility the impact could be more prominent, with concentrations increasing to 0.175mg/L (a factor of 2.5).

5.2.3.3 *SANS 10234 Classification*

The outcomes of the SANS 10234 study concluded that:

- The material is classified as non-hazardous in terms of physical hazards.
- The material is classified as follows for the health hazards:
  - Both mixtures are classified as Category 1 (the highest toxicity category) for acute health effects;
  - Both mixtures are classified as hazardous in terms of skin corrosion or irritation;
  - Both mixtures are classified as Category 1 hazardous to the eye;
  - Both the waste rock and slimes or paste material “mixtures” can be classified as hazardous in terms of respiratory and skin sensitization hazards; and
  - Although Category 1 carcinogens are present, none of the mixtures contain known carcinogens at concentrations ranging from 0.1% and above. Therefore, none of the mixtures are classified as being carcinogenic.

In terms of the health hazards and considering total concentrations, it has to be taken into account that the solid rock material on the Waste Rock Dumps will not pose a direct health hazard through oral ingestion, dermatological processes, or respiratory processes. Rather, it is the element concentrations from leachate emanating from the surface stockpiles following rainfall recharge onto Waste Rock Dumps, or wet deposition on slimes dams, that will be representative of the water quality that has the potential to eventually reach, and impact, the neighbouring groundwater or surface water users. Therefore, the leachable concentrations have to be considered when the SANS 10234 classification is made.

Comparing the leach concentrations obtained from leach testing of the rock material to the SANS 10234 generic guidelines of 1.0% or 0.1% concentrations summarised in waste classification it can be seen that none of the elements exceed the SANS 10234 guideline limits of 1% and 0.1% concentrations.

Based on the leach test concentrations the material can be classified as being non-hazardous for health impacts.

- Laboratory testing shows that the material is non-hazardous to the aquatic environment from both an acute and a chronic toxicity point of view.

5.2.3.4 *Legalities*

No Waste Management Licence is required for any of the facilities. An EMP Amendment for the extension to the Parson Low Grade Stockpile (previously the Discard Dump) with associated reworking, the King/ Mokaning Low Grade ROM Stockpile, and the Bruce Low Grade ROM Stockpile as well as the establishment of some additional stockpiles on King was approved by the DMR in 2016. This EMP was submitted on 14 December 2014, ensuring that these applications are considered as lawful and not subjected to the new Waste Legislation.

5.2.4 EMP Specific Risk Identification

The compilation of the various EMPs were undertaken using a quantitative risk assessment approach. None of the EMPs undertaken have identified any long term or residual risks for consideration in the Closure Plans.

It is recommended that the mine reassesses its risks once the current groundwater model has been completed due to a possible change in water sources – i.e. initiation of water abstraction.

As part of the 2016 EMP Compliance Assessment, no specific areas of concern were observed which could indicate that the EMP conditions are not suitable to manage risks on site.

6 REHABILIATION & CLOSURE DESIGN PRINCIPALS

6.1 Legal and Governance Framework

On 20 November 2015 in Government Gazette 39425, Notice Number GN R1147, the Minister of Environmental Affairs published the Regulations Pertaining to Financial Provision for Prospecting, Mining, Exploration and Production Operations (referred to as the Financial Provisioning Regulations, 2015) which came into effect on the date of publication in the Gazette. These Regulations replace the previous MPRDA regulations and introduce a far more onerous and detailed regulatory system in respect of financial provisions related to the extractives industry.

Under the new Regulations, an applicant or holder of a right or permit is required to make financial provision for rehabilitation and remediation on an annual basis (termed concurrent rehabilitation), for decommissioning and closure activities at the end of the operations, and for remediation and management of latent or residual environmental impacts which may become known in the future, including the pumping and treatment of polluted or extraneous water.

Determining the financial provision requires the preparation of three separate documents:

- An annual rehabilitation plan describing measures and costs of annual rehabilitation;
- A final rehabilitation, decommissioning and mine closure plan describing measures and costs for final rehabilitation and closure; and
- An environmental risk assessment report describing measures and costs for the remediation of latent or residual environmental impacts.

An applicant or holder of a permit or right must determine and make financial provision to guarantee the availability of sufficient funds for the rehabilitation and remediation of adverse environmental impacts to the satisfaction of the Minister responsible for Mineral Resources (the Minister).

The applicant or holder of a right or permit must ensure that, at any given time, the available funds equal the sum of the actual costs of implementing the plans and reports for a period of at least 10 years forthwith.

The applicant or holder must make financial provision by one or a combination of the following:

- Financial guarantee, which must comply with the format requirements set out in Appendix 1 to the regulations;
- Deposit into an account administered by the Minister; or
- A contribution to a trust fund established in terms of applicable legislation. Such contribution to a trust fund may only be in relation to financial provision made for the remediation of latent or residual environmental impacts, and not for annual rehabilitation or final rehabilitation, decommissioning and closure of the operation. This financial instrument may also not be used by an applicant/ holder for a mining permit in terms of the MPRDA. Furthermore, such contribution to a trust fund must be established by a deed of trust and must comply with the requirements set out in Appendix 2 of the regulations.

The general requirements of financial provision include, but are not limited to:

- The determination, review and assessment of the financial provision must be undertaken by a specialist;
- The financial provision liability may not be deferred against assets at the mine closure or the mine infrastructure salvage value;
- Where the making of, or adjusting of the financial provision had been undertaken in terms of a financial guarantee, such undertaking must be accompanied by a verification of registration of the financial institution;

- Where the financial provision was undertaken by a deposit into an account administered by the Minister, if any interest is earned on the deposit, such interest must be used to defray bank charges and thereafter form part of the financial provision and
- Where the financial provision applies to the remediation of latent or residual environmental impacts which may become known in the future, upon the issuance of the Closure Certificate in terms of the MPRDA, such financial provision must be ceded to the Minister.

The holder of a right or permit must ensure that a review is undertaken in respect of the requirements for the financial provision made for annual rehabilitation, final rehabilitation and remediation of latent or residual environmental impacts.

Thereafter the holder must ensure that the adequacy of the financial provision is assessed and any adjustments to the financial provision are made accordingly. The results of the assessment must be audited by an independent auditor and submitted to the Minister for approval. The submission of the audit report must be accompanied by a declaration signed by the independent auditor reconciling the financial provision submitted for approval.

6.2 Closure Vision, Objectives and Targets

The following section is obtained from the approved EMP:

6.2.1 Closure objectives

The objective for closure is to return the mining area to near pre-mining conditions, where residual impacts will be minimised and the area is left with no safety threat to humans or animals.

The EMP states clearly that the following section will be reassessed throughout the life of mine based on the economic, environmental and social changes in order to ensure that the closure objectives are in line with the ongoing mine and rehabilitation plan.

6.2.1.1 *Geology*

Management Objective

To rehabilitate the opencast pits after mine closure.

Management criteria

The underlying geology would have been removed throughout the life of mine; therefore, there are no feasible means to rehabilitate the geology. The mine will however rehabilitate the opencast pits to be safe.

6.2.1.2 *Topography*

Management Objective

To rehabilitate the topography of the mine after mine closure.

Management criteria

- All infrastructure will be removed, with the exception of the Paste Disposal Facility and Mine Residue Deposits. The area will be rehabilitated to be free draining. All stockpiles and dumps will be vegetated and would have been shaped throughout the life of mine to ensure that they will blend in with the surrounding topography.
- Final dumps will be sloped to 18° and will be vegetated to ensure stability.

6.2.1.3 *Soils*

Management Objective

To rehabilitate the soils after mine closure.

Management criteria

- All structures and infrastructure will be demolished (apart from the Paste Disposal Facility and Mine Residue Deposits), and all imported materials removed.
- Waste rock from the dumps will be returned to the opencast pits on a continual basis as mining progresses.
- The paste disposal facility will be shaped.
- Stockpiled topsoil will be spread over the top and sides of the paste disposal facility and over other associated rehabilitated areas.
- Compaction will be managed to protect the soil structure (i.e. ripping to a depth of 500 mm). Fertiliser will be applied at the required rate as determined by soil laboratory analysis.
- The rehabilitated areas will be ameliorated and seeded with the recommended seed mix and the planted area will be watered thoroughly and regularly, where self-succession is not achieved. Growth will be monitored on a quarterly basis.

6.2.1.4 *Land Capability*

Management Objective

To rehabilitate the land capability to near pre mining conditions.

Management criteria

- The greater part of the site will have the capability of at least grazing land, where grazing land currently exists. The rehabilitated paste disposal facility and the opencast voids will, however, not be used as grazing land due to the moderately steep side slopes where erosion could occur if grazed.
- Due to the economic implications associated with double handling – backfilling, the mine will aim to backfill as much material as possible during the operational phase (172 million tons). However, all the opencast pits will not be backfilled and voids will remain. According to the 2005 mine schedule, 11 of the 19 opencast pits will be backfilled. The opencast pits will be rehabilitated in such a way to be safe upon closure. This will be undertaken by either:
  - Fencing or berming the area off;
  - Establishing indigenous thorny vegetation;
  - Establishing clearly visible safety and warning signs; and
  - This area will revert to near pre-mining land at closure.

6.2.1.5 *Land Use*

Management Objective

To rehabilitate the land use to near pre-mining conditions.

Management criteria

Refer to Section 6.2.1.4 above.

6.2.1.6 *Vegetation*

Management Objective

To rehabilitate the vegetation to near pre-mining conditions and to ensure that the newly planted or self established vegetation initiates succession and creates a sustainable cover.

Management criteria

- During decommissioning, topsoil will be replaced and the affected areas will be rehabilitated using indigenous vegetation common to the area. The rehabilitation of the soils will play a significant role in the rehabilitation of vegetation. *This condition was replaced to state that the mine will use a topsoil and gravel mixture to rehabilitate the area in the 2008 EMP).*
- After closure, rehabilitate and landscape the dumps and stockpiles, to be free draining and to blend into the surrounding environment.
- Clear all infrastructure and revegetate the areas to near pre-mining conditions.
- Naturally occurring (indigenous) species will be used in the rehabilitation process.
- To increase diversity in rehabilitated areas, mulch seeded areas with seed bearing hay cut in natural veld areas or incorporate locally harvested seed in the initial seed mix as specified *(this condition was replaced in the 2008 EMP to state that the area will be allowed to self-vegetate)*;
- Monitoring will be undertaken to ensure that the rehabilitated areas are self-sustaining and that weed/ alien plants are under control. Monitoring will only cease once this has been confirmed.

6.2.1.7 *Fauna*

Management Objective

To re-create a habitat that is suitable for animals to forage or live within. The objective will further be to make the areas safe for animals to live in.

Management criteria

Refer to Sections 6.2.1.2 to 6.2.1.6.

6.2.1.8 *Surface Water*

Management Objective

To control surface water contamination within the site on a long-term basis.

Management criteria

- The surface water quality will be monitored, where available, in order to determine/ verify the effect of the mining operations on surface water quality.
- The results will be presented to the DWS on an annual basis.
- The clean water diversions on King and King/ Mokaning will be engineered and constructed in such a way to be stable and to remain after closure.
- All clean and dirty water systems will be removed where infrastructure has been removed and the area has been successfully rehabilitated.
- Clean water systems upstream from the opencast voids will remain to ensure that there is no impact on the run off of the catchment.
- The area will be rehabilitated to be free draining by implementing storm water drainage systems, which will follow the natural drainage direction.

6.2.1.9 *Groundwater*

Management Objective

To continue the groundwater quality and groundwater level monitoring in order to establish long-term groundwater levels and quality trends, as well as to update, verify and recalibrate the existing mine groundwater model.

Management criteria

- Groundwater modelling shows that any contamination from the paste disposal facility will undergo significant dilution and will tend to move towards the mined-out pits where the drawdown of the groundwater level has been the most significant during mining. The current understanding of the groundwater regime suggests that no decant will occur from any of the pits due to the following reasons:
  - High overall aquifer transmissivity around the pit areas, leading to very flat groundwater gradients not only in the spoils in the mined-out pits but also in the surrounding aquifers; and
  - Relatively low natural groundwater and surface gradients so that the water table will not easily intersect the surface topography.
  - Should monitoring results however indicate an expected decant, the volumes will be quantified through calibration of the groundwater model. Management/ containment measures that will be implemented will aim at creating a situation where the impact from decant will not adversely affect surrounding users.
  - The mined-out pits could be utilised as strategic sources of community water supply after the mining operations have ceased.
  - Management measures will be implemented to prevent excessive run-off formation through the discard and surrounding areas into the opencast pits that could contribute to contamination in the form of suspended matter,
  - Measures will be implemented to prevent or minimise seepage to groundwater through dirty areas which may contribute to groundwater contamination, and
  - Opencast pits will be backfilled as per the given schedule so that groundwater recharge is maximised to facilitate faster recovery of the dewatered aquifers and provide a sustainable source of water supply for future generations, as the water quality should still be suitable for human consumption after mining.
- Rehabilitation of the paste disposal facility will commence once the dirty water management areas are rehabilitated and the need for retention of contaminated water no longer exists. This will contribute to the limitation of infiltration of affected water.
- The berms to divert clean water around dirty areas will be removed once the dirty water management areas are rehabilitated and re-vegetated.
- Final rehabilitation of the opencast pits will be undertaken, including reshaping to encourage clean surface water runoff. Rehabilitated pit surfaces could be left to encourage recharge as these areas could be used as sustainable sources of good quality water after mine closure. Rehabilitation of the opencast mining area will be undertaken so as to represent the pre-mining surface drainage and vegetation as closely as possible.
- The migration of any groundwater contamination plume will be verified through monitoring and modelling during the decommissioning phase and suitable mitigation measures implemented before the closure is applied for, should it prove to be necessary.
- Through the monitoring and calibration of the groundwater model during the operational phase - specifically regarding the recharge rate and water level draw down - the closure strategy will be re-assessed. The long-term groundwater management measures decided upon will be implemented prior to final rehabilitation of the land use area.

6.2.1.10 *Air Quality*

Management Objective

To revegetate all exposed surfaces to prevent dust generation.

Management criteria

Refer to Section 6.2.1.6.

6.2.1.11 *Noise*

Management Objective

To rehabilitate the opencast pits after mine closure.

Management criteria

No significant impacts are envisaged upon decommissioning.

6.2.1.12 *Sites of Archaeological and Cultural Interest*

Management Objective

To ensure that all sites of archaeological and cultural interest are safe and where applicable that access to grave sites remain.

Management criteria

All access roads to gravesites will remain for families to access those. The mine will ensure that the area is safe.

6.2.1.13 *Sensitive Landscapes*

Management Objective

To rehabilitate the opencast pits after mine closure.

Management criteria

Areas considered as sensitive landscapes are:

- Vegetation (Refer to Section 6.2.3.6);
- Pans (Refer to Section 6.2.3.8); and
- Archaeology (Refer to Section 6.2.3.12).

Remedial measures pertinent to these are discussed in the relevant section indicated in brackets.

6.2.1.14 *Visual*

Management Objective

To rehabilitate the area to ensure that the visual impacts are limited or eliminated.

Management criteria

- Final shaping and dumping of the paste disposal facility will be implemented such that the sides of the facility are articulated in a fashion that create areas of light and shadow interplay.
- Harsh, steep engineered slopes will be avoided if at all possible as these could impose an additional impact on the landscape by contrasting with existing topographic forms of the nearby hills. The paste disposal facility will remain after decommissioning and it is important that a long-term view of its integration with the surrounding landscape be taken.
- Topsoiling, grass seeding and planting (shrubs and trees) of the final dump will be undertaken, where self-succession does not establish.
- A combination of indigenous trees and shrubs will be planted along the southern side of the N14's view towards the paste disposal facility as a 'buffer' and to partially screen views to the faciligy.

- Rehabilitate the outside slopes of the stockpiles with appropriate grasses (long term sustainability without management) as soon as is practical.
- Harsh, steep engineered slopes will be avoided as these could impose an additional impact on the landscape by contrasting with existing natural topographic forms and because it is difficult to sustain vegetation on steep slopes in the long term.
- Final shaping will be implemented such that the final profile of the rehabilitated overburden dumps is formed to emulate natural contours of the area, i.e. a flat topped profile is not desirable and a profile that emulates the nearby hills is proposed. The dumps will remain after decommissioning and it is imperative that a long-term view of its integration with the surrounding landscape be taken.
- The mine will research whether there are alternative uses for the mine infrastructure. If not possible the components will be properly removed.

6.2.1.15 *Socio Economic Activities*

Management Objective

To ensure that employees are equipped with various skills.

Management criteria

The Mine will have a lifespan of more than 30 years. These include the establishment of Social Plan Forums as required by the Minerals and Petroleum Development Bill, to address Social Plan issues in a proactive manner.

- If and when retrenchments are implemented at Mine, Assmang will ensure that the Future Forum (consultation group) is advised and that the relevant legislation will be responsibly applied. Portable internal skills training programmes will be available to assist employees in procuring alternative employment.
- Assmang is committed to the following mechanisms to save jobs and to avoid job losses wherever possible:
    - Redeployment;
    - Early Retirement;
    - Voluntary Retrenchment;
    - Cessation of full time employee recruitment;
    - Change in shift cycles;
    - Sunday work;
    - Wage moderation; and
    - Employee subcontracting.
- Where job losses will be inevitable, indirect job security can only be ensured by investing in the development of portable skills and life skills for employees involved, and ensuring as far as possible the readiness of employees to undertake self-employment or to apply entrepreneurial skills.
- All commitments as per the Social and Labour Plan will be implemented.
- Assmang is aligned with various structures such as unit standard generation, assessor and moderator training, levy reclaiming, as well as skills facilitator arrangements and appointments. In keeping with this practice, Khumani Mine will be registered for the Skills Development Levy.
- The Assmang policy requires its mines to provide and facilitate courses for non-mining related training for employees as well as for community members from surrounding communities, as is the case with the Beeshoek Mine. The mine will continue in this practice by providing similar courses as provided at Beeshoek. Some of these courses are listed below:
    - A wide range of computer training courses;
    - A range of life skills training courses based on the internationally recognised Plato system that reflects the tremendous range of life skill training courses available;
    - Needlework training;
    - Upcoming Farmer training in collaboration with Department of Agriculture, in grazing methods, stock selection, etc;
    - Entrepreneurial training for employees and local small business people etc;

- Business Wise Training for employees;
- Adult Based Education Training (ABET) training;
- Leadership training for local authorities;
- Mindset training for local leadership; and
- Diversity training.

6.2.1.16 *Crack Survey*

Management Objective

To rehabilitate the area to ensure that the structural impacts are limited or eliminated.

Management criteria

No impacts will take place after decommissioning.

6.2.1.17 *Storage of Explosives*

Management objective

To ensure that no safety issues remain after closure.

Management Measure

All infrastructure housing explosives will be demolished and removed from the site. The relevant suppliers will remove any excess explosives.

6.2.1.18 *Storage of Diesel, Oil and Chemicals*

Management objective

To ensure that no contamination results from the stored diesel, oil and chemicals on site.

Management Measure

- All infrastructure housing diesel, oil and chemicals will be demolished and removed from the site. The relevant suppliers will remove any excess material.

6.2.1.19 *Paste Disposal Facility and other Dumps*

Management objective

The minimum objectives for the closure and rehabilitation of a dump must be to prevent air and water pollution in accordance with the requirements of the relevant regulations and with good international practice. The intended end use should take into consideration the prior land use and the location with respect to current and potential future socio-economic development.

The objectives of the closure and rehabilitation measures will be:

- To establish a self-sustaining solution with a minimum of on-going maintenance;
- To minimise off-site impacts;
- To create safe and stable landforms;
- To return the site to beneficial land use; and
- To obtain a closure certificate.

Management Measure

Paste Disposal Facility

The stability of the proposed final outer slope of the paste disposal facility has been assessed using circular potential failure surfaces (Bishop simplified method) in the limit equilibrium program SLIDE. This programme allows for the analysis of numerous potential failure surfaces, and the identification of the critical surface with the lowest factor of safety against failure.

The average overall side slope angle will be approximately 1:3 (vertical to horizontal). Intermediate slopes will be constructed to 1:2.5 (v:h) with bench widths varying between 6m and 10m.

For the purpose of stability analysis, a phreatic level has been assumed. No excess water pressures have been assumed for the paste or the underlying soil.

The results of the stability analysis indicate that the factor of safety at final height will be approximately 2.2 (overall).

It is therefore concluded that the factor of safety for overall stability will be satisfactory under normal operating conditions. However, it assumes that the management of the paste disposal facility will be adequate and the need to monitor phreatic conditions at the outer embankments is critical.

Other Dumps

The detailed closure plan will be developed during the life of the mine. The purpose in preparing a conceptual closure plan is to ensure that the dump design and construction procedures are compatible with the achievement of final closure and rehabilitation to accepted environmental standards and at a reasonable cost.

6.2.1.20 *Infrastructure*

Management Objective

To ensure that the area is safe and free from any explosives.

Management criteria

- All buildings in which explosives were stored will be demolished. The relevant supplier will remove all the explosives.
- Recyclable or reusable components of buildings and structures will be salvaged.
- Foundations will be removed to a depth of 1m below surface.
- Building rubble will be used as landfill or buried such that there is 1m of soil material over the buried rubble.
- Other surface infrastructure constructed by the mine (i.e. roads, railways and power lines) will be removed if it proves to inhibit land use at decommissioning. The soils and land capability will be rehabilitated to near pre-mining conditions.

6.2.1.21 *Waste*

Management Objective

To remove all waste from the mining area, in order for the area to be clean and safe.

Management criteria

All waste on the mining area will be collected and will be removed to a permitted disposal site.

Waste materials will be made available for sale as scrap or donation, where applicable.

6.2.1.22 *Mine dirty water dams*

Upon mine cessation, it is not likely that any dirty water will occur on the mine. Structures (i.e. containment dams etc.) previously implemented on the mining area will be removed.

6.2.1.23 *Maintenance*

Management Objective

To rehabilitate the area to ensure that the impacts are limited or eliminated.

Management criteria

All rehabilitated areas will be monitored and all post-closure impacts will be managed. Monitoring and management will only cease when the area is self-sustaining.

6.2.2 Infrastructure removal and rehabilitation

6.2.2.1 *Buildings*

All infrastructure will be removed and rehabilitated, should no alternative use be found for the structures.

Foundations will be removed to a depth of 1m below surface.

An alternative use for the brick structures will first be sought i.e. they can either be sold/ donated to the post-mining landowner on sale of the land. If an alternative use cannot be found, the buildings will be demolished.

All material recovered from the demolition of buildings/ structures will either be transported to a permitted disposal site, sold as scrap or made available to the local community as building materials (provided they are in a satisfactory condition following demolition).

6.2.2.2 *Linear infrastructure*

Linear infrastructure constructed by the mine (i.e. roads, railways and power liens) will be removed if it proves to inhibit land use at decommissioning. The soils and land capability will be rehabilitated to near pre-mining conditions.

The opencast pit access roads and haul roads will be rehabilitated by ripping these structures to a depth of 500mm.

All fences erected around the mine will be dismantled and either disposed of at a permitted disposal site or sold as scrap (provided these structures will no longer be required by the post-mining land owner). Fences erected to cordon-off dangerous excavations will remain in place and will be maintained as and when required.

The overland conveyors and rapid load-out facility will be disassembled, and the components removed from the site. The material can either be sold (as a unit) or the components sold as scrap.

6.2.2.3 *Dams*

Upon mine cessation, it is not likely that any dirty water will occur on the mine. Structures (i.e. containment dams etc.) previously implemented on the mining area will be removed.

6.2.2.4 *Monitoring*

Annual surface surveys (audits) will be undertaken over mined-out areas to establish the degree of subsidence and the success of the re-establishment of vegetation on rehabilitated areas.

6.2.3 Mine Residue Disposal

6.2.3.1 *Paste Disposal*

Throughout the life of a dump it is necessary to consider closure and post-closure care of the facility. It is not possible at this stage to formulate a rigorous closure plan, however, a general outline of the likely closure requirements has been defined. This should be considered to be preliminary and will depend on the requirements of the final design, actual tonnages placed, dump construction and legislative requirements at the time of closure. Therefore, the detailed closure plan will be developed during the life of the mine. The purpose of preparing a conceptual closure plan is to ensure that the dump design and construction procedures are compatible with the achievement of final closure and rehabilitation to accepted environmental standards and at a reasonable cost.

The Paste Disposal Facility will be engineered and constructed in such a way to remain stable upon closure. The facility will further be constructed to blend in with the surrounding environment.

Topsoil will be stripped prior to construction. During stripping operations, topsoil will be separated from trees and brush and stockpiled for future rehabilitation measures. Topsoil stockpiles will have limited height, will be graded to specified slope angles and will not be compacted during storage. These stockpiles will be contoured so as to blend with the natural environment and stabilised with vegetation.

The required final surface geometry will be achieved by the control of deposition during the life of the facility, particularly during the final years, and by subsequent limited earthworks. It is intended that the upper surface of the paste disposal facility will be shaped to retain surface run-off and thus to prevent the erosion of the outer slopes and the discharge of polluted solids to the natural streams. The outer slopes will be reshaped to ensure structural stability and to limit erosion damage. It will be advantageous to commence rehabilitation during the operating life of the facility and, for this reason it is possible that deposition may be controlled during the last few years to allow the closure of sections of the paste disposal facility prior to final decommissioning.

The residue is expected to have a low permeability with the result that seepage from rainwater infiltration will be very limited. This low permeability, coupled with the high rates of evaporation at the mine, indicates that the installation of a topsoil cover will probably be necessary in order to provide a growth medium for vegetation and to minimise dust generation. It is therefore proposed that the facility be covered with a 150mm thick layer of topsoil. This will be required over the top surface only as it is intended that the downstream slope of the impoundment wall will be progressively vegetated during operation in order to reduce erosion and visual intrusion.

The operational water decant system will be abandoned after the draining of the supernatant pool, and the surface structures will be removed. A system of diversion canals to prevent storm water runoff from entering the residue disposal area will be included in the final closure plan.

Surface water falling on the top surface of the paste disposal facility will be held on the facility. The top surface will be divided into separate compartments, or the water will be allowed to drain in a controlled fashion to a pool in the position of the old supernatant pool. The decision will depend upon information gathered during the operating period. Consideration will also be given to the need for an emergency spillway for decanting excess water from the top of the residue dam.

The run-off from the side slopes of the impoundment wall will be controlled by the creation of engineered benches. Catchment paddocks at the toe of the impoundment wall will be the final control mechanism.

Vegetation on the surface and outer slopes of the paste disposal facility will reduce erosion and dust generation. It will be necessary to obtain the maximum benefit from the residual moisture in the residue and from the seasonal rainfall. Thus, efforts should be made to commence the establishment of vegetation during the operating life of the facility. It will certainly be possible to begin to establish vegetation on the outer slopes. It is anticipated that the mine will carry out experiments from the time of commissioning of the project. Information available from re-vegetation exercises in similar conditions will be gathered during the planning of the tests.

6.2.3.2 *Overburden and low grade ROM Dumps*

Although continuous backfilling will be undertaken throughout the life of mine, overburden and low grade waste ROM stockpiles will remain as dumps.

At current levels it is envisaged that 1.3% (1.6 million tons) of the Bruce Overburden and Low-Grade ROM Stockpile will be reworked. The remainder of the stockpile will remain as a rehabilitated overburden dump upon decommissioning.

At current levels it is envisaged that 4.9% (19.4 million tons) of the King/ Mokaning Overburden and Low-Grade ROM Stockpile will be reworked. The remainder of the stockpile will remain as a rehabilitated overburden dump upon decommissioning.

To ensure that the remaining volumes of the dumps are stable the following will be undertaken:

- The required final surface geometry will be achieved by the control of construction activities during the life of each dump. Generally, intermediate side slope angles of 1:1.5 (v:h) with 15m wide benches at 10m vertical intervals are proposed. This will result in an average overall slope angle of 1:3 (v:h). It is intended that the upper surface of the dumps will be shaped to retain surface run-off and thus to prevent the erosion of the outer slopes and the discharge of polluted solids to surrounding natural watercourses. The outer slopes will be reshaped to ensure structural stability and to limit erosion damage.
- It will be advantageous to commence rehabilitation during the operating life of the dumps.
- The dumps be will covered with topsoil. This will be required over the top surface only, as it is intended that the outer slopes of the dumps will be progressively vegetated during construction in order to reduce erosion and visual intrusion.
- A system of diversion canals to prevent storm water run-off from entering the dump areas will be included in the final closure plans should a potential of contamination exist. Surface water falling on the top surface of the dumps will be held on the dumps. The top surfaces will be divided into separate compartments. The run-off from the side slopes of the dumps will be controlled by the creation of engineered benches. Catchment paddocks and dams along the perimeter of the dumps will be the final control mechanism.
- The slopes will be vegetated. *(This condition was replaced in the 2008 EMP to state that the area will be allowed to self-vegetate)*.

6.2.3.3 *Discard dump*

Approximately 5% of the discard dump could be reworked - if it has a saleable it could be economically viable.

To ensure that the remaining volumes of the dumps are stable the following will be undertaken:

- The required final surface geometry will be achieved by the control of construction activities during the life of each dump. Generally, intermediate side slope angles of 1:1.5 (v:h) with 15m wide benches at 10m vertical intervals are proposed. This will result in an average overall slope angle of 1:3 (v:h). It is intended that the upper surface of the dumps will be shaped to retain surface run-off and thus to prevent the erosion of the outer slopes and the discharge of polluted solids to the surrounding natural watercourses. The outer slopes will be reshaped to ensure structural stability and to limit erosion damage.
- It will be advantageous to commence rehabilitation during the operating life of the dumps.
- The dumps will be covered with topsoil. This will be required over the top surface only as it is intended that the outer slopes of the dumps will be progressively vegetated during construction in order to reduce erosion and visual intrusion.
- A system of diversion canals to prevent storm water run-off from entering the dump areas will be included in the final closure plans should the potential of contamination exist. Surface water falling on the top surface of the dumps will be held on the dumps. The top surfaces will be divided into separate compartments. The run-off from the side slopes of the dumps will be controlled by the creation of

engineered benches. Catchment paddocks and dams along the perimeter of the dumps will be the final control mechanism if required.

- The slopes will be vegetated. *(This condition was replaced in the 2008 EMP to state that the area will be allowed to self-vegetate)*.

6.2.3.4 *ROM and Export Stockpiles*

The floor of the export stockpiles will be graded to remove all rock material in the base. This material will be passed through the plant.

The roadways will be ripped to a depth of 500mm, as will the floor of stockpiles to alleviate compaction.

The soils will be ameliorated and seeded for rehabilitation. *(This condition was replaced in the 2008 EMP to state that the area will be allowed to self-vegetate)*.

6.2.3.5 *Opencast mining areas*

The opencast pits will be backfilled (with 172 million tons of material) parallel to the mining operations. However due to the cost and double handling of material, certain voids will remain after closure. At closure, any opencast pits that remain, will be made safe by a combination of fencing and planting of thorny indigenous vegetation around the pit perimeter to restrict access to the pit.

6.2.4 Final rehabilitation

It was indicated that it is the purpose of the surface rehabilitation to re-establish surface drainage to the pre-mining conditions as far as is practical. The rehabilitation will:

- Restore normal infiltration rates to areas where recharge was reduced due to surface compaction such as at the access roads;
- The mine will consult with DMR and DWS with regards to the best rehabilitation option of opencast pits to leave the pits as strategic water source for future generations by maximising recharge; and
- The paste disposal facility area and associated mine residue deposits will be rehabilitated and the disturbed area sloped to be free draining and vegetated with the purpose of maximising clean runoff.

6.3 Closure & Post Closure Timeframes

It is estimated that the final rehabilitation, decommissioning and closure actions, based on the current mine plan, would take approximately two (2) years to implement from date of commencement.

Post closure monitoring, maintenance and aftercare is scheduled for a period of three (3) years after completion of said rehabilitation, decommissioning and closure actions.

6.4 Ongoing Research

The NEMA Regulations promulgated to regulate the Financial Provision has resulted in mining operations having to reconsider the implementation of ongoing rehabilitation into the operational plans of the mine. Ongoing research into rehabilitation at the Khumani Mine will involve the following:

- Undertaking of an Impact Prediction Model as part of the Groundwater model to determine any changes in the 2006 EMP assessments in terms of the impact of Mine Residue Deposits on the groundwater resources, if any; and

- Strategic plans on how the mine can more efficiently mine opencast resources to optimise the potential for ongoing backfilling as approved in the EMP.

6.5 Assumption and Limitations

It's worth noting that information availability and its accuracy is excellent at Khumani. The list below contains assumptions made in the absence of detailed quantified information, however the implication of these on the closure actions is only expected in terms of costing and not on the ability to address aspects sufficiently during the rehabilitation and closure phase. The costing accuracy presently is in excess of 90% and the assumptions listed below do not have significant variation to impair on the 90% level of accuracy:

- Hydrocarbon soil contaminated volumes and treatment/ disposal solution;
- Disposal method and location for demolished bituminous tar; and
- Social and Labour Plan commitments at closure.

6.6 Proposed Final Post Mining Land Use

The greater part of the site will have the capability of at least grazing land, including the areas where grazing land currently exists. The rehabilitated paste disposal facility and the opencast voids will, however, not be used as grazing land due to the moderately steep side slopes where erosion could occur if grazed and due to safety factors.

Please refer to the figure overleaf for the Post Mining Land Use Map.

7 REHABILITATION AND CLOSURE FRAMEWORK

7.1 Technical Specifications

Table 4 depicts specific technical (engineering) solutions related to each infrastructure component at Khumani Mine. The technical solutions are derived from a set of evaluation criteria (Table 5) selected specifically for the Khumani project site.

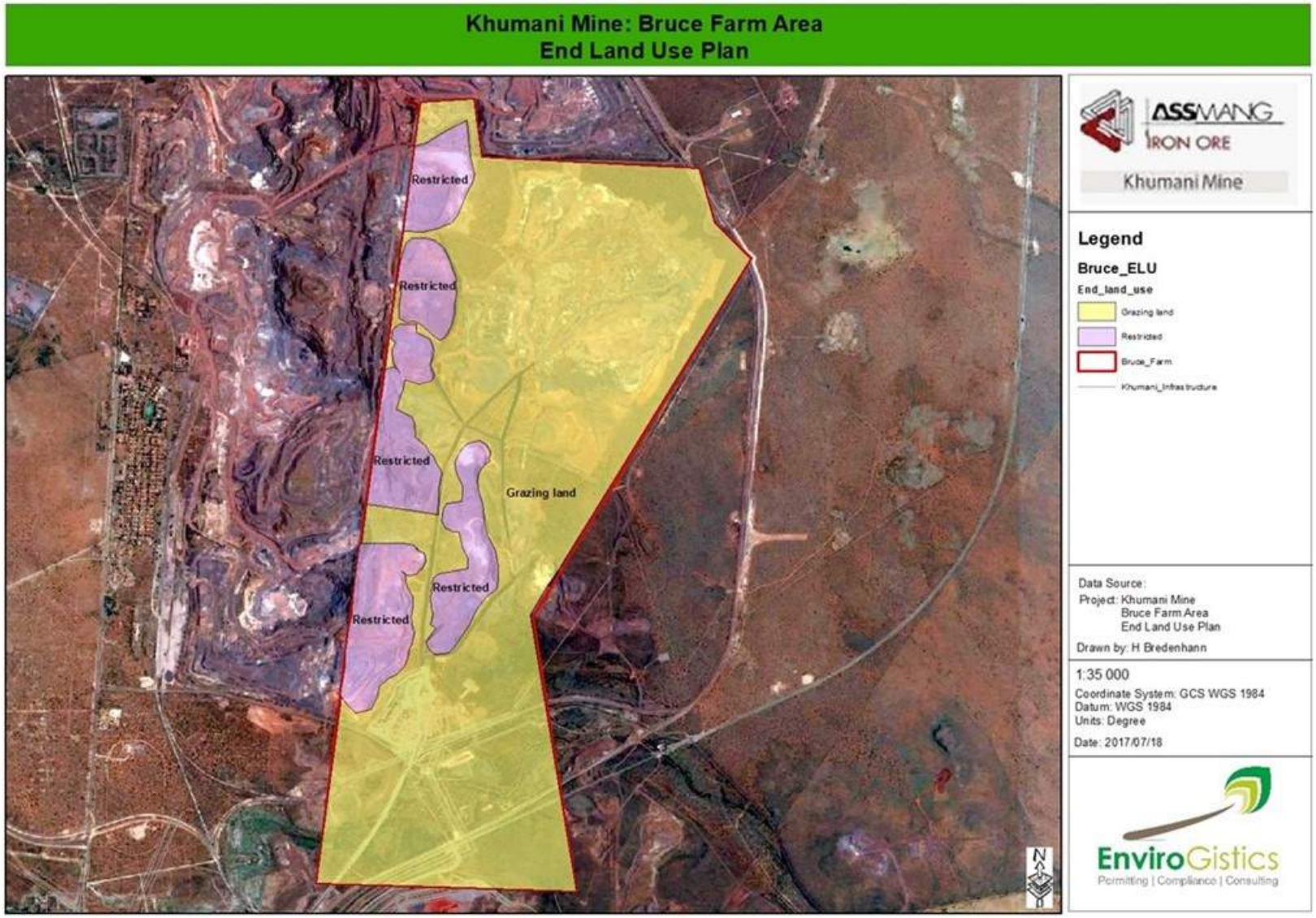


Figure 9: Post Mining Land-Use Map - Bruce

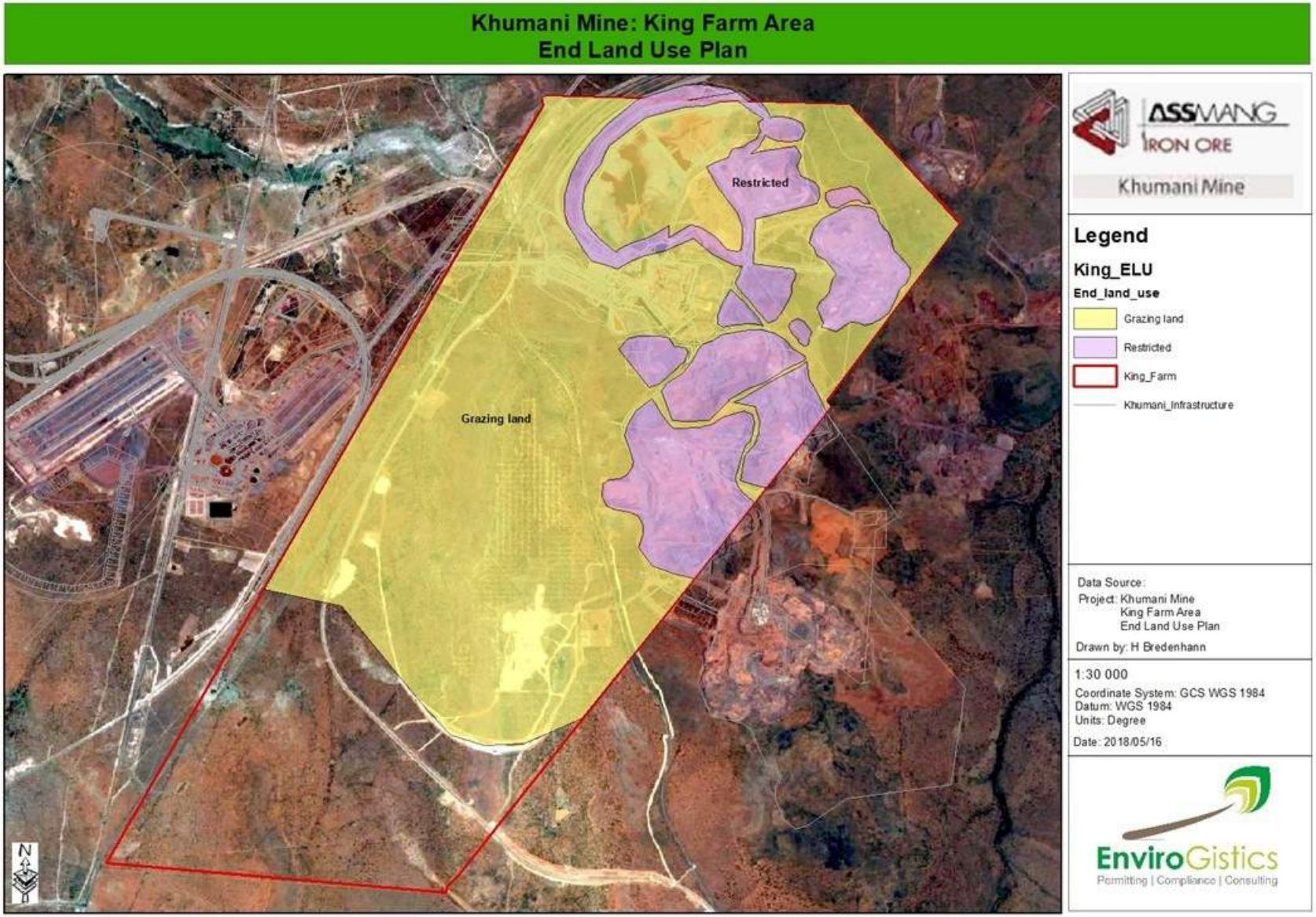


Figure 10: Post Mining Land-Use Map - King

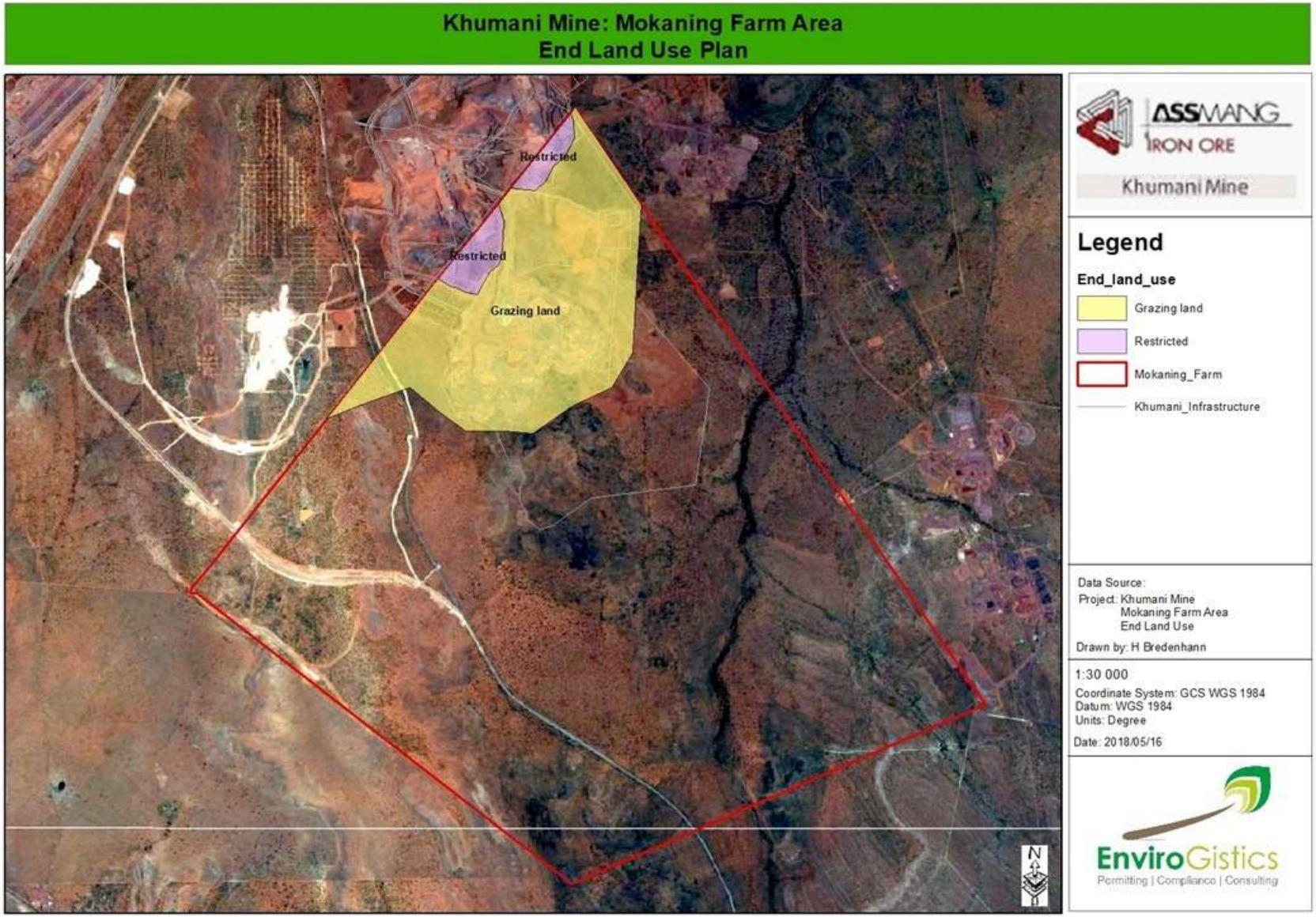


Figure 11: Post Mining Land-Use Map - Mokaning

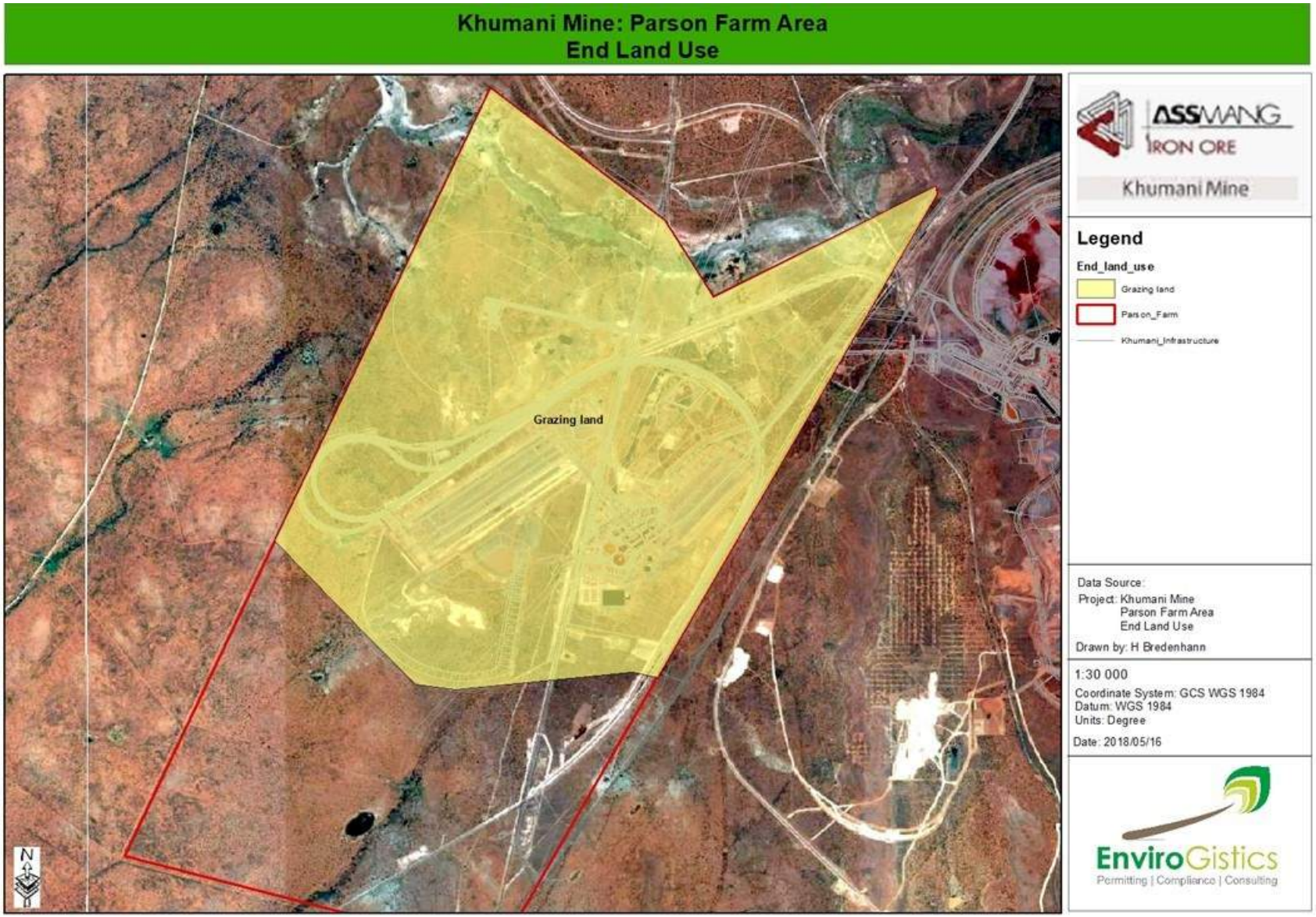


Figure 12: Post Mining Land-Use Map - Parson

Table 4: Rehabilitation & Decommissioning Objectives and Specifications

KHUMANI IRON ORE MINE - REHABILITATION & CLOSURE FRAMEWORK 2018		
Components		Objectives & Specifications (per EMP and engineering principals)
1	**Topography**	Shape to blend in with surrounding topography
2	**Roads**	
	Access Roads (gravel)	Rip, shape, topsoil, self-revegetate
	Haul Roads (gravel & treated for dust allaying)	Rip, shape, topsoil, self-revegetate
	Tarred Roads (bituminous tar)	Strip top layer to 500mm below surface. Dispose bituminous contents safely. Shape, rip and cover with topsoil for revegetation.
3	**Salvageable items**	Remove steel, recoverable building materials, equipment and fittings to salvage stockpile(s)
4	**Steel Structures**	Dismantle to salvage stockpile
5	**Brick Structures**	Dismantle to salvage stockpile
6	**Foundations, cables and pipes**	Remove to 1m below surface. Deeper than 1m remains in place.
7	**Concrete structures**	Dismantle to spoil
8	**Railway lines**	Dismantle steel & sleepers to stockpile, ballast to spoil
9	**Power lines**	Dismantle to salvage stockpile
10	**Pipe lines**	Dismantle to salvage stockpile
11	**Fencing**	Remove redundant material to salvage stockpile
12	**Materials balance (i.e. topsoil on site)**	Four (4) topsoil stockpiles available on site
13	**Hazardous waste disposal (transport and disposal site location)**	Collect & dispose at Holfontein
14	**Slope angles on dumps**	18° (as per 2006 EMP). Include berms/ terraces for runoff velocity reduction where necessary. Refer Chapter 6 page 115 of EMP (2006). Also cover with 150mm topsoil.
15	**Opencast pits**	Backfill if viable, alternatively enviro berm with thorn bush vegetation cover. Upstream diversion to remain in place for open voids.
16	**Tailings Storage Facility**	Slope angles of 1:3 (v:h), benches 6-10m. Topsoil cover (150mm) and revegetate.
17	**Backfill vs enviro berm**	Per mine plan
18	**Product stockpiles**	Sale first, alternatively use material as backfill
19	**Earthworks (load & haul, doze, shape, topsoil spread, survey etc.)**	Specified by Civil Engineer during evaluation
20	**Science/ Risk (EMP, WUL etc.)**	
	Surface water	Water diversion to remain in place

KHUMANI IRON ORE MINE - REHABILITATION & CLOSURE FRAMEWORK 2018		
Components		Objectives & Specifications (per EMP and engineering principals)
	Waste disposal (inert, domestic & hazardous)	Subject to waste classification
	Dust control during rehab & closure phase	Allow for dust suppression
	Groundwater	Recharge into backfilled voids post rehabilitation should be encouraged
	Vegetative screening	Plant trees and shrubs along southern side of N14's view towards Paste Disposal Facility
21	**Mine Plan correlation**	Yes
22	**Regulation (laws, regulations & guidelines)**	Refer to applicable section in report
23	**Post-closure risk (groundwater contamination etc.)**	None at present
24	**Post closure land use and land capability**	Grazing land, apart from paste disposal facility and opencast voids
25	**Social & Labour Plan**	Yes

Table 5: Evaluation Criteria

	Aspect	Description
1	**Site Inspection**	Yes (May 2018)
2	**Yellow Plant**	Industry/ contractor rates (Northern Cape Province)
3	**Labour**	Industry/ contractor rates (Northern Cape Province)
4	**Rates**	Time and cost basis, converted into unit rates
5	**Bill of Quantities**	Khumani SHEQ Department and Independent verification, updated to reflect changes since last estimate.
6	**P&Gs**	6% when total value above R100M, 12% when total value less than R100M
6	**Health & Safety**	2% of rehabilitation contract value
7	**Cost assumptions**	Refer applicable section in report
8	**Level of accuracy**	90%

8 REHABILITATION & CLOSURE ACTION PLAN

The rehabilitation and closure action plan contains specific implementable actions in respect of decommissioning, rehabilitation, remediation and closure at Khumani Mine. The action plan is specifically designed to follow the mine plan (as approved at day of evaluation). Refer to Table 6 for the rehabilitation and closure action plan. The action plan is interpreted visually in order to display planned rehabilitation progression throughout operations (refer to Figure 5).

The action plan associated with the rehabilitation plan is presented is the following table:

Table 6 Rehab and Closure Action Plan

Component	Location/Farm	Name	Action	Material Source / Location
Salvage Yard(s)				
	Bruce	Bruce Salvage Yard (BSY)	Receive salvage material for sale/ collection	Steel, equipment, fittings, recoverable building materials from Bruce Mine
	King	King Salvage Yard (KSY)	Receive salvage material for sale/ collection	Steel, equipment, fittings, recoverable building materials from King Mine
	Parson	Parson Salvage Yard (PSY)	Receive salvage material for sale/ collection	Steel, equipment, fittings, recoverable building materials from Parson Farm
	Mokaning	KSY	Receive salvage material for sale/ collection	Steel, equipment, fittings, recoverable building materials from Mokaning Mine
Pre-demolition works				
	Bruce	All buildings and structures	Strip/ recover all salvageable equipment, fittings & materials to salvage yard	BSY
	King	All buildings and structures	Strip/ recover all salvageable equipment, fittings & materials to salvage yard	KSY
	Parson	All buildings and structures	Strip/ recover all salvageable equipment, fittings & materials to salvage yard	PSY
Pits & Voids				
	Bruce	BA05, BB01, BC01, BC02 & BC03	Construct Enviro Berm (refer to specification in Table 5)	Overburden material on Bruce Farm
	King	KMO1 & KM02	Construct Enviro Berm (refer to specification in Table 5)	Overburden material on King Farm
Dumps and Spoils				
	Bruce	B01 & Pan Handle	Containment berm, shape slopes to 18°, cover with topsoil (150mm)	Topsoil dump on Bruce Farm
	King	K01	Containment berm, shape slopes to 18°, cover with topsoil (150mm)	Topsoil dump on King Farm
	Mokaning	M01	Containment berm, shape slopes to 18°, cover with topsoil (150mm)	Topsoil dump on Mokaning Farm
Paste Disposal Facility				
	King	Compartments 1, 2 & 3	Rip and shape remaining disturbed surfaces	
			Cut to fill from waste rock dump	Dump K01
			Topsoil spreading over area (150mm)	Topsoil dumps on King & Mokaning Farms
Railway Lines				
	King	All belonging to Khumani (incl. Old TFR)	Remove rails and sleepers to salvage yard. Ballast to spoil.	
	Parson	All belonging to Khumani	Remove rails and sleepers to salvage yard. Ballast to spoil.	
Roads				
	Bruce	Unsurfaced haul roads	Rip and shape, cover with topsoil	Topsoil dump on Bruce Farm

Component	Location/Farm	Name	Action	Material Source / Location
		Surfaced (tarred) roads	Demolish bituminous layers to disposal. Rip, shape and topsoil footprints	
	King	Unsurfaced haul roads	Rip and shape, cover with topsoil	Topsoil dump on King Farm
		Surfaced (tarred) roads	Demolish bituminous layers to disposal. Rip, shape and topsoil footprints	
	Parson	Unsurfaced haul roads	Rip and shape, cover with topsoil	Topsoil dump on Parson Farm
		Surfaced (tarred) roads	Demolish bituminous layers to disposal. Rip, shape & topsoil footprints	
Steel Structures				
	Bruce	Heavy internal steel structures	Dismantle to salvage yard for sale/ collection	BSY
		Light to medium height steel structures	Dismantle to salvage yard for sale/ collection	BSY
	King	Heavy internal steel structures	Dismantle to salvage yard for sale/ collection	KSY
		Light to medium height steel structures	Dismantle to salvage yard for sale/ collection	KSY
	Parson	Heavy internal steel structures	Dismantle to salvage yard for sale/ collection	PSY
		Light to medium height steel structures	Dismantle to salvage yard for sale/ collection	PSY
Brick Buildings				
	Bruce	All pre-stripped brick structures	Demolish, load and spoil on site	Suitable pit/ void or discard dump
	King	All pre-stripped brick structures	Demolish, load and spoil on site	Suitable pit/ void or discard dump
	Parson	All pre-stripped brick structures	Demolish, load and spoil on site	Suitable pit/ void or discard dump
Concrete Structures				
	Bruce	All reinforced concrete structures	Demolish all reinforced concrete foundations/ bases/ slabs/ floors to spoil	Suitable pit/ void or discard dump
	King	All reinforced concrete structures	Demolish all reinforced concrete foundations/ bases/ slabs/ floors to spoil	Suitable pit/ void or discard dump
	Parson	All reinforced concrete structures	Demolish all reinforced concrete foundations/ bases/ slabs/ floors to spoil	Suitable pit/ void or discard dump
Pipelines, power lines & communication lines				
	Bruce	All above ground and where known to 0.5m below ground	Dismantle and remove to salvage yard	BSY
	King	All above ground and where known to 0.5m below ground	Dismantle and remove to salvage yard	KSY
	Parson	All above ground and where known to 0.5m below ground	Dismantle and remove to salvage yard	PSY
Fences				
	Bruce	All non-remaining fences	Dismantle and remove to salvage yard	BSY
	King	All non-remaining fences	Dismantle and remove to salvage yard	KSY

Component	Location/Farm	Name	Action	Material Source / Location
	Parson	All non-remaining fences	Dismantle and remove to salvage yard	PSY
	Mokaning	All non-remaining fences	Dismantle and remove to salvage yard	KSY
Boreholes				
	King	All non-long term monitoring boreholes	Cat casing to 0.5m below surface and cap borehole with concrete cap	
Waste Management				
	Bruce	All soils with elevated Total Petroleum Hydrocarbons (TPH) levels	Cut hazardous/ contaminated soils to disposal facility (Holfontein)	Holfontein H:H Disposal Site
	King	All soils with elevated TPH levels	Cut hazardous/ contaminated soils to disposal facility (Holfontein)	Holfontein H:H Disposal Site
	Parson	All soils with elevated TPH levels	Cut hazardous/ contaminated soils to disposal facility (Holfontein)	Holfontein H:H Disposal Site
	Mokaning	All soils with elevated TPH levels	Cut hazardous/ contaminated soils to disposal facility (Holfontein)	Holfontein H:H Disposal Site
General Surface Rehabilitation				
	Bruce	All disturbed surface areas not covered under other components	Rip and shape	
	King	All disturbed surface areas not covered under other components	Rip and shape	
	Parson	All disturbed surface areas not covered under other components	Rip and shape	
	Mokaning	All disturbed surface areas not covered under other components	Rip & shape	
Maintenance and Aftercare				
	Bruce	As specified in Table 9	As prescribed in the specifications contained in Table 9	
	King	As specified in Table 9	As prescribed in the specifications contained in Table 9	
	Parson	As specified in Table 9	As prescribed in the specifications contained in Table 9	
	Mokaning	As specified in Table 9	As prescribed in the specifications contained in Table 9	

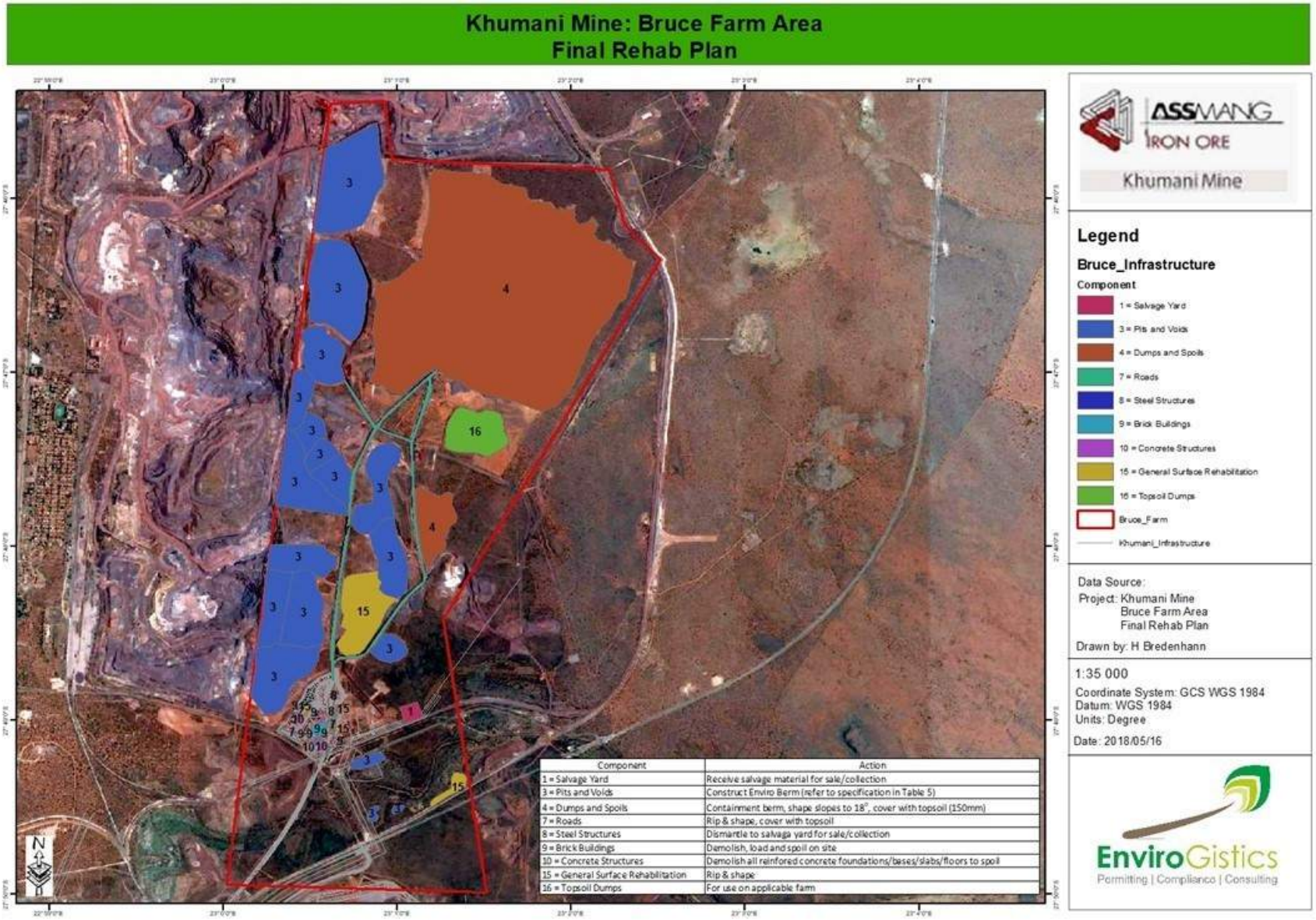


Figure 13: Final Rehabilitation Action Plan - Bruce

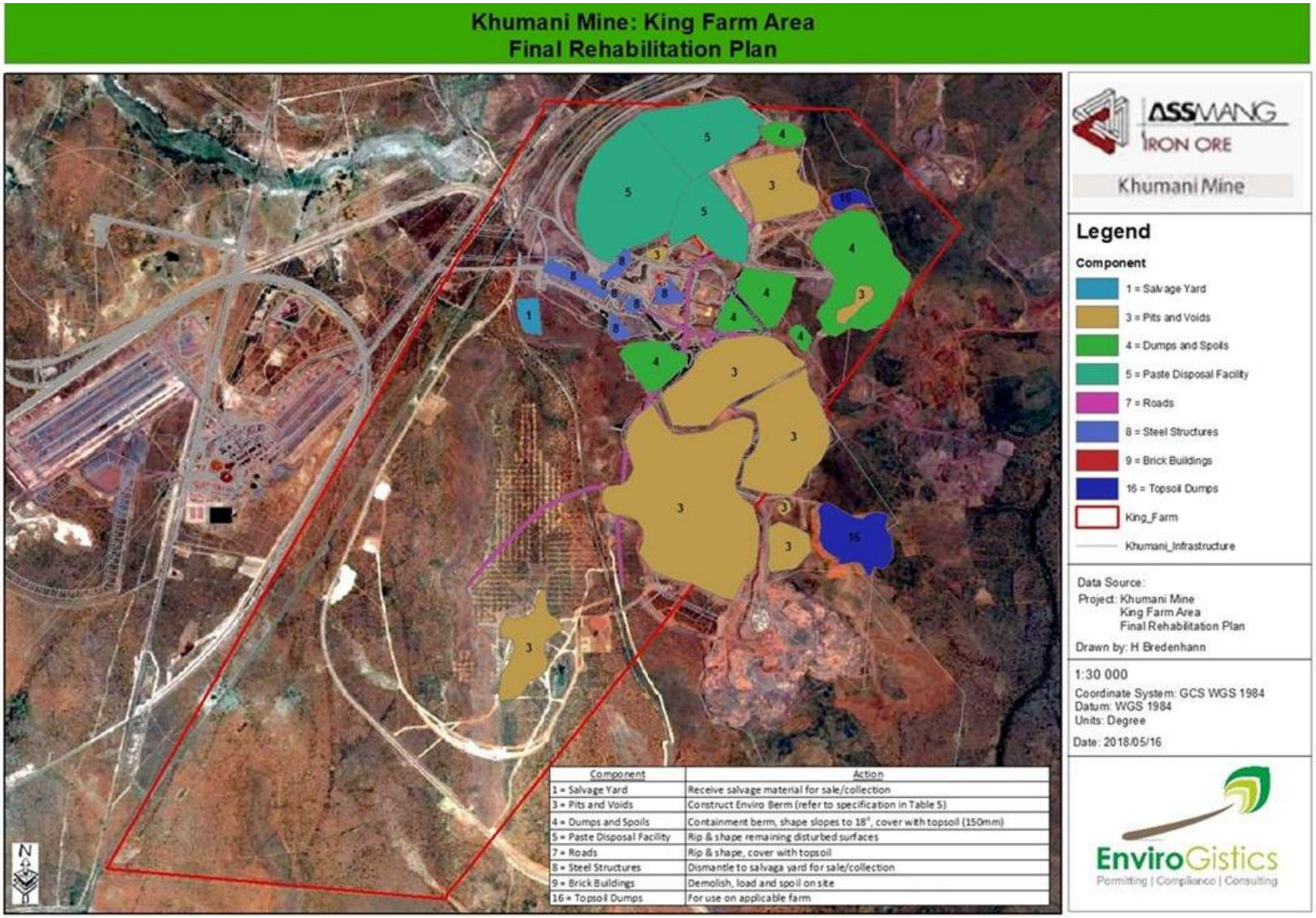


Figure 14: Final Rehabilitation Action Plan - King

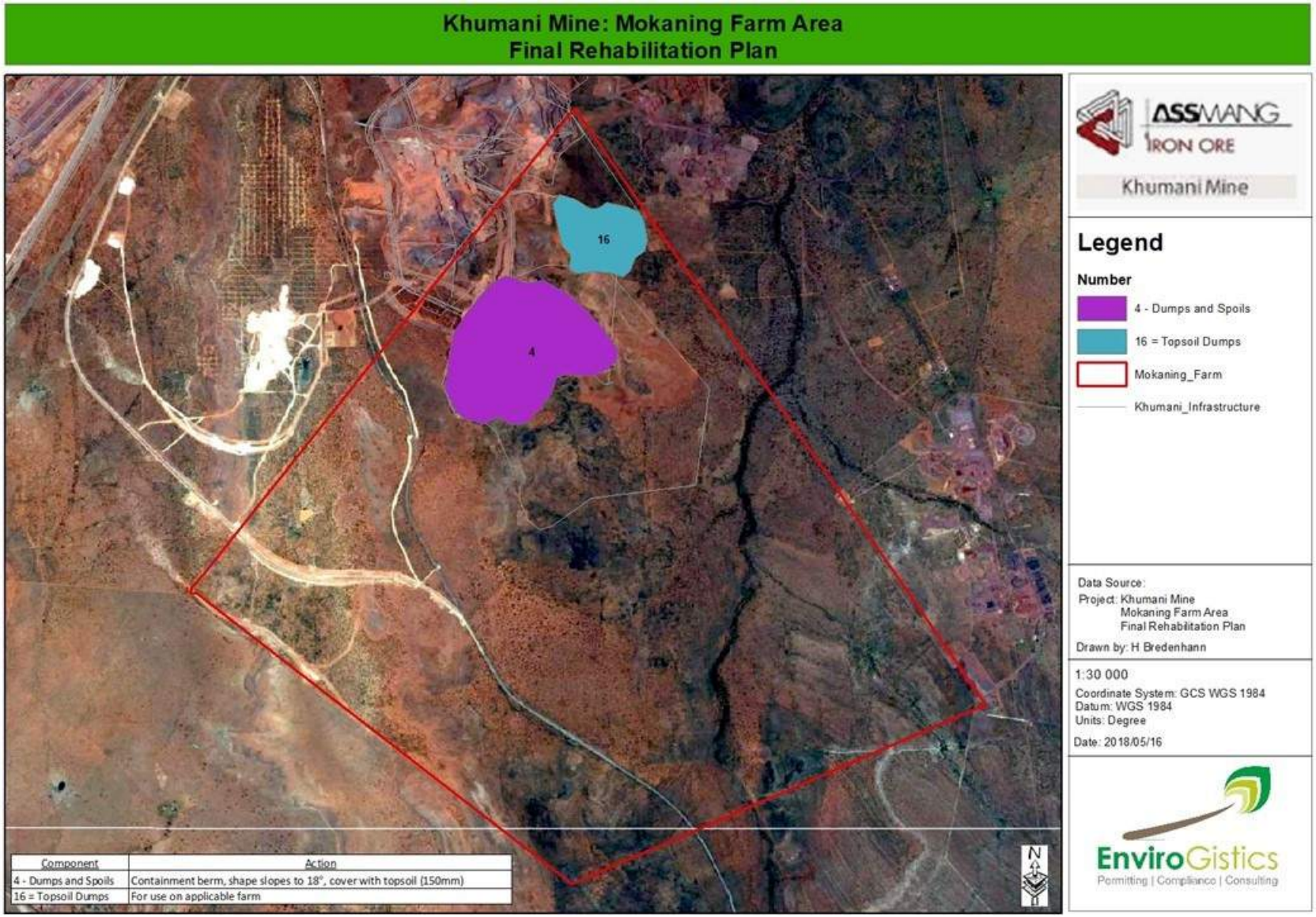


Figure 15: Final Rehabilitation Action Plan - Mokaning

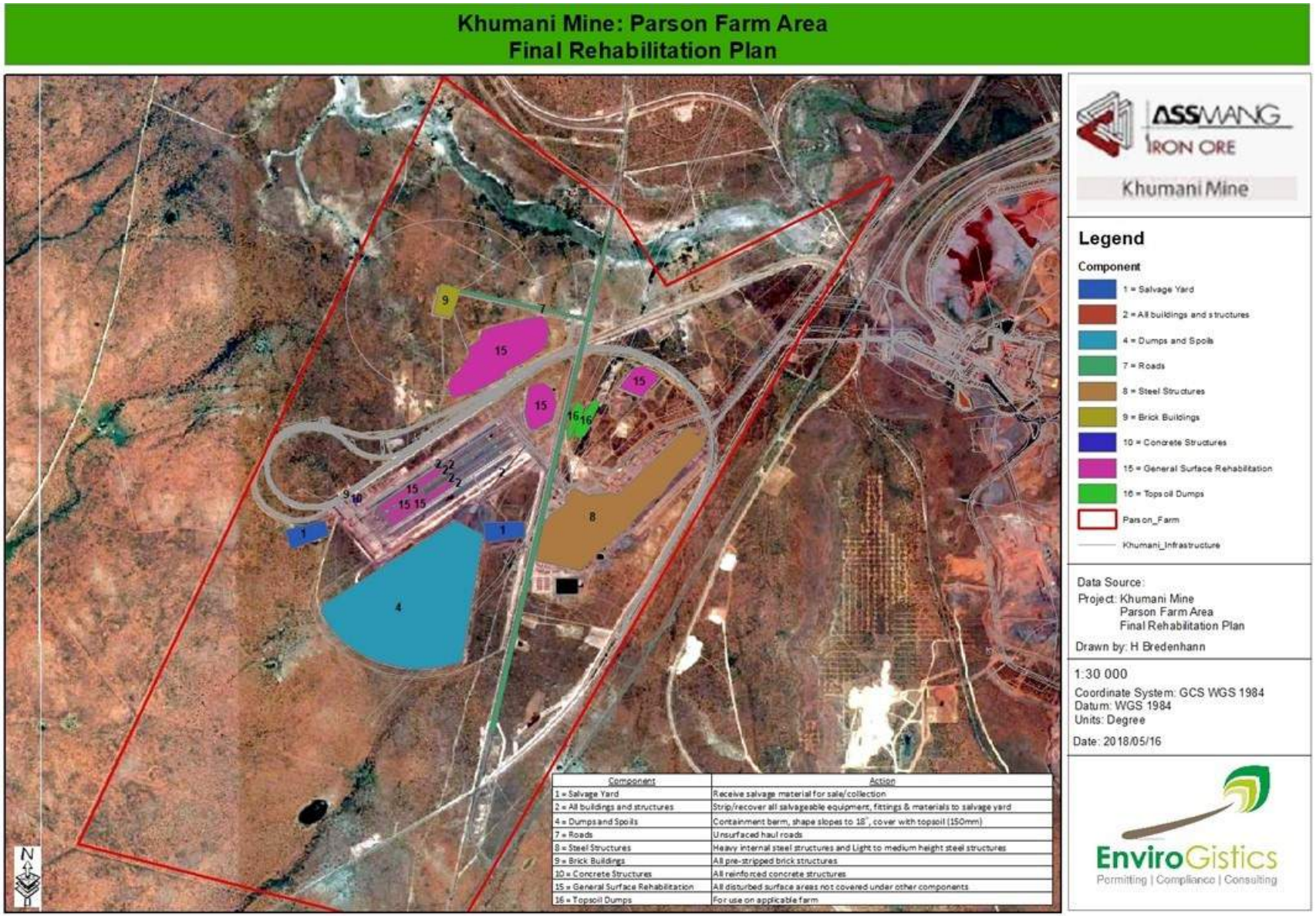


Figure 16: Final Rehabilitation Action Plan - Parson

9 ORGANISATIONAL CAPACITY

9.1 Organisational Philosophy

Assmang Limited is committed to conducting its business in a manner that takes into account the social, economic and natural environment in which it operates, as well as integrating environmental management into all its activities. As such all operations are ISO 9002 accredited.

Assmang Limited's environmental policy is to:

- Promote the education, training and motivation of employees to raise their environmental awareness;
- Conduct all activities in an environmentally responsible manner to ensure prevention of pollution;
- Establish environmental management systems at all operations, including environmental auditing and monitoring of these systems;
- Ensure compliance with regulatory standards, environmental legislation, company policies and philosophy; and
- Develop and maintain positive relationships with employees and all affected parties, government departments and the public.

Assmang Limited's business policies in general are to:

- Embed sustainable development as an integral part of the business;
- Follow an occupational health and safety approach that views any safety/risk incident in a serious light and any accident as unacceptable;
- Prevent and manage HIV/AIDS as a key strategic health imperative;
- Effectively and beneficially rehabilitate all land once mined;
- Ensure legal compliance, including an effective communication with government and the public, with third party verification of performance reports;
- Engage in ethical and transparent behaviour and practices based on principles of honesty, equity, freedom and opportunity for everyone;
- Willing and constructive engagement with employees on matters of mutual concern;
- Work smartly, responsibly and efficiently to effectively integrate economic, environmental and social needs as a basis for continuously improving performance and ensuring trust;
- Invest one % of pre-tax profit to seed and sustain development initiatives;
- Insure the best interest of the public and affected parties are taken into consideration; and
- Ensure preferential procurement in terms of specific policies and guidelines.

9.2 Organisational Structure

The diagram overleaf presents the current organisational structure:

Please provide updated diagram

9.3 Training

Assmang has an integrated awareness plan (encompassing safety, health, environmental, risk and quality issues) in place, as part of its Safety Health Environmental Risk and Quality (SHERQ) Management System.

The objectives of the SHERQ awareness plan are to:

- Explain to the Assmang employees how the SHERQ policy and objectives are compiled;
- Communicate the SHERQ policy and objectives to all employees with the intent that employees are made aware of their individual SHERQ obligations and that they understand the SHERQ policy and objectives; and
- Explain to the employees what the roles and responsibilities of management, appointed SHERQ Management Representatives and all employees are towards the SHERQ Management System.

The plan consists of the following:

- Procedure for SHERQ Risk Assessment and Management;
- Procedure for SHERQ Accident, Non-conformance risk investigations and corrective-and preventive action implementation;
- Procedure for emergency preparedness and response;
- Procedure for communication and consultation;
- Procedure for waste management;
- Procedure for monitoring and measuring;
- Procedure for control of document; and
- Procedure for record control.

The following sections briefly describe the procedures for integrated awareness on the Mine.

a) Induction

Environmental issues related to the operation are addressed in induction sessions. All environmental impacts and their remedial measures are discussed, explained and communicated to employees. The induction sessions are modified according to the level of employee attending the induction session, so that all employees gain a suitable understanding of environmental issues and pollution.

b) SHERQ Training

Assmang has developed a procedure for training, which involves attending internal and external training sessions. The procedure is a follows:

The senior training officer consults with the relevant department managers; at which time the training needs for individual tasks are determined. Tasks are divided into various modules (Refer to Table 5.12), with each module accompanied by a training schedule. An employee is provided with a training manual for the specific module in which he / she is employed.

c) General Training and Skills Development

Human Resources Development Programmes include appropriate training and skills development programmes as required by the workforce in support of operation specific business plans (both mining and non-mining related). Training is offered in portable skills, being competencies that will enable employees to find jobs elsewhere within the mining industry, or to become self-employed.

Assmang has developed a monthly internal training schedule, which is called Indaba. The Indaba serves to inform the employees of relevant topics associated with their working environment. The supervisor or

department management organizes the Indaba topic discussion. Basic environmental and pollution control skills are included in this training.

d) Incident Reporting Structure

Environmental incident reporting is a vital part of communication for the Environmental Department at the current Beeshoek Mine, and will form a further vital role at Khumani. Employees are required to report any and all environmentally related problems, incidents and pollution, so that the appropriate remedial action can be implemented timeously.

e) Internal communication strategy

Communication is a management responsibility. All line supervisors are responsible for effective communication within their own sections. Environmental communication can be divided into four main categories, which include: internal communication, external communication, communication and consultation on SHERQ related issues and communication of SHERQ related issues by means of reports to stakeholders.

Assmang Management has established and is maintaining procedures for the internal communication between the various levels and functions of the organisation, and receiving, documenting and responding to relevant communication from external interested & affected parties. Employees may communicate issues and concerns either in writing or verbally. The communication procedure involves the following media and channels:

The Assmang communication strategy is based on a behavioural approach. Due to the environmental awareness generated by induction, on the job training etc, employees are able to identify environmental problems, issues, concerns and pollution timeously.

Internal communication is further enhanced on the mine by the distribution of the Sibilo newspaper, which is distributed quarterly to inform employees of the current SHERQ status and any new developments regarding Assmang.

Weekly notices of any new developments and relevant information are also distributed to employees.

The following records are kept to ensure that all communication is effectively stored:

- E-mail: E-mail communication received must be stored, with replies, in an appropriate folder on a server. E-mail messages, relevant to the environmental management system, should be kept for a minimum of two years before deletion.
- Mail: Correspondence received by mail must be filed, along with the response (where relevant), within the Environmental Departments filing system for a minimum period of 2 years. Paper correspondence will be archived in this department.
- Telephone: A register of telephonic environmental queries should be kept by the Environmental Department detailing caller, date, query, action taken and response. Furthermore, the person answering the call will be responsible for logging their particulars against the call, as well as ensuring that all communication that leads to an aspect or an impact, is entered on the EMS database.
- Storage of Correspondence: the Khumani Environmental Manager must retain all original correspondence for a minimum period of two years.
- Environmental Reports: Copies of relevant specialist study reports and Environmental Impact Assessments will be available on request from the Environmental Manager.
- Queries from Interested and Affected Parties: Response to queries about environmental impacts and aspects will be addressed by the Environmental Department, and approved by the Environmental Manager.
- Queries and requests from the media: Requests for articles from the media on environmental issues at Khumani will be co-ordinated by the HR Manager, with input from the Environmental Department, as approved by the General Manager, in line with Khumani Communication Strategy.

f) External communication strategy

Environmental Steering Committees: Environmental Steering committees work to increase awareness in the community regarding environmental constraints and opportunities. At corporate level, this includes providing support for NGOs involved with specific environmental awareness programmes. Assmang has initiated an environmental focus meeting, which includes representatives from Sishen Mine.

A Future Forum was established. The future forum has various unions involved; people from the Municipalities are invited to attend these meetings, at which time they are presented with the opportunity to raise their issues and concerns.

10 GAPS AND WAY FORWARD

It is recommended that the following actions be implemented in order to address the gaps appropriately:

- In Section 2.3 of this report the details on potential future planned projects are listed. These projects have not been approved in terms of Environmental Legislation and therefore have not been incorporated into the financial provision studies or rehabilitation strategies. These must again be assessed during the next assessment to determine the status of implementation.
- Contaminated land evaluation to determine extent of hydrocarbon contaminated soils and most appropriate and cost effective method of treatment and/or disposal;
- Declassification of bituminous tar residue as hazardous waste and subsequent suitable on-site treatment and disposal solutions; and
- Hydrogeological Impact Prediction Model required to determine current and future impacts of Mine Residue Deposits in line with the NEM:WA.

11 RELINQUISHMENT CRITERIA

Refer to Section 7 for a detailed list of relinquishment criteria with auditable indicators.

12 CLOSURE COST ESTIMATION

12.1 Closure Cost Methodology

The overarching approach adopted during this evaluation broadly involved conducting a site investigation during which visual observations were made and interviews were held with key personnel, as well as a comprehensive review and scrutiny of applicable scientific and technical reports, including related information. From this, a costing strategy and framework (refer to section 8) was developed to ultimately compile a detailed independent rehabilitation and closure solution for the purposes of the action plan and the cost estimate. The outcome of this approach is detailed in the subsequent sections.

The development of site specific costs for final rehabilitation, decommissioning and closure involved the following sequence of evaluations:

- A site assessment to determine changes from the previous assessment (over a period of 1.5 days in this case);
- Compilation of a dedicated photographic record;
- Collection of recently developed and scaled aerial photography (obtained from the survey department);

- Adaptation of the base Bill of Quantities (BoQ) (November 2016) by a civil engineer, utilising observations made during the site inspection and individual measurements made from the scaled aerial photographs per rehabilitation and closure component – refer to Annexure B.
- Identification of the respective closure components – refer to Table 9.
- Identification of the prescribed post mining land use requirement for each closure component – refer to Section 7.
- Compilation of a list of activities/ actions, referred to as items, to be implemented to achieve the desired post mining land use objective for each closure component – refer to Table 7.
- Rehabilitation and closure costs were then determined by undertaking the following:
    - Selection of the most appropriate equipment/ plant type, capacity, time requirement, operator efficiency, fuel requirement, distance of travel, angle of route and height of infrastructure applicable to each item to derive actual costs for each item individually – refer to Annexure C for industry equipment and labour costs.
    - Then, for the purposes of auditable calculations, unit rates are derived mathematically using total item cost divided by the respective item quantity.
    - Important to note is that decommissioning and rehabilitation activities are almost entirely engineering projects in themselves, therefore the approach to price the project and then to relay the cost estimate information into an auditable format for the purposes of external review and verification.
- The cost estimate is derived in the same way as when the rights holder requests a quotation from an external contractor.

Refer to Table 7 overleaf for a detailed list of items and actions required to reach a successful rehabilitation and closure solution.

Table 7: Itemised actions and unit rates

ITEMISED RATES FOR DECOMISSIONING AND REHABILITATION (2018) - KHUMANI IRON ORE MINE				
Ref No.	**Cost Item**	**Rate**	**Unit**	**Action Description**
1	**Steel Infrastructure**			
1,1	Dismantle steel structure high with heavy internal steel to salvage yard	R 361,90	m^2	Includes all structural steel, pipes, gantries, containers requiring 100T crane (i.e. large vehicle workshops)
1,2	Dismantle medium height steel buildings/ structures to salvage yard	R 305,03	m^2	Includes all structural steel, pipes, gantries, containers and conveyors requiring 25T crane
2	**Concrete Infrastructure**			
2,1	Demolish all reinforced concrete foundations/ bases/ slabs/ floors	R 200,34	m^2	Includes cut to fill on site.
4	**Brick Structures**			
4,1	Demolish brick structure, load and spoil (on site)	R 101,33	m^2	Includes pre-stripping, demolishment and spoil to site. Foundations to 1m below surface.
6	**Waste Removal/ Disposal**			
6,3	Cut hazardous material to hazardous disposal site	R 1 460,53	m^3	Hydrocarbon contaminated materials, asbestos, medical waste.
7	**Piping, cables & lines**			
7,1	Dismantle and remove piping on surface to stockpile	R 51,70	m	Remove piping on surface, cut to stockpile. Assume 40 days for completion.
7,2	Dismantle and remove overhead power lines to stockpile	R 3,83	m	Remove overhead powerlines, cut to stockpile. Assume 20 days for completion.
7,3	Dismantle and remove communication lines on surface to stockpile	R 3,83	m	Remove communication lines on surface, cut to stockpile. Assume 20 days for completion.
8	**Roads**			
8,2	Demolish unsurfaced haul roads, rip and shape	R 11,37	m^2	Extended width haul roads (avg. width 18-20m). Rip to 500mm depth.
8,3	Demolish surfaced (tarred) roads, rip and shape	R 11,37	m^2	Remove tar surface to stockpile on-site. 10km free haul limit.
8,4	Topsoil spreading onto haul road footprints	R 19,65	m^3	Load, haul, tip and spread (to a depth of 150mm) onto haul road footprints. Free-haul distance = 7km.
9	**Fences**			
9,1	Removal of fences (post closure), cut to stockpile	R 36,19	m	Remove fences to salvage stockpile
10	**Railway Lines**			
10,1	Rip and shape ballast footprint (Old TFR)	R 3,62	m	Rip & shape ballast footprint. Rip to 100mm depth.
10,2	Remove rails, sleepers and ballast	R 139,69	m	8m lengths cut to salvage yard. Cut sleepers to spoil. Cut ballast to spoil.
10,3	Topsoil spreading onto rail footprint	R 19,65	m^3	Load, haul, tip and spread (to a depth of 150mm) onto rail footprints. Free-haul distance = 7km.
11	**Water Management**			
11,1	Cut casing and cap borehole	R 3 102,00	Item	Cut casing to 300mm below surface and install concrete cap and plinth
14	**Earth Works**			

ITEMISED RATES FOR DECOMISSIONING AND REHABILITATION (2018) - KHUMANI IRON ORE MINE				
Ref No.	**Cost Item**	**Rate**	**Unit**	**Action Description**
14,1	Containment berms (dumps)	R 26,55	m	50m x 50m paddocks on dump surface.
14,2	Shaping waste dump slopes	R 18,20	m^3	Shape slopes to 1:3 (v:h).
14,3	Topsoil spreading over dump surface	R 26,02	m^3	Load, haul, tip & spread (150mm) onto area. Specific Gravity (SG) = 2.2. Free-haul distance = 5km.
14,4	Enviro Berm	R 318,47	m	3.5m effective height, 2.6m width, with cut-off trench in front (1.5m x 1.5m).
14,5	Rip and shape remaining disturbed surfaces	R 3,62	m^2	Rip and shape generally flat surfaces which have undergone footprint disturbance. Assume 50% of area requirement. Rip to 100mm depth.
14,6	Topsoil spreading over area	R 19,65	m^3	Load, haul, tip & spread (150mm) onto area. Free-haul distance = 7km.
14,7	Cut to fill from waste rock dump	R 26,88	m^3	Fill 0.5m layer on top of paste disposal facility - shape for drainage
19	**Environmental Management**			
19,1	Surface Water Quality Monitoring	R 258 086,40	Annum	Based on current expenditure incurred by Khumani for this service.
19,2	Groundwater Quality Monitoring	R 62 040,00	Annum	Based on current expenditure incurred by Khumani for this service.
19,3	Air Quality Monitoring (PM2.5 & PM10)	R 43 428,00	Annum	Based on current expenditure incurred by Khumani for this service.
19,4	Vegetation establishment & Distribution Monitoring	R 72 380,00	Annum	Monthly site inspection (year 1), quarterly site inspections (years 2 & 3)
19,5	Land Stability Monitoring	R 113 740,00	Annum	Monthly site inspection (year 1), quarterly site inspections (years 2 & 3)
19,6	Dust suppression	R 310 200,00	Annum	Water tanker for dust dispersion reduction and management
19,9	Social and Labour Plan Commitments	R 517 000,00	Item	
19,10	Post rehabilitation maintenance	R 4 136 000,00	Annum	Contractor yard, site office, 1x ADT, 1x Excavator, 1x Dozer

12.2 Rehabilitation & Closure Cost

A summary of the rehabilitation and closure costs, specifically with regards to annual planned rehabilitation and Life of Mine (LOM) rehabilitation is depicted in Table 8 below.

Table 8: Khumani Rehabilitation and Closure Costs

Assmang - Khumani Iron Ore Mine	**Assessment date: May 2018**
Rehabilitation & Closure Cost Summary	Evaluator: Globesight (Pty) Ltd
Plan Description	**Amount (excl. VAT)**
Annual Rehabilitation Plan - 1 June 2018 to 31 May 2019	R 1 177 539,88
Final Rehabilitation Plan (10 years forthwith)	R 316 430 384,55
Latent Liability (Post Closure)	None at present
Financial Provision Requirement	R 317 607 924,43

Rehabilitation activities were undertaken during the 2017/2018 financial year. The following list specifies the extent of rehabilitation and decommissioning (and new additions where applicable) undertaken since the previous assessment:

- Backfilling of the following pits:
  - BC01 (only commenced with recently);
  - BC02 (completed backfilling, require shaping and topsoil cover); and
  - BC03 (completed backfilling, require shaping and topsoil cover).
- Additions, or increases, to the BoQ are related only to the growth in size of the following waste rock dump due to normal operational usage:
  - King Dump K01
- Contractors Plant Hire Association (CPHA) tariffs (used to determine the unit rates), as published, has not reflected any escalations from the 2017 CPHA tariffs, therefore the unit rates (read actual costs of equipment and labour at present date) are the same as those calculated during November 2016 (base date calculations). However, a nominal rate increase of 3.4% (Consumer Price Index as per STATS SA) has been applied uniformly. The rate increase has been incorporated to include an increase in diesel fuel cost as well as in anticipation of the scheduled equipment pricing increase which is due in 2019 (source: CPHA).

Refer to the table overleaf for the final Rehabilitation and Closure Cost.

Table 9: Final Rehabilitation Plan

Assmang - Khumani Iron Ore Mine	**Evaluation Date: May 2018**		**2018**			**Decommissioning / Restoration**
Final (LOM) Rehabilitation Plan	**Evaluator: Globesight (Pty) Ltd**					
Rate No.	**Item Description**	**Unit**	**Quantity**	**Rate**	**Item Amount**	
	Steel Structures					
	Bruce					
1,1	Dismantle steel structure high with heavy internal steel to salvage yard	m^2	4141,00	R 361,90	R 1 498 627,90	Decommissioning
1,2	Dismantle medium height steel buildings/structures to salvage yard	m^2	10086,00	R 305,03	R 3 076 532,58	Decommissioning
	King					
1,1	Dismantle steel structure high with heavy internal steel to salvage yard	m^2	2962,00	R 361,90	R 1 071 947,80	Decommissioning
1,2	Dismantle medium height steel buildings/structures to salvage yard	m^2	29613,00	R 305,03	R 9 032 853,39	Decommissioning
	Parsons					
1,1	Dismantle steel structure high with heavy internal steel to salvage yard	m^2	31514,00	R 361,90	R 11 404 916,60	Decommissioning
1,2	Dismantle medium height steel buildings/structures to salvage yard	m^2	113192,00	R 305,03	R 34 526 955,76	Decommissioning
	Brick Buildings					
	Bruce					
4,1	Demolish brick structure, load and spoil (on site)	m^2	2161,00	R 101,33	R 218 978,45	Decommissioning
	King					
4,1	Demolish brick structure, load and spoil (on site)	m^2	15082,00	R 101,33	R 1 528 289,22	Decommissioning
	Parsons					
4,1	Demolish brick structure, load and spoil (on site)	m^2	30434,00	R 101,33	R 3 083 938,09	Decommissioning
	Roads					
	Bruce					

Assmang - Khumani Iron Ore Mine **Evaluation Date: May 2018**			**2018**			**Decommissioning / Restoration**
Final (LOM) Rehabilitation Plan	**Evaluator: Globesight (Pty) Ltd**					
8,2	Demolish unsurfaced haul roads, rip and shape	m^2	431297,00	R 11,37	R 4 905 572,08	Decommissioning
8,3	Demolish surfaced (tarred) roads, rip and shape	m^2	30844,00	R 11,37	R 350 819,66	Decommissioning
8,4	Topsoil spreading onto haul road footprints	m^3	64695,00	R 19,65	R 1 270 997,97	Decommissioning
	King					
8,2	Demolish unsurfaced haul roads, rip and shape	m^2	406489,00	R 11,37	R 4 623 405,89	Decommissioning
8,3	Demolish surfaced (tarred) roads, rip and shape	m^2	54527,00	R 11,37	R 620 190,10	Decommissioning
8,4	Topsoil spreading onto haul road footprints	m^3	60973,00	R 19,65	R 1 197 875,56	Decommissioning
	Parsons					
8,3	Demolish surfaced (tarred) roads, rip and shape	m^2	86246,00	R 11,37	R 980 962,00	Decommissioning
	Railway Lines					
	King & Parsons					
10,2	Remove rails, sleepers and ballast	m	31350,00	R 139,69	R 4 379 388,09	Decommissioning
14,5	Rip and shape remaining disturbed surfaces	m^2	627000,00	R 3,62	R 2 269 113,00	Decommissioning
10,3	Topsoil spreading onto rail footprint	m^3	94050,00	R 19,65	R 1 847 706,30	Decommissioning
10,1	Rip and shape ballast footprint (Old TFR)	m	19600,00	R 3,62	R 70 932,40	Decommissioning
10,3	Topsoil spreading onto rail footprint	m^3	17640,00	R 19,65	R 346 555,44	Decommissioning
	Concrete Structures					
	Bruce					
2,1	Demolish all reinforced concrete foundations/bases/slabs/floors	m^2	27851,00	R 200,34	R 5 579 599,71	Decommissioning
	King					
2,1	Demolish all reinforced concrete foundations/bases/slabs/floors	m^2	130082,00	R 200,34	R 26 060 302,68	Decommissioning
	Parsons					

Assmang - Khumani Iron Ore Mine **Evaluation Date: May 2018**			**2018**			**Decommissioning / Restoration**
Final (LOM) Rehabilitation Plan **Evaluator: Globesight (Pty) Ltd**						
2,1	Demolish all reinforced concrete foundations/bases/slabs/floors	m^2	144486,00	R 200,34	R 28 945 964,03	Decommissioning
	Pipelines					
	Bruce					
7,1	Dismantle and remove piping on surface to stockpile	m	19164,00	R 51,70	R 990 778,80	Decommissioning
	King					
7,1	Dismantle and remove piping on surface to stockpile	m	46487,00	R 51,70	R 2 403 377,90	Decommissioning
	Parsons					
7,1	Dismantle and remove piping on surface to stockpile	m	59306,00	R 51,70	R 3 066 120,20	Decommissioning
	Powerlines & Communication Lines					
	Bruce					
7,2	Dismantle and remove overhead powerlines to stockpile	m	250245,00	R 3,83	R 957 387,32	Decommissioning
	King					
7,2	Dismantle and remove overhead powerlines to stockpile	m	423438,00	R 3,83	R 1 619 989,10	Decommissioning
	Parsons					
7,2	Dismantle and remove overhead powerlines to stockpile	m	757592,00	R 3,83	R 2 898 395,47	Decommissioning
	Fences					
	Bruce					
9,1	Removal of fences (post closure), cut to stockpile	m	37016,00	R 36,19	R 1 339 609,04	Decommissioning
	Boreholes					
	King					
11,1	Cut casing and cap borehole	Item	25,00	R 3 102,00	R 77 550,00	Decommissioning
	Earthworks					
	Opencast Rehabilitation (Enviro Berm)					
	Bruce					

Assmang - Khumani Iron Ore Mine **Evaluation Date: May 2018**			**2018**			**Decommissioning / Restoration**
Final (LOM) Rehabilitation Plan	**Evaluator: Globesight (Pty) Ltd**					
14,4	Pit BA 05	m	5100,00	R 318,47	R 1 624 207,20	Restoration
14,4	Pit BB 01	m	8855,00	R 318,47	R 2 820 069,56	Restoration
14,4	Pit BC 01	m	4309,20	R 318,47	R 1 372 359,54	Restoration
14,4	Pit BC 02	m	0,00	R 318,47	R 0,00	Restoration
14,4	Pit BC 03	m	0,00	R 318,47	R 0,00	Restoration
	King					
14,4	Pit KM 01	m	16700,00	R 318,47	R 5 318 482,40	Restoration
14,4	Pit KM 02	m	2316,00	R 318,47	R 737 581,15	Restoration
	Rehabilitation of Paste Disposal Facility					
	King					
14,5	Rip and shape remaining disturbed surfaces	m^2	916000,00	R 3,62	R 3 315 004,00	Decommissioning
14,7	Cut to fill from waste rock dump	m^3	458000,00	R 26,88	R 12 312 872,00	Decommissioning
14,6	Topsoil spreading over area	m^3	137400,00	R 19,65	R 2 699 360,40	Decommissioning
	Rehabilitation of dumps and spoils					
	Bruce					
	Dump B 01					
14,1	Containment berms (dumps)	m	130679,00	R 26,55	R 3 469 935,17	Restoration
14,2	Shaping waste dump slopes	m^3	308572,00	R 18,20	R 5 615 516,68	Restoration
14,3	Topsoil spreading over dump surface	m^3	490046,00	R 26,02	R 12 748 762,31	Restoration
	Pan Handle					
14,1	Containment berms (dumps)	m	23388,00	R 26,55	R 621 024,37	Restoration

Assmang - Khumani Iron Ore Mine **Evaluation Date: May 2018**			**2018**			**Decommissioning / Restoration**
Final (LOM) Rehabilitation Plan **Evaluator: Globesight (Pty) Ltd**						
14,2	Shaping waste dump slopes	m^3	93764,00	R 18,20	R 1 706 354,78	Restoration
14,3	Topsoil spreading over dump surface	m^3	87707,00	R 26,02	R 2 281 736,20	Restoration
	King					
	Dump K 01					
14,1	Containment berms (dumps)	m	25840,00	R 26,55	R 686 132,62	Restoration
14,2	Shaping waste dump slopes	m^3	293780,00	R 18,20	R 5 346 325,95	Restoration
14,3	Topsoil spreading over dump surface	m^3	117576,00	R 26,02	R 3 058 791,37	Restoration
	Mokaning					
	Dump M 01					
14,1	Containment berms (dumps)	m	52063,00	R 26,55	R 1 382 435,09	Restoration
14,2	Shaping waste dump slopes	m^3	137500,00	R 18,20	R 2 502 280,00	Restoration
14,3	Topsoil spreading over dump surface	m^3	195236,00	R 26,02	R 5 079 150,44	Restoration
	Waste Management & Disposal					
	Bruce					
6,3	Cut hazardous material to hazardous disposal site	m^3	2500,00	R 1 460,53	R 3 651 312,50	Decommissioning
	King					
6,3	Cut hazardous material to hazardous disposal site	m^3	2500,00	R 1 460,53	R 3 651 312,50	Decommissioning
	Parsons					
6,3	Cut hazardous material to hazardous disposal site	m^3	2500,00	R 1 460,53	R 3 651 312,50	Decommissioning
	General Surface Rehabilitation					
	Bruce					
14,5	Rip and shape remaining disturbed surfaces	m^2	173381,00	R 3,62	R 627 465,84	Restoration
	King					

Assmang - Khumani Iron Ore Mine **Evaluation Date: May 2018**			**2018**			**Decommissioning / Restoration**
Final (LOM) Rehabilitation Plan	**Evaluator: Globesight (Pty) Ltd**					
14,5	Rip and shape remaining disturbed surfaces	m^2	457393,00	R 3,62	R 1 655 305,27	Restoration
	Parsons					
14,5	Rip and shape remaining disturbed surfaces	m^2	1353909,00	R 3,62	R 4 899 796,67	Restoration
	Maintenance and Aftercare					
19,1	Surface Water Quality Monitoring	Annum	2,00	R 258 086,40	R 516 172,80	Restoration
19,2	Groundwater Quality Monitoring	Annum	3,00	R 62 040,00	R 186 120,00	Restoration
19,3	Air Quality Monitoring (PM2.5 & MP10)	Annum	3,00	R 43 428,00	R 130 284,00	Restoration
19,4	Vegetation establishment & Distribution Monitoring	Annum	3,00	R 72 380,00	R 217 140,00	Restoration
19,5	Land Stability Monitoring	Annum	3,00	R 113 740,00	R 341 220,00	Restoration
19,9	Social & Labour Plan Commitments	Annum	3,00	R 517 000,00	R 1 551 000,00	Restoration
19,6	Post rehabilitation maintenance	Annum	3,00	R 4 136 000,00	R 12 408 000,00	Restoration
			Sub-Total		**R 268 161 342,84**	
	Management and Administration					
	Preliminary & General (6%)				R 16 089 680,57	
	Contingency (10%)				R 26 816 134,28	
	Health & Safety				R 5 363 226,86	
			Total (ZAR)		**R 316 430 384,55**	

12.3 Cost Assumptions

- Rates and costs include all services and supplies to/ at site;
- Rates and costs are based on the premise of premature/ third party closure;
- Costs are based on the present currency (ZAR) value, i.e. at "day of assessment";
- Previous methodologies for the determination of rehabilitation and closure costs, such as the recently repealed DMR's Regulations and by implication its guidelines and master rates are viewed as obsolete;
- Although significant value is likely recoverable from the sale of salvageable materials (fittings, fixtures, equipment, scrap steel, plant etc.) no resale values have been offset against the overall rehabilitation and closure cost estimate;
- The rehabilitation and closure cost estimate is based on a two (2) year decommissioning, rehabilitation and closure schedule with a three (3) year post-closure maintenance and aftercare period;
- Information on the socio-economic requirements linked to the rehabilitation and closure of Khumani are unknown at present;
- Costing does not provide for bituminous tar waste (classified as hazardous construction waste) to be disposed of at Holfontein H:H Landfill site due to the excessive transport costs. It is assumed that the bituminous tar waste can be disposed of legally on site within an already lines facility; subject to approvals in terms of relevant legislation at the time;
- The post-operational land use is aimed at returning the entire Khumani footprint area to low intensity grazing land (apart from open voids/ pits and the side slopes of the paste disposal facility (as per EMP))
- A free-haul rate of up to 1km;
- All salvageable material stockpiled temporarily on site will be sold off and collected by third party buyers;
- Health, Safety and Security will be required during the decommissioning and closure phase with only reduced security services being required during the post-closure aftercare and maintenance period;
- The services of a professional civil engineer will be required for independent monitoring of the paste disposal facility rehabilitation process and said services are excluded from this valuation; and
- Economies of scale are based on the rehabilitation and closure of the entire Khumani as a single encompassing exercise; rehabilitation and closure of individual components within Khumani will price higher.
- In Section 2.3 of this report the details on potential future planned projects are listed. These projects have not been approved in terms of Environmental Legislation and therefore have not been incorporated into the financial provision studies or rehabilitation strategies. These must again be assessed during the next assessment to determine the status of implementation.

13 MONITORING, AUDITING AND REPORTING REQUIREMENTS

13.1 Audit Schedule

The following table presents the audit schedule the mine needs to follow:

Audit	Regulatory Requirement	External Responsibility	Internal Responsibility
MPRDA Performance Assessments	Once every year	To be appointed	SHEQ Department (Mr. Dirk Coetzee)
NWA Performance Assessment	Once every year	To be appointed	SHEQ Department (Mr. Dirk Coetzee)
Closure Cost Assessment	Once every year	To be appointed	SHEQ Department (Mr. Dirk Coetzee)
Annual Rehabilitation Plan	Once every year	To be appointed	SHEQ Department (Mr. Dirk Coetzee)
NEM:WA Performance Assessment	Once every two years	To be appointed	SHEQ Department (Mr. Dirk Coetzee)
Internal Assessment of Annual Plan	Every second month	-	SHEQ Department (Mr. Dirk Coetzee)

13.2 Reporting Requirements

The following table presents the reporting requirements the mine needs to follow:

Audit	Regulatory Requirement	Timeframe in which to submit	Regulatory Authority	Comment
MPRDA Performance Assessments	Once every year	30 days after finalisation	DMR	These reports should be presented to Stakeholders during a feedback forum in the event that the findings of the audits detect that the approved measures are no longer suitable to address the activities of the mine and that stakeholders may be negatively impacted as a result. or Upon instruction of the DMR.
NWA Performance Assessment	Once every year	30 days after finalisation	DWS	
Closure Cost Assessment	Once every year	Once audited by external financial auditors	DMR	
Annual Rehabilitation Plan	Once every year	Once audited by external financial auditors	DMR	
NEM:WA Performance Assessment	Once every two years	30 days after finalisation	DMR	
Internal Assessment of Annual Plan	Every second month	Upon Departmental Request	DMR	

13.3 Monitoring Plan

The monitoring plan for surface water, groundwater and air must be undertaken in accordance to the approved EMP and WUL.

14 AMENDMENTS TO FINAL REHABILITATION PLAN

There has been no amendment to the following since the last (2017) assessment:

- Risk Assessment;
- Monitoring requirements; or
- Rehabilitation strategy or objectives.

As per the Regulations, this report will be assessed and updated annually to assist the operation in planning towards closure and implementing concurrent rehabilitation practices as part of the mining operations.

Annexure A: Khumani BoQ (SHEQ) 2018

Assmang - Khumani Iron Ore Mine	Evaluation Date: May 2018		2018
Final (LOM) Rehabilitation Plan	Evaluator: Globesight (Pty) Ltd		
Rate Nr.	**Item Description**	**Unit**	**Quantity**
	Steel Structures		
	Bruce		
1,1	Dismantle steel structure high with heavy internal steel to salvage yard	m^2	4141,00
1,2	Dismantle medium height steel buildings/structures to salvage yard	m^2	10086,00
	King		
1,1	Dismantle steel structure high with heavy internal steel to salvage yard	m^2	2962,00
1,2	Dismantle medium height steel buildings/structures to salvage yard	m^2	29613,00
	Parsons		
1,1	Dismantle steel structure high with heavy internal steel to salvage yard	m^2	31514,00
1,2	Dismantle medium height steel buildings/structures to salvage yard	m^2	113192,00
	Brick Buildings		
	Bruce		
4,1	Demolish brick structure, load and spoil (on site)	m^2	2161,00
	King		
4,1	Demolish brick structure, load and spoil (on site)	m^2	15082,00
	Parsons		
4,1	Demolish brick structure, load and spoil (on site)	m^2	30434,00
	Roads		
	Bruce		
8,2	Demolish unsurfaced haul roads, rip and shape	m^2	431297,00
8,3	Demolish surfaced (tarred) roads, rip and shape	m^2	30844,00
8,4	Topsoil spreading onto haul road footprints	m^3	64695,00
	King		
8,2	Demolish unsurfaced haul roads, rip and shape	m^2	406489,00
8,3	Demolish surfaced (tarred) roads, rip and shape	m^2	54527,00
8,4	Topsoil spreading onto haul road footprints	m^3	60973,00
	Parsons		
8,3	Demolish surfaced (tarred) roads, rip and shape	m^2	86246,00
	Railway Lines		
	King & Parsons		
10,2	Remove rails, sleepers and ballast	m	31350,00
14,5	Rip and shape remaining disturbed surfaces	m^2	627000,00
10,3	Topsoil spreading onto rail footprint	m^3	94050,00
10,1	Rip and shape ballast footprint (Old TFR)	m	19600,00
10,3	Topsoil spreading onto rail footprint	m^3	17640,00
	Concrete Structures		
	Bruce		
2,1	Demolish all reinforced concrete foundations/bases/slabs/floors	m^2	27851,00
	King		
2,1	Demolish all reinforced concrete foundations/bases/slabs/floors	m^2	130082,00
	Parsons		
2,1	Demolish all reinforced concrete foundations/bases/slabs/floors	m^2	144486,00
	Pipelines		
	Bruce		
7,1	Dismantle and remove piping on surface to stockpile	m	19164,00
	King		
7,1	Dismantle and remove piping on surface to stockpile	m	46487,00
	Parsons		
7,1	Dismantle and remove piping on surface to stockpile	m	59306,00
	Powerlines & Communication Lines		
	Bruce		
7,2	Dismantle and remove overhead powerlines to stockpile	m	250245,00
	King		
7,2	Dismantle and remove overhead powerlines to stockpile	m	423438,00
	Parsons		

7,2	Dismantle and remove overhead powerlines to stockpile	m	757592,00
	Fences		
	Bruce		
9,1	Removal of fences (post closure), cut to stockpile	m	37016,00
	Boreholes		
	King		
11,1	Cut casing and cap borehole	Item	25,00
	Earthworks		
	Opencast Rehabilitation (Enviro Berm)		
	Bruce		
14,4	Pit BA 05	m	5100,00
14,4	Pit BB 01	m	8855,00
14,4	Pit BC 01	m	4309,20
14,4	Pit BC 02	m	0,00
14,4	Pit BC 03	m	0,00
	King		
14,4	Pit KM 01	m	16700,00
14,4	Pit KM 02	m	2316,00
	Rehabilitation of Paste Disposal Facility		
	King		
14,5	Rip and shape remaining disturbed surfaces	m^2	916000,00
14,7	Cut to fill from waste rock dump	m^3	458000,00
14,6	Topsoil spreading over area	m^3	137400,00
	Rehabilitation of dumps and spoils		
	Bruce		
	Dump B 01		
14,1	Containment berms (dumps)	m	130679,00
14,2	Shaping waste dump slopes	m^3	308572,00
14,3	Topsoil spreading over dump surface	m^3	490046,00
	Pan Handle		
14,1	Containment berms (dumps)	m	23388,00
14,2	Shaping waste dump slopes	m^3	93764,00
14,3	Topsoil spreading over dump surface	m^3	87707,00
	King		
	Dump K 01		
14,1	Containment berms (dumps)	m	25840,00
14,2	Shaping waste dump slopes	m^3	293780,00
14,3	Topsoil spreading over dump surface	m^3	117576,00
	Mokaning		
	Dump M 01		
14,1	Containment berms (dumps)	m	52063,00
14,2	Shaping waste dump slopes	m^3	137500,00
14,3	Topsoil spreading over dump surface	m^3	195236,00
	Waste Management & Disposal		
	Bruce		
6,3	Cut hazardous material to hazardous disposal site	m^3	2500,00
	King		
6,3	Cut hazardous material to hazardous disposal site	m^3	2500,00
	Parsons		
6,3	Cut hazardous material to hazardous disposal site	m^3	2500,00
	General Surface Rehabilitation		
	Bruce		
14,5	Rip and shape remaining disturbed surfaces	m^2	173381,00
	King		
14,5	Rip and shape remaining disturbed surfaces	m^2	457393,00
	Parsons		
14,5	Rip and shape remaining disturbed surfaces	m^2	1353909,00

Annexure B: Plant and Equipment Rates

CPHA MEMBERS LIST

BOTSWANA

Babcock TCM Plant
2, 3, 8, 13, 14, 15, 20, 31
Tel (00267) 393-6541 (Gaborone)

Excavator Hire
2, 3, 5, 8, 12, 13, 15, 20, 28, 31
Tel (00267) 392-8392

GHF (Pty) Ltd
1, 4, 5, 24, 31
Tel (00267) 392-2885 (Phakalane)

Johnson Crane Hire
6
Tel (00267) 393-2551 (Gaborone)

Jomaf Hiring Services
4, 5, 12, 18, 20, 24
Tel (00267) 319-1585 (Gaborone)

Ngamiland Generator & Diesel Services
2, 5, 12, 13, 15, 19, 20, 23, 24
Tel (00267) 686-0253 (Maun)

Rhino Plant Hire
2, 8, 15, 23, 31
Tel (00267) 392-2512 (Gaborone)

Shumba Plant Hire
1, 2, 5, 6, 12, 13, 15, 19, 20, 22, 24, 26, 27, 28, 31.
Tel (00267) 686-1100 (Maun)

Van & Truck Hire
2, 3, 8, 13, 15, 20, 27, 31
Tel (00267) 391-2280 (Gaborone)

BORDER

Action Plant & Equipment
4, 5, 7, 12, 18, 19, 20, 24
Tel (043) 722-8294 (East London)

AE Plant Hire
2, 3, 8, 20, 31
Tel (083) 654-99871 (East London)

Allen & Clarke Civil Engineering Contractors
3, 20, 25, 31
Tel (043) 726-2076 (East London)

Anchor Plant Hire
2, 8, 14, 20, 22, 27, 31
Tel (043) 745-0330 (East London)

Bitline SA 1060
2, 8, 31
Tel (047) 532 4691 (Mthatha)

Civil & General Contractors
2, 3, 4, 6, 8, 10, 13, 14, 15, 20, 27, 28, 31
Tel (045) 857-0176 (Queenstown)

BORDER continued

Emandleni Trading Enterprises
2, 31
Tel (047) 531 3975 (Mthatha)

Inyathi Plant Hire
2; 3; 13; 20; 28; 31
Tel (043) 732-1124 (Beacon Bay)

Louwrens Van der Walt Beleggings
2, 8, 14
Tel (083) 290 0959 (Queenstown)

Mvezo Plant Hire
2, 8, 13, 20, 23, 31
Tel (043) 745-0467 (East London)

Norland Plant Holdings
8, 13, 15, 20, 30
Tel (043) 736-6548 (East London)

Orange Plant Hire
2; 31
Tel (045) 839 2370 (Queenstown)

Peugair Border
4, 20
Tel (043) 748-2423 (East London)

Plus Plant Hire
2, 3, 8, 14,15, 23, 30
Tel (043) 736-3541 (East London)

Present Civils
6
Tel (043) 745-1014 (East London)

Qush Plant Hire
2, 3, 8, 31
Tel (043) 050 4444 (Vincent)

Riegers Hire
2,3,8,13,14,15,20,22,23,24,27,28,31.
Tel (043) 732-1464 (East London)

Roberts Bros Construction
2, 3, 6, 8, 13, 15, 16, 27, 31
Tel (043) 748-2588 (East London)

Rumdel (Cape)
2, 3, 6, 8, 13, 15, 20, 31
Tel (043) 748-6417 (East London)

Seneca Civils (Pty) Ltd
2,8,14,17,
Tel (082) 442 1545 (Mathatha)

SL Contractors
2, 3, 8, 13, 14, 15, 20, 23, 27, 28, 31
Tel (043) 745-2002 (East London)

Sokhulu Truck & Plant Hire
3, 8, 13, 20, 31
Tel (039) 737 4384 (Matatiele)

BORDER continued

Talisman Hire
1,4,5,12,18,19,20,22,24
Tel: 0861 87 87 87

Thompson's Transport
30
Tel (045) 839-5850 (Queenstown)

Ukamva Civils
2, 8, 13, 17, 20, 31
Tel (047) 531 1007 (Mthatha)

Umso Construction
2, 3, 8, 13, 20, 25, 28, 27, 31
Tel (043) 748-4747 (East London)
Tel (045) 839-5850 (Queenstown)

WC Plant Hire
2, 3, 8, 15, 20, 31
Tel (043) 732-1833 (Gonubie)

Xesibe Construction
2, 8, 13, 20, 24, 31
Tel (039) 253-7264 (Lusikisiki)

FREE STATE

Anglo / V3 Crane Hire
6
Tel (051) 435-8632 (Bloemfontein)

Anglo / V3 Crane Hire
6
Tel (057) 396-4138 (Welkom)

Babcock Plant Services
6, 10, 12, 18, 22, 24, 26, 27
Tel (016) 976-1075 (Sasolburg)

Delta Crane & Plant Hire
6
Tel (016) 971-1101 (Vaalpark)

Express Plant Hire
2, 8, 13, 16, 20, 28
Tel (051) 436-4891

Ferro Sales & Services
22
Tel: (082) 773 2165

Sigg's Engineering & Projects
2, 8, 13, 15, 16, 20, 28, 31
Tel (016) 971-1204 (Sasolburg)

Talisman Hire
1,4,5,12,18,19,20,22,24
Tel: 0861 87 87 87

T&F Construction
2; 3; 8; 9; 13;15; 20; 23;26;31
Tel (016) 421-4656 (Vereeniging)

GAUTENG

A1 Rigging & Engineering Services
2, 6, 8, 10, 12, 14, 23, 24, 26
Tel (011) 609-2040 (Johannesburg)

All Diesel Power Products
12, 20
Tel (011) 334-6573 (Johannesburg)

Active Construction & Equipment
2, 3, 8, 13, 14, 20, 23, 31
Tel (011) 425-4890/1 (Benoni)

Africrane
6
Tel (082) 412 7392 (Benoni)

African Crane Services
6
Tel (084) 811 0886 (Bryanston)

Afritool-Rent
12, 18, 24
Tel (011) 974-2819 (Johannesburg)

Aggreko Energy Rental SA
12
Tel (011) 357-8900 (Olifontsfontein)

Alpha Plant & Services
8, 13, 26
Tel (011) 827-9190 (Johannesburg)

ALS Group
2,3,8,13,15,20,28,31
Tel (012) 640-0040 (Centurion)

Anglo / V3 Crane Hire
6
Tel (011) 805-8071 (Halfway House)

Anton's Grader Hire
13
Tel (082) 923-5397 (Honeydew)

Artic Driers
4
Tel (011) 425-3484 (Benoni)

Atlas Crane Hire
6
Tel (011) 842-2300 (Johannesburg)

Atlas Plant Hire
4, 12, 18, 27
Tel (011) 310-9313 (Midrand)

A-Z Engineering & Plant Hire
3, 8, 13, 15, 20, 26, 27, 29, 31
Tel (011) 462-7907 (Johannesburg)

Babcock Plant Services
6, 10, 12, 18, 22, 24, 26, 27
Tel (011) 418-4407 (Johannesburg)

Barloworld Equipment Cat Rental Store
2-5, 7, 8, 12-15, 20, 23, 26, 31
Tel (011) 929-0419 (Isando)

GAUTENG continued

Basil Read Plant
13, 20, 31
Tel (011) 418-6300 (Johannesburg)

Bears Plant Hire
2, 8, 14, 15, 24, 30, 31
Tel (0861) 232-777 (Johannesburg)

Bobcat Equipment Rentals
4, 8, 14, 15, 23, 24,25, 26
Tel (011) 389-4460 (Alrode)

Brackenwest Hardware & Hire
12, 18
Tel (011) 867-6224 (Johannesburg)

Bulk Machine Hire
15, 21, 28, 31
Tel (011) 964-1179 (Johannesburg)

Burma Plant Hire
2, 3, 8, 13,15, 20, 23, 26, 31
Tel (071) 689-0711 (Springs)

Carry Deck Crane Rentals
6
Tel (011) 915-0184 (Brakpan)

C.A.T.S Plant Hire
2, 3, 8, 13, 15, 20, 31
Tel (011) 474-4261 (Roodepoort)

Catkom Plant
3, 8, 31
Tel (011) 892 0775 (Boksburg North)

Chimes Crane Hire
6
Tel (011) 626-1110 (Germiston)

City Air Rental
4
Tel (011) 262-2650 (Wynberg)

Cleveland Crane Hire
6
Tel (011) 626-1029 (Heriotdale)

CompAir SA
4
Tel (011) 345-2200 (Johannesburg)

Cranecom
6
Tel (011) 421-3848 (Apex)

Cubenco 194
1, 2, 6, 10, 14, 25,31
Tel (016) 931-9758 (Vanderbijlpark)

Diesel Power Group
3, 8, 13, 31
Tel (086) 196-1177 (Bredell)

Delta Crane & Plant Hire
6
Tel (082) 902 7140 (Vanderbijlpark)

GAUTENG continued

Eazi Access Rental
1
Tel 086 100 eazi (Midrand)

Eco Plant Hire
3, 8, 13, 15, 31
Tel (082) 555 0095 (Kew)

EPH Plant Hire
2, 8, 14, 15, 17, 20, 23, 29, 31
Tel (012) 660-3312 (Centurion)

File Hire Plant
4, 12, 18, 20
Tel (011) 397-6463 (Boksburg)

Fred's Crane Hire Services
6
Tel (016) 422-5142 (Vereeniging)

KLT Machinery & Plant Hire
3, 8, 15, 31
Tel (011) 730-7501

L & J Gemmel Plant Services
8, 13, 20, 28, 31
Tel (011) 965-1463 (Benoni)

Generator & Plant Hire
12, 24
Tel (011) 312-0446 (Midrand)

Goscor Access Rental
1
Tel (011) 393-6424 (Chloorkop)

Hard Hat Equipment Hire
1, 4, 5, 12, 15, 18, 20, 22, 23, 24, 28, 29, 30, 34
Tel (011) 609-6443 (Halfway House)

Hennop Crane Hire
2, 6, 31
Tel (011) 828-0427 (Johannesburg)

Hennox 170
2, 3, 8, 10, 13,15,20,31
Tel (011) 024 1057 (Johannesburg)

Hire-Rite Equipment
8, 13, 14, 15, 20,
Tel (011) 894-8311

Howden Africa (Pty) Ltd
6
Tel (011) 240-4000

Ian Dickie & Co
24, 31
Tel (011) 609-4130

Imperial Crane Hire
6
Tel (011) 873-1410 (Johannesburg)

ITL Plant Hire
6
Tel (011) 436 0493 (Linmeyer)

GAUTENG continued

JMB Cranes
6
(011) 021 1038 (Klip River)

Johnson Crane Hire
6
Tel (011) 455-9222 (Head Office)
Tel (011) 455-9200 (Johannesburg)
Tel (016) 986-1295 (Vanderbijlpark)

Johnson Crane Hire Heavy Lift
6
Tel (011) 455-9222 (Edenvale)

Jumbo Machine Moving
6, 31
Tel (011) 100-0908 (Alrode)

Letsema Pneumatics & Logistics
4
Tel (011) 873-8675 (Germiston)

Linde Material Handling
10
Tel (011) 723-7000 (Sandton)

Liviero & Son
2, 3, 6, 8, 13, 15, 20, 27, 31
Tel (011) 466-2644 (Kyalami)

L&R Civil
2, 8, 13, 15, 20, 31
Tel (086) 133 3667(Fourways)

Mammoet SA
6, 31
Tel (011) 882-4499 (Johannesburg)

Marlboro Crane Hire
6
Tel (011) 882-8301 (Johannesburg)

Maximum Plant Hire
8, 15
Tel (011) 464-0930/1 (Fourways)

MD Plant & Equipment Sales
3, 13, 15,31
Tel (011) 706-7275 (Bryanston)

Moorosi Plant Hire
2, 8, 14
Tel (084) 803 2826(Jet Park)

Motsana Plant
2, 23
Tel (012) 771 4732 (Pretoria)

MPR Hiring
11
Tel (011) 835-1054 (Johannesburg)

Mzansi Plant Hire
2, 20, 31
Tel (012) 669 3296 (Centurion)

Gauteng continued

Ngaphambi Hire
2, 4, 20, 23, 31
Tel (082) 071 3951(Alberton)

Paul Heslop Plant Services
2, 8, 14
Tel (086) 111-5422 (Johannesburg)

Performance Plant Hire
4, 5, 11, 12, 18, 20, 24
Tel (011) 792-1224 (Randburg)
Tel (011) 823-5480 (Boksburg)
Tel (011) 312 5069 (Midrand)

PG Plant Hire
2, 3, 8, 13, 14, 15, 23, 27, 31
Tel (012) 803-8714 (Pretoria)

Plant Technical Services
8, 13, 31
Tel (011) 794-1628 (Johannesburg)

Platinum Mile Plant
2,8,13,15,20,31
Tel (083) 388 5959 (Witkoppies)

Pro-file Plant Hire
2, 8, 15, 31
Tel (016) 150-0533 (Johannesburg)

Propact Plant Hire
4, 5, 12, 18, 20, 24, 31
Tel (011) 680-2137 (Johannesburg)
Tel (012) 653-0245 (Centurion)

Rail Plant Hire
2, 3, 8, 13, 15
Tel (011) 968-9805 (Johannesburg)

Rebel Plant Hire
12, 18, 20
Tel (011) 882-1048 (Johannesburg)

Rand-Air
4, 12
Tel (011) 345-0700 (Wadeville)

Renico Plant Hire
2, 8, 15, 27, 31
Tel (011) 794-1177 (Johannesburg)

Renttech South Africa Plant Rental SA
4, 5, 12, 14, 18, 19, 22, 24, 27, 31
Tel (011) 824-0410 (Wadeville)

Rhino Excavator Hammers
2, 3, 8, 14, 15, 31
Tel (086) 111-5422 (Honeydew)

Richard Irons Plant Rentals
2, 8, 15
Tel (011) 315-1526/2080 (Johannesburg)

Gauteng continued

Rickharding Plant Hire
2, 8, 20, 23, 31
Tel (011) 979 4052 (Kempton Park)

Riviera Hire
2, 8,14,15,23
Tel (087) 941-1113

Road Milling & Sweeping
16; 25; 31
Tel (011) 472 5333

Sandton Plant Hire
2, 3, 8, 15, 27, 31
Tel (011) 805-3084 (Johannesburg)

Sarens South Africa (Pty) Ltd
6
Tel (011) 861-3800 (Johannesburg)

Seneca Civils (Pty) Ltd
2,8,14,17,
Tel (011) 941-3510 (Mondeor)

Spare Power Trading
3, 8, 15, 31
Tel (011) 845 4184 (Benoni)

Skyjacks
1
Tel (011) 397 2730 (Boksburg)

Superlift Crane Hire
6
Tel (011) 963-0146 (Johannesburg)

Talisman Hire
1,4,5,12,18,19,20,22,24
Tel: 0861 87 87 87

T&F Construction
2; 3; 8; 9; 13;15; 20; 23;26;31
Tel (016) 421-4656 (Vereeniging)

Theaco Roads & Earthworks
2, 3, 8, 13, 15, 20, 27, 31
Tel (016) 451-3071 (Vanderbijlpark)

Turner Morris
5, 12, 20
Tel (011) 618-2620 (Johannesburg)

West Rand Plant Hire
2, 3, 8, 13, 15, 20, 31
Tel (011) 845-5160 (Springs)

West Reef Plant Hire
2, 3, 8, 14, 31
Tel (011) 348-1499 (Heidelberg)

Wirtgen GmbH
16
Tel 0861 947 8436 (Johannesburg)

KWAZULU- NATAL

Afro Plant
2,3,8,13,15,20,21,28,31
Tel (031) 705-4490 (Durban)

Aggreko South Africa
11, 12
Tel (031) 534-6702 (Durban)

ALS Group
2, 3, 8, 15, 21, 23, 28, 31
Tel (034) 341-1636 (Newcastle)

Amaphiko Ejuba Transport Enterprises
31
Tel (031) 701-4759 (Pinetown)

Anglo / V3 Crane Hire
6
Tel (034) 318-5818 (Newcastle)
Tel (035) 751-1798 (Richards Bay)

Aqua Transport & Plant Hire
2, 3, 6, 8, 13, 15, 20, 28, 31
Tel: (031) 716-2300 (Pinetown)

Atlas Plant Hire
4, 12, 18, 27
Tel (031) 700 1724 (Pinetown)

Babcock Plant Services
6, 10, 12, 18, 22, 24, 26, 27
Tel (031) 700 5661 (Durban)

Barloworld Equipment Cat Rental Store
2-5, 8, 12, 14, 15, 20, 23, 26, 31
Tel (031) 569-8500 (New Germany)

B&B Plant & Equipment
4, 5, 12, 18, 20, 24
Tel (035) 787-0679 (Empangeni)

BB Transport
3-6, 8, 10, 12-15, 20, 22, 23, 27,28,31
Tel (034) 393-1861 (Glencoe)

Bob-Ann Plant
23
Tel (031) 266-3656 (Durban)

City Park Trading
2, 3, 8, 13, 20, 28, 31
Tel (035) 550-1162 (Mtubathuba)

CompAir SA
4
Tel (031) 792-4270 (Durban)

Conan Construction
3, 8, 13, 15, 20, 27, 31
Tel (033) 3462108 (Pietermaritzburg)

Desmonds Transport & Plant Hire
31
Tel (039) 685-4100 (Port Shepstone)

Devray Plant & Earthworks
2, 8, 13, 20, 23, 31
Tel (035) 751-2141 (Richards Bay)

KWAZULU- NATAL continued

Dreykon
2, 3, 8, 13, 15, 20, 27, 28, 31
Tel (034) 212-1246 (Dundee)

Dudula Civils
8, 13, 20, 31
Tel (033) 346 4121 (Pietermartizburg)

Ekene Investments
2, 3, 8, 13, 20, 28, 31
Tel (031) 767 1033 (Queensburgh)

Elcon Crane Hire
6
Tel (031) 466-5411 (Durban)
Tel (035) 751-1284 (Richards Bay)

EXR Construction
3, 4, 5, 6, 8, 12, 13, 15, 16, 17, 20, 27, 28, 31
Tel: (031) 539-9100 (Mount Edgecombe)

Generator & Plant Hire
12, 24
Tel (031) 466-4515 (Durban)
Tel (035) 751-1897 (Richards Bay)

Goscor Access Rental
1
Tel (031) 700-6906 (Pinetown)

GR Transport & Plant Hire
2, 3, 8, 13, 15, 20, 31
Tel (035) 486-1903 (Darnall)

Hire Anything
5, 9, 11, 12, 18, 24, 27, 31
Tel (035) 789-5997 (Richards Bay)

Ian Dickie & Co
24, 31
Tel (031) 709-1313

Induna Logistics & Terminals
2, 3, 8, 10, 13, 15, 20, 23, 27, 31
Tel (035) 797 4100 (Richards Bay)

Izimu Mining Services
8, 14
Tel (031) 701-1069 (Pinetown)

JCR Transport
2, 8, 13, 20, 31
Tel (031) 700-6833 (Pinetown)

Johnson Crane Hire
6
Tel (031) 466-6515 (Durban)

KLM Plant Hire & Sales
24
Tel (035) 789 0260 (Richards Bay)

Leomat Plant Hire
2, 3, 8, 13, 14, 15, 20, 27, 31
Tel (035) 797-4611 (Richards Bay)

LT Earthmovers
2, 3, 8, 13, 20, 31
Tel (033) 503-1355 (Wartburg)

KWAZULU- NATAL continued

Mabona Civils & Plant Hire
2, 8, 13, 20, 31
Tel (039) 727 1462 (Kokstad)

Machinery Mart
5, 12, 14, 18, 20, 24
Tel (031) 301-7069 (Durban)

Major Machines
2, 3, 8, 13, 15, 17, 20, 23, 28, 31
Tel (033) 330 5701 (Merrivale)

Marlisha Transport
3, 4, 8, 13, 20, 23, 24, 31
Tel (031) 700 8616 (Westmead)

McKenzie Plant Hire
2, 3, 8, 13, 14, 15, 20, 27, 29, 31
Tel (033) 212-2181 (Richmond)

Midmar Plant Hire
2, 3, 8, 13, 15, 20, 31
Tel (031) 700-9061 (Westmead)

Morgado Plant Hire
2, 3, 8, 13, 15, 20, 31
Tel (031) 569-4750 (Durban)

Motwell Plant Hire
3, 8, 13, 15, 20, 31
Tel (082) 496 9673 (Illovo Beach)

Need-A-Tool
1, 4, 12, 18, 20, 24, 26
Tel (031) 705-1470 (Durban)

Pat Smith Plant Hire
2, 8, 13, 15, 20, 31
Tel (034) 218-1295 (Dundee)

Professional Access Rentals
1
Tel (031) 914-4488 (Umbogintwini)

Pro-hydraulics/ Viper-Generator Hiring
12
Tel (031) 705-4104 (New Germany)

Protrans Plant & Civils
2, 8, 10, 13, 20, 28, 31
Tel (039) 6682 5695 (Port Shepstone)

Queensburgh Equipment Rental
2,8,13
Tel (031) 464-7844 (Queensburgh)

Raciti's Plant Hire
2, 20
Tel (036) 352-5783 (Estcourt)

RADDS Transport
2, 8, 10, 13, 15, 20, 23, 31
Tel (035) 787 3901 (Empangeni)

Richards Bay Crane Hire
6
Tel (035) 751-1339 (Richards Bay)

KWAZULU- NATAL continued

Sage Trans
2, 8, 13, 15, 20, 31
Tel (031) 266 1492 (Durban)

Savemor Earthmoving
2, 8, 15, 20, 27, 31
Tel (031) 702-9441 (Durban)

Sealcoat Surfacing & Asphalt
2, 20, 23, 27; 28; 31
Tel (033) 386-8998 (Pietermaritzburg)

Scotty's Plant Hire
2, 3, 4, 5, 8, 10, 12,13, 14, 15, 18, 20, 24, 31
Tel (031) 700-8000 (Durban)
Tel (033) 386-1614 (Pietermaritzburg)

Skyjacks
1
Tel (031) 914 4773 (Umbogintwini)

Sobuza Investments
2, 8, 13, 20, 28, 31
Tel (031) 100 1023 (Pinetown)

Superdigger Plant Hire
2, 3, 8, 13, 20, 23, 31
Tel: 031 736 6010 (Cliff Dale)

Talisman Hire
1,4,5,12,18,19,20,22,24
Tel: 0861 87 87 87

Tony's Tool Hire
2, 4, 5, 11, 12, 18, 19, 20, 22, 24, 27, 31
Tel (034) 413-3023 (Pongola)
Tel (034) 212-5232 (Dundee)
Tel (034) 312 8396 (Newcastle)

Tswella Trading
2, 8, 13, 20, 31
Tel (039) 727 5907 (Kokstad)

Ubunye Plant Hire
2, 3, 8, 13, 15, 20, 31
Tel (031) 464-6551 (Queensburgh)

Universal Trading
2, 3, 8, 10, 13, 15, 16, 20, 23, 26, 31
Tel: (031) 461 5008 (Jacobs)

Upfold Plant Hire
2, 8, 23, 31
Tel: (087) 808 6914 (Shelly Beach)

VIP Construction cc
2, 8, 13, 20, 28, 31
Tel: (076) 399 4596 (Pietermaritzburg)

LIMPOPO

Assert Plant Hire
8, 13, 31
Tel (015) 291-2304 (Polokwane)

Atlas Plant Hire
4, 12, 18, 27
Tel (014) 763-6720 (Lepelale)

LIMPOPO continued

Babcock Plant Services
6, 10, 12, 18, 22, 24, 26, 27
Tel (079) 827-9227 (Lepelale)

Johnson Crane Hire
6
Tel: (083) 327-7077 (Lephalale)

Kingdom Plant
2, 3, 8, 13, 14, 15, 20, 31
Tel (015) 307-3950 (Tzaneen)

Maruma Plant Hire
2, 8,13,23,20, 31
Tel (015) 293-2902 (Pietersburg)

Ovoscape Plant Hire
2, 8, 12, 13, 15, 23, 27,28, 31
Tel: (082) 716 3765 (Polokwane)

Quality Plant Hire
2, 3, 8, 13, 15, 20, 31
Tel: (015) 304-3000 (Tzaneen)

Talisman Hire
1,4,5,12,18,19,20,22,24
Tel: 0861 87 87 87

MPUMALANGA

Afritool-Rent
5, 12, 18, 22, 24
Tel (017) 639-1433 (Secunda)

ALS Group
2, 3, 8, 15, 21, 23, 28, 31
Tel (013) 689-1128 (Witbank)

Babcock Plant Services
6, 10, 12, 18, 22, 24, 26, 27
Tel (013) 246-2870 (Middleburg)
Tel (017) 631-2847 (Secunda)

Bobcat Equipment Rentals
4, 8, 14, 15, 23, 24,25, 26
Tel (013) 692-6814 (Witbank)

Central Africa Machine Sales
3, 6, 8, 15, 31
Tel (013) 691-2102 (Witbank)

Cranes 4 Hire
1, 6, 31
Tel (013) 696-1146 (Witbank)
Tel (013) 699-9701 (Middelburg)

Delta Crane and Plant Hire
6
Tel (016) 971-1101 (Kendal)

F&K Hire
6,31
Tel (013) 246-1701 (Middleburg)

Forestry Plant & Equipment Sales
9, 13, 15
Tel (013) 755-1003 (Nelspruit)

Ikotwe Plant Hire
2, 4, 8, 12, 26, 31
Tel (013) 750-1200 (White River)

MPUMALANGA continued

Isambane Mining
2; 3; 8; 13; 15; 17; 27; 28; 31
Tel (071) 681-9939 (Middleburg)

Johnson Crane Hire
6
Tel 082-900-8224 (Burgersfort)
Tel (013) 246-1344 (Middelburg)
Tel (017) 638-0047 (Trichardt)

Khulani's Trading Enterprise cc
2, 3, 8, 13, 20
Tel (013) 244 5017 (Middelburg)

Opsicol Mining Services
8, 9, 13, 20, 23, 31
Tel (013) 612-0503 (Middelburg)

Performance Plant Hire
4, 5, 11, 12, 18, 20, 24
Tel (013) 246-1293 (Witbank)

Ritchie Crane Hire
6
Tel (013) 697-5111 (Witbank)

Sasol Secunda Shared Services
6
Tel (017) 610-2039 (Secunda)

Steinmuller Plant & Equipment Hire
4, 6, 12, 18, 19, 22, 24, 27, 28
Tel (017) 624-5000

Talisman Hire
1,4,5,12,18,19,20,22,24
Tel: 0861 87 87 87

T&F Construction
2; 3; 8; 9; 13;15; 20; 23;26;31
Tel (016) 421-4656

Tony's Tool Hire
2, 4, 5, 11, 12, 18, 19, 20, 22, 24, 27, 31
Tel (017) 826-4683 (Piet Retief)

NAMIBIA

Concord Crane Hire
6
Tel +264 81 375 6560 (Okahandja)

HireMAN
1,4,5,12,18,19,20,22,24
Tel: (00264) 612 228 185

Roads Contractor Company
3, 8, 13, 15, 31
Tel (00264) 612 979 000 (Windhoek)

NAMIBIA continued

Wesbank Transport
6; 10; 31
Tel (00264) 6421 6000 (Walvis Bay)

Walvis Bay Plant & Tool Hire Services
1,2,4, 6, 10, 12,14, 15,24,26,27,31
Tel (00264) 6420 3787

Windhoek Hire Sales & Services
1, 2, 4, 5, 6, 8, 10, 12, 14, 15, 20, 24,29 ,31
Tel +264 61 233693. (Windhoek)

Windhoek Renovations
8,15,31
Tel (00264) 6123-6159 (Windhoek)

NORTHERN CAPE

Allied Crane Hire
6
(073) 133 5120 (Sishen)

ALS Group
2, 3, 8, 13,15, 20, 31
Tel (054) 334-0140 (Upington)

Burma Plant Hire
2, 3, 8, 13, 15, 20, 23, 26, 31
Tel (053) 313-3646 (Posmasburg)

Igloo Plant Hire
2, 8, 14, 23, 31
Tel (053) 723 1514 (Kathu)

Johnson Crane Hire
6
Tel (053) 791 0000 (Kathu)

Ovoscape Plant Hire
2, 8, 12, 13, 15, 23, 27,28, 31
Tel: (082) 207 3797 (Kuruman)

Talisman Hire
1,4,5,12,18,19,20,22,24
Tel: 0861 87 87 87

T&F Construction
2; 3; 8; 9; 13;15; 20; 23;26;31
Tel (016) 421-4656

North-West

Allied Crane Hire
6
Tel (082) 325-9525 (Rustenburg)

ALS Group
2,3,8,13,15,20,28,31
Tel (018) 290-8070 (Potchefstroom)

Anglo / V3 Crane Hire
6
Tel 082 821 6055 (Rustenburg)

Astrum Equipment
3, 4, 31
Tel 012 003 2137 (Brits)

North-West continued

Atlas Plant Hire
4, 12, 18, 27
Tel (014) 569-5951 (Rustenburg)

Babcock Plant Services
6, 10, 12, 18, 22, 24, 26, 27
Tel (082) 810-1229 (Rustenburg)

Crane Corporation
6
Tel (014) 538-1461 (Rustenburg)

Elmar Projects
2, 3, 4, 5, 8, 12, 13, 15, 18, 20, 21,24,27,28,31
Tel (014) 544-0677 (Swartruggens)

Johnson Crane Hire
6
Tel (014) 596-6684 (Rustenburg)

North Reef Mining
31
Tel (018) 464-4071 (Klerksdorp)

T&F Construction
2; 3; 8; 9; 13;15; 20; 23;26;31
Tel (083) 306 4822

Talisman Hire
1,4,5,12,18,19,20,22,24
Tel: 0861 87 87 87

West Rand Plant Hire
2, 3, 8, 13, 15, 20, 31
Tel (018) 473-5551 (Orkney)

PORT ELIZABETH

Aerial Lift Rentals
1, 26
Tel (083) 708-0473 (Port Elizabeth)

Algoa Plant Hire
2, 8, 13, 31
Tel (041) 453-2164 (Port Elizabeth)

Atlas Plant Hire
4, 5, 12, 18, 24, 27
Tel (041) 451-4266 (Port Elizabeth)

Barloworld Equipment Cat Rental Store
1; 4; 7; 12; 15
Tel (041) 486- 1303(Port Elizabeth)

Burma Plant Hire
2, 3, 8, 13,15, 20, 23, 26, 31
Tel (041) 463-4033 (Port Elizabeth)

C&C Moss Plant Hire
2
Tel: (083) 230-1548 (Port Elizabeth)

Castlehill Crane Hire
6
Tel (041) 486-1070 (Port Elizabeth)

PORT ELIZABETH continued

CompAir SA
4
Tel (041) 487-2867 (Port Elizabeth)

DK Pringle Earthworks
3, 8, 13,15, 20, 27, 28, 31
Tel (046) 685-0858 (Bedford)

Ian Dickie & Co
24, 31
Tel (041) 451-1577 (Port Elizabeth)

Lexintons Civil & Plant
2, 8, 13, 14, 20, 31
Tel (041) 372- 1850 (Port Elizabeth)

Newport Plant Hire
2, 3, 8, 13, 15, 20, 31
Tel (041) 463-2819 (Port Elizabeth)

Peugair
4, 20
Tel (041) 451-2722 (Port Elizabeth)

Pieter Rademeyer Plant Hire
2
Tel (041) 365-0115 (Port Elizabeth)

Primo Plant Hire
31
Tel (082) 973-4496 (Humewwod)

Rand Civils
2; 3; 8; 13; 14; 15; 20; 23; 28; 31
Tel: (041) 581-7791 (Port Elizabeth)

Sakhizwe Plant Hire
2, 8, 13, 15, 20, 23, 26, 31
Tel (082) 902 7000 (Port Elizabeth)

Scribante Construction
2, 3, 8, 12, 13, 15, 16, 17, 20, 21, 24,
27, 28, 29, 31
Tel (041) 484-7211 (Port Elizabeth)

SJW Plant
2, 8,,13,15,20,23,31
Tel: (041) 372 1845 (Port Elizabeth)

Talisman Hire
1,4,5,12,18,19,20,22,24
Tel: 0861 87 87 87

T&F Construction
2; 3; 8; 9; 13;15; 20; 23;26;31
Tel (016) 421-4656 (Vereeniging)

Techni Civils
2, 8, 13, 15, 20, 23, 31
Tel (041) 364-3240 (Newton Park)

Uitenhage Super Steel Crane & Van & Truck Hire
6, 31
Tel (041) 922-8060 (Uitenhage)

PORT ELIZABETH continued

Universal Equipment
2, 3, 4, 10, 12, 13, 20, 23, 26
Tel: (041) 453-1810 (Port Elizabeth)

Venter Plant Hire
2, 3, 4, 7, 8, 13, 15, 30
Tel (082) 655 7590 (Alexandria)

Talisman Hire
1,4,5,12,18,19,20,22,24
Tel:(+268) 2518 4210

WESTERN CAPE

Allied Crane Hire
6
Tel (021) 386-4555 (Airport Industria)

Babcock Target Plant Services
6
Tel (021) 951-8088 (Belville)

Barloworld Equipment Cat Rental Store
2-5, 8, 12-15, 20, 23, 24, 26, 31
Tel (021) 959-8200 (Belville)

Bobcat Equipment
4, 8, 14, 15, 23, 24,25, 26
Tel (021) 945-1423 (Cape Town)

Boss Group
17
Tel (071) 387 5781 (Sea Point)

Burma Plant Hire
2, 3, 5, 7, 8, 10, 13, 14, 15, 17, 20, 23, 30, 31
Tel (021) 905-8122 (Kuilsrivier)

CompAir SA
4
Tel (021) 535-5032 (Cape Town)

Generator & Plant Hire
12, 24
Tel (021) 555-3238 (Cape Town)

Goscor Access Rental
1, 26
Tel (021) 510-7307

Hiretech
1; 4, 18, 20, 24, 27
Tel (021) 945-3317 (Cape Town)

Ian Dickie & Co
12, 24, 31
Tel (021) 534-3431 (Cape Town)

Iselula Crushing
8; 14; 15; 17
Tel (021) 945-3317 (Cape Town)

Johnson Crane Hire
6
Tel (021) 535-1001 (Cape Town)

Mainline Civil Engineering Contractors
2, 8, 31
Tel (021) 461 7499 (Woodstock)

WESTERN CAPE continued

Rainbow Plant Hire
2, 15, 31
Tel (023) 347-0739 (Worcester)

Skyjacks
1
Tel (021) 511 0870 (Paarden Eiland)

Stelval Crane Hire
1, 6, 22, 27, 31
Tel (021) 534-4291 (Epping Industrial)

Sylco
1, 2, 3, 6, 8, 14, 15, 20, 22, 23, 26, 31
Tel (021) 845-4494 (Cape Town)

T&F Construction
2; 3; 8; 9; 13;15; 20; 23;26;31
Tel (016) 421-4656

Talisman Hire
1,4,5,12,18,19,20,22,24
Tel: 0861 87 87 87

Transand
2; 3; 8; 13; 20; 31
Tel (044) 695-0105 (Hartenbos)

Umhlaba Plant Hire
2; 3; 8; 20; 31
Tel (021) 987-1650/2 (Kraaifontein)

BOTSWANA - ASSOCIATE MEMBERS

Equipment Sales & Services
Tel (00267) 395-2291

BORDER - ASSOCIATE MEMBERS

High Power Equipment Africa
Tel (043) 732-1428

Hitachi Construction Machinery SA
Tel (081) 374 0347

ITR Africa
Tel (043) 748 3541

Kemach JCB
Tel (043) 732-1902

GAUTENG - ASSOCIATE MEMBERS

Afri Cat Earthmoving
Tel (011) 640-6741

Atlas Copco SA
Tel (011) 821-9000

Babcock Equipment
Tel: (011) 601-1000 (Johannesburg)

Barloworld Equipment Company
Tel (011) 301 4000

Barloworld Power
Tel (011) 323 2649

Bell Equipment
Tel (011) 928-9700

GAUTENG - ASSOCIATE MEMBERS continued

Benneton Insurance Brokers
Tel (011) 849-9400

Bobcat Equipment South Africa
Tel (011) 908-2377

Bobcor
Tel (011) 943-3876

CSE Equipment Co
Tel (011) 922-2000

Disa Equipment SA
Tel (011) 974-2095

ELB Equipment Ltd
Tel (011) 306-0700

Ellis Fricke & Associates (Benoni)
Tel (011) 965-6058

Hollard Insurance Company Limited
Tel: (011) 351-5000

Fidelis Asset Management
Tel: (083) 233 0437

Hamtern Financial Services (Pty) Limited
Tel: (011) 844 3900

High Power Equipment Africa
Tel (011) 397-4670

Hitachi Construction Machinery SA
Tel (011) 841-7700

ITR Africa
Tel (011) 614-0070

Kaeser Compressors (SA)
Tel (011) 974-5002

Kemach JCB
Tel (011) 826-6710

Komatsu SA
Tel (011) 923-1000

Liebherr Africa
Tel (011) 365-2000

(L.T.S) Lansdell Transport Services
Tel (011) 832-2218 (Boksburg)

MB Plant SA (Pty) Ltd
Tel (011) 396-3944

Manitou SA
Tel (011) 975-7770

Mohlalneg Mining Service Solution
Tel (011) 994-9660

MCS SA
Tel (011) 954-6745

Reef Insurance
Tel 0861 00 7333

RentWorks Africa
Tel (011) 549-9000

GAUTENG - ASSOCIATE MEMBERS continued

South African Load Test Services (S.A.L.T.S)
Tel (082) 309-5675

Specialist Adjusters
Tel (011) 804-2293

Western Global
Tel (011) 626 3607

WH Auctioneers (Pty) Ltd
Tel (011) 574-5700

Zurich Insurance Company South Africa (Ltd)
Tel (011) 370-9111

KWAZULU-NATAL- ASSOCIATE MEMBERS

Babcock Equipment
Tel (031) 700-6009 (Durban)
Tel (031) 569-8500

Bell Equipment Company
Tel (035) 907-9431
Tel (031) 569-1100

Bobcat Equipment South Africa
Tel (031) 700-6906

CSE Equipment Co
Tel (031) 705-3390

Desmond Equipment
Tel (031) 685-4100

Disa Equipment SA
Tel (039) 685-4100

Dynamic Weigh Systems
Tel (039) 975-3230

ELB Equipment
Tel (031) 700-6520

Hitachi Construction Machinery SA
Tel (031) 705-4360

High Power Equipment Africa
Tel (031) 705-1334

Kemach Equipment
Tel: (031) 700-8278

MB Plant SA
Tel: (031) 700 2258

Rankin Training Solutions
Tel: (031) 702 1896 (Pinetown)

Reef Insurance Consultants
Tel: (083) 407 4159

PORT ELIZABETH - ASSOCIATE MEMBERS

Babcock Equipment
Tel (041) 407-5900

CSE Equipment Company
Tel (041) 484-6240

Hitachi Construction Machinery SA
Tel (081) 374 0347

John Skinner Construction
Tel: (041) 586-2620

Kemach Cape
Tel: (041) 453-1819

WESTERN CAPE - ASSOCIATE MEMBERS

Bell Equipment Company
Tel (021) 380 -9000

Bobcat Equipment South Africa
Tel (021) 945-1423

Babcock Equipment
Tel (021) 380-4700 (Cape Town)

CSE Equipment Co
Tel (021) 380-2600

ELB Equipment
Tel (021) 933-2383

MB Plant SA
Tel: (021) 981 5514

ACCREDITED SETA TRAINING PROVIDERS

Goscor Hi-Reach
Tel (011) 908-4881

Transvaal Training
Tel (011) 975-7312 (JHB)

OFFICAL RATE GUIDE OF THE CONTRACTORS PLANT HIRE ASSOCIATION (CPHA)

The relevant CPHA Standard General Conditions Of Hire and / or Terms And Conditions Of Hire apply to all hire agreements.

Rates include operator wages, where applicable.
Rates exclude VAT, fuel, delivery and ground-engaging tools, where applicable

Rates exclude operator overtime, living-out-allowance and accommodation on site, where applicable.

INDEX

OFFICAL RATE GUIDE OF THE CONTRACTORS PLANT HIRE ASSOCIATION (CPHA)

INDEX continued

1. SPECIALISED ACCESS EQUIPMENT / MOBILE ELEVATING WORK PLATFORMS

Long-term hire (in excess of one month) rates may generally be negotiated with the hire company.
Rates include safety and machine operation familiarisation training of designated operators.
Daily rates based on a single-shift (max. 9hours) & weekly/ monthly rates on 5 workdays per week.
Delivery and collection to be quoted seperately depending on transport method.
Machine types stated as per working height in meters.

1.1 STATIC PERSONNEL LIFTS (PUSH-AROUND AWP's)

Type	Max. Working Height (m)	Daily Rate	Weekly Rate (5 days)	Monthly Rate (21 days)
DC-Powered Personnel Lift	8m	R 254,00	R 1 150,00	R 4 410,00
DC-Powered Personnel Lift	11m	R 300,00	R 1 360,00	R 5 208,00
DC-Powered Personnel Lift	14m	R 363,00	R 1 650,00	R 6 300,00

1.2 TRAILER MOUNTED ARTICULATED BOOM LIFTS

Type	Max. Working Height (m)	Daily Rate	Weekly Rate (5 days)	Monthly Rate (21 days)
Trailer-mount with hydraulic outriggers	12m	R 974,00	R 4 425,00	R 16 905,00
Trailer-mount with hydraulic outriggers	17m	R 1 778,00	R 8 080,00	R 29 799,00

1.3 ELECTRICAL SLAB SCISSORS LIFTS

Type	Max. Working Height (m)	Daily Rate	Weekly Rate (5 days)	Monthly Rate (21 days)
Elecrtic Push Around	4.3m	R 225,00	R 1 020,00	R 3 906,00
Scissor Lift	6.1m	R 426,00	R 1 940,00	R 7 392,00
Scissor Lift	7.9m	R 501,00	R 2 280,00	R 8 694,00
Scissor Lift	9.8m	R 689,00	R 3 130,00	R 11 949,00
Scissor Lift	11.6m	R 905,00	R 4 110,00	R 15 708,00
Scissor Lift	14m	R 1 101,00	R 5 000,00	R 19 110,00

1.4 DIESEL SCISSOR LIFTS (4x4)

Type	Max. Working Height (m)	Daily Rate	Weekly Rate (5 days)	Monthly Rate (21 days)
Diesel Scissor Lift	9.8m	R 1 458,00	R 6 625,00	R 25 305,00
Diesel Scissor Lift	12m	R 1 651,00	R 7 505,00	R 28 644,00
Diesel Scossor Lift	14m	R 1 956,00	R 8 890,00	R 33 957,00
Diesel Scissor Lift Megadeck	15.1m	R 2 492,00	R 11 325,00	R 43 260,00
Diesel Scissor Lift Megadeck	18.2m	R 2 910,00	R 13 225,00	R 50 505,00

1.5 ELECTRIC ARTICULATED BOOMLIFTS

Type	Max. Working Height (m)	Daily Rate	Weekly Rate (5 days)	Monthly Rate (21 days)
Electric Boom Lift	11m	R 1 899,00	R 8 630,00	R 32 949,00
Electric Boom Lift	12.5m	R 1 731,00	R 7 870,00	R 30 051,00
Electric Boom Lift	13.5m	R 1 296,00	R 5 895,00	R 22 491,00
Electric Boom Lift	14m	R 2 135,00	R 9 705,00	R 37 044,00
Electric Boom Lift	15.5m	R 2 218,00	R 10 085,00	R 38 493,00
Electric Boom Lift	20m	R 3 241,00	R 14 730,00	R 56 259,00

1.6 DIESEL ARTICULATED BOOM LIFTS (4x4)

Type	Max. Working Height (m)	Daily Rate	Weekly Rate (5 days)	Monthly Rate (21 days)
Diesel Articulated Boom Lift	12m	R 2 305,00	R 11 600,00	R 40 005,00
Diesel Articulated Boom Lift	15.5m	R 2 694,00	R 12 245,00	R 47 501,00
Diesel Articulated Boom Lift	17.6m	R 2 737,00	R 12 440,00	R 47 502,00
Diesel Articulated Boom Lift	20m	R 4 033,00	R 18 335,00	R 69 993,00
Diesel Articulated Boom Lift	26.2m	R 5 762,00	R 26 190,00	R 100 002,00
Diesel Articulated Boom Lift	40m	R 8 355,00	R 37 975,00	R 145 005,00
Diesel Articulated Boom Lift	43m	R 10 371,00	R 47 145,00	R 180 411,00

1.7 DIESEL TELESCOPIC BOOM LIFTS (4x4)

Type	Max. Working Height (m)	Daily Rate	Weekly Rate (5 days)	Monthly Rate (21 days)
Diesel Telescopic Boom Lift	14m	R 2 760,00	R 12 545,00	R 47 271,00
Diesel Telescopic Boom Lift	15.5m	R 2 881,00	R 13 095,00	R 50 001,00
Diesel Telescopic Boom Lift	20m	R 4 033,00	R 18 335,00	R 69 993,00
Diesel Telescopic Boom Lift	22m	R 4 408,00	R 20 035,00	R 76 503,00
Diesel Telescopic Boom Lift	26.2m	R 5 791,00	R 26 320,00	R 100 506,00
Diesel Telescopic Boom Lift	28m	R 6 059,00	R 27 540,00	R 105 147,00
Diesel Telescopic Boom Lift	36m	R 7 750,00	R 39 225,00	R 134 505,00
Diesel Telescopic Boom Lift	40m	R 8 816,00	R 40 070,00	R 153 006,00
Diesel Telescopic Boom Lift	43m	R 9 257,00	R 42 075,00	R 160 650,00
Diesel Telescopic Boom Lift	57m	R 14 117,00	R 64 165,00	R 245 007,00

1. SPECIALISED ACCESS EQUIPMENT / MOBILE ELEVATING WORK PLATFORMS

WHERE TO HIRE

Botswana	
Shumba Plant Hire (Maun)	(00267) 686-1100
GHF (Pty) Ltd (Phakalane)	(00267) 392-2885
Border	
Talisman Hire	0861 87 87 87
Free State	
Talisman Hire	0861 87 87 87
Gauteng	
Cubenco 194 (Vanderbijlpark)	(016) 931-9758
Eazi-Access Rental (Midrand)	086 100 eazi
Goscor Access Rental (Chloorkop)	(011) 393-6424
Skyjacks (Boksburg)	(011) 397 2730
Talisman Hire	0861 87 87 87
KwaZulu-Natal	
Goscor Access Rental (Pinetown)	(031) 700-6906
Need-A-Tool (Durban)	(031) 705-1470
Professional Access Rentals (Umbogintwini)	(031) 914-4488
Skyjacks (Umbogintwini)	(031) 914 4773
Talisman Hire	0861 87 87 87
Limpopo	
Talisman Hire	0861 87 87 87
Mpumalanga	
Cranes 4 Hire (Witbank)	(013) 696-1146
Cranes 4 Hire (Middelburg)	(083) 708-0473
Talisman Hire	0861 87 87 87

Namibia	
HireMAN	(00264) 612 228 185
Walvis Bay Plant & Tool Hire Services	(00264) 642-03787
Windhoek Hire Sales & Services (Windhoek)	+264 61 233693.
Northern Cape	
Talisman Hire	0861 87 87 87
North-West	
Talisman Hire	0861 87 87 87
Port Elizabeth	
Aerial Lift Rentals (Port Elizabeth)	(083) 708-0473
Barloworld Equipment The Cat Rental Store (PE)	(041) 486- 1303
Goscor Access Rental (Cape Town)	(021) 510-7307
Stelval Crane Hire (Epping Industrial)	(021) 534-4291
Sylco (Cape Town)	(021) 845-4494
Talisman Hire	0861 87 87 87
Swaziland	
TALISMAN Hire(Matsapha)	(00268) 2518 4210
Western Cape Cape	
Hiretech (Cape Town)	(021) 945-3317
Skyjacks (Paarden Eiland)	(021) 511 0870
Talisman Hire	0861 87 87 87

2. BACKHOE LOADERS (TLB's)

Mass (Ton)	Typical Makes & Models	Hourly Rate (Min. 9 hrs)
2- Wheel Drive		
8-9 Ton	Bell 315 SK; Hyundai H930S, CAT 422F	R 244,42
4- Wheel Drive		
6-7 Ton	CAT 416F	R 265,91
7-8 Ton	Bell 315 SK, Terex 820 & 840	R 266,40
8-9 Ton	CAT 428F; Terex 890, Case 580T	R 279,00
4- Wheel Drive & 4 Wheel Steer		
8-9 Ton	Case 695ST	R 317,60

WHERE TO HIRE

BOTSWANA

Babcock TCM Plant (Gaborone)	(00267) 393-6541
Excavator Hire (Gaborone)	(00267) 392-8392
Ngamiland Generator & Diesel Services (Maun)	(00267) 686-0253
Rhino Plant Hire (Gaborone)	(00267) 392-2512
Shumba Plant Hire (Maun)	(00267) 686-1100
Van & Truck Hire Hire (Gaborone)	(00267) 391-2280

BORDER

AE Plant Hire (East London)	(083) 654-99871
Allen & Clarke Civil Eng Contractors (East London)	(043) 726-2076
Anchor Plant Hire (East London)	(043) 745-0330
Bitline SA 1060 (Mthatha)	(047) 532 4691
Civil & General Contractors (Queenstown)	(045) 857-0176
Emandleni Trading Enterprises (Mthatha)	(047) 531 3975
Inyathi Plant Hire (Beacon Bay)	(043) 732-1124
Louwrens van der Walt Beleggings (Queenstown)	(083) 290 0959
Mvezo Plant Hire (East London)	(043) 745-0467
Orange Plant Hire (Queenstown)	(045) 839 2370
Plus Plant Hire (East London)	(043) 736-3541
Qush Plant Hire (Vincent)	(043) 050 4444
Riegers Hire (East London)	(043) 732-1464
Roberts Bros. Construction (East London)	(043) 748-2588
Rumdel (Cape) (East London)	(043) 748-6417
Seneca Civils (Pty) Ltd (Mathatha)	(082) 442 1545
Sokhulu Truck & Plant Hire (Matatiele)	(039) 737 4384
SL Contractors (East London)	(043) 745-2002
Ukamva Civils (Mthatha)	(047) 531 1007
Umso Construction (East London)	(043) 748-4747
Universal Equipment (Port Elizabeth)	(041) 453-1810
WC Plant Hire (Gonubie)	(043) 732-1833
Xesibe Construction (Lusikisiki)	(039) 253-7264

FREE STATE

Express Plant Hire (Bloemfontein)	(051) 436-4891
Sigg's Engineering & Projects (Sasolburg)	(016) 971-1204
T&F Construction (Vereeniging)	(016) 421-4656

GAUTENG

A1 Rigging & Engineering Services (Johannesburg)	(011) 609-2040
Active Construction & Equipment (Benoni)	(011) 425-4890/1
Alpha Plant & Services (Johannesburg)	(011) 827-9190
ALS Group (Centurion)	(012) 640 0040
A-Z Engineering & Plant Hire (Johannesburg)	(011) 462-7907
Barloworld Equipment Cat Rental Store (Isando)	(011) 929-0419

GAUTENG

Burma Plant Hire (Springs)	(071) 689-0711
C.A.T.S Plant Hire (Roodepoort)	(011) 474-4261
Cubenco 194 (Vanderbijlpark)	(016) 931-9758
EPH Plant Hire (Centurion)	(012) 660-3312
Hennop Crane Hire (Johannesburg)	(011) 828-0427
Hennox 170 (Johannesburg)	(011) 024 1057
Liviero & Son (Kyalami)	(011) 466-2644
L&R Civil (Fourways)	(086) 133 3667
Moorosi Plant Hire (Jet Park)	(084) 803 2826
Motsana Plant (Pretoria)	(012) 771 4732
Mzansi Plant Hire (Centurion)	(012) 669 3296
Ngaphambi Hire (Alberton)	(082) 071 3951
Paul Heslop Plant Services (JHB)	(086) 111-5422
PG Plant Hire (Pretoria)	(012) 803-8714
Platinum Mile Plant (Witkoppies)	(083) 388 5959
Pro-file Plant Hire (Johannesburg)	(016) 150-0533
Rail Plant Hire (Johannesburg)	(011) 968-9805
Rhino Excavator Hammers (Honeydew)	(086) 111-5422
Renico Plant Hire (Johannesburg)	(011) 794-1177
Richard Irons Plant Rentals (JHB)	(011) 315-1526
Rickharding Plant Hire (Kempton Park)	(011) 979 4052
Riviera Hire(Witkoppies)	(087) 941-1113
Sandton Plant Hire (Johannesburg)	(011) 805-308
Seneca Civils (Pty) Ltd (Mondeor)	(011) 941-3510
T&F Construction (Vereeniging)	(016) 421-4656
Theaco Roads & Earthworks (Vanderbijlpark)	(016) 451-3071
West Rand Plant Hire (Springs)	(011) 845-5160
West Rand Plant Hire (Orkney)	(018) 473-5551
West Reef Plant Hire (Heidelberg)	(011) 348-1499

KWAZULU-NATAL

Afroplant (Durban)	(031) 705-4490
Aqua Transport & Plant Hire (Pinetown)	(031) 716-2300
Barloworld Cat Rental Store (New Germany)	(031) 569-8500
City Park Trading (Mtubathuba)	(035) 550-1162
Devray Plant & Earthworks (Richards Bay)	(035) 751-2141
Dreykon (Dundee)	(034) 212-1246
Ekene Investments (Queensburgh)	(031) 767 1033
JCR Transport (Pinetown)	(031) 700-6833
Leomat Plant Hire (Richards Bay)	(035) 797-4611
GR Transport & Plant Hire (Darnall)	(035) 486-1903
Induna Logistics & Terminals (Richards Bay)	(035) 797 4100

2. BACKHOE LOADERS (TLB's) continued

WHERE TO HIRE

KWAZULU-NATAL continued	
LT Earthmovers (Wartburg)	(033) 503-1355
Mabona Civils & Plant Hire (Kokstad)	(039) 727 146
Major Machines (Merrivale)	(033) 330 5701
McKenzie Plant Hire (Richmond)	(033) 212-2181
Midmar Plant Hire (Westmead)	(031) 700-9061
Morgado Plant Hire (Durban)	(031) 569-4750
Pat Smith Plant Hire (Dundee)	(034) 218-1295
Protrans Plant & Civils (Port Shepstone)	(039) 6682 5695
Queensburgh Equipment Rental (Queensburgh)	(031) 464-7844
Raciti's Plant Hire (Estcourt)	(036) 352-5783
RADDS Transport (Empangeni)	(035) 787 3901
Sage Trans (Durban)	(031) 266 1492
Savemor Earthmoving (Durban)	(031) 702-9441
Sealcoat Surfacing & Asphalt (Pietermaritzburg)	(033) 386-8998
Scotty's Plant Hire (Durban)	(031) 700-8000
Scotty's Plant Hire (Pietermaritzburg)	(033) 386-1614
Sobuza Investments (Pinetown)	(031) 100 1023
Superdigger Plant Hire (Cliff Dale)	(031) 736 6010
Tony's Tool Hire (Dundee)	(034) 212-5232
Tony's Tool Hire (Newcastle)	(034) 312 8396
Tony's Tool Hire (Pongola)	(034) 413-3023
Tswella Trading (Kokstad)	(039) 727 5907
Ubunye Plant Hire (Queensburgh)	(031) 464-6551
Universal Trading (Jacobs)	(031) 461 5008
Upfold Plant Hire (Shelly Beach)	(087) 808 6914
VIP Construction cc (Pietermaritzburg)	(076) 399 4596

LIMPOPO	
Kingdom Plant (Tzaneen)	(015) 307-3950
Maruma Plant Hire (Pietersburg)	(015) 293-2902
Maruma Plant Hire (Pietersburg)	(015) 293-2902
Ovoscape Plant Hire (Polokwane)	(082) 716 3765
Quality Plant Hire (Tzaneen)	(015) 304-3000

MPUMALANGA	
ALS Group (Witbank)	(013) 689-1128
Ikotwe Plant Hire (White River)	(013) 750-1200
Isambane Mining (Middleburg)	(071) 681-9939
Khulani's Trading Enterprise cc (Middelburg)	(013) 244 5017
T&F Construction (Vereeniging)	(016) 421-4656
Tony's Tool Hire (Piet Retief)	(017) 826-4683

NAMIBIA	
Walvis Bay Plant & Tool Hire Services	(00264) 642-03787
Windhoek Hire Sales & Services (Windhoek)	+264 61 233693.

NORTHERN CAPE	
ALS Group (Upington)	(054) 334 -0140
Burma Plant Hire (Posmasburg)	(053) 313-3646
Igloo Plant Hire (Kathu)	(053) 723 1514
Ovoscape Plant Hire (Kuruman)	(082) 207 3797
T&F Construction (Vereeniging)	(016) 421-4656

NORTH-WEST	
ALS Group (Potchefstroom)	(018) 290-8070
Elmar Projects (Swartruggens)	(014) 544-0677
T&F Construction (Vereeniging)	(083) 306 4822

PORT ELIZABETH	
Algoa Plant Hire (Port Elizabeth)	(041) 453-2164
Burma Plant Hire (Port Elizabeth)	(041) 463-4033
C&C Moss Plant Hire (Port Elizabeth)	(083) 230-1548
DK Pringle Earthworks (Bedford)	(046) 685-0858
Lexintons Civil & Plant (Port Elizabeth)	(041) 372-1850
Newport Plant Hire (Port Elizabeth)	(041) 463-2819
Peter Rademeyer Plant Hire (Port Elizabeth)	(041) 365-0115
Rand Civils (Port Elizabeth)	(041) 581-7791
Sakhizwe Plant Hire (Port Elizabeth)	(082) 902 7000
Scribante Construction (Port Elizabeth)	(041) 484-7211
SJW Plant (Port Elizabeth)	(041) 372 1845
Techni Civils (Newton Park)	(041) 364-3240
Venter Plant Hire	(082) 655 7590

WESTERN CAPE	
Barloworld Cat Rental Store (Bellville)	(021) 959-8200
Burma Plant Hire (Kuilsrivier)	(021) 905-8122
Mainline Civil Engineering Contractors (Woodstock)	(021) 461 7499
Rainbow Plant Hire (Worcester)	(023) 347-0739
R. Ross & Son (Cape Town)	(021) 511-1204
Sylco (Cape Town)	(021) 845-4494
T&F Construction (Vereeniging)	(016) 421-4656
Transand (Hartenbos)	(044) 695-0105
Umhlaba Plant Hire (Kraaifontein)	(021) 987-1650/2

3. BULLDOZERS

Mass (ton)	Power (kW)		Hourly Rate Min. 9 hours
7 - 9	49 - 60	**Komatsu** D31, **CAT** D3	R 290,00
10 - 13	60 - 90	**Dressta** TD-10M; **CAT** D4K;	R 332,28
14 - 17	90 - 135	**CAT** D5K; **Liebherr** PR 724	R 403,73
18 - 20	125 - 135	**Liebherr** PR734; **Dressta** TD-14M, **CAT** D6R	R 485,49
21 - 25	135 - 165	**Dressta** TD-15M	R 582,57
26 - 30	160 - 175	**Liebherr** PR744; **Dressta** TD-20M, **CAT** D7R	R 765,98
31 - 35	200 - 410	**CAT** D8R	R 810,68
36 - 45	215 - 315	**Liebherr** PR754; **Dressta** TD-25M, **CAT** D9R	R 1 124,14
46 - 60	300 - 325	**Liebherr** PR 764	R 1 349,27
60 +	390 +	**Dressta** TD-40E	R 1 690,67

WHERE TO HIRE

BOTSWANA	
Babcock TCM Plant (Gaborone)	(00267) 393-6541
Excavator Hire (Gaborone)	(00267) 392-8392
Van & Truck Hire Hire (Gaborone)	(00267) 391-2280
BORDER	
AE Plant Hire (East London)	(083) 654-99871
Allen & Clarke Civil Engineering (East London)	(043) 726-2076
Civil & General Contractors (Queenstown)	(045) 857-0176
Inyathi Plant Hire (Beacon Bay)	(043) 732-1124
Plus Plant Hire (East London)	(043) 736-3541
Qush Plant Hire (Vincent)	(043) 050 4444
Riegers Hire (East London)	(043) 732-1464
Roberts Bros. Construction (East London)	(043) 748-2588
Rumdel (Cape) (East London)	(043) 748-6417
SL Contractors (East London)	(043) 745-2002
Umso Construction (East London)	(043) 748-4747
Universal Equipment (Port Elizabeth)	(041) 453-1810
WC Plant Hire (Gonubie)	(043) 732-1833
FREE STATE	
T&F Construction (Vereeniging)	(016) 421-4656
GAUTENG	
A-Z Engineering & Plant Hire (Johannesburg)	(011) 462-7907
Active Construction & Equipment (Benoni)	(011) 425-4890/1
ALS Group (Centurion)	(012) 640-0040
Barloworld Cat Rental Store (Isando)	(011) 929-0419
Basil Read Plant (Johannesburg)	(011) 418-6300
Burma Plant Hire (Springs)	(071) 689-0711
C.A.T.S Plant Hire (Roodepoort)	(011) 474-4261
Catkom Plant (Boksburg North)	(011) 892 0775
Diesel Power Group (Bredell)	(086) 196-1177
Eco Plant Hire (Kew)	(082) 555 0095
Hennox 170 (Johannesburg)	(011) 024 1057
K L T Machinery & Plant Hire	(011) 730-7501
Liviero & Son (Kyalami)	(011) 466-2644
MD Plant & Equipment Sales (Bryanston)	(011) 706-7275
PG Plant Hire (Pretoria)	(012) 803-8714

GAUTENG continued	
Rail Plant Hire (Johannesburg)	(011) 968-9805
Rhino Excavator Hammers (Honeydew)	(086) 111-5422
Sandton Plant Hire (Johannesburg)	(011) 805-3084
Spare Power Trading (Benoni)	(011) 845 4184
T&F Construction (Vereeniging)	(016) 421-4656
Theaco Road & Earthworks (Vanderbijlpark)	(016) 451-3071
West Rand Plant Hire (Springs)	(011) 845-5160
West Reef Plant Hire (Heidelberg)	(011) 348-1499
KWAZULU-NATAL	
ALS Group (Newcastle)	(034) 341-1636
Afro Plant (Durban)	(031) 705-4490
Aqua Transport & Plant Hire (Pinetown)	(031) 716-2300
Barloworld Cat Rental Store (New Germany)	(031) 569-8500
BB Transport (Glencoe)	(034) 393-1861
City Park Trading (Mtubathuba)	(035) 550-1162
Conan Construction (Pietermaritzburg)	(033) 346-2108
Dreykon (Dundee)	(034) 212-1246
Ekene Investments (Queensburgh)	(031) 767 1033
EXR Construction (Mount Edgecombe)	(031) 539-9100
GR Transport & Plant Hire (Darnall)	(035) 486-1903
Induna Logistics & Terminals (Richards Bay)	(035) 797 4100
Leomat Plant Hire (Empangeni)	(035) 797-4611
LT Earthmovers (Wartburg)	(033) 503-1355
Major Machines (Merrivale)	(033) 330 5701
Marlisha Transport (Westmead)	(031) 700 8616
McKenzie Plant Hire (Richmond)	(033) 212-2181
Motwell Plant Hire (Illovo Beach)	(082) 496 9673
Midmar Plant Hire (Westmead)	(031) 700-9061
Morgado Plant Hire (Durban)	(031) 569-4750
Scotty's Plant Hire (Durban)	(031) 700-8000
Scotty's Plant Hire (Pietermaritzburg)	(033) 386-1614
Superdigger Plant Hire (Cliff Dale)	(031) 736 6010
Ubunye Plant Hire (Queensburgh)	(031) 464-6551
Universal Trading (Jacobs)	(031) 461 5008

Coninued on next page

3. BULLDOZERS

WHERE TO HIRE

LIMPOPO	
Kingdom Plant (Tzaneen)	(015) 307-3950
Quality Plant Hire (Tzaneen)	(015) 304-3000

MPUMALANGA	
ALS Group (Witbank)	(013) 689-1128
Central Africa Machine Sales (Witbank)	(013) 691-2102
Cranes 4 Hire (Witbank)	(013) 696-1146
Cranes 4 Hire (Middleburg)	(013) 699-9701
Isambane Mining (Middleburg)	(071) 681-9939
Khulani's Trading Enterprise cc (Middelburg)	(013) 244 5017
T&F Construction (Vereeniging)	(016) 421-4656

NAMIBIA	
Roads Contractor Company (Windhoek)	(00264) 612 979 000

NORTHERN CAPE	
ALS Group (Upington)	(054) 334-0140
Burma Plant Hire (Posmasburg)	(053) 313-3646
T&F Construction (Vereeniging)	(016) 421-4656

NORTH-WEST	
ALS Group (Potchefstroom)	(018) 290-8070
Astrum Equipment (Brits)	(012) 003 2137
Elmar Projects (Swartruggens)	(014) 544-0677
T&F Construction (Vereeniging)	(083) 306 4822
West Rand Plant Hire (Orkney)	(018) 473-5551

PORT ELIZABETH	
Burma Plant Hire (Port Elizabeth)	(041) 463-4033
DK Pringle Earthworks (Bedford)	(046) 685-0858
Newport Plant Hire (Port Elizabeth)	(041) 463-2819
Rand Civils (Port Elizabeth)	(041) 581-7791
Scribante Construction (Port Elizabeth)	(041) 484-7211
Stu Davidson & Sons (Port Elizabeth)	(041) 581-7711
T&F Construction (Vereeniging)	(016) 421-4656
Venter Plant Hire	(082) 655 7590

WESTERN CAPE	
Barloworld Equipment The Cat Rental Store (Bellville)	(021) 959-8200
Burma Plant Hire (Kuilsrivier)	(021) 905-8122
Sylco (Cape Town)	(021) 845-4494
T&F Construction (Vereeniging)	(016) 421-4656
Transand (Hartenbos)	(044) 695-0105
Umhlaba Plant Hire (Kraaifontein)	(021) 987-1650/2

4. COMPRESSORS

DELIVERY and / or COLLECTION :

(1) LDV = R 6.68 per loaded kilometre, minimum charge = R 137.80

(2) Truck = R 11.35 per loaded kilometre, minimum charge = R 265.00

(3) Lowbed = R 16.75 per loaded kilometre, minimum charge = R 636.00

4.1 PORTABLE DIESEL COMPRESSORS

Capacity (cfm)	Daily Rate (Min. 9 hrs)	Monthly Rate (Min. 189 hrs)	Capacity (cfm)	Daily Rate (Min. 9 hrs)	Monthly Rate (Min. 189 hrs)
74	R 276,00	R 5 225,00	600	R 1 470,00	R 27 570,00
140	R 434,00	R 8 225,00	750	R 1 640,00	R 31 000,00
175	R 500,00	R 9 460,00	750, 12 bar	R 2 560,00	R 48 435,00
185	R 524,00	R 9 920,00	750, 14 bar	R 2 820,00	R 53 270,00
250	R 650,00	R 12 305,00	750, 21 bar	R 4 020,00	R 75 970,00
330	R 870,00	R 16 590,00	900	R 1 820,00	R 34 330,00
365	R 987,00	R 18 670,00	900, 20 bar	R 4 450,00	R 84 120,00
450	R 1 120,00	R 21 115,00	1000	R 2 020,00	R 38 210,00

4.1.1 ANCILLARY EQUIPMENT

Description	Daily Rate (Min. 9 hrs)	Monthly Rate (Min. 189 hrs)	Description	Daily Rate (Min. 9 hrs)	Monthly Rate (Min. 189 hrs)
Boulder buster	R 108,00	R 2 056,00	Hose, 50mm x 30m	R 138.00 / P62.00	R 2 570,00
Chisel	R 51.00 / P62.00	960.00 / P1553.00	Moil	R 51.00 / P273.00	R 960.00 / P5742.00
Chipping hammer	R 138.00 / P186.00	R 2570.00/ P4660.00	Moist trap	R 138,00	R 2 570,00
Clay spade	R 108,00	R 2 056,00	Paving breaker	R116.00 / P149.00	R 2190.00 / P3580.00
Drill Steel, 0.8m x 44mm	R 108,00	R 2 056,00	Plug & feather	R 100,00	R 1 885,00
Drill Steel, 1.2m x 38mm	R 108,00	R 2 056,00	Rock drill	R 138,00	R 2 570,00
Drill Steel, 1.6m x 36mm	R 119,00	R 2 228,00	Sand blast pot (incl. hoses)	R 326,00	R 6 170,00
Gunite rig (incl. wearpads & hoses)	R 1 270,00	On Request	Sand rammer	R 138,00	R 2 510,00
Hose, 20mm x 30m	R 81.00 / P50.00	R 1470.00 / P1044.00	Separator	R 138,00	R 2 510,00

WHERE TO HIRE

BOTSWANA	
Excavator Hire (Gaborone)	(00267) 32-8392
GHF (Pty) Ltd(Phakalane)	(00267) 392-2885
Jomaf Hiring Services (Gaborone)	(00267) 319-1585
Ngamiland Generator & Diesel Services (Maun)	(00267) 686-0253
BORDER	
Action Plant & Equipment (East London)	(043) 722-8294
Chalk-Air (East London)	(043) 743-8855
Civil & General Contractors (Queenstown)	(045) 857-0176
PeugAir (East London)	(043) 748-2423
Talisman Hire	0861 87 87 87
FREE STATE	
Able Delby Hire (Johannesburg)	(011) 334-6573
Talisman Hire	0861 87 87 87
GAUTENG	
Artic Driers (Benoni)	(011) 425-3484
Atlas Plant Hire (Midrand)	(011) 310-9313
Barloworld Equipment The Cat Rental Store (Isando)	(011) 929-0600
Bobcat Equipment Rentals Rentals (Alrode)	(011) 389-4460
City Air Rental (Wynberg)	(011) 262-2650
CompAir (Johannesburg)	(011) 345-2200

GAUTENG	
File Hire Plant (Johannesburg)	(011) 397-6463
Hard Hat Equipment Hire (Halfway House)	(011) 609-6443
Letsema Pneumatics & Logistics (Germiston)	(011) 873-8675
Ngaphambi Hire (Alberton)	(082) 071 3951
Performance Plant Hire (Randburg)	(011) 792-1224
Performance Plant Hire (Boksburg)	(011) 823-5480
Performance Plant Hire (Midrand)	(011) 312 5069
Propact Plant Hire (Johannesburg)	(011) 680-2137
Propact Plant Hire (Centurion)	(012) 653-0245
Rand-Air (Wadeville)	(011) 345-0700
Rebel Plant Hire (Johannesburg)	(011) 882-1048
Renttech South Africa Plant Rental SA (Wadeville)	(011) 824-0410
Talisman Hire	0861 87 87 87
KWAZULU-NATAL	
Atlas Plant Hire (Pinetown)	(031) 700 1724
Barloworld Equipment Cat Rental Store (New Germany)	(031) 569-8500
BB Transport (Glencoe)	(034) 393-1861
CompAir (Durban)	(031) 792-4270
Dreykon (Dundee)	(034) 212-1246
LM Plant Hire & Sales (Richards Bay)	(035) 789-0831

Continued on next page ....

4. COMPRESSORS continued

WHERE TO HIRE

KWAZULU-NATALcontinued	
Machinery Mart (Durban)	(031) 301-7069
Marlisha Transport (Westmead)	(031) 700 8616
Raciti's Plant Hire (Estcourt)	(036) 352-5783
Scotty's Plant Hire (Durban)	(031) 700-8000
Scotty's Plant Hire (Pietermaritzburg)	(033) 386-1614
Talisman Hire	0861 87 87 87

LIMPOPO	
Atlas Plant Hire (Lepelale)	(014) 763-6720
Talisman Hire	0861 87 87 87

MPUMALANGA	
Ikotwe Plant Hire (White River)	(013) 750-1200
Performance Plant Hire (Witbank)	(013) 692-7441

MPUMALANGA Continued	
Steinmuller Plant & Equipment Hire	(017) 624-5000
Talisman Hire	0861 87 87 87

NAMIBIA	
HireMAN	(00264) 612 228 185
Walvis Bay Plant & Tool Hire Services	(00264) 642-03787
Windhoek Hire Sales & Services(Windhoek)	00264 8112-89990

NORTHERN CAPE	
Rand Air (Kimberley)	(053) 861-2851

NORTH-WEST	
Atlas Plant Hire (Rustenburg)	(014) 569-5951
Astrum Equipment (Brits)	(012) 003 2137
Elmar Projects (Swartruggens)	(014) 544-0677
Talisman Hire	0861 87 87 87

PORT ELIZABETH	
Atlas Plant Hire (Port Elizabeth)	(041) 451-4266
Barloworld Equipment The Cat Rental Store (PE)	(041) 486- 1303
CompAir (Port Elizabeth)	(041) 487-2867
PeugAir (Port Elizabeth)	(041) 451-2722
Talisman Hire	0861 87 87 87
Venter Plant Hire	(082) 655 7590

Swaziland	
TALISMAN Hire(Matsapha)	(00268) 2518 4210

WESTERN CAPE	
Barloworld Cat Rental Store (Bellville)	(021) 959-8200
Bobcat Equipment Rentals Rental (Cape Town)	(021) 945-1423
Chalk-Air (Cape Town)	(021) 931-9155
CompAir (Cape Town)	(021) 535-5032
Hiretech (Cape Town)	(021) 945-3317
Talisman Hire	0861 87 87 87

4.2 PORTABLE ELECTRIC COMPRESSORS

Capacity (cfm)	Daily Rate (Min. 9 hrs)	Monthly Rate (Min. 189 hrs)	Capacity (cfm)	Daily Rate (Min. 9 hrs)	Monthly Rate (Min. 189 hrs)
4 to 8	R 165.00	R3120.00	280	R 753,00	R 14 220,00
9 to 14	R203.00	R 3840.00	300	R 1 038,00	R 19 600,00
60	R 305,00	R 5 760,00	400	R 1 188,00	R 22 445,00
80	R 332,00	R 6 305,00	500	R 1 272,00	R 24 055,00
90	R 347,00	R 6 545,00	650	R 1 392,00	R 26 280,00
125	R 502,00	R 9 375,00	750	R 1 722,00	R 32 550,00
170	R 555,00	R 10 485,00	800	R 1 722,00	R 34 195,00
200	R 647,00	R 12 230,00	900	R 1 915,00	R 36 180,00
250	R 695,00	R 13 155,00	1320	R 2 873,00	R 54 310,00

4.2.1 ANCILLARY EQUIPMENT

Description	Daily Rate (Min. 9 hrs)	Monthly Rate (Min. 189 hrs)	Description	Daily Rate (Min. 9 hrs)	Monthly Rate (Min. 189 hrs)
Air-receiver tanks	R 751,00	R 14 220,00	525 / 380 volt, 250 Kva	R 321,00	R 6 030,00
Chipping hammer	R 138,00	R 2 570,00	525 / 380 volt, 300 Kva	R 321,00	R 6 030,00
Paving breaker	R 118,00	R 2 190,00	6600 / 380 volt, 300 Kva	R 350,00	R 6 610,00
Rock drills	R 138,00	R 2 570,00	6600 / 380 volt, 800 Kva	R 382,00	R 7 230,00
Sand rammers	R 138,00	R 2 570,00	Transformer cables (4-core armoured) :		
Step-down transformers :			35mm x 10m	R 43,00	R 820,00
525 / 380 volt, 50 Kva	R 256,00	R 4 865,00	70mm x 10m	R 68,00	R 1 265,00
525 / 380 volt, 200 Kva	R 321,00	R 6 030,00	95mm x 10m	R 76,00	R 1 440,00

WHERE TO HIRE

BOTSWANA	
GHF (Pty) Ltd (Phakalane)	(00267) 392-2885
Jomaf Hiring Services (Gaborone)	(00267) 319-1585
Ngamiland Generator & Diesel Services (Maun)	(00267) 686-0253

BORDER	
Action Plant & Equipment (East London)	(043) 722-8294
Chalk-Air (East London)	(043) 743-8855
Civil & General Contractors (Queenstown)	(045) 857-0176

Continued on next page ....

4.2.1 ANCILLARY EQUIPMENT continued

WHERE TO HIRE

BORDER Continued	
Riegers Hire (East London)	(043) 732-1464
Talisman Hire	0861 87 87 87
Universal Equipment (Port Elizabeth)	(041) 453-1810
FREE STATE	
Talisman Hire	0861 87 87 87
GAUTENG	
Able Delby Hire (Johannesburg)	(011) 334-6573
Artic Driers (Benoni)	(011) 425-3484
Atlas Plant Hire (Midrand)	(011) 310-9313
Atlas Plant Hire (Rustenburg)	(014) 569-5951
Babcock Plant Services (Johannesburg)	(011) 418-4407
Barloworld Equipment The Cat Rental Store (Isando)	(011) 929-0600
Bobcat Equipment Rentals Rentals (Alrode)	(011) 389-4460
City Air Rental (Wynberg)	(011) 262-2650
CompAir (Johannesburg)	(011) 345-2200
File Hire Plant (Johannesburg)	(011) 397-6463
Hard Hat Equipment Hire (Halfway House)	(011) 609-6443
Letsema Pneumatics & Logistics (Germiston)	(011) 873-8675
Ngaphambi Hire (Alberton)	(082) 071 3951
Performance Plant Hire (Randburg)	(011) 792-1224
Performance Plant Hire (Boksburg)	(011) 823-5480
Performance Plant Hire (Midrand)	(011) 312 5069
Rand-Air (Wadeville)	(011) 345-0700
Renttech South Africa Plant Rental SA (Wadeville)	(011) 824-0410
Talisman Hire	0861 87 87 87
KWAZULU-NATAL	
Atlas Plant Hire (Pinetown)	(031) 700 1724
Babcock Plant Services (Durban)	(031) 705-2733
Barloworld Equipment The Cat Rental Store (New Germany	(031) 569-8500
BB Transport (Glencoe)	(034) 393-1861
B&B Plant & Equipment (Empangeni)	(035) 787-0679
CompAir (Durban)	(031) 792-4270
EXR Construction (Mount Edgecombe)	(031) 539-9100
LM Plant Hire & Sales (Richards Bay)	(035) 789-0831
Machinery Mart (Durban)	(031) 301-7069
Marlisha Transport (Westmead)	(031) 700 8616
Need-A-Tool (Durban)	(031) 705-1470

KWAZULU-NATAL continued	
Talisman Hire	0861 87 87 87
Tony's Tool Hire (Dundee)	(034) 212-5232
Tony's Tool Hire (Newcastle)	(034) 312 8396
Tony's Tool Hire (Pongola)	(034) 413-3023
LIMPOPO	
Atlas Plant Hire (Lepelale)	(014) 763-6720
Talisman Hire	0861 87 87 87
MPUMALANGA	
Babcock Plant Services (Secunda)	(017) 631-2847
Babcock Plant Services (Middelburg)	(013) 246-2870
Ikotwe Plant Hire (White River)	(013) 750-1200
Performance Plant Hire (Witbank)	(013) 692-7441
Talisman Hire	0861 87 87 87
Tony's Tool Hire (Piet Retief)	(017) 826-4683
NAMIBIA	
HireMAN	264 612 228 185
Windhoek Hire Sales & Services(Windhoek)	00264 8112-89990
NORTH-WEST	
Atlas Plant Hire (Rustenburg)	(014) 569-5951
Astrum Equipment (Brits)	(012) 003 2137
Elmar Projects (Swartruggens)	(014) 544-0677
Talisman Hire	0861 87 87 87
PORT ELIZABETH	
Atlas Plant Hire (Port Elizabeth)	(041) 451-4266
CompAir (Port Elizabeth)	(041) 487-2867
PeugAir (Port Elizabeth)	(041) 451-2722
Talisman Hire	0861 87 87 87
Venter Plant Hire	(082) 655 7590
Swaziland	
TALISMAN Hire(Matsapha)	(00268) 2518 4210
WESTERN CAPE	
Barloworld Equipment Cat Rental Store (Bellville)	(021) 959-8200
Bobcat Equipment Rentals Rental (Cape Town)	(021) 945-1423
Chalk-Air (Cape Town)	(021) 931-9155
CompAir (Cape Town)	(021) 535-5032
Hiretech (Cape Town)	(021) 945-3317
Talisman Hire	0861 87 87 87

5. CONCRETE EQUIPMENT

DELIVERY *and / or* ***COLLECTION*** *: (1) LDV = R 8.00 per loaded kilometre, minimum charge = R 165.36*
(2) Truck = R 13.36 per loaded kilometre, minimum charge = R 318.00

DEPOSIT *: Minimum of 5 days hire payable on collection or delivery*

5.1 CONCRETE BUCKETS

Type	Capacity	Daily Rate (Min. 9 hrs)	Monthly Rate (Min. 21 days)	Type	Capacity	Daily Rate (Min. 9 hrs)	Monthly Rate (Min. 21 days)
Banana	0.25 m3	R 99,00	R 1 745,00	Round	0.25 m3	R 119,00	R 2 060,00

5.2 CONCRETE DUMPERS

Type	Capacity	Daily Rate (Min. 9 hrs)	Monthly Rate (Min. 21 days)	Type	Capacity	Daily Rate (Min. 9 hrs)	Monthly Rate (Min. 21 days)
Gravity Tip	0.4 m3	R 452,00	R 8 565,00	Hydraulic, 2x4	1.0 m3	R 593,00	R 11 135,00
Gravity Tip	0.6 m3	R 508,00	R 9 594,00	Hydraulic, 4x4	1.0 m3	R 633,00	R 11 990,00

5.3 CONCRETE MIXERS

Type	Capacity	Daily Rate (Min. 9 hrs)	Monthly Rate (Min. 21 days)	Type	Capacity	Daily Rate (Min. 9 hrs)	Monthly Rate (Min. 21 days)
Diesel / Petrol	175 litre	R 209,00	R 3 940,00	Diesel / Petrol	350 litre	R 633,00	R 11 990,00
Diesel / Petrol	200 litre	R 263,00	R 4 970,00	Diesel / Petrol	400 litre	R 723,00	R 13 705,00
Diesel / Petrol	250 litre	R 327,00	R 6 160,00	Electric	100 litre	R 146,00	R 2 740,00
Diesel / Petrol	300 litre	R 452,00	R 8 565,00	Electric	175 litre	R 181,00	R 3 420,00

5.4 CONCRETE SAWS

BLADE USEAGE *: (1) Asphalt = R 220.00 per millimetre (2) Concrete = R 363.00 per millimetre*

Type	Capacity	Daily Rate (Min. 9 hrs)	Monthly Rate (Min. 21 days)	Type	Capacity	Daily Rate (Min. 9 hrs)	Monthly Rate (Min. 21 days)
Manually propelled	9.5 kW / 13HP	R 209,00	R 3 940,00	Self propelled	13,5 kW / 18 HP	R 354.00	R 6680.00
Manually propelled	12 kW / 16HP	R 254.00	R 4795.00	Self propelled	26 kW / 37 HP	R 325,00	R 6 133,00

5.5 CONCRETE SCREED BEAMS

Type	Length (m)	Daily Rate (Min. 9 hrs)	Monthly Rate (Min. 21 days)
Aluminium, complete with motor	4,2	R 226,00	R 4 225,00
Aluminium, complete with motor	5,2	R 246,00	R 4 670,00
Aluminium, complete with motor	6,2	R 271,00	R 5 115,00

5.6 CONCRETE TROWELS / POWER FLOATS

Type	Polishing Diameter	Daily Rate (Min. 9 hrs)	Monthly Rate (Min. 21 days)	Type	Capacity	Daily Rate (Min. 9 hrs)	Monthly Rate (Min. 21 days)
Walk behind, without blades	1 100 mm	R 191,00	R 3 600,00	Walk behind, with blades	1 100 mm	R 326,00	R 6 170,00

5.7 CONCRETE VIBRATORS

Type	Daily Rate (Min. 9 hrs)	Monthly Rate (Min. 21 days)	Type	Daily Rate (Min. 9 hrs)	Monthly Rate (Min. 21 days)
Diesel / Petrol, drive unit only	R125.00	R2400.00	Pokers, 26 mm to 75 mm	R125.00	R2400.00
Diesel / Petrol, high frequency drive drive unit only	R 182,00	R 3 450,00	High frequency pokers, 26mm to 75 mm	R 157,00	R 2 960,00

5. CONCRETE EQUIPMENT

WHERE TO HIRE

BOTSWANA

Excavator Hire (Gaborone)	(00267) 32-8392
GHF (Pty) Ltd (Phakalane)	(00267) 392-2885
Jomaf Hiring Services (Gaborone)	(00267) 319-1585
Ngamiland Generator & Diesel Services (Maun)	(00267) 686-0253
Shumba Plant Hire (Maun)	(00267) 686-1100

BORDER

Action Plant & Equipment (East London)	(043) 722-8294
Civil & General Contractors (Queenstown)	(045) 857-0176
Inyathi Plant Hire (Beacon Bay)	(043) 732-1124
Talisman Hire	0861 87 87 87

FREE STATE

Express Plant Hire (Bloemfontein)	(051) 436-4891
Talisman Hire	0861 87 87 87

GAUTENG

Barloworld Equipment The Cat Rental Store (Isando)	(011) 929-0600
Brackenwest Hardware & Hire (Johannesburg)	(011) 867-6224

GAUTENG

File Hire Plant (Johannesburg)	(011) 397-6463
Hard Hat Equipment Hire (Halfway House)	(011) 609-6443
Paul Heslop Plant Services (Johannesburg)	(086) 111-5422
Performance Plant Hire (Randburg)	(011) 792-1224
Performance Plant Hire (Boksburg)	(011) 823-5480
Performance Plant Hire (Midrand)	(011) 312 5069
Propact Plant Hire (Johannesburg)	(011) 680-2137
Propact Plant Hire (Centurion)	(012) 653-0245
Rebel Plant Hire & Sales (Johannesburg)	(011) 882-1048
Renttech South Africa Plant Rental SA (Wadeville)	(011) 824-0410
Talisman Hire	0861 87 87 87
Theaco Road & Earthworks (Vanderbijlpark)	(016) 451-3071
Turner Morris (Johannesburg)	(011) 618-2620

KwaZulu-Natal

B&B Plant & Equipment (Empangeni)	(035) 787-0679
Barloworld Cat Rental Store (New Germany)	(031) 569-8500
BB Transport (Glencoe)	(034) 393-1861
EXR Construction (Mount Edgecombe)	(031) 539-9100

Please continue to next page .....

5. CONCRETE EQUIPMENT Continued

WHERE TO HIRE

KwaZulu-Natal	
Hire Anything (Richards Bay)	(035) 789-5997
Leomat Plant Hire (Empangeni)	(035) 797-4611
Machinery Mart (Durban)	(031) 301-7069
Need-A-Tool (Durban)	(031) 705-1470
Scotty's Plant Hire (Durban)	(031) 700-8000
Scotty's Plant Hire (Pietermaritzburg)	(033) 386-1614
Talisman Hire	0861 87 87 87
Tony's Tool Hire (Dundee)	(034) 212-5232
Tony's Tool Hire (Newcastle)	(034) 312 8396
Tony's Tool Hire (Pongola)	(034) 413-3023

LIMPOPO	
Talisman Hire	0861 87 87 87

Mpumalanga	
Performance Plant Hire	(013) 692-7441
Talisman Hire	0861 87 87 87
Tony's Tool Hire (Piet Retief)	(017) 826-4683

Namibia	
HireMAN	(00264) 612 228 185

NORTHERN CAPE	
Talisman Hire	0861 87 87 87

NORTH-WEST	
Elmar Projects (Swartruggens)	(014) 544-0677
Talisman Hire	0861 87 87 87

PORT ELIZABETH	
Atlas Plant Hire (Port Elizabeth)	(041) 451-4266
Scribante Construction (Port Elizabeth)	(041) 484-7211
Talisman Hire	0861 87 87 87

Swaziland	
TALISMAN Hire(Matsapha)	(00268) 2518 4210

WESTERN CAPE	
Barloworld Equipment The Cat Rental Store (Bellville)	(021) 959-8200
Burma Plant Hire (Kuilsrivier)	(021) 905-8122
Talisman Hire	0861 87 87 87

6. CRANES

Long-term hire (in excess of six weeks) rates may be negotiated with the hire company. For cranes from 5 t - 50 t, a 6 hour minimum (plus site establishment) is chargeable for one day's hire. For cranes from 5 t - 50 t, a 9 hour minimum (plus site establishment) is chargeable for more than one day on site. For cranes over 50 t, a 10 hour minimum (plus site establishment) is chargeable for each day on site Weekend rates are generally 10% higher than those indicated below .Site establishment will be determined by the client's specific requirements and site location.Generally, site establishment charge for local area = time travelled x rate. ***All cranes are to be insured on site***

6.1 ALL-TERRAIN HYDRAULIC CRANES

Capacity		Minimum Site	Jobbing (1 - 4 Days)		Medium Term (5 Days - 6 Weeks)	
(ton)		Establishment	Min. hrs	Rate / hr	Min. hrs	Rate / hr
18		R 1 374,00	6 or 9	R 687,00	9	R 614,00
20		R 1 128,00	6 or 9	R 564,00	9	R 520,00
25		R 1 366,00	6 or 9	R 683,00	9	R 594,00
27,5		R 1 572,00	6 or 9	R 786,00	9	R 691,00
30		R 1 592,00	6 or 9	R 796,00	9	R 713,00
35		R 2 290,00	6 or 9	R 1 145,00	9	R 1 007,00
40		R 2 462,00	6 or 9	R 1 231,00	9	R 1 081,00
50		R 2 228,00	6 or 9	R 1 114,00	9	R 980,00
55		R 2 632,00	6 or 9	R 1 316,00	9	R 1 160,00
60	* Site establishment quoted is for the crane only. Lowbed transport for the counterweight to be quoted at the time of requirement as it is dependant on quantity of counterweight required.	R 2 640,00	10	R 1 320,00	10	R 1 216,00
65		R 2 556,00	10	R 1 725,00	10	R 1 535,00
70		R 3 266,00	10	R 1 633,00	10	R 1 426,00
*80		R 3 806,00	10	R 1 903,00	10	R 1 737,00
90		R 4 196,00	10	R 2 098,00	10	R 1 906,00
100		R 4 566,00	10	R 2 283,00	10	R 2 064,00
*120		R 4 860,00	10	R 2 430,00	10	R 2 207,00
150		R 25 920,00	10	R 3 240,00	10	R 2 850,00
160		R 27 540,00	10	R 3 267,00	10	R 2 821,00
*180		R 29 171,00	10	R 3 706,00	10	R 3 353,00
220		R 31 504,00	10	R 4 185,00	10	R 3 661,00
250		R 32 737,00	10	R 4 229,00	10	R 3 808,00
*275		R 33 847,00	10	R 4 377,00	10	R 3 946,00
300		R 36 580,00	10	R 4 455,00	10	R 4 158,00
*330		R 39 312,00	10	R 5 197,00	10	R 4 547,00
400		R 43 243,00	10	R 5 197,00	10	R 4 826,00
*550		R 47 570,00	10	R 6 075,00	10	R 5 315,00

6.2 ROUGH-TERRAIN HYDRAULIC CRANES

Capacity	Minimum Site	Jobbing (1 - 4 Days)		Medium Term (5 Days - 6 Weeks)	
(ton)	Establishment	Min. hrs	Rate / hr	Min. hrs	Rate / hr
12,5	POA	6 or 9	R 371,00	9	R 332,00
13,6	POA	6 or 9	R 450,00	9	R 405,00
15	POA	6 or 9	R 444,00	9	R 396,00
16	POA	6 or 9	R 508,00	9	R 454,00
18	POA	6 or 9	R 556,00	9	R 497,00
20	POA	6 or 9	R 571,00	9	R 499,00
23	POA	6 or 9	R 639,00	9	R 579,00
25	POA	6 or 9	R 652,00	9	R 579,00
27,5	POA	6 or 9	R 788,00	9	R 666,00
30	POA	6 or 9	R 752,00	9	R 668,00
32	POA	6 or 9	R 859,00	9	R 765,00
40	POA	6 or 9	R 1 046,00	9	R 922,00
45	POA	6 or 9	R 1 039,00	9	R 891,00
50	POA	6 or 9	R 1 126,00	9	R 992,00

6. CRANES continued

6.3 TRUCK-MOUNTED HYDRAULIC CRANES

Capacity (ton)	Minimum Site Establishment	Jobbing (1 - 4 Days) Min. hrs	Jobbing (1 - 4 Days) Rate / hr	Medium Term (5 Days - 6 Weeks) Min. hrs	Medium Term (5 Days - 6 Weeks) Rate / hr
8	R 600,00	6 or 9	R 300,00	9	R 263,00
20	R 1 134,00	6 or 9	R 567,00	9	R 516,00
30	R 1 514,00	6 or 9	R 757,00	9	R 678,00
50	R 2 266,00	6 or 9	R 1 133,00	9	R 996,00
55	R 2 294,00	10	R 1 147,00	9	R 1 071,00
65	R 3 324,00	10	R 1 662,00	10	R 1 481,00
70	R 3 680,00	10	R 1 840,00	10	R 1 369,00
* 80	R 3 616,00	10	R 1 808,00	10	R 1 590,00
* 90	R 3 818,00	10	R 1 909,00	10	R 1 754,00
* 112	R 4 044,00	10	R 2 022,00	10	R 1 802,00
* 130	R 5 176,00	10	R 2 588,00	10	R 2 306,00
* 135	R 5 538,00	10	R 2 769,00	10	R 2 468,00
* 140	R 23 441,00	10	R 2 929,00	10	R 2 577,00

* Site establishment quoted is for the crane only. Lowbed transport for the counterweight to be quoted at the time of requirement as it is dependant on quantity of counterweight required.

6.4 TRUCK-MOUNTED LATTICE BOOM CRANES

Capacity (ton)	Jobbing (1 - 4 Days) Min. hrs	Jobbing (1 - 4 Days) Rate / hr	Medium Term (5 Days - 6 Weeks) Min. hrs	Medium Term (5 Days - 6 Weeks) Rate / hr
40	6 to 9	R 927,00	9	R 826,00
45	6 to 9	R 996,00	9	R 888,00
50	6 to 9	R 1 068,00	9	R 950,00
55	10	R 1 145,00	10	R 1 022,00
150	10	R 3 118,00	10	On request
250	10	R 4 158,00	10	On request
400	10	R 6 750,00	10	On request

6.5 RIGGING CREW AND EQUIPMENT

Minimum 0f R 992.00 per hour, subject to site inspection and equipment required

6.6 TOWER CRANES

Capacity kg @ m	Capacity kg @ m	Height (m)	Rate / month (200 hrs)
750 @ 20.0	1500 @ 11.2	14.5 - 20.0	R 12 694,00
1000 @ 30.0	4000 @ 9.4	20.0 - 25.8	R 19 040,00
1250 @ 45.0	8000 @ 10.6	16.0 - 32.8	R 39 667,00
(All three above are self-erector type)			
1000 @ 40.0	4000 @ 13.6	32,8	R 21 420,00
1500 @ 45.0	8000 @ 11.4	40,0	R 39 667,00
2100 @ 45.0	8000 @ 13.4	40,0	R 41 253,00
2500 @ 45.0	10000 @ 14.0	40,0	R 42 642,00

Capacity kg @ m	Capacity kg @ m	Height (m)	Rate / month (200 hrs)
2600 @ 50.0	10000 @ 14.5	60,0	R 46 013,00
2900 @ 50.0	12000 @ 14.6	61,0	R 48 592,00
2500 @ 55.0	12000 @ 15.6	55,0	R 51 567,00
1700 @ 60.0	8000 @ 14.6	48,0	R 48 592,00
2900 @ 50.0	12000 @ 15.7	46,0	R 65 452,00
2800 @ 60.0	12000 @ 17.6	55,0	R 83 300,00
3000 @ 60.0	12000 @ 16.9	64,5	R 89 251,00

WHERE TO HIRE

Botswana	
Johnson Crane Hire (Gaborone)	(00267) 393-2551
Van & Truck Hire Hire (Gaborone)	(00267) 391-2280
Shumba Plant Hire (Maun)	(00267) 686-1100

Border	
Civil & General Contractors (Queenstown)	(045) 857-0176
Present Civils (East London)	(043) 745-1014
Roberts Bros. Construction (East London)	(043) 748-2588
Rumdel (Cape) (East London)	(043) 748-6417

FREE STATE	
Anglo / V3 Crane Hire (Bloemfontein)	(051) 435-8632
Anglo / V3 Crane Hire (Welkom)	(057) 396-4138/9
Babcock Plant Services (Sasolburg)	(016) 976-1075
Delta Crane and Plant Hire (Vaalpark)	(016) 971-1101

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6. CRANES continued

WHERE TO HIRE

GAUTENG

A1 Rigging & Engineering Services (JNB)	(011) 609-2040
Africrane (Benoni) (082) 412-7392 /	(011) 968 0136
African Crane Services (Bryanston)	(084) 811 0886
Anglo / V3 Crane Hire (Halfway House)	(011) 805-8071
Atlas Crane Hire (Johannesburg)	(011) 842-2300
Babcock Plant Services (Johannesburg)	(011) 418-4407
Carry Deck Crane Rentals (Brakpan)	(011) 915-0184
Chimes Crane Hire (Germiston)	(011) 626-1110
Cleveland Crane Hire (Heriotdale)	(011) 626-1029
Cranecom (Apex)	(011) 421-3848
Cubenco 194 (Vanderbijlpark)	(016) 931-9758
Delta Crane & Plant Hire (Vanderbijlpark)	(082) 902 7140
Fred's Crane Hire Services (Vereeniging)	(016) 422-5142
Hennop Crane Hire (Johannesburg)	(011) 828-0427/9
Howden Africa (Pty) Ltd (Johannesburg)	(011) 240-4204
Imperial Crane Hire (Johannesburg)	(011) 873-1410
ITL Plant Hire (Linmeyer)	(011) 436-0493
JMB Cranes (Klip River)	(011) 021 1038
Johnson Crane Hire (Head Office)	(011) 455-9222
Johnson Crane Hire (Johannesburg)	(011) 455-9200
Johnson Crane Hire (Vanderbijlpark)	(016) 986-1295
Johnson Crane Hire Heavy Lift	(011) 455-9222
Jumbo Machine Moving (Alrode)	(011) 100-0908
Liviero & Son (Kyalami)	(011) 466-2644
Mammoet Southern Africa (Johannesburg)	(011) 882-4499
Marlboro Crane Hire (Johannesburg)	(011) 882-8301/2
Sarens South Africa (Pty) Ltd (Johannesburg)	(011) 861-3800
Superlift Crane Hire (Johannesburg)	(011) 963-0146

KWAZULU-NATAL

Anglo / V3 Crane Hire (Newcastle)	(034) 318-5818
Anglo / V3 Crane Hire (Richards Bay)	(035) 751-1798
Aqua Transport & Plant Hire (Pinetown)	(031) 716-2300
Babcock Plant Services (Durban)	(031) 705-2733
BB Transport (Glencoe)	(034) 393-1861
EXR Construction (Mount Edgecombe)	(031) 539-9100
Elcon Crane Hire (Durban)	(031) 466-5411
Elcon Crane Hire (Richards Bay)	(035) 751-1284
Johnson Crane Hire (Durban)	(031) 466-6515
Richards Bay Crane Hire (Richards Bay)	(035) 751-1339

Limpopo

Babcock Plant Services (Lephalale)	(079) 827-9227
Johnson Crane Hire (Lephalale)	(083) 327-7077

MPUMALANGA

Babcock Plant Services (Secunda)	(017) 639-1474
Babcock Plant Services (Middleburg)	(013) 246-2870
Central Africa Machine Sales (Witbank)	(013) 691-2102
Cranes 4 Hire (Witbank)	(013) 696-1146
Cranes 4 Hire (Middelburg)	(013) 699-9701
Delta Crane and Plant Hire (Kendal)	(016) 971-1101
F&K Hire (Middleburg)	(013) 246-1701
Johnson Crane Hire (Burgersfort)	(082) 900-8224
Johnson Crane Hire (Trichardt)	(017) 638-0047
Johnson Crane Hire (Middelburg)	(013) 246-1344
Ritchie Crane Hire (Witbank)	(013) 697-5111
Sasol Secunda Shared Services (Secunda)	(017) 610-2039
Steinmuller Plant & Equipment Hire	(017) 624-5000

NAMIBIA

Concord Crane Hire (Okahandja)	+264 81 375 6560
Walvis Bay Plant & Tool Hire Services	(00264) 642-03787
Wesbank Transport (Walvis Bay)	(00264) 6421 6000
Windhoek Hire Sales & Services (Windhoek)	+264 61 233693.

NORTHERN CAPE

Allied Crane Hire (Sishen)	(073) 133 5120
Johnson Crane Hire (Kathu)	(053) 791 0000

NORTH-WEST

Allied Crane Hire (Rustenburg)	(082) 325-9525
Anglo / V3 Crane Hire (Rustenburg)	(082) 821 6055
Babcock Plant Services (Rustenburg)	(082) 810-1229
Crane Corporation (Rustenburg)	(014) 538-1461
Johnson Crane Hire (Rustenburg)	(014) 596-6684

PORT ELIZABETH

Castlehill Crane Hire(Port Elizabeth)	(041) 486-1070
Uitenhage Super Steel Crane & Plant Hire (Uitenhage)	(041) 922-8060

WESTERN CAPE

Allied Crane Hire (Airport Industria)	(021) 386-4555
Johnson Crane Hire (Cape Town)	(021) 535-1001
Stelval Crane Hire (Epping Industrial)	(021) 534-4291
Sylco (Cape Town)	(021) 845-4494
Babcock Target (Belville)	(021) 951-8088

7. DRILL RIGS

Rates include one 50mm x 30m hose
Rates include one operator per rig, but rod assistant to be supplied by the hirer at the hirer's cost
Rates exclude all extension equipment (consumables) which must be purchased outright
Rates exclude delivery to site, operator overtime and operator accommodation

Type	Daily Rate (Min. 9 hrs)	Monthly Rate (Min. 21 days)
Down the hole (DTH)	On Request	On Request
Hydraulic	R 4 690,00	R 88 610,00
Pneumatic, excluding compressor	R 2 555,00	R 48 310,00
Pneumatic, including compressor	R 3 660,00	R 69 170,00

WHERE TO HIRE

BORDER	
Action Plant & Equipment (East London)	(043) 722-8294

FREE STATE	
Express Plant Hire (Bloemfontein)	(051) 436-4891

GAUTENG & NORTH-WEST	
Barloworld Equipment The Cat Rental Store (Isando)	(011) 929-0600

PORT ELIZABETH	
Barloworld Equipment The Cat Rental Store (PE)	(041) 486- 1303
Venter Plant Hire	(082) 655 7590

WESERN CAPE	
Burma Plant Hire (Kuilsrivier)	(021) 905-8122

8. EXCAVATORS

8.1 TRACKED EXCAVATORS

Mass (Ton)	Typical Makes & Models	Power (Kw)	Hourly Rate (Min. 9 hrs)
2 to 6	Doosan DX55; Hyundai R35Z-9, R60-9S	15 -40	R 240,00
7 to 10	Hyundai R80-7; JCB 8085ZTS	40 - 55	R 252,89
11 to 14	Doosan DX140LC	55 -70	R 318,86
15 to18	CAT320D, Sumitomo SH160-5	70 - 90	R 391,83
19 to 22	CAT 323D, Doosan DX 220A, DX 225LCA; Hyundai R 220LC-9SH; JCB JS 205HD, JS 200SC Liebherr R900C; Sumitomo SH210-5	70 - 105	R 410,95
23 to 26	Doosan Solar 225LC-V; Hyundai R300LC-9S; JCB JS 240SC; Sumitomo SH 240-5; Liebherr R906, R916;	105 - 125	R 452,61
27 to 30	CAT 329D, Liebherr R926; Sumitomo SH 300-5; Doosan DX 300LCA	120 - 150	R 553,00
31 to 35	Doosan DX 340LCA; JCB JS 290 LC, JC 330 LC; Liebherr R934; Sumitomo SH330-5	150 - 180	R 590,34
36 to 40	CAT 336D, 340D, JCB JS 360LC; Liebherr R944; Sumitomo SH350-5	150 - 180	R 776,77
41 to 45	Doosan Solar 420LC-V; JCB JS 460LC	200 - 230	R 801,00
46 to 50	CAT 349D, Sumitomo SH460-5, SH480-5	180 - 225	R 869,70
51 to 60	Doosan DX 520LCA; Hyundai R520 LC-9S; Liebherr R954 C	210 - 290	R 930,66
61 to 70	Liebherr R964C; Sumitomo SH700-5	240 - 310	R 1 359,79
71 to 80	CAT 374D, Doosan DX700; Hyundai R800LC-7	310 - 330	R 1 621,80
81-100	CAT 390D, Liebherr R974HD; Sumitomo SH800-5		R 1 845,28
101 to 110	Liebherr R974 SHD	410 - 510	R 2 482,53

WHERE TO HIRE

BOTSWANA

Babcock TCM Plant (Gaborone)	(00267) 393-6541
Excavator Hire (Gaborone)	(00267) 392-8392
Rhino Plant Hire (Gaborone)	(00267) 392-2512
Van & Truck Hire Hire (Gaborone)	(00267) 391-2280

BORDER

AE Plant Hire (East London)	(083) 654-99871
Allen & Clarke Civil Engineering (East London)	(043) 726-6041
Anchor Plant Hire (East London)	(043) 745-0330
Bitline SA 1060 (Mthatha)	(047) 532 4691
Civil & General Contractors (Queenstown)	(045) 857-0176
Louwrens van der Walt Beleggings (Queenstown)	(083) 290 0959
Plus Plant Hire (East London)	(043) 736-3541
Qush Plant Hire (Vincent)	(043) 050 4444
Riegers Hire (East London)	(043) 732-1464
Roberts Bros. Construction (East London)	(043) 748-2588
Rumdel (Cape) (East London)	(043) 748-6417
Seneca Civils (Pty) Ltd (Mathatha)	(082) 442 1545
SL Contractors (East London)	(043) 745-2002
Sokhulu Truck & Plant Hire (Matatiele)	(039) 737 4384
Ukamva Civils (Mthatha)	(047) 531 1007
Umso Construction (East London)	(043) 748-4747
WC Plant Hire (Gonubie)	(043) 732-1833
Xesibe Construction (Lusikisiki)	(039) 253-7264

FREE STATE

Express Plant Hire (Bloemfontein)	(051) 436-4891
Sigg's Engineering & Projects (Sasolburg)	(016) 971-1204
T&F Construction (Vereeniging)	(016) 421-4656

GAUTENG

A1 Rigging & Engineering Services (Johannesburg)	(011) 609-2040
Alpha Plant & Service (Johannesburg)	(011) 827-9190
ALS Group (Centurion)	(012) 640-0040
A-Z Engineering & Plant Hire (Johannesburg)	(011) 462-7907
Barloworld Equipment The Cat Rental Store (Isando)	(011) 929-0419
Basil Read Plant (Johannesburg)	(011) 823-1913/4
Bears Plant Hire (Johannesburg)	(0861) 232-777
Bobcat Equipment Rentals Rentals (Alrode)	(011) 389-4460
C.A.T.S Plant Hire (Roodepoort)	(011) 474-4261
Elmar Projects (Swartruggens)	(014) 544-0677
EPH Plant Hire (Centurion)	(012) 660-3312
Hire Rite Equipment (Boksburg)	(011) 894-8311
Hennox 170 (Johannesburg)	(011) 024 1057
K L T Machinery & Plant Hire	(011) 730-7501
Liviero & Son (Kyalami)	(011) 466-2644
L & J Gemmel Plant Services (Benoni)	(011) 965-1463
Maximum Plant Hire (Fourways)	(011) 464-0930/1
MD Plant & Equipment Sales (Bryanston)	(011) 706-7275
Moorosi Plant Hire (Jet Park)	(084) 803 2826
Paul Heslop Plant Services (Johannesburg)	(086) 111-5422
PG Plant Hire (Pretoria)	(012) 803-8714
Plant Technical Services (Johannesburg)	(011) 794-1628
PG Plant Hire (Pretoria)	(012) 803-8714
Plant Technical Services (Johannesburg)	(011) 794-1628
Pro-file Plant Hire (Johannesburg)	(016) 150-0533
Protech Plant (Johannesburg)	(082) 373-4484
Rail Plant Hire (Johannesburg)	(011) 968-9805

8.1 TRACKED EXCAVATORS continued

WHERE TO HIRE

GAUTENG continued	
Renico Plant Hire (Johnnesburg)	(011) 794-1177
Rhino Excavator Hammers (Honeydew)	(086) 111-5422
Richard Irons Plant Rentals (Johannesburg)	(011) 315-1526
Sandton Plant Hire (Johannesburg)	(011) 805-3084
Seneca Civils (Pty) Ltd (Mondeor)	(011) 941-3510
Spare Power Trading (Benoni)	(011) 845 4184
T&F Construction (Vereeniging)	(016) 421-4656
Theaco Road & Earthworks (Vanderbijlpark)	(016) 451-3071/2
West Rand Plant Hire (Springs)	(011) 845-5160
West Rand Plant Hire (Orkney)	(018) 473-5551
West Reef Plant Hire (Heidelberg)	(011) 348-1499
KWAZULU-NATAL	
Afro Plant (Durban)	(031) 705-4490
ALS Group (Newcastle)	(034) 341-1636
Aqua Transport & Plant Hire (Pinetown)	(031) 716-2300
Barloworld Cat Rental Store (New Germany)	(031) 569-8500
BB Transport (Glencoe)	(034) 393-1861
Bobcat Equipment Rentals Rental	(035) 751-1511
City Park Trading (Mtubathuba)	(035) 550-1162
Conan Construction (Pietermaritzburg)	(033) 346-2108
Devray Plant & Earthworks (Richards Bay)	(035) 751-2141
Desmond's Trans. & Plant Hire (Port Shepstone)	(039) 685-4100
Dreykon (Dundee)	(034) 212-1246
Dudula Civils (Pietermartizburg)	(033) 346 4121
Ekene Investments (Queensburgh)	(031) 767 1033
GR Transport & Plant Hire (Darnall)	(035) 486-1903
Induna Logistics & Terminals (Richards Bay)	(035) 797 4100
Izimu Mining Services (Pinetown)	(031) 701-1069
JCR Transport (Pinetown)	(031) 700-6833
Leomat Plant Hire (Empangeni)	(035) 797-4611
LT Earthmovers (Wartburg)	(033) 503-1355
Mabona Civils & Plant Hire (Kokstad)	(039) 727 146
Major Machines (Merrivale)	(033) 330 5701
Marlisha Transport (Westmead)	(031) 700 8616
McKenzie Plant Hire (Richmond)	(033) 212-2181
Midmar Plant Hire (Westmead)	(031) 700-9061
Morgado Plant Hire (Durban)	(031) 569-4750
Motwell Plant Hire (Illovo Beach)	(082) 496 9673
Pat Smith Plant Hire (Dundee)	(034) 218-1295
Protrans Plant & Civils (Port Shepstone)	(039) 6682 5695
Queensburgh Equipment Rental (Queensburgh)	(031) 464-7844
RADDS Transport(Empangeni)	(035) 787 3901
Sage Trans (Durban)	(031) 266 1492
Savemor Earthmoving	(031) 702-9441
Superdigger Plant Hire (Cliff Dale)	(031) 736 6010
Scotty's Plant Hire	(033) 386-1653

KWAZULU-NATALcontinued	
Scotty's Plant Hire	(031) 700-8000
Sobuza Investments (Pinetown)	(031) 100 1023
Ubunye Plant Hire (Queensburgh)	(031) 464-6551
Universal Trading (Jacobs)	(031) 461 5008
Upfold Plant Hire (Shelly Beach)	(087) 808 6914
VIP Construction cc (Pietermaritzburg)	(076) 399 4596
LIMPOPO	
Assert Plant Hire (Polokwane)	(014) 763-6720
Kingdom Plant (Tzaneen)	(015) 307-3950
Maruma Plant Hire (Pietersburg)	(015) 293-2902
Quality Plant Hire (Tzaneen)	(015) 304-3000
MPUMALANGA	
ALS Group (Witbank)	(013) 689-1128
Isambane Mining (Middleburg)	(071) 681-9939
Khulani's Trading Enterprise cc (Middelburg)	(013) 244 5017
Opsicol Mining Services (Middelburg)	(013) 612-0503
T&F Construction (Vereeniging)	(016) 421-4656
NAMIBIA	
Roads Contractor Company	(00264) 612 979 000
Windhoek Hire Sales & Services	0264 61 233693
Windhoek Renovations	(00264) 6123-6159
NORTHERN CAPE	
ALS Group (Upington)	(054) 334-0140
Igloo Plant Hire (Kathu)	(053) 723 1514
Ovoscape Plant Hire (Kuruman)	(082) 207 3797
T&F Construction (Vereeniging)	(016) 421-4656
NORTH-WEST	
ALS Group (Potchefstroom)	(018) 290-8070
T&F Construction	(083) 306 4822
PORT ELIZABETH	
Burma Plant Hire (Port Elizabeth)	(041) 463-4033
DK Pringle Earthworks (Bedford)	(046) 685-0858
Lexintons Civil & Plant (Port Elizabeth)	(041) 372- 1850
Newport Plant Hire (Port Elizabeth)	(041) 463-2819
Rand Civils (Port Elizabeth)	(041) 581-7791
Scribante Construction (Port Elizabeth)	(041) 484-7211/2
Stu Davidson & Sons (Port Elizabeth)	(041) 581-7711
T&F Construction	(016) 421-4656
Venter Plant Hire	(082) 655 7590
WESTERN CAPE	
Barloworld Equipment The Cat Rental Store (Bellville)	(021) 959-8200
Bobcat Equipment Rentals Rental (Cape Town)	(021) 945-1423
Iselula Crushing (Cape Town)	(021) 945-3317
Sylco (Cape Town)	(021) 845-4494
T&F Construction	(016) 421-4656
Transand (Hartenbos)	(044) 695-0105

8.2 WHEELED EXCAVATORS on next page .....

8.2 WHEELED EXCAVATORS

Mass (Ton)	Typical Makes & Models	Power (Kw)	Hourly Rate (Min. 9 hrs)
10 to 12	Liebherr A308, A301B	45 - 60	R 310,00
13 to 15	Hyundai R140W-9S,	60 - 75	R 349,96
16 to 18	Doosan 180W-V	70 - 115	R 483,82
19 to 22	CAT M318, Liebherr A904C	100 -120	R 554,28
23-25	Hyundai R210W-9S		R 594,00

WHERE TO HIRE

BOTSWANA	
Excavator Hire (Gaborone)	(00267) 392-8392
Rhino Plant Hire (Gaborone)	(00267) 392-2512
BORDER	
Bitline SA 1060 (Mthatha)	(047) 532 4691
Mvezo Plant Hire (East London)	(043) 745-0467
Norland Plant Holdings (East London)	(043) 736-6548
Plus Plant Hire (East London)	(043) 736-3541
Qush Plant Hire (Vincent)	(043) 050 4444
Riegers Hire (East London)	(043) 732-1464
Rumdel (Cape) (East London)	(043) 748-6417
Sokhulu Truck & Plant Hire (Matatiele)	(039) 737 4384
Seneca Civils (Pty) Ltd (Mathatha)	(082) 442 1545
SL Contractors (East London)	(043) 745-2002
Umso Construction (East London)	(043) 748-4747
Xesibe Construction (Lusikisiki)	(039) 253-7264
FREE STATE	
Sigg's Engineering & Projects (Sasolburg)	(016) 971-1204
T&F Construction	(016) 421-4656
GAUTENG	
Active Construction & Equipment (Benoni)	(011) 425-4890/1
ALS Group (Centurion)	(012) 640-0040
Barloworld Cat Rental Store (Isando)	(011) 929-0419
Bobcat Equipment Rentals Rentals (Alrode)	(011) 389-4460
Burma Plant Hire (Springs)	(071) 689-0711
C.A.T.S Plant Hire (Roodepoort)	(011) 474-4261
Catkom Plant (Boksburg North)	(011) 892 0775
Diesel Power Group (Bredell)	(086) 196-1177
Eco Plant Hire (Kew)	(082) 555 0095
EPH Plant Hire (Centurion)	(012) 660-3312
Hire Rite Equipment (Boksburg)	(011) 894-8311
L & J Gemmel Plant Services (Benoni)	(011) 965-1463
L&R Civil (Fourways)	(086) 133 3667
MD Plant & Equipment Sales (Bryanston)	(011) 706-7275
Moorosi Plant Hire (Jet Park)	(084) 803 2826
Paul Heslop Plant Services	(086) 111-5422
Protech Projects (Johannesburg)	(011) 444-8011/2/3
Renico Plant Hire (Johnnesburg)	(011) 794-1177
Rhino Excavator Hammers (Honeydew)	(086) 111-5422
Rickharding Plant Hire (Kempton Park)	(011) 979 4052
Riviera Hire(Witkoppies)	(087) 941-1113
Sandton Plant Hire (Johannesburg)	(011) 805-2084
T&F Construction (Vereeniging)	(016) 421-4656
Theaco Road & Earthworks	(016) 51-3071/2
West Reef Plant Hire (Heidelberg)	(011) 348-1499

KWAZULU-NATAL	
Afro Plant (Durban)	(031) 705-4490
ALS Group (Newcastle)	(034) 341-1636
Aqua Transport & Plant Hire (Pinetown)	(031) 716-2300
Barloworld Cat Rental Store (New Germany)	(031) 569-8500
BB Transport (Glencoe)	(034) 393-1861
Bobcat Equipment Rentals Rental	(035) 751-1511
City Park Trading (Mtubathuba)	(035) 550-1162
Conan Construction (Pietermaritzburg)	(033) 346-2108
Devray Plant & Earthworks (Richards Bay)	(035) 751-2141
Desmond's Trans. & Plant Hire (Port Shepstone)	(039) 685-4100
Dudula Civils (Pietermartizburg)	(033) 346 4121
Ekene Investments (Queensburgh)	(031) 767 1033
EXR Construction (Mount Edgecombe)	(031) 539-9100
GR Transport & Plant Hire (Darnall)	(035) 486-1903
Hennox 170 (Empangeni Rail)	(035) 787 3901
Induna Logistics & Terminals (Richards Bay)	(035) 797 4100
Hennox 170 (Empangeni Rail)	(035) 787 3901
Induna Logistics & Terminals (Richards Bay)	(035) 797 4100
JCR Transport (Pinetown)	(031) 700-6833
Leomat Plant Hire (Empangeni)	(035) 797-4611
LT Earthmovers (Wartburg)	(033) 503-1355
Mabona Civils & Plant Hire (Kokstad)	(039) 727 146
Major Machines (Merrivale)	(033) 330 5701
Marlisha Transport (Westmead)	(031) 700 8616
McKenzie Plant Hire (Richmond)	(033) 212-2181
Midmar Plant Hire (Westmead)	(031) 700-9061
Morgado Plant Hire (Durban)	(031) 569-4750
Pat Smith Plant Hire (Dundee)	(034) 218-1295
Queensburgh Equipment Rental (Queensburgh)	(031) 464-7844
RADDS Transport(Empangeni)	(035) 787 3901
Sage Trans (Durban)	(031) 266 1492
Savemor Earthmoving	(031) 702-9441
Scotty's Plant Hire	(033) 386-1653
Scotty's Plant Hire	(031) 700-8000
Sobuza Investments (Pinetown)	(031) 100 1023
Superdigger Plant Hire (Cliff Dale)	(031) 736 6010
Tswella Trading (Kokstad)	(039) 727 5907
Ubunye Plant Hire (Queensburgh)	(031) 464-6551
Universal Trading (Jacobs)	(031) 461 5008
Upfold Plant Hire (Shelly Beach)	(087) 808 6914
LIMPOPO	
Assert Plant Hire (Polokwane)	(014) 763-6720
Kingdom Plant (Tzaneen)	(015) 307-3950
Ovoscape Plant Hire (Polokwane)	(082) 716 3765
Quality Plant Hire (Tzaneen)	(015) 304-3000

8.2 WHEELED EXCAVATORS continued

WHERE TO HIRE

MPUMALANGA	
ALS Group (Witbank)	(013) 689-1128
Central Africa Machine Sales (Witbank)	(013) 691-2102
Ikotwe Plant Hire (White River)	(013) 750-1200
Isambane Mining (Middleburg)	(071) 681-9939
Opsicol Mining Services (Middelburg)	(013) 612-0503
T&F Construction	(016) 421-4656

NAMIBIA	
Windhoek Hire Sales & Services (Windhoek)	+264 61 233693.
Windhoek Renovations (Windhoek)	(00264) 6123-6159

NORTHERN CAPE	
ALS Rentals (Upington)	(054) 334-0190
Burma Plant Hire (Posmasburg)	(053) 313-3646
Igloo Plant Hire (Kathu)	(053) 723 1514
Ovoscape Plant Hire (Kuruman)	(082) 207 3797
T&F Construction	(016) 421-4656

NORTH-WEST	
ALS Group (Potchefstroom)	(018) 290-8070
T&F Construction	(083) 306 4822

PORT ELIZABETH	
Algoa Plant Hire (Port Elizabeth)	(041) 453-2164
Burma Plant Hire (Port Elizabeth)	(041) 463-4033
DK Pringle Earthworks (Bedford)	(046) 685-0858
Lexintons Civil & Plant (Port Elizabeth)	(041) 372- 1850
Newport Plant Hire (Port Elizabeth)	(041) 463-2819
Rand Civils (Port Elizabeth)	(041) 581-7791
Sakhizwe Plant Hire (Port Elizabeth)	(082) 902 7000
Scribante Construction (Port Elizabeth)	(041) 484-7211/2
SJW Plant (Port Elizabeth)	(041) 372 1845
Stu Davidson & Sons (Port Elizabeth)	(041) 581-7711
Techni Civils (Newton Park)	(041) 364-3240

WESTERN CAPE	
Barloworld Equipment The Cat Rental Store (Bellville)	(021) 959-8200
Bobcat Equipment Rentals Rental (Cape Town)	(021) 945-1423
Burma Plant Hire (Kuilsrivier)	(021) 905-8122
Mainline Civil Engineering Contractors (Woodstock)	(021) 461 7499
T&F Construction	(016) 421-4656
Transand (Hartenbos)	(044) 695-0105

9. FORESTRY PLANT & EQUIPMENT

DESCRIPTION	MODEL	MAKE	MASS	POWER (KW)	RATE (P/hour)
Feller Buncher	Disc	John Deere 643	13 Ton	127	R 415,00
Forwarder	Self load F111 Crane	Volvo A25D	25 Ton	224	R 498,00
Forwarder	Self load F111 Crane	Volvo A30D	30 Ton	252	R 570,00
Forwarder	Tip Deck	Bell T17D 20	20 Ton	205	R 416,00
Log Loaders	Grapple 4,2m2	Sisu RTD 920	32 Ton	167	R 684,00
Logger	Grapple 0,35m2	Bell 225 5,5	5.5 Ton	45	R 124,00
Skidder	Cable	Cat 525B 15 400	15 400kg	134	R 290,00
Skidder	Cable	John Deere 540G	10 355kg	96	R 279,00
Skidder	Grapple	Cat 525B	16 000kg	134	R 321,00
Harvester / processor	Lako	4 W/D 650 Cat 320C	22 000kg	103	R 575,00
Hareverster / processor	Waratah 616 3 W/D	Simitomo SH200	22 000kg	103	R 616,00
De Barker	Bell 2 W/D	Volvo EC210	21 500kg	107	R 350,00
Intergrated Tool Carrier	IT14G	Cat IT14G	8 450kg	73	R 232,00
Skidsteer Loaders	226B	Cat 226B	3 000kg	42,5	R 100,00
Wheel Loaders	950G Sii	Cat 950G Sii	17 000kg	183	R 350,00

WHERE TO HIRE

GAUTENG / NORTH-WEST	
T&F Construction (Vereeniging)	(016) 421-4656
KWAZULU-NATAL	
Hire Anything (Richards Bay)	(035) 789-5997
MPUMALANGA	
Forestry Plant & Equipment Sales (Nelspruit)	(013) 755-1003
Opsicol Mining Services (Middelburg)	(013) 612-0503

10. FORKLIFTS

RATES EXCLUDE DELIVERY TO SITE

MASS (Ton)	Hourly Rate (Min. 9 hrs)	MASS (Ton)	Hourly (Min. 9 hrs)
0,5	R 189,00	6	R 547,00
1	R 211,00	7	R 650,00
2	R 273.00	10	R 690,00
3	R 297,00	11	R 797,00
4	R 363,00	12	R 836,00
5	R 407,00	14	R 927,00

WHERE TO HIRE

BOTSWANA	
Shumba Plant Hire (Maun)	(00267) 686-1100

BORDER	
Civil and General Contractors (Queenstown)	(045) 857-0176
Universal Equipment (Port Elizabeth)	(041) 453-1810

Free State	
Babcock Plant Services (Sasolburg)	(016) 976-1075

GAUTENG & NORTH-WEST	
A1 Rigging & Engineering Services (Johannesburg)	(011) 609-2040
Babcock Plant Services (Johannesburg)	(011) 418-4407
Babcock Plant Services (Rustenburg)	(082) 810-1229
Cubenco 194 (Vanderbijlpark)	(016) 931-9758
Hennox 170 (Johannesburg)	(011) 024 1057
Linde Material Handling (Sandton)	(011) 723-7000
MD Plant & Equipment Sales (Bryanston)	(011) 706-7275

KWAZULU-NATAL	
Babcock Plant Services (Durban)	(031) 705-2733
BB Transport (Glencoe)	(034) 393-1861
Induna Logistics & Terminals (Richards Bay)	(035) 797 4100
Protrans Plant & Civils (Port Shepstone)	(039) 6682 5695
RADDS Transport (Empangeni)	(035) 787 3901
Scotty's Plant Hire (Durban)	(031) 700-8000
Scotty's Plant Hire (Pietermaritzburg)	(033) 386-1614
Universal Trading (Jacobs)	(031) 461 5008

LIMPOPO	
Babcock Plant Services (Lepelale)	(079) 827-9227

MPUMALANGA	
Babcock Plant Services (Secunda)	(017) 631-2847
Babcock Plant Services (Middelburg)	(013) 246-2870

NAMIBIA	
Walvis Bay Plant & Tool Hire Services	(00264) 642-03787
Wesbank Transport (Walvis Bay)	(00264) 6421 6000
Windhoek Hire Sales & Services (Windhoek)	+264 61 233693.

WESTERN CAPE	
Burma Plant Hire (Kuilsrivier)	(021) 905-8122
Sylco Plant Hire (Cape Town)	(021) 845-4494

11. FUNCTIONS & CATERING EQUIPMENT

RATES EXCLUDE DELIVERY TO SITE AND ARE DAILY RATES

Description	Daily Rate	Description	Daily Rate
Bains-Marie	R 500.00	Banquetibg Cabinets	R 800,00
Chaffing Dishes	R 50,00	Glasses (Per Item)	R 1.50 - R 5.00
Braai, Barrel	R 59.00 / P 236.00	Cutlery / crockery (per item)	R 1,50
Braai, spit	R 250,00	Marquees; Variuos colours & sizes	On Application
Carvery Units	R 450,00	Overlays	R 13,00
Chairs, Padded Conference	R 37,00	Tablecloths	R 30,00
Chairs, Plastic White	R 9.00	Tablecloths, rectangular	R 35,00
Conference Tables	R 30,00	Tablecloths, round	R 45.00 - R 80.00
Round Tables 1.2m 1.5m 1.8m	R35.00 - R60.00	Tables, Rectangular Folding	R 33,00
Coctail Tbles	R 110,00	Tables, Round (0.9m - 1.8m)	R 35.00 - R75.00
Caribbean Umberella 3mx3m	R 250,00	Urns	R 80,00
Gas Ovens	R 750,00		

WHERE TO HIRE

GAUTENG & NOTH-WEST	
MPR Hiring (Johannesburg)	(011) 835-1054
Performance Plant Hire (Randburg)	(011) 792-1224
Performance Plant Hire (Boksburg)	(011) 823-5480
Performance Plant Hire (Midrand)	(011) 312 5069
Performance Plant Hire (Boksburg)	(011) 823-5480
KWAZULU-NATAL	
Aggreko South Africa (Durban)	(031) 534-6702
Hire Anything (Richards Bay)	(035) 789-5997

KWAZULU-NATAL	
Tony's Tool Hire (Dundee)	(034) 212-5232
Tony's Tool Hire (Newcastle)	(034) 312 8396
Tony's Tool Hire (Pongola)	(034) 413-3023
MPUMALANGA	
Performance Plant Hire	(013) 692-7441
Tony's Tool Hire (Piet Retief)	(017) 826-4683

12. GENERATORS

RATES EXCLUDE DELIVERY TO SITE AND ARE DAILY RATES

Description	Daily Rate (Min. 9 hrs)	Description	Daily Rate (Min. 9 hrs)
Diesel - 15 Kva	R 523,00	Diesel - 600 kVA	R 3 485,00
Diesel - 30 kVA	R 658,00	Petrol - 4 kVA	R 158,00
Diesel - 60 KVA	R 1310.00	Petrol - 5 kVA	R 190.00
Diesel - 100 kVA	R 2 265,00	Petrol - 7 kVA	R262.00
Diesel - 500 kVA	R 2 615,00	Petrol - 15 kVA	R 436,00

WHERE TO HIRE

BOTSWANA	
Excavator Hire (Gaborone)	(00267) 392-8392
Jomaf Hiring Services (Gaborone)	(00267) 319-1585
Ngamiland Generator & Diesel Services (Maun)	(00267) 686-0253
Shumba Plant Hire (Maun)	(00267) 686-1100
BORDER	
Action Plant & Equipment (East London)	(043) 722-8294
Talisman Hire	0861 87 87 87
Universal Equipment (Port Elizabeth)	(041) 453-1810
FREE STATE	
Babcock Plant Services (Sasolburg)	(016) 976-1075
Barloword Cat Rental Store (Sasolburg)	(016) 976-1184
Talisman Hire	0861 87 87 87
GAUTENG	
A1 Rigging & Engineering Services (JHB)	(011) 609-2040
Able Delby Hire (JHB)	(011) 334-6573
Afritool-Rent (Johannesburg)	(011) 974-2819
Aggreko Energy Rental SA (Olifontsfontein)	(011) 357-8900
Atlas Plant Hire (Midrand)	(011) 310-9313
Atlas Plant Hire (Rustenburg)	(014) 569-5951
Babcock Plant Services (Johannesburg)	(011) 418-4407
Barloworld Cat Rental Store (Isando)	(011) 929-0600
Brackenwest Hardware & Hire	(011) 867-6224
File Hire Plant (Boksburg)	(011) 397-6463
Generator & Plant Hire (Midrand)	(011) 312-0446
Hard Hat Equipment Hire (Halfway House)	(011) 609-6443
Performance Plant Hire (Randburg)	(011) 792-1224
Performance Plant Hire (Boksburg)	(011) 823-5480
Performance Plant Hire (Midrand)	(011) 312 5069
Propact Plant Hire (Johannesburg)	(011) 680-2137
Propact Plant Hire (Centurion)	(012) 653-0245
Rand-Air (Wadeville)	(011) 345-0700
Rebel Plant Hire (Johannesburg)	(011) 882-1048
Renttech South Africa Plant Rental SA (Wadeville)	(011) 824-0410
Talisman Hire	0861 87 87 87
Turner Morris (Johannesburg)	(011) 618-2620
Atlas Plant Hire (Pinetown)	(031) 700 1724
Aggreko South Africa (Durban)	(031) 534-6702

KWAZULU -NATAL	
Babcock Plant Services (Durban)	(031) 705-2733
Barloworld Cat Rental Store (New Germany)	(031) 569-8500
B&B Plant & Equipment (Empangeni)	(035) 787-0679
BB Transport (Glencoe)	(034) 393-1861
Barloworld Cat Rental Store (New Germany)	(031) 569-8500
B&B Plant & Equipment (Empangeni)	(035) 787-0679
BB Transport (Glencoe)	(034) 393-1861
EXR Construction (Mount Edgecombe)	(031) 539-9100
BB Transport (Glencoe)	(034) 393-1861
EXR Construction (Mount Edgecombe)	(031) 539-9100
Generator & Plant Hire (Durban)	(031) 466-4515
Generator & Plant Hire (Richards Bay)	(035) 751-1897
Hire Anything (Richards Bay)	(035) 789-5997
Machinery Mart (Durban)	(031) 301-7069
Need-A-Tool (Durban)	(031) 705-1470
Pro-hydraulics/Viper-Generator Hiring (New Germany)	(031) 705-4104
Scotty's Plant Hire (Durban)	(031) 700-8000
Scotty's Plant Hire (Pietermaritzburg)	(033) 386-1614
Talisman Hire	0861 87 87 87
Tony's Tool Hire (Dundee)	(034) 212-5232
Tony's Tool Hire (Newcastle)	(034) 312 8396
Tony's Tool Hire (Pongola)	(034) 413-3023
LIMPOPO	
Atlas Plant Hire (Lepelale)	(014) 763-6720
Babcock Plant Services (Lepelale)	(079) 827-9227
Kingdom Plant (Tzaneen)	(015) 307-3950
Ovoscape Plant Hire (Polokwane)	(082) 716 3765
Talisman Hire	0861 87 87 87
MPUMALANGA	
Afritool-Rent (Secunda)	(017) 639-1433
Babcock Plant Services (Secunda)	(017) 631-2847
Babcock Plant Services (Middelburg)	(013) 246-2870
Ikotwe Plant Hire (White River)	(013) 750-1200
Performance Plant Hire	(013) 692-7441
Steinmuller Plant & Equipment Hire	(017) 624-5000
Talisman Hire	0861 87 87 87
Tony's Tool Hire (Piet Retief)	(017) 826-4683

Please continue to next page ....

12. GENERATORS continued

WHERE TO HIRE

NAMIBIA

HireMAN	(00264) 612 228 185
Walvis Bay Plant & Tool Hire Services	(00264) 642-03787
Windhoek Hire Sales & Services (Windhoek)	+264 61 233693.

NORTHERN CAPE

Ovoscape Plant Hire (Kuruman)	(082) 207 3797

NORTH-WEST

Babcock Plant Services (Rustenburg)	(082) 810-1229
Elmar Projects (Swartruggens)	(014) 544-0677
Talisman Hire	0861 87 87 87

PORT ELIZABETH

Atlas Plant Hire (Port Elizabeth)	(041) 461-2367
Barloworld Equipment The Cat Rental Store (PE)	(041) 402-4700

PORT ELIZABETH continued

Scribante Construction	(041) 484-7211
Talisman Hire	0861 87 87 87

Swaziland

TALISMAN Hire(Matsapha)	(00268) 2518 4210

WESTERN CAPE

Barloworld Cat Rental Store (Bellville)	(021) 959-8200
Barloworld Power (Belville)	(021) 959-8392
Generator & Plant Hire (Cape Town)	(021) 555-3238
Ian Dickie & Co (Cape Town)	(021) 534-3431
Talisman Hire	0861 87 87 87

13. GRADERS

Engine (KW)	Typical Make / MODEL	Hourly RATE
10- 100	Dezzi NG80T	R 317,60
101-130	CAT 120K, Mitsubishi MG330, MG431	R 630,90
131-150	Bell 670G, 672G, CAT 140K,Mitsibishi 461	R 813,00
171-190	Bell 770G, 772G	R 888,00
191-210	Bell 872G	R 1 050,00

WHERE TO HIRE

BOTSWANA

Babcock TCM Plant (Gaborone)	(00267) 393-6541
Excavator Hire (Gaborone)	(00267) 392-8392
Ngamiland Generator & Diesel Services (Maun)	(00267) 686-0253
Shumba Plant Hire (Maun)	(00267) 686-1100
Van & Truck Hire Hire (Gaborone)	(00267) 391-2280

BORDER

Civil & General Contractors (Queenstown)	(045) 857-0176
Inyathi Plant Hire (Beacon Bay)	(043) 732-1124
Mvezo Plant Hire (East London)	(043) 745-0467
Norland Plant Holdings (East London)	(043) 736-6548
Riegers Hire (East London)	(043) 732-1464
Roberts Bros. Construction (East London)	(043) 748-2588
Rumdel (Cape) (East London)	(043) 748-6417
Scribante Construction (East London)	(043) 484-7211
Sokhulu Truck & Plant Hire (Matatiele)	(039) 737 4384
SL Contractors (East London)	(043) 745-2002
T&F Construction	(016) 421-4656
Ukamva Civils (Mthatha)	(047) 531 1007
Universal Equipment (Port Elizabeth)	(041) 453-1810
Umso Construction (East London)	(043) 748-4747
Xesibe Construction (Lusikisiki)	(039) 253-7264

FREE STATE

Dreykon (Harrismith)	(034) 212-1246
Express Plant Hire (Bloemfontein)	(051) 436-4891
Sigg's Engineering & Projects (Sasolburg)	(016) 971-1204
T&F Construction (Vereeniging)	(016) 421-4656

GAUTENG

Active Construction & Equipment (Benoni)	(011) 425-4890/1
Alpha Plant & Services (Johannesburg)	(011) 827-9190
ALS Group (Centurion)	(012) 640-0040
A-Z Engineering & Plant Hire (Johannesburg)	(011) 462-7907
Anton's Grader Hire (Honeydew)	(082) 923-5397
Barloworld Cat Rental Store (Isando)	(011) 929-0419
Basil Read Plant (Johannesburg)	(011) 418-6300
Burma Plant Hire (Springs)	(071) 689-0711
C.A.T.S Plant Hire (Roodepoort)	(011) 474-4261
Diesel Power Group (Bredell)	(086) 196-1177
Eco Plant Hire (Kew)	(082) 555 0095
Hire Rite Equipment (Boksburg)	(011) 894-8311
Hennox 170 (Johannesburg)	(011) 024 1057
L & J Gemmel Plant Services (Benoni)	(011) 965-1463
L&R Civil (Fourways)	(086) 133 3667
Liviero & Son (Kyalami)	(011) 466-2644
MD Plant & Equipment Sales (Bryanston)	(011) 706-7275

GAUTENG Continued

PG Plant Hire (Pretoria)	(012) 803-8714
Plant Technical Services (Johannesburg)	(011) 794-1628
Platinum Mile Plant (Witkoppies)	(083) 388 5959
Rail Plant Hire (Johannesburg)	(011) 968-9805
Renico Plant Hire (Johnnesburg)	(011) 794-1177
T&F Construction (Vereeniging)	(016) 421-4656
Theaco Roads & Earthworks (Vanderbijlpark)	(016) 451-3071
West Rand Plant Hire (Springs)	011 845 5160

KWAZULU-NATAL

Afroplant (Durban)	(031) 705-4490
Aqua Transport & Plant Hire (Pinetown)	(031) 716-2300
Barloworld Equipment Cat Rental (New Germany)	(031) 569-8500
BB Transport (Glencoe)	(034) 393-1861
City Park Trading (Mtubathuba)	(035) 550-1162
Conan Construction (Pietermaritzburg)	(033) 346-2108
Devray Plant & Earthworks (Richards Bay)	(035) 751-2141
Dudula Civils (Pietermartizburg)	(033) 346 4121
Ekene Investments (Queensburgh)	(031) 767 1033
EXR Construction (Mount Edgecombe)	(031) 539-9100
GR Transport & Plant Hire (Darnall)	(035) 486-1903
Induna Logistics & Terminals (Richards Bay)	(035) 797 4100
JCR Transport (Pinetown)	(031) 700-6833
Leomat Plant Hire (Richards Bay)	(035) 797-4611
LT Earthmovers (Wartburg)	(033) 503-1355
Mabona Civils & Plant Hire (Kokstad)	(039) 727 146
Major Machines (Merrivale)	(033) 330 5701
Marlisha Transport (Westmead)	(031) 700 8616
Mckenzie Plant Hire (Richmond)	(033) 212-2181
Midmar Plant Hire (Westmead)	(031) 700-9061
Morgado Plant Hire (Durban)	(031) 569-4750
Motwell Plant Hire (Illovo Beach)	(082) 496 9673
Pat Smith Plant Hire (Dundee)	(034) 218-1295
Protrans Plant & Civils (Port Shepstone)	(039) 6682 5695
Queensburgh Equipment Rental (Queensburgh)	(031) 464-7844
RADDS Transport(Empangeni)	(035) 787 3901
Sage Trans (Durban)	(031) 266 1492
Scotty's Plant Hire (Durban)	(031) 700-8000
Scotty's Plant Hire (Pietermaritzburg)	(033) 386-1614
Sobuza Investments (Pinetown)	(031) 100 1023
Superdigger Plant Hire (Cliff Dale)	(031) 736 6010
Tswella Trading (Kokstad)	(039) 727 5907
Ubunye Plant Hire (Queensburgh)	(031) 464-6551
Universal Trading (Jacobs)	(031) 461 5008
VIP Construction cc (Pietermaritzburg)	(076) 399 4596

13. GRADERS continued

WHERE TO HIRE

LIMPOPO	
Assert Plant Hire (Polokwane)	(014) 763-6720
Kingdom Plant (Tzaneen)	(015) 307-3950
Maruma Plant Hire (Pietersburg)	(015) 293-2902
Ovoscape Plant Hire (Polokwane)	(082) 716 3765
Quality Plant Hire (Tzaneen)	(015) 304-3000

MPUMALANGA	
ALS Group (Witbank)	(013) 689-1128
Forestry Plant & Equipment Sales (Nelspruit)	(013) 755-1003
Khulani's Trading Enterprise cc (Middelburg)	(013) 244 5017
Opsicol Mining Services (Middelburg)	(013) 612-0503
T&F Construction	(016) 421-4656

NAMIBIA	
Roads Contractor Company (Windhoek)	(00264) 612 979 000

NORTHERN CAPE	
ALS Group (Upington)	(054) 334-0140
Burma Plant Hire (Posmasburg)	(053) 313-3646
Ovoscape Plant Hire (Kuruman)	(082) 207 3797
T&F Construction	(016) 421-4656

NORTH-WEST	
ALS Group (Potchefstroom)	(018) 290-8070
Elmar Projects (Swartruggens)	(014) 544-0677
T&F Construction	(083) 306 4822
West Rand Plant Hire (Orkney)	(018) 473-5551

PORT ELIZABETH	
Algoa Plant Hire (Port Elizabeth)	(041) 453-2164
Burma Plant Hire (Port Elizabeth)	(041) 463-4033
DK Pringle Earthworks (Bedford)	(046) 685-0858
Lexintons Civil & Plant (Port Elizabeth)	(041) 372- 1850
Newport Plant Hire (Port Elizabeth)	(041) 463-2819
Rand Civils (Port Elizabeth)	(041) 581-7791
Sakhizwe Plant Hire (Port Elizabeth)	(082) 902 7000
Scribante Construction (Port Elizabeth)	(041) 484-7211
SJW Plant (Port Elizabeth)	(041) 372 1845
Stu Davidson & Sons (Port Elizabeth)	(041) 581-7711
Techni Civils (Newton Park)	(041) 364-3240
Venter Plant Hire	(082) 655 7590

WESTERN CAPE	
Barloworld Cat Rental Store (Bellville)	(021) 959-8200
Burma Plant Hire (Kuilsrivier)	(021) 905-8122
R. Ross & Son (Cape Town)	(021) 511-1204
T&F Construction	(016) 421-4656
Transand (Hartenbos)	(044) 695-0105

14. HYDRAULIC HAMMERS

DESCRIPTION	Hourly Rate (Min. 9 hrs)
On TLB's (excluding TLB)	R 133,00
Moil Point Usage Charge	R 12,50
On Wheeled Excavators (excluding excavator)	R 172,00
Moil Point Usage Charge	R 15,00
On Tracked Excavators (excluding excavator)	R 209,00
Moil Point Usage Charge	R 16,00
Standing / availability Time Charge (per month)	R 4 120,00

WHERE TO HIRE

BOTSWANA	
Babcock TCM Plant (Gaborone)	(00267) 393-6541
Excavator Hire (Gaborone)	(00267) 32-8392
Shumba Plant Hire (Maun)	(00267) 686-1100

BORDER	
Anchor Plant Hire (East London)	(043) 745-0330
Civil & General Contractors (Queenstown)	(045) 857-0176
Inyathi Plant Hire (Beacon Bay)	(043) 732-1124
Louwrens van der Walt Beleggings (Queenstown)	(083) 290 0959
Plus Plant Hire (East London)	(043) 736-3541
Riegers Hire (East London)	(043) 732-1464
Roberts Bros. Construction (East London)	(043) 748-2588
Seneca Civils (Pty) Ltd (Mathatha)	(082) 442 1545
SL Contractors (East London)	(043) 745-2002

FREE STATE	
Barloword Equipment The Cat Rental Store	(016) 976-1184

GAUTENG	
A1 Rigging & Engineering Services (JHB)	(011) 609-2040
Barloworld Cat Rental Store (Isando)	(011) 929-0600
Bears Plant Hire (Johannesburg)	(0861) 232-777
Bobcat Equipment Rentals (Alrode)	(011) 389-4460
Bobcat Equipment Rentals (Rustenburg)	(014) 538-1242
Cubenco 194 (Vanderbijlpark)	(016) 931-9758
EPH Plant Hire (Centurion)	(012) 660-3312
Hire-Rite Equipment	(011) 894-8311
Maximum Plant Hire (Fourways)	(011) 464-0930/1
Moorosi Plant Hire (Jet Park)	(084) 803 2826
Ngaphambi Hire (Alberton)	(082) 071 3951
Paul Heslop Plant Services (Johannesburg)	(086) 111-5422
PG Plant Hire (Pretoria)	(012) 803-8714
Rhino Excavator Hammers (Honeydew)	(086) 111-5422
Renttech South Africa (Wadeville)	(011) 824-0410

GAUTENG continued	
Riviera Hire(Witkoppies)	(087) 941-1113
Seneca Civils (Pty) Ltd (Mondeor)	(011) 941-3510
West Reef Plant Hire (Heidelberg)	(011) 348-1499

KWAZULU-NATAL	
Barloworld The Cat Rental Store (New Germany	(031) 569-8500
BB Transport (Glencoe)	(034) 393-1861
Izimu Mining Services (Pinetown)	(031) 701-1069
Leomat Plant Hire (Richards Bay)	(035) 797-4611
Machinery Mart (Durban)	(031) 301-7069
Mckenzie Plant Hire (Richmond)	(033) 212-2181
Scotty's Plant Hire (Durban)	(031) 700-8000
Scotty's Plant Hire (Pietermaritzburg)	(033) 386-1614

LIMPOPO	
Kingdom Plant (Tzaneen)	(015) 307-3950

NAMIBIA	
Walvis Bay Plant & Tool Hire Services	(00264) 642-03787
Windhoek Hire Sales & Services (Windhoek)	+264 61 233693.

NORTHERN CAPE	
Igloo Plant Hire (Kathu)	(053) 723 1514
Ovoscape Plant Hire (Kuruman)	(082) 207 3797

PORT ELIZABETH	
Lexintons Civil & Plant (Port Elizabeth)	(041) 372- 1850
Rand Civils (Port Elizabeth)	(041) 581-7791
Stu Davidson & Sons (Port Elizabeth)	(041) 581-7711

Western Cape	
Barloworld Cat Rental Store (Bellville)	(021) 959-8200
Bobcat Equipment Rentals (Cape Town)	(021) 945-1423
Burma Plant Hire (Kuilsrivier)	(021) 905-8122
Iselula Crushing (Cape Town)	(021) 945-3317
R. Ross & Son (Cape Town)	(021) 511-1204
Sylco (Cape Town)	(021) 845-4494

15. LOADERS

Mass (Ton)	Typical Makes & Models	Hourly Rate
5 to 8	Bell L1004D, CAT 906H, 908H, JCB 406B, Dezzi 1200, Hyundai HL730-9S	R 286,57
9 to 10	Dezzi 1700, CAT924K, JCB416HT, Hyundai HL757-9S, Kawasaki 60ZV	R 403,67
11 to 13	Bell L1204E, L1506E, Case 162F, CAT 930K, CAT 938K, Doosan DL200A, JCB 432ZX, Kawasaki 70ZIV-2	R 479,97
14 to 18	Bell 1706E, 1806E, Case 821F, CAT 950H, Dezzi 2300, 2500, Doosan DL250A, DL300A Hyundai HL757-9S, HL760-9S, JCB 426ZX, 436ZX, Kawasaki 80Z5	R 548,63
19 to 22	Bell 2106E, CAT 962H, Dezzi 3500, Doosan 420A, Hyundai HL770-9S JCB 456ZX, Kawasaki 85Z5	R 676,90
23 to 25	Bell 2606E, CAT 966H, 972H, Case 1021F, Kawasaki 90Z5	R 897,50
26 to 30	Bell 2706E, CAT 980H, Kawasaki 95Z5	R 1 076,00
31 to 36	CAT 986H, Doosan 550A	R 1 389,71
45	Kawasaki 115ZV	R 1 722,04

WHERE TO HIRE

BOTSWANA	
Babcock TCM Plant (Gaborone)	(00267) 393-6541
Excavator Hire (Gaborone)	(00267) 392-8392
Ngamiland Generator & Diesel Services (Maun)	(00267) 686-0253
Rhino Plant Hire (Gaborone)	(00267) 392-2512
Shumba Plant Hire (Maun)	(00267) 686-1100
Van & Truck Hire Hire (Gaborone)	(00267) 391-2280

BORDER	
Civil & General Contractors (Queenstown)	(045) 857-0176
Inyathi Plant Hire (Beacon Bay)	(043) 732-1124
Norland Plant Holdings (East London)	(043) 736-6548
Plus Plant Hire (East London)	(043) 736-3541
Riegers Hire (East London)	(043) 732-1464
Roberts Bros. Construction (East London)	(043) 748-2588
Rumdel (Cape) (East London)	(043) 748-6417
SL Contractors (East London)	(043) 745-2002
T&F Construction	(016) 421-4656
WC Plant Hire (Gonubie)	(043) 732-1833

FREE STATE	
Sigg's Engineering & Projects (Sasolburg)	(016) 971-1204
T&F Construction	(016) 421-4656

GAUTENG	
A-Z Engineering & Plant Hire (Johannesburg)	(011) 462-7907
ALS Group (Centurion)	(012) 640-0040
Barloworld Cat Rental Store (Isando)	(011) 929-0419
Bears Plant Hire (JHB)	(0861) 232-777
Bulk Machine Hire (JHB)	(011) 964-1179
Burma Plant Hire (Springs)	(071) 689-0711
C.A.T.S Plant Hire (Roodepoort)	(011) 474-4261
Eco Plant Hire (Kew)	(082) 555 0095
EPH Plant Hire (Centurion)	(012) 660-3312
Hennox 170 (Johannesburg)	(011) 024 1057
Hire-Rite Equipment (Benoni)	(011) 894-8311
KLT Machinery & Plant Hire	(011) 730-7501
L&R Civil (Fourways)	(086) 133 3667
Liviero & Son (Kyalami)	(011) 466-2644
Maximum Plant Hire (Fourways)	(011) 464-0930/1
MD Plant & Equipment Sales (Bryanston)	(011) 706-7275
PG Plant Hire (Pretoria)	(012) 803-8714

GAUTENG	
Platinum Mile Plant (Witkoppies)	(083) 388 5959
Pro-File Plant Hire (Johannesburg)	(016) 150-0533
Rail Plant Hire (Johannesburg)	(011) 968-9805
Renico Plant Hire (Johnnesburg)	(011) 794-1177
Rhino Excavator Hammers (Honeydew)	(086) 111-5422
Richard Irons Plant Rentals (Johanneburg)	(011) 315-1526
Renttech South Africa Plant Rental SA (Wadeville)	(011) 824-0410
Riviera Hire(Witkoppies)	(087) 941-1113
Sandton Plant Hire (Johannesburg)	(011) 805-3084
Spare Power Trading (Benoni)	(011) 845 4184
T&F Construction (Vereeniging)	(016) 421-4656
Theaco Roads & Earthworks (Vanderbijlpark)	(016) 451-3071
West Rand Plant Hire (Springs)	(011) 845-5160

KWAZULU-NATAL	
Afroplant (Durban)	(031) 705-4490
ALS Group (Newcastle)	(034) 341-1636
Aqua Transport & Plant Hire (Pinetown)	(031) 716-2300
Barloworld Cat Rental Store (New Germany)	(031) 569-8500
BB Transport (Glencoe)	(034) 393-1861
Conan Construction (Pietermaritzburg)	(033) 346-2108
Dreykon (Dundee)	(034) 212-1246
EXR Construction (Mount Edgecombe)	(031) 539-9100
GR Transport & Plant Hire (Darnall)	(035) 486-1903
Induna Logistics & Terminals (Richards Bay)	(035) 797 4100
Leomat Plant Hire (Richards Bay)	(035) 797-4611
Major Machines (Merrivale)	(033) 330 5701
McKenzie Plant Hire (Richmond)	(033) 212-2181
Midmar Plant Hire (Westmead)	(031) 700-9061
Morgado Plant Hire (Durban)	(031) 569-4750
Motwell Plant Hire (Illovo Beach)	(082) 496 9673
Pat Smith Plant Hire (Dundee)	(034) 218-1295
Sage Trans (Durban)	(031) 266 1492
RADDS Transport(Empangeni)	(035) 787 3901
Savemor Earthmoving (Durban)	(031) 702-9441
Scotty's Plant Hire (Durban)	(031) 700-8000
Scotty's Plant Hire (Pietermaritzburg)	(033) 386-1614
Ubunye Plant Hire (Queensburgh)	(031) 464-6551
Universal Trading (Jacobs)	(031) 461 5008

15. LOADERS continued

WHERE TO HIRE

LIMPOPO	
Kingdom Plant (Tzaneen)	(015) 307-3950
Ovoscape Plant Hire (Polokwane)	(082) 716 3765

MPUMALANGA	
ALS Group (Witbank)	(013) 689-1128
Central Africa Machine Sales (Witbank)	(013) 691-2102
Forestry Plant & Equipment Sales (Nelspruit)	(013) 755-1003
Isambane Mining (Middleburg)	(071) 681-9939
Opsicol Mining Services (Middelburg)	(013) 612-0503
T&F Construction	(016) 421-4656

NAMIBIA	
Roads Contractor Company (Windhoek)	(00264) 612 979 000
Walvis Bay Plant & Tool Hire Services	(00264) 642-03787
Windhoek Renovations (Windhoek)	(00264) 6123-6159

NORTHERN CAPE	
ALS Group (Upington)	(054) 334 -0140
Burma Plant Hire (Posmasburg)	(053) 313-3646
Ovoscape Plant Hire (Kuruman)	(082) 207 3797
T&F Construction	(016) 421-4656

NORTH-WEST	
ALS Group (Potchefstroom)	(018) 290-8070
Elmar Projects (Swartruggens)	(014) 544-0677
West Rand Plant Hire (Orkney)	(018) 473-5551

PORT ELIZABETH	
Barloworld Equipment The Cat Rental Store (PE)	(041) 486- 1303
Burma Plant Hire (Port Elizabeth)	(041) 463-4033
DK Pringle Earthworks (Bedford)	(046) 685-0858
Newport Plant Hire (Port Elizabeth)	(041) 463-2819
Rand Civils (Port Elizabeth)	(041) 581-7791
Sakhizwe Plant Hire (Port Elizabeth)	(082) 902 7000
Scribante Construction (Port Elizabeth)	(041) 484-7211
SJW Plant (Port Elizabeth)	(041) 372 1845
Stu Davidson & Sons (Port Elizabeth)	(041) 581-7711
Techni Civils (Newton Park)	(041) 364-3240
Venter Plant Hire	(082) 655 7590

WESTERN CAPE	
Barloworld Equipment The Cat Rental Store (Bellville)	(021) 959-8200
Burma Plant Hire (Kuilsrivier)	(021) 905-8122
Iselula Crushing (Cape Town)	(021) 945-3317
Rainbow Plant Hire (Worcester)	(023) 347-0739
R. Ross & Son (Cape Town)	(021) 511-1204
Sylco (Cape Town)	(021) 845-4494
T&F Construction	(016) 421-4656

16. MILLING MACHINES

MODELS	MILLING WIDTH (mm)	MILLING DEPTH (mm)	Hourly Rate (Min. 9 hrs)
W350	350	100	R 182,00
W500	500	160	R 295,00
W1000	1000	300	R 730,00
RACO 350	2400	450	R 2 635,00
DC2000	2000	300	R 2 420,00
DC2100	2000	300	R 3 295,00
WR2500	2500	500	R 3 295,00

16.1 COLD MILLING, RECYCLING, SOIL STABILISING & FOAMING

WHERE TO HIRE

BOTSWANA		FREE STATE	
Shumba Plant Hire (Maun)	(00267) 686-1100	Express Plant Hire (Bloemfontein)	(051) 436-4891
BORDER		Sigg's Engineering & Projects (Sasolburg	(016) 971-1204
Roberts Brothers Construction	(043) 748-2588	**KWAZULU-NATAL**	
GAUTENG; LIMPOPO & NORTH-WEST		EXR Construction (Mount Edgecombe)	(031) 539-9100
Road Milling & Sweeping (Florida)	(011) 472 5333	Universal Trading (Jacobs)	(031) 461 5008
Wirtgen SA (Johannesburg)	8 619 478 436	**PORT ELIZABETH**	
		Scribante Construction (Port Elizabeth)	(041) 484-7211

16.2 ROAD SURFACING

WHERE TO HIRE

Botswana		PORT ELIZABETH	
Shumba Plant Hire (Maun)	(00267) 686-1100	Scribante Construction (Port Elizabeth)	(041) 484-7211
FREE STATE			
Express Plant Hire (Bloemfontein)	(051) 436-4891		

17. MOBILE CRUSHERS

WHERE TO HIRE

BORDER	
Inyathi Plant Hire (Beacon Bay)	(043) 732-1124
Seneca Civils (Pty) Ltd (Mathatha)	(082) 442 1545
Ukamva Civils (Mthatha)	(047) 531 1007
GAUTENG	
EPH Plant Hire (Centurion)	(012) 660-3312
Renico Plant Hire (Johannesburg)	(011) 794-1177
Seneca Civils (Pty) Ltd (Mondeor)	(011) 941-3510
KWAZULU-NATAL	
EXR Construction (Mount Edgecombe)	(031) 539-9100
Major Machines (Merrivale)	(033) 330 5701

MPUMALANGA	
Isambane Mining (Middleburg)	(071) 681-9939
Opsicol Mining Services (Middelburg)	(013) 612-0503
PORT ELIZABETH	
Scribante Construction (Port Elizabeth)	(041) 484-7211
Western Cape	
Boss Group (Sea Point)	(071) 387 5781
Burma Plant Hire (Kuilsrivier)	(021) 905-8122
Iselula Crushing (Cape Town)	(021) 945-3317

18. POWER TOOLS

DELIVERY and/or COLLECTION = R 147.00

DEPOSIT : Minimum of 5 days hire payable on collection or delivery

DESCRIPTION		Daily Rate (Min. 9 hrs)
Angle Grinders	115mm	R 100.00
	230mm	R 100.00
Breakers (including moils)	10kg	R 228,00
	15kg	R 245,00
	30kg	R 300,00
Brick Cutters (table mounted)		R 218.00
Drills	10 mm	R 91,00
	16 mm	R 108.00
	20 mm	R 164,00
	40 mm	R 200,00
Magnetic base		R 462.00
Extension Leads		R 37,00

DESCRIPTION		Daily Rate (Min. 9 hrs)
Floodlights		R 37.00
Heat Guns		R 119,00
Planers		R 108.00
Routers		R 138.00
Sanders	Belt, 75 mm	R 119,00
	Belt, 100 mm	R 138,00
	Delta	R 91,00
	Floor	R 270.00
	Edger	R 218,00
	Orbital, palm grip	R 108.00
	Orbital, random	R 108,00
Saws	Circular	R 118.00

WHERE TO HIRE

BOTSWANA	
Jomaf Hiring Services (Gaborone)	(00267) 319-1585
BORDER	
Action Plant & Equipment (East London)	(043) 722-8294
Talisman Hire	0861 87 87 87
FREE STATE	
Babcock Plant Services (Sasolburg)	(016) 976-1075
GAUTENG	
Atlas Plant Hire (Midrand)	(011) 310-9313
Babcock Plant Services (Johannesburg)	(011) 418-4407
Brackenwest Hardware & Hire (Johannesburg)	(011) 867-6224
File Hire Plant (Johannesburg)	(011) 397-6463
Hard Hat Equipment Hire (Halfway House)	(011) 609-6443
Performance Plant Hire (Randburg)	(011) 792-1224
Performance Plant Hire (Boksburg)	(011) 823-5480
Performance Plant Hire (Midrand)	(011) 312 5069
Propact Plant Hire (Johannesburg)	(011) 680-2137
Propact Plant Hire (Centurion)	(012) 653-0245
Rebel Plant Hire (Johannesburg)	(011) 882-1048
Renttech South Africa Plant Rental SA (Wadeville)	(011) 824-0410
Talisman Hire	0861 87 87 87
KWAZULU-NATAL	
Atlas Plant Hire (Pinetown)	(031) 700 1724
Babcock Plant Services (Durban)	(031) 705-2733
B&B Plant & Equipment (Empangeni)	(035) 787-0679
Hire Anything (Richards Bay)	(035) 789-5997
Machinery Mart (Durban)	(031) 301-7069
Need-A-Tool (Durban)	(031) 705-1470
Scotty's Plant Hire (Durban)	(031) 700-8000
Scotty's Plant Hire (Pietermaritzburg)	(033) 386-1614
Talisman Hire	0861 87 87 87

KWAZULU-NATAL continued	
Tony's Tool Hire (Dundee)	(034) 212-5232
Tony's Tool Hire (Newcastle)	(034) 312 8396
Tony's Tool Hire (Pongola)	(034) 413-3023
LIMPOPO	
Babcock Plant Services (Lepelale)	(079) 827-9227
Talisman Hire	0861 87 87 87
MPUMALANGA	
Afritool-Rent (Secunda)	(017) 639-1433
Babcock Plant Services (Secunda)	(017) 631-2847
Babcock Plant Services (Middelburg)	(013) 246-2870
Performance Plant Hire	(013) 692-7441
Talisman Hire	0861 87 87 87
Tony's Tool Hire (Piet Retief)	(017) 826-4683
NAMIBIA	
HireMAN	(00264) 612 228 185
NORTH-WEST	
Atlas Plant Hire (Rustenburg)	(014) 569-5951
Babcock Plant Services (Rustenburg)	(082) 810-1229
Elmar Projects (Swartruggens)	(014) 544-0677
Talisman Hire	0861 87 87 87
PORT ELIZABETH	
Atlas Plant Hire (Port Elizabeth)	(041) 421-4266
Talisman Hire	0861 87 87 87
Swaziland	
TALISMAN Hire(Matsapha)	(00268) 2518 4210
WESTERN CAPE	
Generator & Plant Hire (Cape Town)	(021) 511-4185
Hiretech (Cape Town)	(021) 945-3317
Ian Dickie & Co (Cape Town)	(021) 534-3431
Talisman Hire	0861 87 87 87

19. PUMPS

19.1 HIGH HEAD & JETTING DRI-PRIME PUMPS

DESCRIPTION	CAPACITY (M3 / hr)	TOTAL HEAD (m	Rate per week	DESCRIPTION	CAPACITY (M3 / hr)	TOTAL HEAD (	Rate per week
HL 100M	225	46		HL 200M	500	45	
(100mmx75mm)	205	60		(200mm x 150mm)	475	60	
	160	90			455	82	
	130	106			315	90	
	102	120	R 4 665,00		180	95	R 7 475,00
HL125M	225	55		HL 225M	840	30	
(150mmx100mm)	215	60		(250mm x 200mm)	795	48	
	205	90			680	83	
	180	120			565	100	
	114	134	R 5 505,00		455	105	R 8 475,00
HL 150M	375	45		HL 250M	1085	58	
(150mmX150mm)	310	60		(300mm x 250mm)	1020	70	
	285	90			905	90	
	225	125			680	100	
	160	135	R 6 295,00		455	105	R 10 905,00

19.2 HEAD & JETTING DRI-PRIME PUMPS

DESCRIPTION	CAPACITY (M3 / hr)	TOTAL HEAD (m	Rate per week	DESCRIPTION	CAPACITY (M3 / hr)	TOTAL HEAD (	Rate per week
HL 130M	275	125		HL160M	225	55	
(150mm x 100mm)	225	158		(200mm x 150mm)	215	60	
	180	175			205	90	R 5 605,00
	135	180			180	120	
	90	183	R 9 345,00		114	134	R 5 605,00

19.3 GENERAL PURPOSE, SOLIDS HANDLING DRI-PRIME PUMPS

DESCRIPTION	CAPACITY (M3 / hr)	TOTAL HEAD (m	Rate PER DAY	DESCRIPTION	CAPACITY (M3 / hr)	TOTAL HEAD (	Rate
CD 100M	160	6		CD 300M	1360	15	
(100mm)	115	12		(300mm)	1135	36	
	90	17			905	43	
	68	20			795	47	
	45	23	R 300,00		680	49	R 7475.00 / week
CD150M	450	11		CD400M	2265	10	
(150mm)	395	18		(450mm x 400mm)	2940	18	
	340	23			1815	25	
	225	28			1360	30	
	113	30	R 1 000,00		905	38	R 52,635.00 / month
CD225M	725	6					
(200mm)	680	12					
	610	18					
	565	25					
	475	30	R 1 245,00				

Please continue to next page ....

19. PUMPS

WHERE TO HIRE

BOTSWANA	
Ngamiland Generator & Diesel Services (Maun)	(00267) 686-0253
Shumba Plant Hire (Maun)	(00267) 686-1100
BORDER	
Action Plant & Equipment (East London)	(043) 722-8294
Talisman Hire	0861 87 87 87
GAUTENG & NORTH-WEST	
Hard Hat Equipment Hire (Halfway House)	(011) 609-6443
Ian Dickie & Co (Johannesburg)	(011) 609-4130
Renttech South Africa Plant Rental SA (Wadeville)	(011) 824-0410
Talisman Hire	0861 87 87 87
KWAZULU- NATAL	
Ian Dickie & Co (Durban)	(031) 709-1313
Talisman Hire	0861 87 87 87
Tony's Tool Hire (Dundee)	(034) 212-5232
Tony's Tool Hire (Newcastle)	(034) 312 8396
Tony's Tool Hire (Pongola)	(034) 413-3023

MPUMALANGA	
Steinmuller Plant & Equipment Hire	(017) 624-5000
Talisman Hire	0861 87 87 87
Tony's Tool Hire (Piet Retief)	(017) 826-4683
NORTH-WEST	
Talisman Hire	0861 87 87 87
NAMIBIA	
HireMAN	(00264) 612 228 185
PORT ELIZABETH	
Ian Dickie & Co (Port Elizabeth)	(041) 451-1577
Talisman Hire	0861 87 87 87
Swaziland	
TALISMAN Hire(Matsapha)	(00268) 2518 4210
WESTERN CAPE	
Ian Dickie & Co (Cape Town)	(021) 534-3431
Talisman Hire	0861 87 87 87

20. ROLLERS

DESCRIPTION		Hourly Rate (Min. 9 hrs)
DOUBLE DRUM VIBRATORY ROLLERS:		
1,0 - 1,5 ton, width 0,70 - 1,0 m	Bitelli DTV315S	R 90,00
1,5 - 2,5 ton, width 1,0 - 1,2 m	Bitelli DTV315S	R 110,00
2,5 - 3,5 ton, width 1,2 - 1,4 m	Bitelli DTV345S,	R 138,00
CAT CB214D; CB224D		
PNEUMATIC ROLLERS		
7 - 14.ton		R 167,00
14 - 21 ton		R 215,00
21 - 28 ton Bitelli SB25,SB30;Simesa RG279		R 245,00
SINGLE-DRUM VIBRATORY ROLLERS, PADFOOT		
4 - 7 ton, width 1,5 m		R 158,00
7 - 10 ton, width 1,7 m Bomag 212;CAT CP533D;		R 205,00
Dynapac; CA251PD;Simesa		
NC10PD		
10 - 14 ton, width 2,1 m Bomag 212;CAT CP563D;		R 229,00
Dynapac; CA251PD;Simesa		
NC12PD		
14 - 20 ton Simesa NC15PD,NC17PD		
SINGLE-DRUM VIBRATORY ROLLERS, SMOOTH		
4 - 7 ton, width 1,5 m		R 150,00
7 - 10 ton, width 1,7 m Bomag 212;CAT CS533D;		R 198,00
Dynapac CA251SD;Simesa; NC10SD		
10 - 14 ton, width 2,1 m Bomag 212;CAT CS563D;		R 221,00
Dynapac CA251SD;Simesa; NC10SD		
14 - 20 ton Simesa NC15SD,NC17SD		R 238,00

DESCRIPTION	HourlyRate (Min. 9 hrs)
STATIC ROLLERS	
7 - 9 ton	R 158,00
9 - 11 ton	R 166,00
11 - 13 ton	R 174,00
TOW-BEHIND ROLLERS	
Grid (excluding tow unit)	
8-12 ton	R 89,00
12-15 ton	R 134,00
Vibratory-Smooth (excluding tow unit)	
8-12 ton Simesa RVT100H,RVT200H	R 112,00
12-15 ton Simesa RVT400H	R 134,00
Vibratory-Padfoot (excluding tow unit)	
8-12 ton Simesa RVT100H,RVT200H	R 112,00
12-15 ton Simesa RVT400H	R 134,00
Impact Rollers (excluding tow unit)	
10 - 15 KJ Landpac	P.O.A.

PEDESTRIAN ROLLERS	Daily Rate (Min. 9 hrs)
500 - 550 kg, width 390 mm	
650 - 700 kg, width 650 mm	R 350.00
800 - 900 kg, width 630 mm	R 447.00
900 - 1000 kg, width 750 mm	
1000 - 1500 kg, width 900 mm	R 482.00

WHERE TO HIRE

BOTSWANA	
Babcock TCM Plant (Gaborone)	(00267) 393-6541
Excavator Hire (Gaborone)	(00267) 392-8392
Jomaf Hiring Services (Gaborone)	(00267) 319-1585
Ngamiland Generator & Diesel Services (Maun)	(00267) 686-0253
Shumba Plant Hire (Maun)	(00267) 686-1100
Van & Truck Hire Hire (Gaborone)	(00267) 391-2280
BORDER	
AE Plant Hire (East London)	(083) 654-99871
Action Plant & Equipment (East London)	(043) 722-8294
Clarke Civil Eng Contractors (East London)	(043) 726-2076
Anchor Plant Hire (East London)	(043) 745-0330
Civil & General Contractors (Queenstown)	(045) 857-0176
Inyathi Plant Hire (Beacon Bay)	(043) 732-1124
Ukamva Civils (Mthatha)	(047) 531 1007
Universal Equipment (Port Elizabeth)	(041) 453-1810
WC Plant Hire (Gonubie)	(043) 732-1833
Xesibe Construction (Lusikisiki)	(039) 253-7264

BORDER continued	
Peugair (East London)	(043) 748-2423
Riegers Hire (East London)	(043) 732-1464
Roberts Bros. Construction (East London)	(043) 748-2588
Rumdel (Cape) (East London)	(043) 748-6417
Sokhulu Truck & Plant Hire (Matatiele)	(039) 737 4384
SL Contractors (East London)	(043) 745-2002
Talisman Hire	0861 87 87 87
T&F Construction	(016) 421-4656
Umso Construction (East London)	(043) 748-4747
FREE STATE	
Express Plant Hire (Bloemfontein)	(051) 436-4891
Sigg's Engineering & Projects (Sasolburg)	(016) 971-1204
Talisman Hire	0861 87 87 87
T&F Construction	(016) 421-4656
All Diesel Power Products (Jhb)	(011) 334-6573

Please continue to next page ....

20. ROLLERS continued

WHERE TO HIRE

GAUTENG	
ALS Group (Centurion)	(012) 640-0040
Atlas Plant Hire (Midrand)	(011) 310-9313
A-Z Engineering & Plant Hire (Johannesburg)	(011) 462-7907
Barloworld Equipment The Cat Rental Store (Isando)	(011) 929-0419
Basil Read Plant (Johannesburg)	(011) 418-6300
Burma Plant Hire (Springs)	(071) 689-0711
C.A.T.S Plant Hire (Roodepoort)	(011) 474-4261
EPH Plant Hire (Centurion)	(012) 660-3312
File Hire Plant (Johannesburg)	(011) 397-6463
Hard Hat Equipment Hire (Halfway House)	(011) 609-6443
Hennox 170 (Johannesburg)	(011) 024 1057
Hire Rite Equipment (Boksburg)	(011) 894-8311
L & J Gemmel Plant Services (Benoni)	(011) 965-1463
L&R Civil (Fourways)	(086) 133 3667
Liviero & Son (Kyalami) (011) 466-2644	(011) 306-7300
Mzansi Plant Hire (Centurion)	(012) 669 3296
Ngaphambi Hire (Alberton)	(011) 869-9279
Performance Plant Hire (Randburg)	(011) 792-1224
Performance Plant Hire (Boksburg)	(011) 823-5480
Performance Plant Hire (Midrand)	(011) 312 5069
Platinum Mile Plant (Witkoppies)	(083) 388 5959
Propact Plant Hire (Johannesburg)	(011) 680-2137
Propact Plant Hire (Centurion)	(012) 653-0245
Rebel Plant Hire (Johannesburg)	(011) 882-1048
Renico Plant Hire (Johannesburg)	(011) 794-1177
Rickharding Plant Hire (Kempton Park)	(011) 979 4052
Talisman Hire	0861 87 87 87
T&F Construction (Vereeniging)	(016) 421-4656
Theaco Roads & Earthworks (Vanderbijlpark)	(016) 451-3071
Turner Morris (Johannesburg)	(011) 618-2620
West Rand Plant Hire (Springs)	(011) 845-5160

KWAZULU- NATAL	
Afroplant (Durban)	(031) 705-4490
ALS Group (Newcastle)	(034) 341-1636
Aqua Transport & Plant Hire (Pinetown)	(031) 716-2300
B&B Plant & Equipment (Empangeni)	(035) 787-0679
Barloworld Equipment Cat Rental	(031) 569-8500
BB Transport (Glencoe)	(034) 393-1861
City Park Trading (Mtubathuba)	(035) 550-1162
Conan Construction (Pietermaritzburg)	(033) 346-2108
Devray Plant & Earthworks (Richards Bay)	(035) 751-2141
Dudula Civils (Pietermartizburg)	(033) 346 4121
Ekene Investments (Queensburgh)	(031) 767 1033
EXR Construction (Mount Edgecombe)	(031) 539-9100
GR Transport & Plant Hire (Darnall)	(035) 486-1903
Induna Logistics & Terminals (Richards Bay)	(035) 797 4100
JCR Transport (Pinetown)	(031) 700-6833
Leomat Plant Hire (Richards Bay)	(035) 797-4611
LT Earthmovers (Wartburg)	(033) 503-1355
Mabona Civils & Plant Hire (Kokstad)	(039) 727 146
Machinery Mart (Durban)	(031) 301-7069
Major Machines (Merrivale)	(033) 330 5701

KWAZULU- NATAL continued	
Marlisha Transport (Westmead)	(031) 700 8616
Mckenzie Plant Hire (Richmond)	(033) 212-2181
Midmar Plant Hire (Westmead)	(031) 700-9061
Morgado Plant Hire (Durban)	(031) 569-4750
Motwell Plant Hire (Illovo Beach)	(082) 496 9673
Need-A-Tool (Durban)	(031) 705-1470
Pat Smith Plant Hire (Dundee)	(034) 218-1295
Protrans Plant & Civils (Port Shepstone)	(039) 6682 5695
Raciti's Plant Hire (Estcourt)	(036) 352-5783
RADDS Transport(Empangeni)	(035) 787 3901
Sage Trans (Durban)	(031) 266 1492
Savemor Earthmoving (Durban)	(031) 702-9441
Sealcoat Surfacing & Asphalt (Pietermaritzburg)	(033) 386-8998
Scotty's Plant Hire (Durban)	(031) 700-8000
Scotty's Plant Hire (Pietermaritzburg)	(033) 386-1614
Sobuza Investments (Pinetown)	(031) 100 1023
Superdigger Plant Hire (Cliff Dale)	(031) 736 6010
Talisman Hire	0861 87 87 87
Tony's Tool Hire (Dundee)	(034) 212-5232
Tony's Tool Hire (Newcastle)	(034) 312 8396
Tony's Tool Hire (Pongola)	(034) 413-3023
Tswella Trading (Kokstad)	(039) 727 5907
Ubunye Plant Hire (Queensburgh)	(031) 464-6551
Universal Trading (Jacobs)	(031) 461 5008
VIP Construction cc (Pietermaritzburg)	(076) 399 4596

LIMPOPO	
Atlas Plant Hire (Lepelale)	(014) 763-6720
Kingdom Plant (Tzaneen)	(015) 307-3950
Maruma Plant Hire (Pietersburg)	(015) 293-2902
Quality Plant Hire (Tzaneen)	(015) 304-3000
Talisman Hire	0861 87 87 87

MPUMALANGA	
ALS Group (Witbank)	(013) 689-1128
Performance Plant Hire	(013) 692-7441
Khulani's Trading Enterprise cc (Middelburg)	(013) 244 5017
Opsicol Mining Services (Middelburg)	(013) 612-0503
Talisman Hire	0861 87 87 87
T&F Construction	(016) 421-4656
Tony's Tool Hire (Piet Retief)	(017) 826-4683

NAMIBIA	
Windhoek Hire Sales & Services (Windhoek)	+264 61 233693.

NORTHERN CAPE	
ALS Group (Upington)	(054) 334-0140
Talisman Hire	0861 87 87 87
T&F Construction	(016) 421-4656

NORTH-WEST	
ALS Group (Potchefstroom)	(018) 290-8070
Atlas Plant Hire (Rustenburg)	(014) 569-5951
Elmar Projects (Swartruggens)	(014) 544-0677
Talisman Hire	0861 87 87 87
T&F Construction	(083) 306 4822
West Rand Plant Hire (Orkney)	(018) 473-5551

20. ROLLERS continued

WHERE TO HIRE

PORT ELIZABETH		WESTERN CAPE	
Atlas Plant Hire (Port Elizabeth)	(041) 451-4266	Barloworld Equipment Cat Rental Store (Bellville)	(021) 959-8200
Burma Plant Hire (Port Elizabeth)	(041) 463-4033	Burma Plant Hire (Kuilsrivier)	(021) 905-8122
DK Pringle Earthworks (Bedford)	(046) 685-0858	Hiretech (Cape Town)	(021) 945-3317
Newport Plant Hire (Port Elizabeth)	(041) 463-2819	Sylco (Cape Town)	(021) 845-4494
Peugair (Port Elizabeth)	(041) 451-2722	T&F Construction	(016) 421-4656
Rand Civils (Port Elizabeth)	(041) 581-7791	Transand (Hartenbos)	(044) 695-0105
Sakhizwe Plant Hire (Port Elizabeth)	(082) 902 7000	Talisman Hire	0861 87 87 87
Scribante Construction (Port Elizabeth)	(041) 484-7211	Umhlaba Plant Hire (Kraaifontein)	(021) 987-1650/2
Stu Davidson & Sons (Port Elizabeth)	(041) 581-7711		
SJW Plant (Port Elizabeth)	(041) 372 1845		
Talisman Hire	0861 87 87 87		
Techni Civils (Newton Park)	(041) 364-3240		

SCRAPERS

MASS	DESCRIPTION	HOURLY RATE
20-45 Ton	Cat 611,621G	R 412,00
45-55 Ton	Cat 631G,637G	R 600,00
55-65 Ton	Cat 651E	R 712,00
65-75 Ton	Cat 657E	R 790,00

WHERE TO HIRE

Gauteng		NORTH-WEST	
Bulk Machine Hire	(011) 964-1179	ALS Loader hire (Potchefstroom)	(018) 290-6060
CLM Positioning Solutons (Kya Sands)	(011) 708-7206	Elmar Projects (Swartruggens)	(014) 544-0677
KwaZulu-Natal		**PORT ELIZABETH**	
ALS Group (Newcastle)	(034) 341-1636	Scribante Construction (Port Elizabeth)	(041) 484-7211

22. SITE ACCOMODATION

DELIVERY / COLLECTION charges applicable :-

(a) Caravans (local areas) = R100 / trip; *(b) Caravans (radius 50km and more) = R5 / km*

(a) Containers (local areas) = R601 / trip *(b) Containers (radius 50km and more) = R6 / km*

Description	Daily Rate
Caravans	
2 - berth	R 47,00
4 - berth	R 47,00
6 - berth	R 47,00
Site Office	R 71,00
Containers	
6 m	R 36,00
12 m	R 71,00

Description	Daily Rate
Site offices	
Kiosk - 2m2	
Container - 15m2	R 54,00
Toilets (includes 2 x free services per month)	R 376,00
Service Charges (for additional service if required)	R 141,00

WHERE TO HIRE

BOTSWANA	
Shumba Plant Hire (Maun)	(00267) 686-1100
BORDER	
Anchor Plant Hire (East London)	(043) 745-0330
Riegers Hire (East London)	(043) 732-1464
Talisman Hire	0861 87 87 87
FREE STATE	
Babcock Plant Services (Sasolburg)	(016) 976-1075
Ferro Sales & Services (Bloemfontein)	(082) 773 2165
Talisman Hire	0861 87 87 87
GAUTENG	
Babcock Plant Services (Johannesburg)	(011) 418-4407
Renttech South Africa Plant Rental SA (Wadeville)	(011) 824-0410
Talisman Hire	0861 87 87 87
KWAZULU-NATAL	
Babcock Plant Services (Durban)	(031) 705-2733
BB Transport (Glencoe)	(034) 393-1861
Leomat Plant Hire (Richards Bay)	(035) 797-4611
Tony's Tool Hire (Dundee)	(034) 212-5232
Tony's Tool Hire (Newcastle)	(034) 312 8396
Tony's Tool Hire (Pongola)	(034) 413-3023
LIMPOPO	
Babcock Plant Services (Lepelale)	(079) 827-9227
Talisman Hire	0861 87 87 87

MPUMALANGA	
Babcock Plant Services (Secunda)	(017) 631-2847
Babcock Plant Services (Middelburg)	(013) 246-2870
Steinmuller Plant & Equipment Hire	(017) 624-5000
Talisman Hire	0861 87 87 87
Tony's Tool Hire (Piet Retief)	(017) 826-4683
NAMIBIA	
HireMAN	(00264) 612 228 185
NORTHERN CAPE	
Talisman Hire	0861 87 87 87
NORTH-WEST	
Babcock Plant Services (Rustenburg)	(082) 810-1229
Talisman Hire	0861 87 87 87
PORT ELIZABETH	
Talisman Hire	0861 87 87 87
SWAZILAND	
TALISMAN Hire(Matsapha)	(00268) 2518 4210
WESTERN CAPE	
Stelval Crane Hire (Epping Industrial)	(021) 534-4291
Sylco (Cape Town)	(021) 845-4494
Talisman Hire	0861 87 87 87

23. SKIDSTEER LOADERS

DELIVERY and / or COLLECTION not included

Mass (Ton)	Typical Makes & Models	Hourly Rate
1 - 2 ton	Bobcat 443,743 Hitachi SL35B	R 142,00
2 - 3 ton	Cat 216, 226 Bobcat 753 / 843	R 153.00
Case 1840, 1845 Hitachi SL45B,SL55B,SL65B	JCB 150, 160, 165, 170	

WHERE TO HIRE

Botswana	
Rhino Plant Hire (Gaborone)	(00267) 392-2512
Ngamiland Generator & Diesel Services (Maun)	(00267) 686-0253
BORDER	
Inyathi Plant Hire (Beacon Bay)	(043) 732-1124
Mvezo Plant Hire (East London)	(043) 745-0467
Plus Plant Hire (East London)	(043) 736-3541
Riegers Hire (East London)	(043) 732-1464
SL Contractors (East London)	(043) 745-2002
T&F Construction	(016) 421-4656
Universal Equipment (Port Elizabeth)	(041) 453-1810
FREE STATE	
ALS Plant Hire	(082) 375-4702
T&F Construction	(016) 421-4656
GAUTENG	
Active Construction & Equipment (Benoni)	(011) 425-4890/1
A1 Rigging & Engineering Services (Johannesburg)	(011) 609-2040
Barloworld Equipment The Cat Rental Store (Isando)	(011) 929-0600
Bears Plant Hire (Johannesburg)	(0861) 232-777
Bobcat Equipment Rentals (Alrode)	(011) 389-4460
Burma Plant Hire (Springs)	(071) 689-0711
EPH Plant Hire (Centurion)	(012) 660-3312
Motsana Plant (Pretoria)	(012) 771 4732
Ngaphambi Hire (Alberton)	(011) 869-9279
PG Plant Hire (Pretoria)	(012) 803-8714
Renico Plant Hire (Johannesburg)	(011) 794-1177
Richard Irons Plant Rentals (JHB)	(011) 315-1526/2080
Rickharding Plant Hire (Kempton Park)	(011) 979 4052
Riviera Hire(Witkoppies)	(087) 941-1113
T&F Construction (Vereeniging)	(016) 421-4656
Uniloader Hire Services (Johannesburg)	(082) 886-5984
KWAZULU-NATAL	
Barloworld Equipment The Cat Rental Store	(031) 569-8500
BB Transport (Glencoe)	(034) 393-1861
Bob-Ann Plant (Durban)	(031) 266-3656
Bobcat Equipment Rentals (Richards Bay)	(035) 751-1511
Devray Plant & Earthworks (Richards Bay)	(035) 751-2141
Induna Logistics & Terminals (Richards Bay)	(035) 797 4100

KWAZULU-NATAL continued	
Major Machines (Merrivale)	(033) 330 5701
Marlisha Transport (Westmead)	(031) 700 8616
RADDS Transport(Empangeni)	(035) 787 3901
Sealcoat Surfacing & Asphalt (Pietermaritzburg)	(033) 386-8998
Scotty's Plant Hire (Durban)	(031) 700-8000
Scotty's Plant Hire (Pietermaritzburg)	(033) 386-1614
Superdigger Plant Hire (Cliff Dale)	(031) 736 6010
Universal Trading (Jacobs)	(031) 461 5008
Upfold Plant Hire (Shelly Beach)	(087) 808 6914
LIMPOPO	
Maruma Plant Hire (Pietersburg)	(015) 293-2902
Ovoscape Plant Hire (Polokwane)	(082) 716 3765
MPUMALANGA	
Opsicol Mining Services (Middelburg)	(013) 612-0503
T&F Construction	(016) 421-4656
NORTHERN CAPE	
Burma Plant Hire (Posmasburg)	(053) 313-3646
Igloo Plant Hire (Kathu)	(053) 723 1514
Ovoscape Plant Hire (Kuruman)	(082) 207 3797
T&F Construction	(016) 421-4656
NORTH-WEST	
Bobcat Equipment Rentals (Rustenburg)	(014) 538-1242
T&F Construction	(083) 306 4822
PORT ELIZABETH	
Burma Plant Hire (Port Elizabeth)	(041) 463-4033
Newport Plant Hire (Port Elizabeth)	(041) 463-2819
Rand Civils (Port Elizabeth)	(041) 581-7791
Sakhizwe Plant Hire (Port Elizabeth)	(082) 902 7000
SJW Plant (Port Elizabeth)	(041) 372 1845
Techni Civils (Newton Park)	(041) 364-3240
WESTERN CAPE	
Barloworld Cat Rental Store (Bellville)	(021) 959-8200
Bobcat Equipment Rentals Rental (Cape Town)	(021) 945-1423
Burma Plant Hire (Kuilsrivier)	(021) 905-8122
Sylco (Cape Town)	(021) 845-4494
T&F Construction	(016) 421-4656

23.1 MULTI-TERRAIN LOADERS

DELIVERY and / or COLLECTION not included

Mass (Ton)	Makes & Models	Daily Rate
4.5 Ton	Case 445CT	R 1 810,00

WHERE TO HIRE

GAUTENG	
Bears Plant Hire (Johannesburg)	(0861) 232-777

24. SMALL PLANT

DELIVERY and / or COLLECTION :

(1) LDV = R 9.00 per loaded kilometre, minimum charge = R 195.00

(2) Truck = R 16.00 per loaded kilometre, minimum charge = R 380.00

DEPOSIT : Minimum of 5 days hire payable on collection or delivery

DESCRIPTION		Daily RATE
EARTH AUGERS		
Hand driven		R 50,00
Motorised		R 250,00
BLOCK & TACKLE		
1.0 ton		R 67,00
1.5 ton		R 84,00
3.2 ton		R 116,00
BUILDER's HOISTS		
CABLE DETECTORS		
CHAIN SAWS	Electric	R 166,00
	Petrol	R 332.00
COMPRESSORS	Electric - 100 litre	R173.00
	Petrol - 100 litre	R250.00
CONVEYORS		
10m x 340mm		R 332,00
Delivery, Erection, Dismantle Charge - Local		R 830,00
DUMPY LEVELS	With Tripod	R250.00
	Without Tripod	R 211,00
EARTH TILLERSS		
EDGE TRIMMERS / WEEDEATERS		
	Elecric	R 159,00
	Petrol	R 159,00
HIGH PRESSURE CLEANERS		
	Elecric	R 183,00
	Petrol	R299.00
HILTI GUNS (excluding charges & nails)		R133.00
HOT AIR GUNS		
JACKING EQUIPMENT		
LADDERS	Extension - 9 m	R 125,00
	Extension - 11 m	R 149,00
	Folding - 2,5 m	R99.00
	Folding - 6 m	R 125,00
LAWNMOWERS		
	Elecric	R159.00
	Petrol	R159.00
LIFTING EQUIPMENT		R 60,00
MEASURING WHEELS		R60.00
METAL DETECTORS		
PICKS		R 17,00
PIPE CLAMPS		
PIPE THREADERS		R128.00

DESCRIPTION		Daily RATE
PLATE / ROUND COMPACTORS		
	Diesel	R 142,00
	Diesel, reversible (sr	R290.00
	Diesel, reversible (bi	R 416,00
	Petrol	R142.00
	Petrol, round 142.00	R 142,00
PLUMBING EQUIPMENT		
PRIME PUMPS		
	Mechanical, fire hea	R 212,00
	Motorised, gas heate	R 357,00
RAKES		R 17,00
RAMMERS	Diesel	R 275,00
	Petrol	R 250,00
REFUSE COMPACTORS		
ROAD BROOMS (excl. motive power unit)		
	Hydraulic	R 475,00
	Mechanical	R 368,00
Bristle Usage Charge (per mm used)		R 43,00
	Bristles (per set)	R 3 818,00
SAFETY EQUIPMENT		
SCAFFOLDING		
	Frames	R 28,00
	Planks	R 20,00
	Stays	R 9,00
SCREENING PLANTS		R 498,00
SEWER PIPE JET CLEANERS		R 498,00
SHOVELS		R 17,00
SHUTTERING		
SPACE HEATERS (LPG type)		R332.00
SPRAYPAINT GUNS		R 60,00
STEAM CLEANERS		
THEODOLITE		
	With Tripod	R416.00
	Without Tripod	R 374,00
TILE CUTTERS	Electric	R166.00
	Manual	R 100,00
WASTE REMOVAL EQUIPMENT		
WATER PIPE PRESSURE TESTERS		
	Mechanical	R 84,00
	Diesel	R 349,00
	Petrol	R 315,00

24. SMALL PLANT continued

DELIVERY and / or COLLECTION :

(1) LDV = R 9.00 per loaded kilometre, minimum charge = R 195.00

(2) Truck = R 16.00 per loaded kilometre, minimum charge = R 380.00

DEPOSIT : Minimum of 5 days hire payable on collection or delivery

DESCRIPTION		Daily RATE
WATER PUMPS		
Electric submersible -	50 mm	R142.00
Diesel centrifugal -	50 mm	R 142,00
Diesel centrifugal -	100 mm	R 183,00
Diesel centrifugal -	150 mm	R 1 494,00
Diesel centrifugal -	200 mm	R 1 660,00
Diesel submersible -	50 mm	R 233,00
Petrol centrifugal -	50 mm	R142.00
Petrol centrifugal -	75 mm	R183.00
Petrol submersible -	50 mm	R232.00
Diesel Spate Pump -	100mm	R 664,00
Petrol Spate Pump -	75mm	R 275,00

DESCRIPTION		Daily RATE
WELDING MACHINES (excl. rods, wire and gas)		
Diesel -	250 Amp	R332.00
Electric -	220 Amp	R 125,00
Petrol -	180 Amp	R300.00
Petrol -	200 Amp	R300.00
Tig / Mig		
WHEELBARROWS		R 33,00
WINCHES / TURFORS -	3 ton	R125.00

WHERE TO HIRE

BOTSWANA	
GHF (Pty) Ltd (Phakalane)	(00267) 392-2885
Jomaf Hiring Services (Gaborone)	(00267) 319-1585
Ngamiland Generator & Diesel Services (Maun)	(00267) 686-0253
Shumba Plant Hire (Maun)	(00267) 686-1100
BORDER	
Action Plant & Equipment (East London)	(043) 722-8294
Riegers Hire (East London)	(043) 732-1464
Talisman Hire	0861 87 87 87
Xesibe Construction (Lusikisiki)	(039) 253-7264
FREE STATE	
Babcock Plant Services (Sasolburg)	(016) 976-1075
Talisman Hire	0861 87 87 87
GAUTENG	
A1 Rigging & Engineering Services (JHB)	(011) 609-2040
Afritool-Rent (Johannesburg)	(011) 974-2819
Babcock Plant Services (Johannesburg)	(011) 418-4407
Brackenwest Hardware & Hire	(011) 867-6224
Brackenwest Hardware & Hire	(011) 867-6224
Bobcat Equipment Rentals Rental (Alrode)	(011) 389-4460
File Hire Plant (Boksburg)	(011) 397-6463
Generator & Plant Hire (Midrand)	(011) 312-0446
Hard Hat Equipment Hire (Halfway House)	(011) 609-6443
Ian Dickie & Co (Johannesburg)	(011) 609-4130
Performance Plant Hire (Randburg)	(011) 792-1224
Performance Plant Hire (Boksburg)	(011) 823-5480
Performance Plant Hire (Midrand)	(011) 312 5069
Propact Plant Hire (Johannesburg)	(011) 680-2137
Propact Plant Hire (Centurion)	(012) 653-0245
Rebel Plant Hire (Johannesburg)	(011) 882-1048
Renttech South Africa Plant Rental SA (Wadeville)	(011) 824-0410
Talisman Hire	0861 87 87 87

KWAZULU -NATAL	
Babcock Plant Services (Durban)	(031) 705-2733
B&B Plant & Equipment (Empangeni)	(035) 787-0679
Generator & Plant Hire (Durban)	(031) 466-4515
Generator & Plant Hire (Richards Bay)	(035) 751-1897
Hire Anything (Richards Bay)	(035) 789-5997
Ian Dickie & Co (Durban)	(031) 709-1313
KLM Plant Hire & Sales (Richards Bay)	(035) 789 0260
Machinery Mart (Durban)	(031) 301-7069
Marlisha Transport (Westmead)	(031) 700 8616
Need-A-Tool (Durban)	(031) 705-1470
Scotty's Plant Hire (Durban)	(031) 700-8000
Scotty's Plant Hire (Pietermaritzburg)	(033) 386-1614
Talisman Hire	0861 87 87 87
Tony's Tool Hire (Dundee)	(034) 212-5232
Tony's Tool Hire (Newcastle)	(034) 312 8396
Tony's Tool Hire (Pongola)	(034) 413-3023
LIMPOPO	
Talisman Hire	0861 87 87 87
MPUMALANGA	
Afritool-Rent (Secunda)	(017) 639-1433
Babcock Plant Services (Secunda)	(017) 631-2847
Babcock Plant Services (Middelburg)	(013) 246-2870
Performance Plant Hire	(013) 692-7441
Steinmuller Plant & Equipment Hire	(017) 624-5000
Talisman Hire	0861 87 87 87
Tony's Tool Hire (Piet Retief)	(017) 826-4683
NAMIBIA	
HireMAN	(00264) 612 228 185
Walvis Bay Plant & Tool Hire Services	(00264) 642-03787
Windhoek Hire Sales & Services (Windhoek)	+264 61 233693.

24. SMALL PLANT continued…

24. SMALL PLANT continued

WHERE TO HIRE

NORTHERN CAPE	
Talisman Hire	0861 87 87 87

NORTH-WEST	
Babcock Plant Services (Rustenburg)	(082) 810-1229
Bobcat Equipment Rentals Rental (Rustenburg)	(014) 538-1242
Talisman Hire	0861 87 87 87

PORT ELIZABETH	
Atlas Plant Hire (Port Elizabeth)	(041) 451-4266
Talisman Hire	0861 87 87 87

Swaziland	
TALISMAN Hire(Matsapha)	(00268) 2518 4210

WESTERN CAPE	
Generator & Plant Hire (Cape Town)	(021) 555-3238
Hiretech (Cape Town)	(021) 945-3317
Ian Dickie & Co (Cape Town)	(021) 534-3431
Talisman Hire	0861 87 87 87

25. SWEEPERS & SCRUBBERS, CLEANING EQUIPMENT

Prices exclude delivery / collection charges
Prices exclude VAT
Prices do not include fuel or operator
Operators can be provided
Prices are daily rates for minimum 5 day hire

Description	Capacity m2 / hr	Power source	Daily Rate
Push sweeper	1000	Manual	R 85,00
Ride on sweeper	6000	Battery	R 1 185,00
Ride on sweeper	10200	Diesel	R 1 525,00
Road sweeper	20000	Diesel	R 3 565,00
Walk behind scrubber / drier	3000	Battery	R 645,00
Ride on scrubber	4250	Battery	R 1 230,00
Ride on sweeper / scrubber	10000	Diesel or LPG	R 2 230,00
Rotary scrubber / polisher	1250	Electric	R 310,00
Wet & dry industrial vacuums	N/A	Electric	R 108,00

WHERE TO HIRE

BORDER		GAUTENG & NORTH-WEST	
Umso Construction (East London)	(043) 748-4747	Bears Plant Hire (Johannesburg)	(0861) 232-777
		Cubenco 194 (Vanderbijlpark)	(016) 931-9758
		Road Milling & Sweeping (Florida)	(011) 472 5333

26. TELESCOPIC HANDLERS

WHERE TO HIRE

BOTSWANA	
Shumba Plant Hire (Maun)	(00267) 686-1100

BORDER	
T&F Construction	(016) 421-4656
Universal Equipment (Port Elizabeth)	(041) 453-1810

FREE STATE	
Babcock Plant Services (Sasolburg)	(016) 976-1075
Barloword Equipment The Cat Rental Store (Sasolburg)	(016) 976-1184
T&F Construction	(016) 421-4656

GAUTENG	
A1 Rigging & Engineering Services (Johannesburg)	(011) 609-2040
Babcock Plant Services (Johannesburg)	(011) 418-4407
Barloworld Equipment The Cat Rental Store (Isando)	(011) 929-0600
Bobcat Equipment Rentals Rental (Alrode)	(011) 389-4460
Burma Plant Hire (Springs)	(071) 689-0711
Renico Plant Hire (Johannesburg)	(011) 794-1177
T&F Construction	(016) 421-4656

KWAZULU-NATAL	
Babcock Plant Services (Durban)	(031) 705-2733
Barloworld Cat Rental Store (New Germany)	(031) 569-8500
Need-A-Tool (Durban)	(031) 705-1470
Universal Trading (Jacobs)	(031) 461 5008

LIMPOPO	
Babcock Plant Services (Lepelale)	(079) 827-9227

MPUMALANGA	
Babcock Plant Services (Secunda)	(017) 631-2847
Babcock Plant Services (Middelburg)	(013) 246-2870
Ikotwe Plant Hire (White River)	(013) 750-1200
T&F Construction	(016) 421-4656

NAMIBIA	
Walvis Bay Plant & Tool Hire Services	(00264) 642-03787
Windhoek Hire Sales & Services	(+264) 6123 3693

NORTHERN CAPE	
Burma Plant Hire (Posmasburg)	(053) 313-3646
T&F Construction	(016) 421-4656

NORTH-WEST	
Babcock Plant Services (Rustenburg)	(082) 810-1229
Bobcat Equipment Rentals Rental (Rustenburg)	(014) 538-1242

PORT ELIZABETH	
Aerial Lifts Rentals (Port Elizabeth)	(083) 708-0473
Burma Plant Hire (Port Elizabeth)	(041) 463-4033
Sakhizwe Plant Hire (Port Elizabeth)	(082) 902 7000

WESTERN CAPE	
Barloworld Cat Rental Store (Bellville)	(021) 959-8200
Bobcat Equipment Rentals Rental (Cape Town)	(021) 945-1423
Goscor Access Rental (Cape Town)	(021) 510-7307
Sylco (Cape Town)	(021) 845-4494
T&F Construction	(016) 421-4656

27. TRAILERS

Description	Daily Rate
Diesel Bowser Forgeweld 1000 l	R165.00 - 240.00
General Purpose	POA
Roll-back	POA
Water Bowser 1000 - 5000 l	R165.00 - R785.00

WHERE TO HIRE

BOTSWANA	
Van & Truck Hire Hire (Gaborone)	(00267) 391-2280
Shumba Plant Hire (Maun)	(00267) 686-1100

BORDER	
Anchor Plant Hire (East London)	(043) 745-0330
Civil & General Contractors (Queenstown)	(045) 857-0176
Inyathi Plant Hire (Beacon Bay)	(043) 732-1124
Riegers Hire (East London)	(043) 732-1464
Roberts Bros. Construction (East London)	(043) 748-2588
SL Contractors (East London)	(043) 745-2002
Umso Construction (East London)	(043) 748-4747

FREE STATE	
Babcock Plant Services (Sasolburg)	(016) 976-1075

GAUTENG	
A-Z Engineering & Plant Hire (Johannesburg)	(011) 462-7907
Babcock Plant Services (Johannesburg)	(011) 418-4407
Liviero & Son (Kyalami)	(011) 466-2644
PG Plant Hire (Pretoria)	(012) 803-8714
Renttech South Africa Plant Rental SA (Wadeville)	(011) 824-0410
Sandton Plant Hire (Johannesburg)	(011) 805-3084
Theaco Roads & Earthworks (Vanderbijlpark)	(016) 451-3071

KwaZulu-Natal	
Afro Plant (Durban)	(031) 705-4490
Babcock Plant Services (Durban)	(031) 705-2733
BB Transport (Glencoe)	(034) 393-1861
Conan Construction (Pietermaritzburg)	(033) 346-2108
Dreykon (Dundee)	(034) 212-1246
EXR Construction (Mount Edgecombe)	(031) 539-9100
Induna Logistics & Terminals (Richards Bay)	(035) 797 4100
Leomat Plant Hire (Richards Bay)	(035) 797-4611
McKenzie Plant Hire (Richmond)	(033) 212-2181

KwaZulu-Natal continued	
Savemor Earthmoving (Durban)	(031) 702-9441
Sealcoat Surfacing & Asphalt (Pietermaritzburg)	(033) 386-8998
Tony's Tool Hire (Dundee)	(034) 212-5232
Tony's Tool Hire (Newcastle)	(034) 312 8396
Tony's Tool Hire (Pongola)	(034) 413-3023

LIMPOPO	
Babcock Plant Services (Lepelale)	(079) 827-9227
Ovoscape Plant Hire (Polokwane)	(082) 716 3765

MPUMALANGA	
Babcock Plant Services (Secunda)	(017) 631-2847
Babcock Plant Services (Middelburg)	(013) 246-2870
Isambane Mining (Middleburg)	(071) 681-9939
Steinmuller Plant & Equipment Hire	(017) 624-5000
Tony's Tool Hire (Piet Retief)	(017) 826-4683

NAMIBIA	
Walvis Bay Plant & Tool Hire Services	(00264) 642-03787

NORTHERN CAPE	
Ovoscape Plant Hire (Kuruman)	(082) 207 3797

NORTH-WEST	
Babcock Plant Services (Rustenburg)	(082) 810-1229
Elmar Projects (Swartruggens)	(014) 544-0677

PORT ELIZABETH	
DK Pringle Earthworks (Bedford)	(046) 685-0858
Scribante Construction (Port Elizabeth)	(041) 484-7211
Stu Davidson & Sons (Port Elizabeth)	(041) 581-7711

WESTERN CAPE	
Hiretech (Cape Town)	(021) 945-3317
Stelval Crane Hire (Epping Industrial)	(021) 534-4291

28. TRACTORS

Description	Typical Makes & Models	Hourly Rate
Agricultural-Rigid		
4 - 6 ton	Bell 1226,1866, Dezzi H60,H120T,Ford 5000, Massey Ferguson 290	R 123,00
Tow Tractors		
8 - 12 ton	Bell 2406D,Dezzi AH180	R 265,00
12 - 15 ton	Bell 2806D	R 305,00
15 - 20 ton	Bell 4206D	R 370,00

WHERE TO HIRE

BOTSWANA	
Excavator Hire (Gaborone)	(00267) 392-8392
Shumba Plant Hire (Maun)	(00267) 686-1100
BORDER	
Civil & General Contractors (Queenstown)	(045) 857-0176
Inyathi Plant Hire (Beacon Bay)	(043) 732-1124
Riegers Hire (East London)	(043) 732-1464
Roberts Bros. Construction (East London)	(043) 748-2588
SL Contractors (East London)	(043) 745-2002
Umso Construction (East London)	(043) 748-4747
FREE STATE	
Express Plant Hire (Bloemfontein)	(051) 436-4891
Sigg's Engineering & Projects (Sasolburg)	(016) 971-1204
GAUTENG	
ALS Group	(086) 125-7257
Babcock Plant Services (Johannesburg)	(011) 418-4407
Bulk Machine Hire	(011) 964-1179
L & J Gemmel Plant Services (Benoni)	(011) 965-1463
Renico Plant Hire (Johnnesburg)	(011) 794-1177
KwaZulu-Natal	
ALS Group (Newcastle)	(034) 341-1636
Aqua Transport & Plant Hire (Pinetown)	(031) 716-2300
Babcock Plant Services (Durban)	(031) 705-2733
BB Transport (Glencoe)	(034) 393-1861
City Park Trading (Mtubathuba)	(035) 550-1162
Dreykon (Dundee)	(034) 212-1246

KwaZulu-Natal continued	
Ekene Investments (Queensburgh)	(031) 767 1033
EXR Construction (Mount Edgecombe)	(031) 539-9100
Hire Anything (Richards Bay)	(035) 789-5997
Major Machines (Merrivale)	(033) 330 5701
Protrans Plant & Civils (Port Shepstone)	(039) 6682 5695
Sealcoat Surfacing & Asphalt (Pietermaritzburg)	(033) 386-8998
Sobuza Investments (Pinetown)	(031) 100 1023
VIP Construction cc (Pietermaritzburg)	(076) 399 4596
LIMPOPO	
Ovoscape Plant Hire (Polokwane)	(082) 716 3765
MPUMALANGA	
ALS Group (Witbank)	(013) 689-1128
Babcock Plant Services (Secunda)	(017) 631-2847
Babcock Plant Services (Middelburg)	(013) 246-2870
Isambane Mining (Middleburg)	(071) 681-9939
Steinmuller Plant & Equipment Hire	(017) 624-5000
NORTHERN CAPE	
Ovoscape Plant Hire (Kuruman)	(082) 207 3797
NORTH-WEST	
ALS Group	(086) 125-7257
Babcock Plant Services (Rustenburg)	(082) 810-1229
Elmar Projects (Swartruggens)	(014) 544-0677
PORT ELIZABETH	
DK Pringle Earthworks (Bedford)	(046) 685-0858
Rand Civils (Port Elizabeth)	(041) 581-7791
Scribante Construction (Port Elizabeth)	(041) 484-7211

29. TRAXCAVATORS

Mass (ton)	Typical Makes & Models	Hourly Rate
4 - 10 ton	Komatsu D31S	R 123,00
10 - 15 ton	Cat 943, 953, Fiatallis FL10c, Komatsu D53-5	R 190,00
15 - 20 ton	Komatsu D57-S, Fiatallis FL 14c	R 280,00
20 - 25 ton	Cat 963, Komatsu D75-S3	R 305,00
25 - 30 ton	Cat 973, Fiatallis FL20	R 363,00

WHERE TO HIRE

GAUTENG & NORTH-WEST	
A-Z Engineering & Plant Hire (Johannesburg)	(011) 462-7907
EPH Plant Hire (Centurion)	(012) 660-3312
KwaZulu-Natal	
McKenzie Plant Hire (Richmond)	(033) 212-2181

NAMIBIA	
Windhoek Hire Sales & Services (Windhoek)	+264 61 233693.
PORT ELIZABETH	
Scribante Construction (Port Elizabeth)	(041) 484-7211

30. TRENCHES

Description	Hourly RATE	Description	Hourly Rate
Ditch Witch 1420	R 150,00	Ditch Witch 6510	R 307,00
Ditch Witch 2300	R 205,00	Ditch Witch 8100	R 395,00

WHERE TO HIRE

BORDER		WESTERN CAPE	
Thompson's Transport (Queenstown)	(045) 839-5850	Burma Plant Hire (Kuilsrivier)	(021) 905-8122
Plus Plant Hire (East London)	(043) 736-3541		
GAUTENG & NORTH-WEST			
Bears Plant Hire (Johannesburg)	(0861) 232-777		

31. TRUCKS

Description		Hourly Rate
Articulated Dump Trucks (ADT's)		
11 - 13 m3	Bell 18E & 20E, Dezzi AD20B	R 586,90
14 - 16 m3	Bell 25E, 30E; CAT 725C, Dezzi AD25B	R 804,80
17 - 20 m3	Bell 35D; CAT 730C,735B, Dezzi AD30B	R 960,55
21 - 25 m3	Bell 40D; Doosan DA30; CAT 740B	R 1 131,15
26 - 30m3	Bell 45D; 50D; Doosan DA40	R 1 331,13
Concrete Mixer Trucks		
5 - 6 m3		R 325,00
Crane Trucks (Lift Capacity)		
2 - 4 ton		R 238,00
4 - 6 ton		R 278,00
6 - 8 ton		R 332,00
Flatbed Trucks		
2 - 4 ton		R 150,00
4 - 6 ton		R 198,00
6 - 8 ton		R 254,00
Lowbeds Less than 30 tons		
	Local move (per trip)	R 1 363,00
	Local or long distance move (per hour)	R 397,00
	Local or long distance move (per km)	R 14,00
Lowbeds 30 - 40 tons		
	Local move (per trip)	R 1 665,00
	Local or long distance move (per hour)	R 436,00
	Local or long distance move (per km)	R 16,00
Lowbeds more than 40 tons		
	Local move (per trip)	R 1 900,00
	Local or long distance move (per hour)	R 515,00
	Local or long distance move (per km)	R 18,00
Roll-Back Trucks		
8 ton	Local move(per trip)	R 658,00
8 ton	Local or long distance move (per hour)	R 238,00
8 ton	Local or long distance move (per km)	R 7,00
Tipper Trucks		
5 m3		R 191.00 (per hour)
10 m3		R 254.00 (per hour)
15m3		R 316.00 (per hour)
Water Carts		
4 - 6 000 litres		R 191.00 (per hour)
6 - 10 000 litres		R 221.00 (per hour)
10 - 15 000 litres		R 355.00 (per hour)

Please continue to next page ....

31. TRUCKS

WHERE TO HIRE

BOTSWANA

Anchor Plant Hire (East London)	(043) 745-0330
Babcock TCM Plant (Gaborone)	(00267) 393-6541
Excavator Hire (Gaborone)	(00267) 392-8392
GHF (Pty) Ltd (Phakalane)	(00267) 392-2885
Ngamiland Generator & Diesel Services (Maun)	(00267) 686-0253
Rhino Plant Hire (Gaborone)	(00267) 392-2512
Shumba Plant Hire (Maun)	(00267) 686-1100
Van & Truck Hire Hire (Gaborone)	(00267) 391-2280

BORDER

AE Plant Hire (East London)	(083) 654-99871
Allen & Clarke Civil Eng. Contractors (East London)	(043) 726-2076
Bitline SA 1060 (Mthatha)	(047) 532 4691
Civil & General Contractors (Queenstown)	(045) 857-0176
Emandleni Trading Enterprises (Mthatha)	(047) 531 3975
Inyathi Plant Hire (Beacon Bay)	(043) 732-1124
Mvezo Plant Hire (East London)	(043) 745-0467
Ntutu Civils & Construction (East London)	(043) 700-8700
Orange Plant Hire (Queenstown)	(045) 839 2370
Plus Plant Hire (East London)	(043) 736-3541
Qush Plant Hire (Vincent)	(043) 050 4444
Riegers Hire (East London)	(043) 732-1464
Roberts Bros. Construction (East London)	(043) 748-2588
Rumdel (Cape) (East London)	(043) 748-6417
SL Contractors (East London)	(043) 745-2002
Sokhulu Truck & Plant Hire (Matatiele)	(039) 737 4384
T&F Construction	(016) 421-4656
Ukamva Civils (Mthatha)	(047) 531 1007
Umso Construction (East London)	(043) 748-4747
WC Plant Hire (Gonubie)	(043) 732-1833
Xesibe Construction (Lusikisiki)	(039) 253-7264

FREE STATE

Sigg's Engineering & Projects (Sasolburg)	(016) 971-1204
T&F Construction	(016) 421-4656

GAUTENG & NORTH-WEST

A-Z Engineering & Plant Hire (Johannesburg)	(011) 462-7907
Active Construction & Equipment (Benoni)	(011) 425-4890/1
ALS Group (Centurion)	(012) 640-0040
Barloworld Cat Rental Store (Isando)	(011) 929-0419
Basil Read Plant (Johannesburg)	(011) 418-6300
Bears Plant Hire (Johannesburg)	(0861) 232-777
Bulk Machine Hire	(011) 964-1179
Burma Plant Hire (Springs)	(071) 689-0711
C.A.T.S Plant Hire (Roodepoort)	(011) 474-4261
Catkom Plant (Boksburg North)	(011) 892 0775
Cubenco 194 (Vanderbijlpark)	(016) 931-9758
Diesel Power Group (Bredell)	(086) 196-1177
Eco Plant Hire (Kew)	(082) 555 0095
EPH Plant Hire (Centurion)	(012) 660-3312
Hennop Crane Hire (Johannesburg)	(011) 828-0427
Hennox 170 (Johannesburg)	(011) 024 1057
Ian Dickie & Co (Johannesburg)	(011) 609-4130
Jumbo Machine Moving (Alrode)	(011) 100-0908

GAUTENG & NORTH-WEST continued

KLT Machinery & Plant Hire	(011) 730-7501
L & J Gemmel Plant Services (Benoni)	(011) 965-1463
L&R Civil (Fourways)	(086) 133 3667
Liviero & Son (Kyalami)	(011) 466-2644
MD Plant & Equipment Sales (Bryanston)	(011) 706-7275
Mzansi Plant Hire (Centurion)	(012) 669 3296
Ngaphambi Hire (Alberton)	(011) 869-9279
PG Plant Hire (Pretoria)	(012) 803-8714
Plant Technical Services (Johannesburg)	(011) 794-1628
Pro-file Plant Hire (Johannesburg)	(016) 150-0533
Platinum Mile Plant (Witkoppies)	(083) 388 5959
Propact Plant Hire (Johannesburg)	(011) 680-2137
Rickharding Plant Hire (Kempton Park)	(011) 979 4052
Renico Plant Hire(Johnnesburg)	(011) 794 1177
Renttech South Africa Plant Rental SA (Wadeville)	(011) 824-0410
Rhino Excavator Hammers (Honeydew)	(086) 111-5422
Road Milling & Sweeping (Florida)	(011) 472 5333
Sandton Plant Hire (Johannesburg)	(011) 805-3084
Spare Power Trading (Benoni)	(011) 845 4184
T&F Construction (Vereeniging)	(016) 421-4656
Theaco Roads & Earthworks (Vanderbijlpark)	(016) 451-3071
West Reef Plant Hire (Heidelberg)	(011) 348-1499

KWAZULU-NATAL

Afro Plant (Durban)	(031) 705-4490
ALS Group (Newcastle)	(034) 341-1636
Amaphiko Ejuba Transport Enterprises (Pinetown)	(031) 701-4759
Aqua Transport & Plant Hire (Pinetown)	(031) 716-2300
Babcock Plant Services (Durban)	(031) 705-2733
Barloworld Cat Rental Store (New Germany)	(031) 569-8500
BB Transport (Glencoe)	(034) 393-1861
Conan Construction (Pietermaritzburg)	(033) 346-2108
City Park Trading (Mtubathuba)	(035) 550-1162
Desmonds Transport & Plant Hire (Port Shepstone)	(039) 685-4100
Devray Plant & Earthworks (Richards Bay)	(035) 751-2141
Dreykon (Dundee)	(034) 212-1246
Dudula Civils (Pietermartizburg)	(033) 346 4121
Ekene Investments (Queensburgh)	(031) 767 1033
EXR Construction (Mount Edgecombe)	(031) 539-9100
GR Transport & Plant Hire (Darnall)	(035) 486-1903
Hire Anything (Richards Bay)	(035) 789-5997
Ian Dickie & Co (Durban)	(031) 709-1313
Induna Logistics & Terminals (Richards Bay)	(035) 797 4100
JCR Transport (Pinetown)	(031) 700-6833
Leomat Plant Hire (Richards Bay)	(035) 797-4611
LT Earthmovers (Wartburg)	(033) 503-1355
Mabona Civils & Plant Hire (Kokstad)	(039) 727 146
Major Machines (Merrivale)	(033) 330 5701
Marlisha Transport (Westmead)	(031) 700 8616
McKenzie Plant Hire (Richmond)	(033) 212-2181
Midmar Plant Hire (Westmead)	(031) 700-9061
Morgado Plant Hire (Durban)	(031) 569-4750
Motwell Plant Hire (Illovo Beach)	(082) 496 9673

31. TRUCKS continued

WHERE TO HIRE

KWAZULU-NATAL continued

Pat Smith Plant Hire (Dundee)	(034) 218-1295
Protrans Plant & Civils (Port Shepstone)	(039) 6682 5695
RADDS Transport(Empangeni)	(035) 787 3901
Sage Trans (Durban)	(031) 266 1492
Savemor Earthmoving (Durban)	(031) 702-9441
Scotty's Plant Hire (Pietermaritzburg)	(033) 386-1614
Scotty's Plant Hire (Durban)	(031) 700-8000
Sealcoat Surfacing & Asphalt (Pietermaritzburg)	(033) 386-8998
Sobuza Investments (Pinetown)	(031) 100 1023
Superdigger Plant Hire (Cliff Dale)	(031) 736 6010
Tony's Tool Hire (Dundee)	(034) 212-5232
Tony's Tool Hire (Newcastle)	(034) 312 8396
Tony's Tool Hire (Pongola)	(034) 413-3023
Tswella Trading (Kokstad)	(039) 727 5907
Ubunye Plant Hire (Queensburgh)	(031) 464-6551
Ubunye Plant Hire (Queensburgh)	(031) 464-6551
Universal Trading (Jacobs)	(031) 461 5008
Upfold Plant Hire (Shelly Beach)	(087) 808 6914
VIP Construction cc (Pietermaritzburg)	(076) 399 4596

LIMPOPO

Assert Plant Hire (Polokwane)	(014) 763-6720
Kingdom Plant (Tzaneen)	(015) 307-3950
Maruma Plant Hire (Pietersburg)	(015) 293-2902
Ovoscape Plant Hire (Polokwane)	(082) 716 3765

MPUMALANGA

ALS Group (Witbank)	(013) 689-1128
Central Africa Machine Sales (Witbank)	(013) 691-2102
Cranes 4 Hire (Witbank)	(013) 696-1146
Cranes 4 Hire (Middelburg)	(013) 699-9701
F&K Hire (Middleburg)	(013) 246-1701
T&F Construction	(016) 421-4656
Ikotwe Plant Hire (White River)	(013) 750-1200
Isambane Mining (Middleburg)	(071) 681-9939
Opsicol Mining Services (Middelburg)	(013) 612-0503
Quality Plant Hire (Tzaneen)	(015) 304-3000
T&F Construction	(016) 421-4656
Tony's Tool Hire (Piet Retief)	(017) 826-4683

NAMIBIA

Roads Contractor Company (Windhoek)	(00264) 612 979 000
Walvis Bay Plant & Tool Hire Services	(00264) 642-03787
Wesbank Transport (Walvis Bay)	(00264) 6421 6000
Windhoek Hire Sales & Services (Windhoek)	+264 61 233693.
Windhoek Renovations (Windhoek)	(00264) 6123-6159

NORTHERN CAPE

ALS Group (Upington)	(054) 334-0140
Burma Plant Hire (Posmasburg)	(053) 313-3646
Igloo Plant Hire (Kathu)	(053) 723 1514
Ovoscape Plant Hire (Kuruman)	(082) 207 3797
T&F Construction	(016) 421-4656

NORTH-WEST

ALS Group	(086) 125-7257
Astrum Equipment (Brits)	(012) 003 2137
Babcock Plant Services (Rustenburg)	(082) 810-1229
Elmar Projects (Swartruggens)	(014) 544-0677
North Reef Mining (Klerksdorp)	(018) 464-4071
West Rand Plant Hire (Orkney)	(018) 473-5551

PORT ELIZABETH

Algoa Plant Hire (Port Elizabeth)	(041) 453-2164
Burma Plant Hire (Port Elizabeth)	(041) 463-4033
DK Pringle Earthworks (Bedford)	(046) 685-0858
Ian Dickie & Co (Port Elizabeth)	(041) 451-1577
Lexintons Civil & Plant (Port Elizabeth)	(041) 372-1850
Newport Plant Hire (Port Elizabeth)	(041) 463-2819
Primo Plant Hire (Humewwod)	(082) 973-4496
Rand Civils (Port Elizabeth)	(041) 581-7791
Sakhizwe Plant Hire (Port Elizabeth)	(082) 902 7000
Scribante Construction (Port Elizabeth)	(041) 484-7211
SJW Plant (Port Elizabeth)	(041) 372 1845
Stu Davidson & Sons (Port Elizabeth)	(041) 581-7711
Techni Civils (Newton Park)	(041) 364-3240
Uitenhage Crane & Plant Hire (Uitenhage)	(041) 922-8060
Venter Plant Hire	(082) 655 7590

WESTERN CAPE

Barloworld Cat Rental Store (Bellville)	(021) 959-8200
Burma Plant Hire (Kuilsrivier)	(021) 905-8122
Ian Dickie & Co (Cape Town)	(021) 534-3431
Mainline Civil Engineering Contractors (Woodstock)	(021) 461 7499
Rainbow Plant Hire (Worcester)	(023) 347-0739
Stelval Crane Hire (Epping Industrial)	(021) 534-4291
Sylco (Cape Town)	(021) 845-4494
T&F Construction	(016) 421-4656
Transand (Hartenbos)	(044) 695-0105
Umhlaba Plant Hire (Kraaifontein)	(021) 987-1650/2