

CURRICULUM VITAE

Name:	Bongani Darryl Khupe
Profession:	Environmental Scientist
Professional Qualification/ Training:	<p>Bsc. Hons in Applied Environmental Science; University of Zimbabwe, 2004</p> <p>Introduction to SAMTRAC, NORSA, 2010.</p> <p>Environmental Law Short Course, Rhodes University, 2011</p> <p>Environmental Auditing, Aspects International, 2012</p> <p>Fundamentals of Project Management, University of the Witwatersrand, 2013</p> <p>ISO 14001:2015 Understanding and Implementation of Environmental Management Systems, SABS, 2016</p> <p>14001:2015, Lead Auditor, WTH Management and Training, 2017</p> <p>Environmental and Social Risk Management (ESRM) Training of Trainers Course, International Finance Corporation (IFC), 2018</p> <p>Master Class on E&S Sustainability Management (European Investment Bank), 2018</p>
Professional Membership/ Registrations:	<ul style="list-style-type: none"> Professional Natural Scientist (SACNSP- # 400375/11) Environmental Auditor (IEMA - #0051390) Provisional Auditor (SAATCA – # E4832):
Current Employer:	Environmental Impact Management Services (Pty) Ltd.

KEY EXPERIENCE

Mr Khupe is a registered Professional Natural Scientist who holds a Bachelor of Science Honours degree in Applied Environmental Science from the University of Zimbabwe and is a trained Environmental Auditor (Crystal Clear, 2012). His training included all aspects of Environmental Auditing as well as EMS auditing in terms of ISO14001. In addition, he is trained on the ISO14001:2015 environmental standard and has completed the EMS lead auditor training in terms of ISO14001:2015. Mr Khupe is registered with the Institute of Environmental Management and Assessment (IEMA) as an Environmental Auditor. He has more than 13 years' experience in the environmental field. His key focus is on environmental compliance advice and monitoring, environmental impact assessments, environmental permitting, public participation and consultation, environmental management plans and programmes, strategic environmental advice, rehabilitation advice and monitoring as well as providing technical input for projects in the environmental management field. . He also has separate training on Environmental and Social Management Systems from the IFC and European Investment Bank.



CAREER SUMMARY

Period: January 2013 to Present	Organisation: EIMS	Position: Senior Environmental Consultant
Key Projects/Assignments	<ul style="list-style-type: none"> • Project Manager and Senior Consultant on various projects including the following: <ul style="list-style-type: none"> ❖ Eskom Medupi and Matimba coal-fired power stations application for alternative limits in terms of the Minimum Emission Standards. ❖ Vlakfontein Coal Mine Risk assessment, Mpumalanga Province. ❖ Project manager for the Sasol Secunda Plant Air Quality Education and Awareness Project as part of the offset programme required by the plants Air Emissions License ❖ Project manager for the Sasol Secunda Plant AEL bi-annual Public Participation sessions as required by the plants Air Emissions License. ❖ The development of the City of Johannesburg Metropolitan Municipality's waste by-laws compliance monitoring and enforcement strategy and related guidelines ❖ Integrated Environmental Authorisation for a Waste License and WUL for a new ash disposal facility for Eskom's Arnot Power Station, Mpumalanga State Province. ❖ EIA and EMP for the proposed Motouane Henneman Exploration Right, Free State Province ❖ EIA and EMP for the proposed Motouane Ladysmith Exploration Right, Free State Province ❖ Waste License and Air Emissions License for Ecorevert Pyrolysis Plant and Refinery, Waddeville, Johannesburg ❖ EIA and EMP for the proposed AES Wind Energy Facility, Northern Cape Province ❖ Basic Assessment for the proposed construction of Three New Bulk Water Reservoirs near Giyani, Limpopo Province (Mopani District Water and Wastewater Revitalisation Programme) ❖ Basic Assessment for the proposed construction of Giyani Waste Water Treatment works near Giyani, Limpopo Province (Mopani District Water and Wastewater Revitalisation Programme) ❖ EMP for the proposed Bethal station siding coal handling facility, Mpumalanga Province ❖ EMP for the proposed Grootvlei Coal Handling Facility, Mpumalanga Province ❖ EMP for the proposed Belfast Coal Handling Facility, Mpumalanga Province. • Permit applications and S24 rectification applications for the following <ul style="list-style-type: none"> ❖ Construction and upgrade of the bulk water supply and water reticulation infrastructure within the Giyani Local Municipality (Mopani District Water and Wastewater Revitalisation Programme) ❖ Construction of dam and a road within a watercourse on Portion 1 Of Farm Groenfontein 126, Dinokeng, City of Tshwane Metropolitan Municipality ❖ Air Emissions License for Ecorevert Pyrolysis Plant and Refinery, Waddeville, Johannesburg. ❖ Water Use License for the construction of dam and a road within a watercourse on Portion 1 Of Farm Groenfontein 126, Dinokeng, City of Tshwane Metropolitan Municipality ❖ Water Use License for Belfast Coal Handling Facility, Mpumalanga Province • Environmental Control Officer Manager for the following projects: 	



	<ul style="list-style-type: none"> ❖ Transnet New Multi Product Pipeline (NMPP) Project, responsible for the day to day co-ordination and management of 3 full time ECO's appointed to this project. ❖ Retrofitting of the existing Electrostatic Precipitators (ESPs) with Fabric Filter Plants (FFPs) for Eskom Grootvlei Power Station, responsible for the day to day co-ordination, management and technical support for 2 full time ECO's appointed to this project. ❖ Construction of Eskom Kusile Power Station, responsible for the day to day co-ordination, management and technical support for 2 full time ECO's appointed to this project • Environmental Control Officer of the following projects <ul style="list-style-type: none"> ❖ Construction of Eskom Klevebank-Ithuba-Dalkeith 88kV powerline ❖ Rehabilitation of the Sandspruit River Basin, Killarney Golf Course, Johannesburg • Environmental Auditor on the following projects: <ul style="list-style-type: none"> ❖ ISO14001: 2015 Environmental Management System Internal Audit for De Beers Venetia Mine. ❖ Integrated Water Use License Audit for Sasol Mining Block 3, Secunda. Audit included the following Sasol Mines and operational areas; <ul style="list-style-type: none"> ○ Bosjesspruit Mining Operations, ○ Brandspruit Mining Operations, ○ Middelbult Mining Operations, ○ Twistdraai Mining Operations, ○ Twistdraai Export Plan, ○ Engineering Support Services, and ○ Sasol Coal Supply. ❖ Water Use License Audit for Sasol Irenedale Mine Service Water Dam, Secunda ❖ Annual Environmental Compliance Audit report for the operation of Sasol Dyno Nobel (Pty) Ltd Ekandustria. ❖ Environmental Legal Review Audit for compliance to ISO14001 for Eskom Tutuka Power Station. ❖ Environmental Legal Review Audit for Eskom Majuba Power Station. ❖ Quarterly Environmental Compliance and IFC Audits (Lenders requirements) for Eskom's Ingula Pumped Storage Scheme (12 Audits). ❖ Annual Environmental Compliance and IFC Audits (lenders requirements) for Cennergi's Amakhala Emoyeni Wind Energy Facility. ❖ Environmental Legal Review Audit for compliance to ISO14001 for Eskom Group Capital Division Office (GCDO). ❖ Environmental Legal Review Audit for compliance to ISO14001 for Eskom Power Delivery Projects (PDP). Audit included the project sites such as the construction of the Kappa-Sterrekus 765Kv powerline (Western Cape), construction of the Aries-Neuwenhoop transmission powerline (Northern Cape), construction of the Kookfontein Substation (Gauteng) and the construction of the Hendrina-Gumeni powerlines. ❖ Environmental Legal Review Audit for compliance to ISO14001 for Eskom Medupi Power Station Construction. ❖ Environmental Legal Review Audit for compliance to ISO14001 for Eskom Real Estate. Audit included the following project sites such as Megawatt Park (MWP), Mkondeni Regional Office in Pietermaritzburg and Koeberg Nature Reserve. <ul style="list-style-type: none"> ○ Environmental Legal Review Audit for Eskom Medupi Power Station Operational Phase
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Period: October 2010- December 2012	Organisation: Savannah Environmental (Pty) Ltd	Position: Environmental Consultant
Key Projects/Assignments	<ul style="list-style-type: none"> • Giving input and assisting in Public Participation projects, • Sourcing and managing external specialist, • Client and Authority Liaison, • Conducting/Attending project meetings • New project procurement • Conducting Environmental Impact Assessments (EIA) and Basic Assessments (BAR) for the following <ul style="list-style-type: none"> ❖ EIA for the proposed Oyster Bay Wind Energy Facility on a site near Oyster Bay, Eastern Cape Province (for Renewable Energy Systems) ❖ EIA and EMP for the proposed Ramphele PV Solar Energy Facility, near Kimberley, Northern Cape Province (Solar Capital) ❖ EIA and EMP for the proposed Ilanga Lethemba PV Solar Energy Facility, near De Aar, Northern Cape Province (for Solar Capital) ❖ Basic Assessment proposed RustMo1 PV solar Energy Facility, Near Buffelspoort, North West Province (for Momentous Energy) ❖ Basic Assessment proposed RustMo2 PV Solar Energy Facility, Near Buffelspoort, North West Province (for Momentous Energy) ❖ EIA and EMP for the proposed Hantam PV Solar Energy Facility, near Loerisfontein, Northern Cape Province (for Solar Capital) ❖ EIA and EMP for the proposed Karoo Renewable Energy Facility on a Site south of Victoria West, Northern and Western Cape Province (for SARGE) ❖ BAR and EMP for the proposed O'kiep 1 PV Solar Energy Facility on a site in O'kiep near Springbok, Northern Cape Province (for SARGE) ❖ BAR and EMP for the Proposed O'kiep 2 PV Solar Energy Facility on a site in O'kiep near Springbok, Northern Cape Province (for SARGE) ❖ BAR and EMP for the proposed Nigramoep PV Solar Energy Facility near Nababeep, Northern Cape Province (for SARGE) ❖ BAR and EMP for the proposed Nigramoep PV Solar Energy Facility near Nababeep, Northern Cape Province (for SARGE) ❖ BAR and EMP for the proposed Carolusberg PV Solar Energy Facility on a site near Carolusberg, Northern Cape Province (for SARGE) ❖ EIA and EMP for the proposed Kabi Vaalkop Solar PV Facility on a site near Orkney, North West Province (for Kabi Solar) ❖ EIA and EMP for the proposed Kabi Witkop Solar PV Facility on a site near Orkney, North West Province (for Kabi Solar) ❖ BAR and EMP for the proposed Kgabalatsane PV 1 Solar Energy facility on a site near Brits, North West province (for Built Environment Africa Energy Services (Pty) Ltd) ❖ BAR and EMP for the proposed Kgabalatsane PV 1 Solar Energy facility on a site near Brits, North West province (for Built Environment Africa Energy Services (Pty) Ltd) ❖ BAR and EMP for the proposed RustMo3 PV Solar Energy Facility, Near Buffelspoort, North West Province (for Momentous Energy) ❖ BAR and EMP for the proposed RustMo4 PV Solar Energy Facility, Near Buffelspoort, North West Province (for Momentous Energy) ❖ EIA and EMP proposed Garob Wind Energy facility near Copperton, Northern Cape Province (for Juwi renewables) ❖ EIA and EMP for the proposed Wind Energy Facility on a site near Molteno, Eastern Cape Province (for Rainmaker Energy Projects) ❖ BAR and EMP for the proposed Kokerboom PV Solar Power Facility on a site south of Springbok, Northern Cape Province (for BQR South Africa) 	



	<ul style="list-style-type: none">❖ BAR and EMP for the proposed Baobab PV Solar Power Facility on a site north of Kamieskroon, Northern Cape Province (for BQR South Africa)❖ EIA and EMP for the proposed Elliot Wind Energy Facility, Eastern Cape Province (for Rainmaker Energy Projects)❖ EMP for the reinstatement of the Standerton Tutuka Railway line, near Standerton, Mpumalanga Province (For Eskom Holdings)❖ Basic Assessment for the Proposed Raw water pipelines for Medupi Power station, Lephalale, Limpopo Province (for Eskom Holdings)• Environmental Compliance Monitoring (ECO/Auditor);<ul style="list-style-type: none">❖ Olifants River Water Resources Development Project (ORWRDP), De Hoop Dam, Compliance monitoring for all project phases including rehabilitation (For Department of Water Affairs)❖ Cookhouse Wind Energy Facility Pre-Construction EMP Implementation, Eastern Cape Province (For ACED)❖ Neptune-Vuyane power line construction, Eastern Cape Province, responsible for the day to day co-ordination, management and technical support of 1 full time ECO's appointed to this project• Strategic & regional assessments for energy facilities,<ul style="list-style-type: none">❖ Site screening assessment for renewable energy facility development for three identified sites in the Northern & Eastern cape provinces (Networx)❖ Environmental Due Diligence Report for the Vaal River Solar 1 PV Facility (Enertis Solar)❖ Environmental Screening Report for the proposed Groenfontein Collieries and Lengau Power Station Projects near Vierfontein, Free State Province (Cennergi)• Permitting and other projects<ul style="list-style-type: none">❖ Vaal River Solar 1 PV Facility application for Approval from the Department of Mineral Resources (DMR) to use land surface contrary to the objects of the Act in terms of section 53 of the Mineral and Petroleum Resources Development Act (for Kabi Solar)❖ Witkop PV Facility application for Approval from the Department of Mineral Resources (DMR) to use land surface contrary to the objects of the Act in terms of section 53 of the Mineral and Petroleum Resources Development Act (for Kabi Solar)❖ Sol Plaatje Solar Photovoltaic Facility application for Approval from the Department of Mineral Resources (DMR) to use land surface contrary to the objects of the Act in terms of section 53 of the Mineral and Petroleum Resources Development Act (for Kabi Solar)	
Period: August 2009-September 2010	Organisation: EIMS	Position: Environmental Control Officer (ECO)
Key Projects/Assignments	Employed by Environmental Impact Management Services (Pty) Ltd (EIMS) as an Independent Environmental Control Officer (ECO) on the Transnet New Multi Product Pipeline (NMPP) Project. His responsibilities in the NMPP project included the following: <ul style="list-style-type: none">• Liaison with the Construction Environmental Manager (contractor's environmental manager), Environmental Officers (appointed by the contractor) and Environmental Manager (Transnet Representative).• Implementing the EMP and Environmental Authorisation compliance monitoring and recommending corrective action for any noncompliance incidents on the construction site.	



	<ul style="list-style-type: none"> Monitoring the daily construction operation, recording (in writing and photographically) any non-compliances/ incidents and areas of concern with respect to the Environmental Authorisation and related documentation Submitting concise environmental compliance daily reports via email to all relevant parties Providing ad hoc advice, liaison and clarification on compliance issues and environmental issues to the contractor, environmental officers and Authorities Conducting Pre-Construction surveys along the alignment route of the pipeline to identify and peg sensitive environments (Wetlands, rivers, red data species, etc) and areas of cultural significance (heritage areas). Keeping photographic record of Pre-Construction Survey so as to aide in rehabilitation of the pipeline after construction Monitoring reinstatement of the pipeline Right of Way 	
Period: February 2007 to August 2009	Organisation: Enviro-Afrik (Pty) Ltd	Position: Environmental Consultant
Key Projects/Assignments	<p>During his employment he gained experience in a variety of projects as detailed below:</p> <ul style="list-style-type: none"> Environmental Impact Assessments <ul style="list-style-type: none"> ❖ Housing Developments ❖ Upgrade of rail infrastructure ❖ Linear developments Conducting Basic Assessment <ul style="list-style-type: none"> ❖ Numerous housing developments and/or associated infrastructure Environmental Monitoring and Auditing: <ul style="list-style-type: none"> ❖ Housing developments ❖ Stormwater and road construction ❖ Power line construction Other <ul style="list-style-type: none"> ❖ Pre-feasibility & site selection ❖ Giving input and assisting in Public Participation 	

LANGUAGE CAPABILITY

Language	Speak	Read	Write
English	Excellent	Excellent	Excellent
Zulu	Excellent	Good	Good

DECLARATION

I confirm that the above information contained in the CV is an accurate description of my experience and qualifications and that, at the time of signature.

Signature of Staff Member

17 May 2020

Date