

CURRICULUM VITAE OF ANSONE' ESTERHUIZEN

Profession :	Environmental Assessment Practitioner
Specialisation:	Environmental Assessments, Environmental Compliance Officer, report writing, and GIS
Work Experience:	4 years' experience in Environmental Management, Impact Assessment & GIS

VOCATIONAL EXPERIENCE

An innovative and dependable individual specializing in Environmental Management with Bachelor of Arts and currently pursuing BSc (Hons) from the University of South Africa, with sound knowledge of Environmental Management principles as well as adherence to Environmental legislation regulations, in-depth knowledge of GIS and EIA Processes

Professional experience in conducting a range of environmental studies in the broad fields of Environmental Management. This includes but is not limited to Basic Assessments, Environmental Impact Assessments, Scoping and EIR, General Authorizations, Auditing, Water Use Licenses, permits & licencing, GIS Mapping, Public Participation and Environmental Management plans

Responsibilities include report writing, compilation of project specific mapping, project management, review of specialist studies and the identification and assessment of potential negative environmental impacts and benefits. Compilation of the reports for environmental studies is in accordance with all relevant environmental legislation.

Experience in conducting environmental impact assessments for agricultural development, Infrastructure expansion, energy developments, industrial and residential development, licencing for projects as well as undertaking environmental audits.

Passionate about Low carbon economy and Green Energy technology development and implementation; Waste to Energy & Wastewater treatment technology rollout; Solar PV technology designs and training; ability to Advice on Climate Change adaptation and resilience.

SKILLS BASE AND CORE COMPETENCIES

- Compilation of environmental impact assessment reports and environmental management programmes in accordance with relevant environmental legislative requirements.
- Environmental Compliance and Audits
- Licencing applications
- GIS analysis and mapping as per project specifications
- Adaptability and ability to handle pressure
- Organisational skills
- Ability to build and maintain client relationships
- Loyalty, dedication and dependability
- Ability to coordinate and synthesize environmental information
- Ability to work to tight deadlines and on multiple projects

- MS Office Package (Word, PowerPoint and Excel)
- Adobe Acrobat
- Google Earth
- ArcGIS (basic)
- Project management for a variety of projects
- Public participation process for a variety of projects

EDUCATION AND PROFESSIONAL STATUS

Degrees:

- B.Sc. (Hons) Environmental Management (2022), University of South Africa (UNISA)
- B.A. Environmental Management (2020), University of South Africa (UNISA)

Short Courses:

- ISO 14001:2015 Environmental Management Systems – Christina Lupa (Udemy)
- QGIS and Google Earth Engine for environmental applications – Kate Alison (Udemy)
- Environmental Education: Climate Change the science – Alison Courses
- Diploma in Energy economics, Energy systems and Environmental Impact – Alison Courses

Professional Society Affiliations:

- South African Council for Natural Scientific Professionals - Candidate Natural Scientist: Environmental Scientist
- Environmental Assessment Practitioners Association of South Africa – Environmental Assessment Practitioner
- International Association of Impact Assessment South Africa
- Institute of Waste Management of Southern Africa
- Society of South African Geographers
- Sustainable Procurement & Supply Chain (SPSC) Ambassador

Other Relevant Skills:

- Water Use Licensing on EWULAAS
- Air emissions licencing
- Waste emissions licencing
- Compiling project budgets and proposals
-

EMPLOYMENT		
Date	Company	Roles and Responsibilities
07 February 2022 - Current:	Savannah Environmental (Pty) Ltd	<p><i>Environmental Assessment Practitioner</i></p> <p><u>Tasks include:</u></p> <ul style="list-style-type: none"> • Undertake environmental screening assessments, environmental permitting and environmental authorisation applications. • Undertake water use authorisation applications on the e-WULAA system. • Complete Part 1 and Part 2 EA amendment applications and prepare motivation reports in support of applications for Part 2 EA amendments. • Undertake environmental compliance audits and provide ECO services. • Efficient and quality report writing to execute and manage the delivery of

		<p><i>environmental impact assessment (EIA) reports and Environmental Management Programmes in line with the requirements of the National Environmental Management Act and EIA Regulations.</i></p> <ul style="list-style-type: none"> • <i>Liaison with relevant environmental authorities.</i> • <i>Execution of the public participation process.</i> • <i>Professional client liaison.</i> • <i>Project management.</i> • <i>Manage third parties or sub-consultants to which functions have been outsourced.</i> • <i>Preparation of proposals and budgets.</i>
<p>January 2021 – February 2022</p>	<p>VARIOUS ENVIRONMENTAL AGENCIES</p>	<p><i>Freelance Environmental Consultant</i></p> <p><u>Tasks included:</u></p> <ul style="list-style-type: none"> • Implementing procedural, reporting, and monitoring requirements as prescribed by Environmental Legislation and applicable Regulations, Environmental Management, Compliance and Monitoring. • License application, amendments and renewal - WUL, AEL, WML, EMPr • IWWMPs, Waste Management Licenses, Financial Provision Reporting for mining projects, Public Participation, Specialist liaison, Auditing, Site Assessments and Gap Analysis • BA, EMPs, EIA, Environmental Authorization assistance and drafting of various reports, where relevant, review of EIA/ESIA and permits to ensure compliance Standards and applicable legislation • Waste Management, Mine Health and Safety, Environmental Awareness and Training, Administration and Reporting • Environmental Management System - ISO14001:2015 • Permits: FLORA and FAUNA • Review bid documents to understand the requirement and deliverables of the tender. • Review and approve monthly ECO reports to ensure the report is accurate and reflective of site conditions. • Experience working with renewable energy projects • Prepare technical reports and inputs for programme preparation and documentation, ensuring accuracy, timeliness and relevance of information. • Prepare required documentations/materials to facilitate and review processes.

		<ul style="list-style-type: none"> • Work collaboratively with internal and external colleagues and partners to collect/analyze/ share information on implementation issues, suggest solutions on routine implementation of relevant projects and alert appropriate officials and stakeholders for higher-level interventions and/or decision. • Keep record of reports and assessments for easy reference. • Monitor and report on the use of sectorial program resources (administrative and other assets), verify compliance with approved allocations based on regulations/procedures commitments with standards of accountability and integrity. • Undertake field visits and surveys, collect and share reports with partners/stakeholders. Report critical issues, bottlenecks and potential problems to supervisor, for timely action. • Support the project team/s in the design, development, implementation, management and monitoring of renewable interventions, as needed. • Client liaison, site visits and ensure completion of projects / project deliverables as per the agreed project plans and budget • Community engagement as the community is one of the major stakeholders in the project. Project tracking and weekly/monthly process reports and manage key relations with key stakeholders.
<p>2018 - 2021</p>	<p>NALI SUSTAINABILITY SOLUTIONS, SOUTH AFRICA</p>	<ul style="list-style-type: none"> • <i>Environmental Control Officer</i> • Implementing procedural, reporting and monitoring requirements as prescribed by Environmental Legislation and applicable Regulations. • Implementing, assessing and monitoring performance, commitments and recommendations of the Site's Environmental Management Program, authorizations and assessments. • Compiling and Implementing of Environmental Standard Operating Procedures (SOPs). • Managing small team of workers that aids in ensuring environmental compliance also compiling and Implementing Environmental Awareness Program. • Ensuring daily Environmental risk assessments, hazard identification and rectification. • Forecast necessary budgets to bring the potential project in compliance with best

		<p>practice to support Project Finances offer preparation</p> <ul style="list-style-type: none"> • Implementing, maintaining and monitoring an environmental management system based on the operations' approved EMP, Water licensing and Authorization. • Compiling monthly reports on pertinent environmental monitoring data and maintaining a system of reporting environmental incidents and reviewing recommendations to rectify deviations. • Identifying, classifying and rehabilitating indigenous and invasive Fauna and/or Flora. • Updating and maintaining operation's environmental aspect register and monitoring management programs/actions for significant aspects. • Directing employees and sub-contractors regarding implementation of environmental requirements such as pollution control, waste reduction, best environmental management practices as well as other requirements listed in the approved EMP, Environmental Authorization (EA), and Integrated Water Use License (IWUL). • Conducting regular environmental audits to ensure that environmental requirements are adhered to. • Managing Waste Collection on site and keeping records of waste disposal certificates. • Maintaining a database of water consumption, and distribution also ensuring legal compliance with all Environmental policies as well as provision of input into policy updates and reviews. • Reviewing and updating ISO 14001 procedures and policies when necessary.
<p>2017 - 2021</p>	<p>O2 Environmental Consulting</p>	<p><i>Junior Environmental Assessment Practitioner</i></p> <p>Tasks</p> <ul style="list-style-type: none"> • Training and experience in applying the principles of Integrated Environmental Management (IEM), and in applying the Environmental Impact Assessment (EIA) Regulations to a number of development projects and initiatives in South Africa that trigger the National Environmental Management Act and/ or the National Environmental Management: Waste Act. • Facilitation, co-ordination and management of all aspects of the EIA process.

		<ul style="list-style-type: none"> • Liaising with specialists and all members of the project team to ensure a full understanding of the scope of work required throughout the process; • The compilation of reports: Constraints Analysis, Basic Assessment Reports, Scoping and Environmental Impact Assessment Reports, and Damage Assessment Reports (24G Applications) WULA, waste management plans, environmental audits etc; • Liaising with interested and affected parties and facilitating the public participation process required in terms of the EIA Regulations • Environmental Management Programmer • Environmental Authorizations processes • Site inspection and compliance monitoring • Develop and compile climate change response plans for Department of Agriculture, Land Reform and Rural Development • Subcontractor audits and Supplier Due Diligence audits; • Action Plan Compilation for Environmental Control Officer Reports Findings; • Update and maintain Environmental Performance Tracker; • Appointing relevant specialists for different environmental disciplines (such as biodiversity specialist, aquatic specialists, avifaunal specialist etc.); Reviewing and commenting on specialists reports;
2014 – 2016	Various	<ul style="list-style-type: none"> • <i>Administrative Roles at various organizations</i>

PROJECT EXPERIENCE

Anson's has expertise in environmental project management, drafting & reporting, conducting site environmental inspections, resource management, rehabilitation, conservation, waste management, environmental awareness facilitating, vegetation analysis, public participation, and Environmental Management systems such as ISO14001:2015

PROFESSIONAL EXPERIENCE:

Shopping mall, KZN 2021

The Environmental Authorisation process was managed by Anson's. She compiled a basic assessment report as well as an Environmental Management Programme and liaised with all relevant stakeholders.

Matavha Environmental Expansion of Fuel storage Facility, Mpumalanga, 2022

The Environmental Authorisation process was managed by Anson's. She compiled a Scoping and EIR as well as an Environmental Management Programme and liaised with all relevant stakeholders.

Expansion of Piggery BAR Application 2021/2022

The Environmental Authorisation process was managed by Anson. She compiled a basic assessment report as well as an Environmental Management Programme and liaised with all relevant stakeholders.

Strybaai Church 24G Application 2021

Unlawful development on a farm in Strybaai, within a wetland Triggered a 24G application by the farmer, the 24G application as well as the correlating BAR documents were compiled by Anson and submitted to the relevant authorities.

Substantive Amendment to EIA for Road development, 2021

A Substantive amendment application was done for a road that was granted authorization however the owner of the land on which the road was located required that the route of the road be altered to be more accessible and away from neighbouring development, Anson as EAP handled the application and public participation.

Various Rehabilitations Plans 2018 – 2022

- Warmbokkeveld pipeline rehabilitation
- Vyeboom Mission Rehabilitation
- Ceres Pipeline Maintenance Management Plan
- Springbok Northern Cape Water Pipeline ECO and Rehabilitation work

Melkboom Dam 24G application, Kimberly 2021

Unlawful development on Farm Melkboom in the Western cape Triggered a 24G application by the farmer, the 24G application as well as the correlating BAR documents were compiled by Anson and submitted to the relevant authorities.

Styerkraal Agricultural Holdings, WUL, Scoping and EIR Report, Northern Cape, 2021

The Environmental Authorisation process was managed by Anson. She compiled a scoping and EIR assessment report as well as an Environmental Management Programme and liaised with all relevant stakeholders. Undertook the Public participation process as well as the WUL application via the EWUUL website

Various Cell phone Masts within the Western and Northern Cape, 2021

The Environmental Authorisation process was managed by Anson. She compiled a scoping and EIR assessment report as well as an Environmental Management Programme and liaised with all relevant stakeholders. Undertook the Public participation process as well as employed the specialists where required, for example fresh water specialists, Heritage assessment, Etc.

Upington Crematorium BAR and AEL, Northern Cape, 2021

The Environmental Authorisation process was managed by Anson. She compiled a BAR assessment report as well as an Environmental Management Programme and liaised with all relevant stakeholders. Undertook the Public participation process as well as the Air Emissions Licence application for the project.

New Wave Dam Scoping and EIA Western Cape 2021

The Environmental Authorisation process was managed by Anson. She compiled a scoping and EIR assessment report as well as an Environmental Management Programme and liaised with all relevant stakeholders. Undertook the Public participation process as well as the WUL application via the EWUUL website

Environmental Impact Assessment Process for The Housing Development and Associated Facilities and Infrastructure, Limpopo, 2021

The Environmental Authorisation process was managed by Anson. She compiled a basic assessment report as well as an Environmental Management Programme and liaised with all relevant stakeholders.

The Development and Preventative Maintenance of Road D1483 (R572), Limpopo, 2021

Ansone' was tasked with conducting monthly environmental audits as well as compiling a site-specific Environmental Management Programme. She also received environmental authorisation for a section of this project to start whilst the full authorisation was still being conducted.

ECO Duties for Various projects 2021

- Henkries Pipeline ECO duties based on environmental Authorization
- Kathu Filling Station ECO Duties based on EA
- Lambertsbaai Desalination plant ECO Duties based on EA
- PNP Distribution Centre under Nali Sustainability solutions
- Fresh water and Wetland monitoring and ECO work for Feldspar Mine Western Cape

Environmental Control Officer Duties, Riversand, Diepsloot Gauteng, 2021

Archstone Construction was appointed as the main contractor for construction of a Massmart Distribution Centre, the development was located next to a greenbelt and wetland habitat. All audits, monitoring, reporting, rectifications and Non-Compliance were undertaken by Ansone'. Monthly reports were compiled and regular meetings with GDARD held

Drafted and compiled an Environmental Management Plan for a secondary site, the EMP was done in accordance with the New South Wales (Australian) and Southern African Standard (NEMA) as well as being in line with requirements of compliance for a Green Star rating based on the EIA scope.

Lodged Prospecting Right Renewal application, MPH MINING (Pty) Ltd, Emalahleni, 2020

MPH Mining required a prospecting right to be filed with the DMRE for coal and copper mineral prospecting, the process was undertaken by Ansone through the DMRE as competent authority. Ansone' was tasked with leading the project, this included compiling the motivation renewal letter, NEMA application form, and prospecting right application in accordance with the mining renewal process.

Tongaar KZN Sand dryer and mining application and EIA, 2020/2021

Clinton and Co, under KCM Environmental appointed Ansone' as the EAP for this project, which entailed the application of an air emissions licence, Scoping report and EIA, Ansone' handled the project from inception until authorization was granted.

KZN Road Development BAR Application for Road development 2020/ 2021

Ansone' was contracted as the EAP upon tender approval to conduct the BAR application on behalf of kzn Road and Transports department, the site also had burrowpits which however did not require any water use licence application. Authorization for the project was granted

Nkateko Properties cc, Basic Assessment Report, Environmental Management programme, BID document and Public Participation Procedure, Mopani District Municipality, Limpopo Province 2020

Nkateko Properties CC appointed Tshikovha Green to undertake the full BA including EMP and PPP. Ansone' was the EAP on this project. Ansone' was responsible for full review of the documentation as well as guiding interns on the project scope, reviewing the Gaps and Needs Analysis, undertaking the EMP for the project, identifying relevant legislation, I&AP, and mitigation measures for the identified impacts.

Development Of a Shopping Centre, Filling Station and Accommodation Situated In Homu, 2020/2021

Tshikovha Green to undertake the full BA including EMP and PPP. Ansone' was the EAP on this project. Ansone' was responsible for full review of the documentation as well as guiding interns on

the project scope, reviewing the Gaps and Needs Analysis, undertaking the EMP for the project, identifying relevant legislation, I&AP, and mitigation measures for the identified impacts.

Environmental Authorization for Filling station and associated infrastructure, Motsaledi, 2020

The Environmental Authorisation process was managed by Ansoné'. She compiled a basic assessment report as well as an Environmental Management Programme and liaised with all relevant stakeholders.

Environmental Impact Assessment and specialists for permitting Secunda, Bethal, 2020

Ansoné was the Junior EAP on the project and assisted with the Compilation of the Scoping and EIR Report, Undertaking of Public Participation, Water Use License Enquiry and Review of specialist reports.

Environmental Performance Assessment, Nylstene Pty Ltd, 2019

Ansoné' was the junior EAP for the project, her duties included License application, amendments and renewals - WUL, AEL, WML, EMPr.

Environmental Control, Road Agency Limpopo, 2019

Environmental Monitoring, Development of a site specific EMP Borrow pits for Upgrading of Road from Modioli to Mabatlane, implementing and maintaining the ISO14001:2015 standard on site and ensure that all operations were done in accordance to the conditions of the environmental authorisation.

CURRICULUM VITAE OF KRISTEN SHAW

Profession :	Junior Environmental Consultant
Specialisation:	Environmental Assessments, report writing, GIS, Basic Assessments, Environmental Impact Assessments
Work Experience:	1.5 Years' experience in GIS, Data Analysis and Environmental Assessment

VOCATIONAL EXPERIENCE

Kristen Shaw holds a BA in Psychology, Geography and Environmental Management, and a B.Sc. Honours degree which she passed with distinction from the North-West University in South Africa. She is passionate about the environment and the movement of people and therefore specialised in Air Quality specifically PM_{2.5} as pollutant.

Kristen has One Year Experience in Air Quality monitoring, data analysis and stack emission sampling for the North West University's CRG (Climatology Research Group). She has experience with environmental authorisation applications, compiling basic assessment reports, scoping and environmental impact assessment reports and environmental management programmes, executing the public participation process, undertaking environmental compliance audits, providing environmental control officer services, conducting environmental screening assessments. GIS mapping and screening assessments as per project specifications.

Honours subjects were the following:

- Environmental Management (Introduction to Environmental law and regulation, ISO 14001 Environmental Management Systems, EMS Auditing (ISO 19011 and ISO 17021), Integrated Reporting)
- Earth Observation (Earth observation systems, Observation uncertainty, Analytical procedures, and Integrative sensing)
- Air Pollution (Emissions, Chemistry, Transport, Monitoring, Modeling, Managing)
- Introduction to Environmental Management
- Applications in GIS (ArcMap & ArcPro)
- Research Methodology

Kristen is an enthusiastic person with a positive, energetic attitude and have good communication skills. She has served on various leadership platforms throughout the years attending leadership and communication summits. In 2021 she was elected as the Chairperson (Primaria) of 252 ladies for her Residence. She balanced her leadership responsibilities with Academic, Sport and cultural activities. She has always had a passion for the environment and trying to help where she can, hosting formal events and initiatives to raise awareness of environmental issues. She is very confident that the experience and skills that she built up with, leadership, communication, writing, and research skills, do assist her to deliver quality work.

SKILLS BASE AND CORE COMPETENCIES

- » Excellent Communication Skills
- » Highly Experienced in Jupyter Python, ArcMap, ArcPro, GIS, Aermid, Aermid Microsoft, Excel, Word, and PowerPoint
- » Esri Training certificates (ArcMap & ArcPro)
- » Experience in Leadership roles
- » Professionalism
- » Strong Work Ethic
- » Adaptability
- » Great Attention to Detail

EDUCATION AND PROFESSIONAL STATUS

Degrees:

- B.S.c Honours Geography, Environmental sciences and Environmental management North West University 2021
- BA in Psychology, Geography and Environmental management North West University 2018-2020

Short Courses:

- ArcGIS Esri Training
 - ArcMap
 - ArcPro
- Esri Certificates
 - Basics of Map Projections
 - Basics of Geographic Coordinate Systems
 - Preparing for Network Analyses
 - Working with Geodatabase Domains and Subtypes
 - Getting started with Geodatabase Topology
 - 3D Analyses of Surfaces and Features using ArcGIS
 - Creating 3D Data using ArcGIS
 - 3D Visualization techniques using ArcGIS
 - Building Models for GIS Analysis using ArcGIS
 - Introduction to Surface Modelling using ArcGIS

Other Relevant Skills:

- Air quality Dispersion Monitoring
- Data analysis

EMPLOYMENT

Date	Company	Roles and Responsibilities
January 2022 - Current:	Savannah Environmental (Pty) Ltd	<p>Environmental Assessment Practitioner & GIS Consultant</p> <p><u>Tasks include:</u></p> <p><i>The position will primarily include undertaking tasks related to Environmental Impact Assessments (EIAs) in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), read with the EIA Regulations (2014), as amended. Specific primary aspects of the role during the contract period will include, inter alia:</i></p> <p><i>1.1 Environmental permitting, environmental authorisation applications, and associated public participation, as may be required. Tasks will include understanding and applying applicable legislation, research of related environmental policy documentation required for EIAs, efficient and quality report writing, liaison with relevant environmental authorities, site visits, compilation of environmental management programmes (EMPrs), amendment applications, and assistance</i></p>

Date	Company	Roles and Responsibilities
		<p>with public participation tasks. Other related tasks can also include undertaking water use license applications, environmental compliance monitoring and any other related authorisation, permitting and licensing tasks.</p> <p>1.2 Implementation of appropriate procedures and mechanisms to consolidate and complete a compliance check on project-related files with a view to enhance overall management of project documentation for all closed, live and future projects executed by the company.</p> <p>1.3 Project-related GIS mapping, as may be required. The role will be based in Savannah's Environmental's offices in Woodmead, Gauteng. Travel may be required within South Africa and other countries within southern Africa.</p>

Basic Assessments

Project Name & Location	Client Name	Role
Proposed construction and operation of the 10MWac Becrux Solar Photovoltaic (PV) Project Two and associated infrastructure located 4km south-east of the town Sasolburg within the Metsimaholo Local Municipality with the Fezile Dabi Local Municipality	Becrux Solar PV Project Two (Pty) Ltd SOLA (Pty) Ltd	Junior EAP (Principal Author) GIS
BA processes for 3x Kheis PV facilities	AGV Projects	GIS
Kleinzee Solar PV Cluster BARs	Genesis Eco-Energy (Pty) Ltd	Junior EAP (Principal author) GIS
Orkney Solar BAR for gridline and substation connection	Genesis Eco-Energy Developments	Junior EAP (Principal author) GIS
Castle WEF Financial Close & BA Assessment	Juwi/ACED	GIS
EIA for Pixley Park PV complex (4x PV) and BAs for associated grid connection infrastructure	Genesis Eco-Energy (Pty) Ltd	Junior EAP (Principal author) GIS
Basic Assessment for the Wolf WEF access road, Eastern Cape	Red Rocket South Africa (Pty) Ltd	GIS

Environmental Impact Assessments

Project Name & Location	Client Name	Role
EIAs for 2x 100MW PV on a site west of Lichtenburg, North West	Mulilo	Junior EAP (Principal Author) GIS Public Participation
EIA for Bergriver Wind Farm, Western Cape	EnergyTeam	Public Participation
Environmental Impact Assessment processes for PV facilities within various clusters within Harmony project sites: Free State, North West and Gauteng	Harmony	Junior EAP (Principal author) GIS
Sibanye Stillwater 3X S&EIR for 175 MW PV, North West	Sibanye Stillwater	GIS
Environmental Impact Assessment for Agricultural and Pivot Development on various farm portions, Free State Province	Venter Boerdery (PTY) Ltd	GIS
Scoping/EIA process for Seekoei 4x 100MW Solar PV Facilities & BESS, plus 1x grid BAR, near Noupoort, Northern Cape	WKN Windcurrent	Junior EAP (Principal author) GIS
BAR process for Highveld PV cluster - 4x 100MW Solar PV Facilities & BESS, plus 1x grid BAR, near Stilfontein, North West province	WKN Windcurrent	Junior EAP (Principal author) GIS

Screening Assessments

Project Name & Location	Client Name	Role
Screening study for a wind farm site south of Hankey, Eastern cape plus site visit	DunoAir (Christoph Bauer)	GIS
Pre-feasibility Desktop Screening and Fatal Flaw Scan for wind project near Saldanha, Western Cape	Saldawind	GIS
Pre-Feasibility Desktop Screening for solar PV Facilities On Various Sites - Western and Northern Cape Provinces	Salika SA	Principal Author GIS

OTHER SECTORS

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Exxaro 22-month Resettlement Monitoring Proposal for Phumulani Agri-Village, Mpumalanga	Exxaro	GIS

Environmental Compliance, Auditing and ECO

Project Name & Location	Client Name	Role
------------------------------------	--------------------	-------------

*External Environmental and Social Compliance
Audit Services for the construction of the DRDLR
head office complex Berea, Pretoria*

WBHO

Assistant Auditor



CURRICULUM VITAE OF NONDUMISO BULUNGA

Comprehensive CV

Profession :	Lead - Social, GIS and Stakeholder Engagement
Specialisation:	Social, GIS and Stakeholder Engagement in the environmental field
Work Experience:	8 years in the Environmental field.

VOCATIONAL EXPERIENCE

Nondumiso Bulunga is a Social, GIS and Stakeholder Engagement Specialist at Savannah Environmental. Nondumiso has eight (8) years working experience in project management and facilitation in various industries such as environmental services field including but not limited to recycling, industrial, energy, mining and agriculture.

Working for small and large organisations, Nondumiso has gained exposure in research, collection of data, critical analysis, GIS, and environmental solutions. Nondumiso has worked on projects in South Africa and Malawi.

Nondumiso is very well versed in the IFC Environmental and Social Performance Standards (including IFC PS 2012) and the associated Equator Principles, which have informed the approach and standard for projects regarding ESIA. Nondumiso is skilled at organising and driving effective project teams at a scale relevant to the project's requirements. She has technical experience and can quickly identify the most pertinent issues of a particular project whilst focussing on driving project success by rigorously implementing project management tools.

Nondumiso has experience ranging over several aspects of social research, including the planning and execution of social surveys, participatory rural appraisal, sustainable livelihoods assessments, data management and statistical analysis, capturing and management of spatial data, stakeholder identification and community facilitation. She has worked in local and regional projects taking part in socioeconomic impact assessment, livelihood restoration plans and resettlement plans.

SKILLS BASE AND CORE COMPETENCIES

- Consultation
- Stakeholder Engagement
- Facilitation
- Social Impact Assessments
- Communication
- Project Management
- Project Coordination
- Research
- Training and Development
- Geographical Information Systems, Remote Sensing
- Stakeholder Engagement Plans
- Stakeholder Analysis and Mapping
- IFC Performance Standards
- Comments and Response Reports
- Grievance Mechanism
- Awareness Campaign

EDUCATION AND PROFESSIONAL STATUS

Degrees:

- 2018 : MSC GEOGRAPHICAL INFORMATION SYSTEM and REMOTE SENSING
- 2015 : BAHONS in GEOGRAPHY
- 2013 : BA in GEOGRAPHY AND SOCIOLOGY

Short Courses:

- 2015 One day information session on Modern Technologies and Pathways for the Energetic Use of Biomass
- 2015 One day Public lecture on Climate Change
- 2017 Accredited facilitation certification
- 2017 One day course on Office Management Training
- 2018 Resettlement as part of Impact Assessment

EMPLOYMENT

Duration	Position	Company	Roles and Responsibilities
May 2021 – current ●Permanent	Lead Consultant: Social, Stakeholder Engagement and GIS	Savannah Environmental (Pty) Ltd	Build, lead and manage a Stakeholder Consultation and Engagement team. Advance the Social Impact Assessment reporting service offering. Manage an in-house GIS team and upskill to improve and develop new deliverables for the EIA and Compliance teams. New business development, including development and driving the development of new products and/or services as part of the Savannah Environmental service offering. Manage and mentor staff and critically review and edit reporting/deliverables. Provide strategic input to business and project deliverables.

Duration	Position	Company	Roles and Responsibilities
October 2020 – February 2021 ●Contract	Data Analyst	Community Insights Groups (International)	<ul style="list-style-type: none"> Desk review of project documentation to inform data collection tools Contribute to the development of monitoring indicators Develop new databases of indicators and consolidate with existing databases from the client Develop household and focus group questionnaires Develop interview/ focus group guidelines Develop fieldwork plan Set up survey software Train local enumerators in the use of the survey software (over ZOOM) Provide remote support to the field team on the survey software Undertake phone KIs Develop information campaign materials and visual aids for focus groups, KIs Data organization and quality assurance during the field work (remote) Organize, clean and handover raw data to the client Desktop data analysis – qualitative and quantitative Produce and populate pivot and frequency distribution tables Produce narrative and graphic description of the data for the client report GIS Data Management and Handling Map creation and analysis
November 2019 – March 2021 ●Contract	Policy Coordinator Consultant	International Finance Corporation (International)	<ul style="list-style-type: none"> Support to the Agri-processing resource efficiency program Coordinate public and private stakeholders to propose specific policy Regulatory and procedural measures to promote improved water efficiency Convening a public-private dialogue process to reach consensus Manage partnerships with local authorities Due Diligence and risk assessment
April 2020 – October 2020 ●Contract	Project Manager	Pax Advisory (Pty) Ltd (South African)	<ul style="list-style-type: none"> Plan and implement projects Define project scope Help define goals Define deliverables Define tasks and required resources Create schedule Project timeline Manage budget Allocate project resources Track deliverables Support and direct team Lead quality assurance Monitor and report on project progress Present to stakeholders reports on progress as well as problems and solutions Implement and manage change Project data management

Duration	Position	Company	Roles and Responsibilities
March 2017- November 2019 ●Permanent	Environmental Stakeholder Consultant	Digby Wells Environmental (Pty) Ltd (South African)	Addressing issues and needs of communities' Public participation process and communicate Liaise with stakeholders Scientific report writing for social and stakeholder engagement inclusion Assistance is provided in maintaining and updating Interested and Affected database Print / photocopy and the deliver documents to various stakeholders Distribute information (placing posters, posting, mailing, emailing, sending SMS messages, etc.) Assist with the project administration on large and small projects Data collection and inclusion into scientific reports Assist with information material and report compilation material
February 2015 – February 2017 ●Permanent	Environmental Officer	EcoPartners (Pty) Ltd (South African)	Public participation for environmental legal authorisation applications Compiling legal registers and monthly legal update letter Supply all services required for I and APs Write and edit reports Research various environmental aspects. Environmental awareness training Creation of maps for all environmental applications Collection of spatial information Build and Maintain data and information libraries Data collection and analysis Environmental legal authorisation applications
February 2014- September 2014 ●Permanent	Graduate Researcher	Linkd Environmental Services (Pty) Ltd (South African)	Research for projects given as tenders Collecting data from the different forms of information Collecting data for the purpose of controlling it and reporting on it in order to formulate status quo Create reports based on the data, give recommendations for better quality data to be collected Participate in workshop strategy sessions. Help implement policies formulated in strategy sessions and approved by steerco.
October 2014 – December 2014 ●Contract	Researcher and Report Writer	South African Cities Network (Pty) Ltd (South African)	Research Project co-ordination and management Knowledge management Reporting and administrative support GIS support and map analysis Report writing and research gaps

PROJECT EXPERIENCE

Project Name & Location	Client Name	Role
EIA for the Buffelspoort Solar Project, North West Province	Total Eren/Chariot Transitional Power	Social Impact Assessor and Public Participation Consultant
Environmental, Social & Governance (ESG) assessment	Richards Bay Coal Terminal (Pty) Ltd	Social Assessor
To Conduct Study of Sanitation Systems at Two Health Facilities, Swaziland	Ministry of Health, Swaziland	Environmental, Social and Health Specialist

Project Name & Location	Client Name	Role
Social Impact Assessment - Doornhoek PV Cluster including 132kV line to the Hermes MTS	Atlantic Energy Partners (Pty) Ltd	Social Impact Assessor
Stakeholder engagement for the Socio-economic Impact Assessment for the closure of 3 Eskom power stations	Urban Econ on behalf of Eskom	Project Manager
Exxaro 22-month Resettlement Monitoring Proposal for Phumulani Agri-Village, Mpumalanga	CSG Water & Environmental Consultants on behalf of Exxaro	Report Writer Reviewer, Quality Assurance & Project Support
Environmental Impact Assessment for Agricultural and Pivot Development on various farm portions, Free State Province	Venter Boerdery (Pty) Ltd	Project Manager
Scoping and environmental Impact Report for 175 MW PV, North West	Sibanye Stillwater	Report Writer Reviewer, Quality Assurance & Project Support
EIA Process for Siyanda PV Facilities & BESS	SoLink	Social Impact Assessor and Public Participation Consultant
BA for Hopefield Watercourse Crossing	Umoya Energy (Pty) Ltd	Reviewer & Quality Assurance
BAR for the 10MW Sigma PV Project, Free State	SOLA Group	Social Impact Assessor
SIAs for 2x EIAs for PV & BESS at Siyanda Bakgatla Mine, Limpopo	SoLink	Social Impact Assessor
SIA for 2x 100MW PV south of Hartebeesfontein, North West - in Klerksdorp REDZ	Cape EPrac	Social Impact Assessor
Socio-economic impact assessments (Scoping/EIA) for Pofadder Wind farm cluster, Northern Cape	Atlantic Energy Partners (Pty) Ltd	Social Impact Assessor
Socio-economic impact assessments (Scoping/EIA) for Pofadder Wind farm cluster, Northern Cape	Engie Solar	Reviewer & Quality Assurance
BA for additional area for Grootspuit Solar PV facility, Free State Province	Engie Solar	Reviewer & Quality Assurance
EIA for additional area for Graspan Solar PV facility, Northern Cape Province	Engie Solar	Reviewer & Quality Assurance
EIA for additional area for Sannaspos Solar PV facility, Free State Province	Engie Solar	Reviewer & Quality Assurance
EIA for 225MW San Solar PV on a site north west of Kathu, Northern Cape Province	San Solar Energy (Pty) Ltd	Social Impact Assessor
SIA for a Battery Energy Storage System (BESS) within the authorised footprint of Hotazel Solar - amendment application	Cape EPrac	Social Impact Assessor
BA processes for 3x Kheis PV facilities	AGV Projects	Social Impact Assessor
Screening of sites for the placement of PV facilities near Northam, Limpopo Province	SoLink	GIS Specialist
BAR for the 10MW Sigma PV Project, Free State	SOLA Group	Social Impact Assessor
Land sensitivity analysis on the identified land for the Merafong Solar Farm Cluster Project	Gauteng Infrastructure Financing Agency	Social and GIS Specialist
EIA/WML for Majuba waste disposal facility	Eskom – Majuba Power Station	Reviewer & Quality Assurance
P2 amendment for Poortjies Wind Energy Facility	Mainstream Renewable Power	Reviewer & Quality Assurance
EIAs for 2x 100MW PV on a site west of Lichtenburg, North West	Atlantic Energy Partners (Pty) Ltd	Reviewer & Quality Assurance
EIA processes for the Great Karoo Renewable Energy Cluster	Great Karoo Renewable Energy	Reviewer & Quality Assurance
Proposed Grid Connection Infrastructure for the Woodhouse 1 and Woodhouse 2 Solar Energy Facilities	Genesis Eco-Energy Developments (Pty) Ltd	Report Writer Reviewer, Quality Assurance & Project Support
Environmental Impact Assessment And Public Participation Process For The Proposed Development Of The Nama Solar East Facility And Nama Solar West Solar Facility With Associated	Nama Solar East (Pty) Ltd and Nama Solar West (Pty) Ltd.	Reviewer, Quality Assurance & Project Support

Project Name & Location	Client Name	Role
Infrastructure, Northern Cape		
Proposed Development of a New Waste Disposal Site at the Eskom Majuba Power Station near Amersfoort, Dr Pixley Ka Seme Local Municipality, Mpumalanga Province	Eskom Holdings Ltd	Report Writer, Quality Assurance & GIS Support
The Construction of the 100MW Nku Solar Photovoltaic Facility (PV1), on portion 96 of the Farm Rondavel 85 and Farm Annex Rondavel, near Richmond, Northern Cape Province	Great Karoo Renewable Energy (Pty) Ltd	Reviewer, Quality Assurance & Project Support
Environment, Social & Governance (ESG) Assessment and Development of ESG Policy	Richards Bay Coal Terminal Proprietary Limited	Report Writer and Assessment Practitioner
Environmental Impact Assessment Process for 2X 100MW Solar PV Facilities	Atlantic Energy Partners (Pty) Ltd	Report Writer - Social Impact Assessment Quality Assurance/Reviewer
Moeding Solar PV Facility and Tiger Kloof Solar Facility with nearby settlements	Kabi (Pty) Ltd	Geographical Information Systems Specialist (GIS) & Reviewer/Quality Assurance
Solar PV Screening, Kathu Northern Cape Province	AGV Projects (Pty) Ltd	Report Writer, Researcher & Quality Assurance & GIS Support
Solar PV Screening/and or Wind Projects, Vredendal Western Cape Province	ABO Wind (Pty) Ltd	Report Writer, Researcher & Quality Assurance & GIS Support
Komsberg West Wind Energy Northern and Western Cape Provinces Revised Environmental Management Programme and Final Layout	Gunstfontein Wind Farm (Pty) Ltd,	Reviewer, Quality Assurance & Project Support
Grid Connection Infrastructure for the Namas Wind Farm	Genesis Namas Wind (Pty) Ltd	Reviewer, Quality Assurance & Project Support
Grid Connection Infrastructure for the Zonnequa Wind Farm	Gensis Zonnequa Wind (Pty) Ltd	Reviewer, Quality Assurance & Project Support
Proposed 10mw Northam Solar Pv Facility Near Thabazimbi, Limpopo Province	Northam Platinum Limited	Reviewer, Quality Assurance & Project Support
Amendment of the Environmental Authorisation for the Proposed Construction of The Gunstfontein Switching Station, 132kv Overhead Power Line And Ancillary Infrastructure For The Proposed Gunstfontein Wind Farm	Gunstfontein Wind Farm (Pty) Ltd	Geographical Information Systems Specialist (GIS) & Reviewer/Quality Assurance
Grid Connection Infrastructure, including 132kv Overhead Powerline, Switching Station And Ancillaries, For The Great Karoo Wind Farm, Northern Cape	Great Karoo Wind Farm (Pty) Ltd	Geographical Information Systems Specialist (GIS)
Perdekraal West Wind Energy Facility and Associated Infrastructure, Located in the Witzenburg Local Municipality Within The Western Cape Province	Perdekraal West Wind Farm (Pty) Ltd	Reviewer, Quality Assurance & Project Support
Pienaarspoort Wind Energy Facility 1, Western Cape Province	Pienaarspoort Wind Energy Facility 1 (Pty)	Reviewer, Quality Assurance & Project Support
Environmental Impact Assessment And Public Participation Process Bergriver Wind Farm, Western Cape Province	FE Berg River (Pty) Ltd	Stakeholder Engagement and Reviewer, Quality Assurance
Construction and operation of the 100MW Rondavel PV facility, BESS and associated infrastructure near Kroonstad, Free State Province	South Africa Mainstream Renewable Power Developments (Pty) Ltd	Reviewer, Quality Assurance & Project Support
Kolkies and Sadawa PV and EGI Suite of projects, Western Cape	South Africa Mainstream Renewable Power Developments (Pty) Ltd	Reviewer, Quality Assurance & Project Support
Cluster Of Renewable Energy Facilities And Redz 3 Power Corridor 400 Main Transmission Substation Between Somerset East And Makhanda, Eastern Cape Province	Wind Relic (Pty) Ltd	Reviewer, Quality Assurance & Project Support

Project Name & Location	Client Name	Role
Wind Garden Wind Farm And Fronteer Wind Farm Near Makhanda, Eastern Cape Province	Wind Garden (Pty) Ltd & Fronteer (Pty) Ltd	Reviewer, Quality Assurance & Project Support
Environmental Authorisation required for Prospecting Right Application on various Portions of the Farm Schaapkopje 194 HT, 5km North of Vryheid Town in the AbaQulusi Local Municipality, KwaZulu Natal	Tutuuka Resources Proprietary Limited	Report Writer and Project Administrator, Stakeholder Engagement & GIS Support
Social Impact Assessment for the Proposed Infrastructure Amendments Environmental Authorisation and Water Use License	Seriti Power (Pty) Ltd	Report Writer- Stakeholder Engagement & GIS Support
Social Impact Assessment for the Proposed Middelburg Mining Services (MMS) Boschmanskrans Section Implementation of Wetland Mitigation and Offset Strategy	Seriti Power (Pty) Ltd	Report Writer- Stakeholder Engagement & GIS Support
Environmental Authorisation And Integrated Water Use Licence Application For The Proposed Liquid Mist Trading Beneficiation Plant Expansion Project	Liquid Mist (Pty) Ltd	Report Writer and GIS Support
Basic Assessment Process In Support Of The Proposed The Construction Of Doornpoort Pumping Main And Pumpstation, Emalaheni Local Municipality In The Mpumalanga Province	Lefatshe Infrastructure Services (Pty) Ltd	Report Writer and Project Administrator & GIS Support
Water Use Licence Renewal Application for the Inyanda Coal Wash Plant, on the Portions 2, 20 And 21 Of Farm Kalbasfontein 284 JS & Portion 4 of Farm Mooifontein 285 JS Near Witbank in the eMalaheni Local Municipality, Mpumalanga	Inyanda Mining Holdings	Report Writer and Project Administrator
Social Impact Assessment for the Proposed Ikwezi Vanadium Mining Project	Ikwezi Vanadium (Pty) Ltd	Report Writer – Social Impact & Project Administrator
Environmental Authorisation (EIA) for the proposed Giyani Renewable Energy Solar Photovoltaic Power	Giyani Renewable Energy	Report Writer- Stakeholder Engagement & GIS Support
Environmental Authorisation required for Prospecting Right Application on farm Mooihoek and various farm portions of farm Pivaanspoort	Pivaanspoort (Pty) Ltd	Report Writer
Draft Basic Assessment Report For The Proposed Upgrade Of Weltevreden Wetland Interventions	Seriti Power (Pty) Ltd	Report Writer
Social and Labour Plan for the Straffontein Colliery	Mnambithi Mining (Pty) Ltd	Report Writer – Social Impact and Social Labour Plans & GIS Support
Social and Labour Plan for the existing operational expansion Leeuwfontein Colliery Mining Right Amendment Applications	Zomhlaba Resources (Pty) Ltd	Report Writer – Social Impact and Social Labour Plans & GIS Support
Social and Labour Plan for the existing operational expansion Lakeside Colliery Mining Right Amendment Applications	Zomhlaba Resources (Pty) Ltd	Report Writer – Social Impact and Social Labour Plans & GIS Support
Social Impact Assessment for the Proposed Aangewys Coal Mine Mining Right Application	National Treasure Minerals (Pty) Ltd	Report Writer – Social Impact and Social Labour Plans & GIS Support
Environmental Impact Assessment And Water Use Licence Application In Support Of The Proposed Grootlaagte Open Cast Mining, Mpumalanga – Arnot OpCo (Pty) Ltd	Arnot OpCo	Report Writer- Stakeholder Engagement & GIS Support
Malawi Solar Projects, Livelihood restoration and social performance monitoring and planning	JCM Power	Data Analyst
750 AMPED Campaign	Health Wellness SETA	Project Manager
Integrity Due Diligence Reports	Various (South African Poultry Industry, Centre of Industrial Scientific Research; SA Milk Producers	Policy Coordinator/ Report Writer
Policy Component for agri-processing projects	eThekwini Municipality	Policy Coordinator/ Report Writer

Project Name & Location	Client Name	Role
Alignment of EIA's and WUL's	South 32	Social Specialist/Report Writer
Environmental Authorisation for Klipspruit Colliery	South 32	Social Specialist/Report Writer
Expansion and Development of Sun City Resorts	Sun International	Social Specialist/Report Writer
Environmental Authorisation for a Regulatory Environmental Process	Blyvoor Gold	Social Specialist/Report Writer
Mooikraal Road Diversion Project	Sasol (Pty) Ltd	Social Specialist/Report Writer
Pretorius Park Housing Development	Luengo Consulting	Social Specialist/Report Writer
Grave Relocation Project	Exxaro Resources	Social Specialist/Report Writer
Syferfontein Housing Development	LTE Consulting	Social Specialist/Report Writer
Leeuwpan Lifex Project	Exxaro Resources	Social Specialist/Report Writer
Environmental Authorisation required for Proposed Palmietkuilen Colliery near Springs	Canyon Resources (Pty) Ltd	Social Specialist/Report Writer
Environmental Authorisation required for the Agnes Gold Mine, Barberton	Galaxy Gold Reefs (Pty) Limited	Social Specialist/Report Writer
Environmental Authorisation for the Proposed Hendrina Underground Coal Mine, Mpumalanga	Glencore Operations South Africa (Pty) Ltd	Social Specialist/Report Writer
Environmental authorisation applications(Waste management, Water use license, EMP)	Various	Social Specialist/Report Writer
Environmental Authorisation Applications related to the Construction of Power Station, Associated Infrastructure, and Coal Mine near Colenso, KZN	Dunrose Investments 244 for Colenso Power (Pty) Ltd	Project Administrator/ Social Specialist
Environmental Awareness Training	Various	Facilitator
Legal register	Various	Report Compiler
Dynamics and Incidence of Child Abuse, Neglect and Exploitation(DICANE)	Department of Social Development	Facilitator
The Alexandra Environment Public Upgrade-management of the public participation process	Johannesburg Development Agency	Project Administrator
Cities Green Transport Programme	South African Cities Network	Project Researcher
Project Management of the EPWP Construction of the Mvoti Regional Landfill	Department of Environmental Affairs	Project Researcher
Development of climate change adaptation and mitigation programme	Department of Agriculture Forestry and Fisheries	Project Researcher
Capacity Building in spatial transformation	South African Cities Network	Project Researcher