

Email: karen@savannahsa.com Tel: +27 (11) 656 3237

CURRICULUM VITAE OF ETHANNE SOAR

Profession :	Junior Environmnetal Consultant							
Specialisation:	Environmental Environmental C		-	Basic	Assessments,	Water	Use	Licencing,
Work Experience:	Environmental Compliance Officer, GIS, 1 Year Experience in Environmental Management and GIS field							

VOCATIONAL EXPERIENCE

Ethanne Soar holds a BSCHONS (Geography and Environmental Science - With Distinction; University of Pretoria) and a BSC (Environmental Science – With Distinction; University of Pretoria). His BSCHONS thesis involved a socio-spatial risk assessment and analysis of fortress conservation approaches to address rhino poaching in the context of two private and two public nature reserves in south Africa. Currently Ethanne is studying an MSC (Environmental Management) at the University of Pretoria which he plans to complete by the end of 2020.

Ethanne has worked as an Independent Environmental Consultant in 2019 for BECs (Pty) Ltd, where he was involved in conducting Environmental Authorisation Applications (NWA, NEMA, MPRDA, IWWMP), Public Participation Processes, Ground and Surface Water Quality Sampling, Stormwater Management Plans, Bathometric Assessments, Environmnetal Compliance Auditing and inspections on a weekly and monthly basis, Environmnetal Impact Assessments, Basic Assessments, GIS Specialisation, Risk Assessments, Planned Task Observations, IWUL Audit Reports, Quarterly Water Quality Status Reports, Extensive ECO Work, Game and Veld management and lastly Training Courses in: AcGIS (Offered by ESRI), ASPASA Environmnetal Conference and the Minerals Council Meeting/Workshop (Water Conservation and Demand Management Self-Assessment Tool Training).

SKILLS BASE AND CORE COMPETENCIES

- Environmental Management
- GIS data manipulation, storage, management and mapping
- EIA Impact Assessments and Basic Assessment
- Environmental Management Programmes
- Environmental Compliance Monitoring
- Mining Rights, Mining Permits, Prospecting Rights (and renewal) applications (MPRDA & NEMA)
- Public and Stakeholder Engagement (NEMA)
- Water Use Licence Applications (NWA)
- General Authorisations (NWA)
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EDUCATION AND PROFESSIONAL STATUS

Degrees:

- B.Sc. (Hons) Geography and Environmnetal Science (With Distinction), University of the Pretoria (2018)
- B.Sc. Environmental Science (With Distinction), University of Pretoria (2017)

Short Courses:

- SRI GIS Training: ArcGIS 1
- ASPASA Environmnetal Conference 2019
- Minerals Council Meeting/Workshop (Water Conservation and Demand Management Self-Assessment Tool Training – 2019)

Professional Society Affiliations:

• Golden Key International Honour Society – University of Pretoria (2016, 2017 and 2018)

Date	Company	Roles and Responsibilities	
January 2020 - Current:	Savannah Environmental (Pty) Ltd	Junior Environmental Consultant	
		<u>Tasks Include</u> : Undertaking environmental impact assessments, basic assessments, environmental management programmes (EMPrs) and public participation documentation, compilation of application forms, general authorisations, environmental compliance officer audits and reporting, ensuring environmental compliance on permitting processes, site visits, GIS mapping, client liaison and relationship management.	
January 2019 - December 2019	BECS (Pty) Ltd	Independent Environmnetal Consultant	
		Tasks Included: - Conducting weekly and monthlyEnvironmental inspections/Audits, General Adminconcerning all Environmental matters, Attendingseveral Training Courses: ESRI ArcGIS (Introductionto GIS), ASPASA Environmental Conference,	

EMPLOYMENT

Date	Company	Roles and Responsibilities
		Minerals Council Meeting/Workshop (Water Conservation and Demand Management Self- Assessment Tool Training), GIS Specialisation skills and map making, creation of storm water management plans, conducting Monthly Ground and Surface Water Sampling and subsequent analysis, assistance with all Mine Licenses, Audits, Procedures and compliance issues in terms of NEMA, NWA, IWWMP, NEMBA and several government notices to name a few, compiling Risk Assessments and Planned Task Observations, Data collection, manipulation and analysis across all Environmental issues in accordance with all licenses, Creation of Environmnetal Management Programmes and Performance Assessments, Creation of Internal IWUL audit reports as well as Quarterly Water Quality Status Reports, Bathometric Assessments and Stockpile Assessments.
June 2017 – to date	Angel Maths	High School Team Leader and Tutor <u>Tasks Included:</u> Prepare well-planned lessons for students from grade eight to first year University level in Science, Chemistry, Mathematics, AP Mathematics and Cambridge Mathematics, checking school work is up to date and prepare additional worksheets for revision, preparing and performing exam and test sessions – extra work, past papers, memos and extra programs, arrival on time at classroom at Angel Maths office for "one-on-one or two-on-one extra lessons", creating and sending out invoices to all parents each month using the Angel Maths invoice template.
February 2018 – November 2018	University of Pretoria – Philemon Tsele	Teaching Assistant and Remote Sensing Assistant <u>Tasks Included:</u> Marking of all scripts - Remote sensing semester tests, practical's, assignments and Exams, extensive Remote sensing assistance required throughout the year, from practical/lab assistance to lecture assistance and extra lessons, provided detailed corrections where necessary on scripts.
January 2015 – June 2017	Men-Tu-Toring	Student Teacher Tasks Included: Prepared well-planned lessons for students in Science, Mathematics, Music, Geography, English, French and Afrikaans for all grades and Grade 8 and 9 Accounting and EMS, checked school work was up to date and

Date	Company	Roles and Responsibilities	
		prepared additional worksheets and revision papers, prepared intense exam and test sessions – extra work, past papers, memos and extra programs, arrival on time at classroom at Pretoria Boys High School for "one-on-one extra lessons",	
		arrival on time at students' homes for one-on-one extra lessons whenever required by student.	

PROJECT EXPERIENCE

Project experience includes xxx.

Project Name & Location	Client Name	Role
xx	xxx	XXX
asic Assessments		
Project Name & Location	Client Name	Role
<u> </u>		
creening Studies		
Project Name & Location	Client Name	Role
nvironmental Compliance, Auditing a		
Project Name & Location	Client Name	Role
	g Client Name	Role
		Role
Compliance Advice and ESAP reporting Project Name & Location		Role
		Role
		Role



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CURRICULUM VITAE OF GIDEON RAATH

Profession :	Environmental and Permitting Consultant
•	Environmental Impact Assessments, Water Use Licencing, Waste Licencing, Environmental Compliance Officer, Ecological Specialist, Wetland Specialist, GIS, MPRDA permitting
	4.5 years' experience in environmental management, National Water Act, Mineral and Petroleum Resources Development Act, ECO and compliance auditing, wetland and ecological specialist reporting

VOCATIONAL EXPERIENCE

Gideon holds an MSc (Geography and Environmental Management; SU), a BSc Honours (Ecology and Environmental Studies - Cum laude; Wits) and a BSc (Geography and Environmental Management; UJ). His MSc thesis focused on the hydrological impact on the spatial distribution of invasive Eucalyptus trees along the Breede River, while his honours thesis evaluated ethnobotanical relationships around the Rio Tinto copper mine in Phalaborwa. Most recently he has worked as an Environmental Consultant at EOH Coastal and Environmental Services (EOH CES), conducting environmental authorisations applications (NWA, NEMA, MPRDA), Public Participation Processes, GIS specialisation as well as Ecological and Wetland specialist studies. Previously, Gideon worked as the Monitoring & Evaluation Project Manager for the City of Cape Town's invasive species unit (Environmental Resources Management Department).

Gideon's GIS background includes the management of the City of Cape Town invasive species GIS database, involving the storage, management, recall and quality control off all sightings, clearance visits and known infestations. Further experience include mapping for various consulting projects, boundary verification through ground-truthing and the spatial mapping and delineation component of this MSc research. Gideon has further attended public participation workshops, and has been involved with IAP identification, translation, public meetings and engagement for a variety of projects, mainly within the Afrikaans speaking Northern Cape. Gideon is interested in invasion ecology, treatment of groundwater pollution through phytoremediation, botanical and wetland specialist studies, GIS application for ecology and environmental management, and the EIA processes in general.

SKILLS BASE AND CORE COMPETENCIES

- Environmental Management
- GIS data manipulation, storage, management and mapping
- EIA Impact Assessments and Basic Assessment
- Environmental Management Programmes
- Environmental Compliance Monitoring
- Mining Rights, Mining Permits, Prospecting Rights (and renewal) applications (MPRDA & NEMA)
- Public and Stakeholder Engagement (NEMA)
- Ecological/Botanical Specialist Studies

- Wetland Delineation, Functional and Impact Assessment studies
- Water Use Licence Applications (NWA)
- General Authorisations (NWA)

EDUCATION AND PROFESSIONAL STATUS

Degrees:

- M.Sc. Geography and Environmental Science (2014), Stellenbosch University (2014)
- B.Sc. (Hons) Ecology, Environment and Conservation (Cum Laude), University of the Witwatersrand (2011)
- B.Sc. Life and Environmental Sciences, University of Johannesburg (2010)

Short Courses:

- GroundTruth SASS5 competency course, GroundTruth Aquatic Consulting (2017)
- DWS 21C&I GA training workshop, Department of Water and Sanitation (2016)
- IAIAsa Public Participation Process Workshop, IAIA South Africa (2016)
- EIA Theory and application, EOH Coastal and Environmental Services (2015)
- Water Safety Training, City of Cape Town Environmental Resources Department (2014)
- Herbicide safety and application for weed control, City of Cape Town Environmental Resources Department (2014)
- Snake awareness training, City of Cape Town Environmental Resources Department (2014)
- Habitable Planet Workshop, Applied Centre for Climate & Earth Systems Science, Cape Town (2011)

Professional Society Affiliations:

- Golden Key International Honour Society University of the Witwatersrand Chapter
- South African Council for Scientific Natural Professionals (SACNASP): Certified Natural Scientist Pr.Sci.Nat. (Membership No.: 117178)
- IAIAsa (Membership No.: 3619)

Other Relevant Skills:

• GPS use, spatial data capturing and ground truthing

EMPLOYMENT

Date	Company	Roles and Responsibilities
October 2018 - Current:	Savannah Environmental (Pty) Ltd	Environmental and Permitting Consultant
		Tasks include: Undertaking environmental impact assessments, basic assessments, environmental management programmes (EMPrs), environmental amendments, water use license applications, general authorisations, wetland assessments, botanical/ecological assessments, mining rights and permit applications, prospecting rights applications, environmental compliance officer audits and reporting, Ensuring environmental compliance on permitting processes, client liaison and relationship management.

Date	Company	Roles and Responsibilities
February 2015 –	EOH Coastal and Environmental	Senior Environmental Consultant
September 2018	Services (Pty) Ltd	
		Tasks included: Undertaking environmental
		impact assessments, basic assessments,
		environmental management programmes
		(EMPrs), environmental amendments, water use
		license applications, general authorisations,
		wetland assessments, botanical/ecological
		assessments, mining rights and permit
		applications, prospecting rights applications,
		environmental compliance officer audits and
		reporting, Ensuring environmental compliance on
		permitting processes, client liaison and
		relationship management, public participation
		processes for environmental authorisations.
March 2014 – February	Invasive Species Unit (ISU),	Professional Officer
2015	Environmental Resources	
	Management Department (ERMD),	Tasks included: Managed the Monitoring &
	City of Cape Town	Evaluation project portfolio, entailing the
		establishment of an invasive species monitoring &
		evaluation system for the ISU, as well as GIS
		database management, quality assurance and
		reporting thereof. Position required managing a
		small staff compliment (dealing directly with GIS
		database management), managing time and
		budgets for the monitoring division, conducting
		monitoring trials and research, writing species
		management plans as well as handling the GIS
		database, quality control, verification and integrity for the ISU.
January 2012 – March	University of Stellenbosch	Departmental Assistant
2014	University of Steller Dosch	
2014		Tasks included: Technical editing of academic
		reports.
		Formatting of PhD and MSc reports on a weekly
		basis, with short turnaround time and good quality
		feedback.
January 2011 – January	University of the Witwatersrand	Departmental Assistant
2012		
		Tasks included: Responsible for practical tutorials
		and marking of 1st year medical students.
		Included zoology and botany.
January 2006 –	Codeon Networking CC	Co-founder and web developer
November 2010 (part		
time)		Tasks included: Small business owner, responsible
		for all facets of the business. Self-taught HTML, CSS,
		PHP and MySQL. Won and produced two medium
		enterprise websites serving the gaming community. Websites required user profiles &
		payment options as functionality. Development

Date	Company	Roles and Responsibilities	
		and maintenance of a user database and	
		account management system.	

PROJECT EXPERIENCE

Project experience includes project management, EIA, BA and EMPr documentation development, integrated water use license applications, general authorisations, specialist botanical and ecological impact assessments, specialist wetland delineation and impact assessments, GIS applications and mapping, compliance auditing and monitoring, vegetation rehabilitation and monitoring plans, integrated waste management plans and waste licencing, mining right & permits, as well as prospecting rights applications.

Industry experience includes the waste sector (IWMP's and waste licencing), road and rail infrastructure (BAR, S&EIR, WUL/GA, Waste Licence), ports and harbours (management plans), private sector clients across varying industries (various permits), mining sector (BAR, S&EIR, mining permits and rights, prospecting rights), conservation sector (biodiversity plans), renewable energy industry (BAR, S&EIR) as well as the gas and oil industry (biodiversity reports).

RENEWABLE POWER GENERATION PROJECTS: SOLAR ENERGY FACILITIES

Environmental Compliance, Auditing and ECO

Project Name & Location	Client Name	Role
Enel Paleisheuwel Solar compliance auditing,	Enel Green Power RSA (EGP	Environmental consultant
Paleisheuwel, Northern Cape	RSA)	

RENEWABLE POWER GENERATION PROJECTS: WIND ENERGY FACILITIES

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
G7 Brandvalley S&EIR, Matjiesfontein, Northern Cape	G7 Renewable Energy (Pty)	Environmental consultant
	Ltd	
G7 Rietkloof S&EIR, Matjiesfontein, Northern Cape	G7 Renewable Energy (Pty)	Environmental consultant
	Ltd	

Basic Assessments

Project Name & Location	Client Name	Role
G7 Renewable Energy 132kV BAR & EMPr,	G7 Renewable Energy (Pty)	Project Manager,
Matjiesfontein, Northern Cape	Ltd	Environmental consultant,
		Public Participation

Compliance Advice and ESAP reporting

Project Name & Location	Client Name	Role
Biotherm Energy Golden Valley Wind Energy Facility	Biotherm Energy Pty Ltd	Environmental consultant
ESAP, Bedford, Eastern Cape		

Amendments

Project Name & Location	Client Name	Role

Mosselbay Energy EA Amendment, Mosselbay,	Mosselbay Energy IPP (Pty)	Environmental consultant
Western Cape	Ltd	

GAS PROJECTS

Screening Studies

Project Name & Location	Client Name	Role
iGas integrated biodiversity screening, Saldanha,	Central Energy Fund - iGas	Environmental consultant,
Western Cape	(subsidiary)	Faunal specialist (assistant)

MINING SECTOR PROJECTS

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Triton Minerals Limited Ancuabe and Nicanda Hills	Triton Minerals Ltd	Environmental consultant
EPDA, Ancuabe, Cabo Del Gado Province,		
Mozambique		
Ancuabe graphite mine Environmental and Social	Grafex Limitada Mozambique	Environmental consultant
Impact Assessment (ESIA), Cabo Del Gado Province,		
Mozambique		

Basic Assessments

Project Name & Location	Client Name	Role
SANRAL material sourcing BAR (DMR), Hendrina,	SANRAL SOC Ltd & Leo	Project Manager,
Mpumalanga Province	consulting engineers	Environmental consultant,
		Public Participation
SANRAL Bierspruit R510 Borrow Pit authorisation,	SANRAL SOC Ltd & Royal	Project Manager,
Thabazimbi, Limpopo Province	HaskoningDHV South Africa	Environmental consultant,
		Ecological specialist, Public
		Participation
Almenar tin prospecting BAR, Carnarvon, Northern	Almenar Property Investments	Environmental consultant
Саре	(Pty) Ltd	

Rehabilitation Studies

Project Name & Location	Client Name	Role
Ancuabe baseline vegetation monitoring	Grafex Limitada Mozambique	Botanical specialist
assessment and programme, Ancuabe, Cabo Del		
Gado Province, Mozambique		
Prospecting pit rehabilitation programme, Ancuabe,	Grafex Limitada Mozambique	Botanical specialist,
Cabo Del Gado Province, Mozambique		Environmental consultant
Mayfield Quarry rehabilitation plan, Grahamstown,	Mayfield Quarry	Environmental consultant
Eastern Cape		

Project Name & Location	Client Name	Role
Construction monitoring and DMR environmental	SANRAL SOC Ltd & Leo	Project Manager, ECO,
authorisation, Hendrina, Mpumalanga Province	consulting engineers	
SANRAL Caledon N2 Section 3 road upgrade ECO	JG Afrika Engineering	Project Manager, ECO
Audits and Reporting, Caledon, Western Cape		
Province		

Environmental Permitting, \$53, Water Use Licence (WUL), Waste Management Licence (WML) & Other Applications

Project Name & Location	Client Name	Role
VMC Mining permit renewal application, Rust De	Vergenoeg Mining Company	Environmental consultant
Winter, Gauteng	(Pty) Ltd	
Zirco Resources Kamiesberg heavy mineral sand	Zirco Roode Heuwel (Pty) Ltd	Environmental consultant
mine water use licence, Kamiesberg, Northern Cape		

INFRASTRUCTURE DEVELOPMENT PROJECTS (BRIDGES, PIPELINES, ROADS, WATER RESOURCES, STORAGE, ETC)

Environmental Impact Assessments and Environmental Management Programmes

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Project Name & Location	Client Name	Role
S&EIR authorisation for the SANRAL Zandkraal-	SANRAL SOC Ltd & SMEC	Project Manager,
Windburg N1 road upgrade, Windburg, Free State	Consulting Engineers	Environmental consultant,
Province		Public Participation
Thabazimbi Local Municipality Integrated Waste	Thabazimbi Local	Environmental consultant,
Management Plan, Thabazimbi, Limpopo Province	Municipality & Anglo	Public Participation
	American Plc	

Basic Assessments

Project Name & Location	Client Name	Role
SANRAL Masekwaspoort N1 Road Upgrade BA, Louis	SANRAL SOC Ltd & Knight	Project Manager,
Trichardt, Limpopo Province	Piésold Consulting	Environmental consultant,
		Public Participation
SANRAL Polokwane N1 Ring Road Upgrade Basic	SANRAL SOC Ltd & KBK	Environmental consultant
Assessment, Polokwane, Limpopo Province	Engineers	
Boshoek Loop Rail Upgrade BAR, Rustenburg, North-	Transnet SOC Ltd	Project Manager,
West Province		Environmental consultant,
		Wetland specialist, Public
		Participation
Heysterkrand Loop Rail Upgrade BAR, Rustenburg,	Transnet SOC Ltd	Project Manager,
North-West Province		Environmental consultant,
		Public Participation
SANRAL Bierspruit R510 road upgrade Basic	SANRAL SOC Ltd & Royal	Project Manager,
Assessment, Thabazimbi, Limpopo Province	HaskoningDHV South Africa	Environmental consultant,
		Ecological specialist, Public
		Participation
Barberton IAPS Waste Water Treatment Works	Umjindi Local Municipality	Project Manager,
development BAR, Barberton, Mpumalanga	and Rhodes University	Environmental consultant,
Province		Public Participation
SANRAL Caledon N2 Section 3 road upgrade project	JG Afrika Engineering	Project Manager,
Basic Assessment, Caledon, Western Cape Province		Environmental consultant,
		Ecological specialist, ECO

Environmental Compliance, Auditing and ECO

Project Name & Location	Client Name	Role
Construction Monitoring and DMR environmental	SANRAL SOC Ltd & Leo	Project Manager,
authorisation, Hendrina, Mpumalanga Province	consulting engineers	Environmental consultant, ECO

Environmental Permitting, \$53, Water Use Licence (WUL), Waste Management Licence (WML) & Other Applications

Project Name & Location	Client Name	Role
Water use licence for the SANRAL Zandkraal-	SANRAL SOC Ltd & SMEC	Project Manager,
Windburg N1 road upgrade and quarrying,	Consulting Engineers	Environmental consultant,
Windburg, Free State Province		Public Participation
SANRAL Masekwaspoort N1 road upgrade water use	SANRAL SOC Ltd & Knight	Project Manager,
licence application, Louis Trichardt, Limpopo	Piésold Consulting	Environmental consultant,
Province		Public Participation
Boshoek Loop Rail Upgrade water use licence	Transnet SOC Ltd	Project Manager,
application, Rustenburg, North-West Province		Environmental consultant,
		Wetland specialist, Public
		Participation
SANRAL Bierspruit R510 road water use licence,	SANRAL SOC Ltd & Royal	Project Manager,
Thabazimbi, Limpopo Province	HaskoningDHV South Africa	Environmental consultant,
		Ecological specialist, Public
		Participation
Barberton IAPS Waste Water Treatment Works water	Umjindi Local Municipality	Project Manager,
use licence and SASS 5 assessment, Barberton,	and Rhodes University	Environmental consultant,
Mpumalanga Province		Aquatic specialist, Public
		Participation
SANRAL Caledon N2 Section 3 road upgrade water	JG Afrika Engineering	Project Manager,
use licence and specialist reports, Caledon, Western		Environmental consultant,
Cape Province		Ecological specialist, Public
		Participation

HOUSING AND URBAN PROJECTS

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Scoping and EIR authorisation, Water Use Licence,	Frances Baard Local	Project Manager,
for the Ganspan tourism facility development, Jan	Municipality	Environmental consultant,
Kempdorp, Northern Cape		Public Participation

Basic Assessments

Project Name & Location	Client Name	Role
Basic Assessment for the office complex	South African National	Project Manager,
development within the Pretoria National Botanical	Biodiversity Institute (SANBI)	Environmental consultant,
Gardens, Pretoria, Gauteng		Public Participation, ECO
Corner Berg and Drooge Street township	Ramotshere Moiloa Local	Project Manager,
development BAR, Zeerust, North-West Province	Municipality	Environmental consultant,
		Public Participation
Corner Kort and Bree Street township development	Ramotshere Moiloa Local	Project Manager,
BAR, Zeerust, North-West Province	Municipality	Environmental consultant,
		Public Participation
Hope Village township development BAR,	Door of Hope Charity	Project Manager,
Johannesburg, Gauteng	Organisation	Environmental consultant,
		Public Participation
ACSA Jones Road Filling Station Basic Assessment,	Airports Company South	Project Manager,
Johannesburg, Gauteng	Africa SOC Ltd	Environmental consultant,
		Public Participation

Screening Studies

Project Name & Location	Client Name	Role
Kibler Park Church Development ecological	Riverside Community Church	Project Manager,
assessment, Johannesburg, Gauteng		Ecological specialist
DEA Quoin Point dune specialist assessments,	Department of Environmental	Project Manager,
Gansbaai, Western Cape	Affairs (national)	Environmental consultant

Environmental Compliance, Auditing and ECO

Project Name & Location	Client Name	Role
Transnet Depot and Siding compliance auditing	Transnet SOC Ltd	ECO
programme, Johannesburg, Gauteng & Rustenburg,		
North-West Province		
Environmental compliance monitoring for the office	South African National	Project Manager,
complex development within the Pretoria National	Biodiversity Institute (SANBI)	Environmental consultant,
Botanical Gardens, Pretoria, Gauteng		Public Participation, ECO

Environmental Permitting, \$53, Water Use Licence (WUL), Waste Management Licence (WML) & Other Applications

Project Name & Location	Client Name	Role
Atmospheric Emissions Licence, Section 24G for the	ER Galvanizers Pty Ltd	Project Manager,
ER Galvanizing plant and operations, Johannesburg,		Environmental consultant,
Gauteng		Public Participation
City of Johannesburg nature reserve proclamation	City of Johannesburg SOC	Project Manager,
(Phase II), Johannesburg, Gauteng	Ltd	Environmental consultant,
		Public Participation,
		Botanical specialist
Hope Village township development water use	Door of Hope Charity	Project Manager,
licence, Johannesburg, Gauteng	Organisation	Environmental consultant,
		Public Participation
Diamond Park Township Development Section 24G,	Sol Plaatje Local Municipality	Project Manager,
Kimberley, Northern Cape		Environmental consultant,
		Public Participation
Boschendal Wine Estate hydro-electric power station	Boschendal Wine Estate	Environmental consultant
Water Use Licence and \$24G application,		
Stellenbosch, Western Cape		
City of Johannesburg nature reserve proclamation	City of Johannesburg SOC	Environmental consultant
boundary verification (Phase I), Johannesburg,	Ltd	
Gauteng		
PRDW Cape Town harbour breakwater rehabilitation	PRDW Engineering	Project Manager,
EMPr, Cape Town, Western Cape		Environmental consultant
PRDW Bushman's Estuary dune encroachment	PRDW Engineering	Environmental consultant
project management, Kenton-on-sea, Eastern Cape		
Corner Berg and Drooge Street township	Ramotshere Moiloa Local	Project Manager,
development water use licence application,	Municipality	Environmental consultant
Zeerust, North-West Province		
Corner Kort and Bree Street township development	Ramotshere Moiloa Local	Project Manager,
water use licence, Zeerust, North-West Province	Municipality	Environmental consultant
Bloekombos (Kraaifontein) hospital water use	Western Cape Provincial	Project Manager,
licence application, Cape Town, Western Cape	Government (PGWC)	Environmental consultant,
		Botanical specialist,
		Wetland specialist

SPECIALIST STUDIES

Project Name & Location	Client Name	Role
Boshoek Loop Rail Upgrade BAR and Water Use	Transnet SOC Ltd	Wetland specialist
Licence, Rustenburg, North-West Province		
City of Johannesburg nature reserve proclamation	City of Johannesburg SOC	Botanical specialist
(Phase II), Johannesburg, Gauteng	Ltd	
SANRAL Bierspruit R510 road upgrade Water Use	SANRAL SOC Ltd & Royal	Ecological specialist
Licence, Basic Assessment, Thabazimbi, Limpopo	HaskoningDHV South Africa	
Province		
Kibler Park Church Development Ecological	Riverside Community Church	Ecological specialist
Assessment, Johannesburg, Gauteng		
Barberton IAPS Waste Water Treatment Works	Umjindi Local Municipality	Aquatic specialist
development BAR, water use licence and SASS 5	and Rhodes University	
assessment, Barberton, Mpumalanga Province		
Wijnberg Trust Dam 2 expansion Aquatic Impact	Wijnberg Trust	Aquatic specialist
Assessment		
SANRAL Caledon N2 Section 3 road upgrade project	JG Afrika Engineering	Ecological specialist
Basic Assessment, Water Use Licence and Specialist		
reports, Caledon, Western Cape Province		
City of Johannesburg nature reserve proclamation	City of Johannesburg SOC	GIS specialist
boundary verification (Phase I), Johannesburg,	Ltd	
Gauteng		
iGas integrated biodiversity screening, Saldanha,	Central Energy Fund - iGas	Faunal specialist (assistant)
Western Cape	(subsidiary)	
Bloekombos (Kraaifontein) botanical baseline and	Western Cape Provincial	Wetland specialist
impact assessment, Cape Town, Western Cape	Government (PGWC)	Botanical specialist



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CURRICULUM VITAE OF JO-ANNE THOMAS

Profession:	Environmental Management and Compliance Consultant; Environmental Assessment
	Practitioner
Specialisation:	Environmental Management; Strategic environmental advice; Environmental compliance
	advice & monitoring; Environmental Impact Assessments; Policy, strategy & guideline formulation; Project Management; General Ecology
	formulation, Froject Management, General Ecology
Work experience:	Twenty one (21) years in the environmental field

VOCATIONAL EXPERIENCE

Provide technical input for projects in the environmental management field, specialising in Strategic Environmental Advice, Environmental Impact Assessment studies, environmental auditing and monitoring, environmental permitting, public participation, Environmental Management Plans and Programmes, environmental policy, strategy and guideline formulation, and integrated environmental management. Key focus on integration of the specialist environmental studies and findings into larger engineering-based projects, strategic assessment, and providing practical and achievable environmental management solutions and mitigation measures. Responsibilities for environmental studies include project management (including client and authority liaison and management of specialist teams); review and manipulation of data; identification and assessment of potential negative environmental impacts and benefits; review of specialist studies; and the identification of mitigation measures. Compilation of the reports for environmental studies is in accordance with all relevant environmental legislation.

Undertaking of numerous environmental management studies has resulted in a good working knowledge of environmental legislation and policy requirements. Recent projects have been undertaken for both the public- and private-sector, including compliance advice and monitoring, electricity generation and transmission projects, various types of linear developments (such as National Road, local roads and power lines), waste management projects (landfills), mining rights and permits, policy, strategy and guideline development, as well as general environmental planning, development and management.

SKILLS BASE AND CORE COMPETENCIES

- Project management for a range of projects
- Identification and assessment of potential negative environmental impacts and benefits through the review and manipulation of data and specialist studies
- Identification of practical and achievable mitigation and management measures and the development of appropriate management plans
- Compilation of environmental reports in accordance with relevant environmental legislative requirements
- External and peer review of environmental reports & compliance advice and monitoring
- Formulation of environmental policies, strategies and guidelines
- Strategic and regional assessments; pre-feasibility & site selection
- Public participation processes for a variety of projects
- Strategic environmental advice to a wide variety of clients both in the public and private sectors
- Working knowledge of environmental planning processes, policies, regulatory frameworks and legislation

EDUCATION AND PROFESSIONAL STATUS

Degrees:

- B.Sc Earth Sciences, University of the Witwatersrand, Johannesburg (1993)
- B.Sc Honours in Botany, University of the Witwatersrand, Johannesburg (1994)
- M.Sc in Botany, University of the Witwatersrand, Johannesburg (1996)

Short Courses:

- Environmental Impact Assessment, Potchefstroom University (1998)
- Environmental Law, Morgan University (2001)
- Environmental Legislation, IMBEWU (2017)
- Mining Legislation, Cameron Cross & Associates (2013)
- Environmental and Social Risk Management (ESRM), International Finance Corporation (2018)

Professional Society Affiliations:

- Registered with the South African Council for Natural Scientific Professions as a Professional Natural Scientist: Environmental Scientist (400024/00)
- Registered with the International Associated for Impact Assessment South Africa (IAIAsa): 5601
- Member of the South African Wind Energy Association (SAWEA)

EMPLOYMENT

Date	Company	Roles and Responsibilities
2006 - Current	Savannah Environmental (Pty) Ltd	Director Project manager Independent specialist environmental consultant, Environmental Assessment Practitioner (EAP) and advisor.
1997 – 2005	Bohlweki Environmental (Pty) Ltd	Senior Environmental Scientist at. Environmental Management and Project Management
January – July 1997	Sutherland High School, Pretoria	Junior Science Teacher

PROJECT EXPERIENCE

Project experience includes large infrastructure projects, providing technical input for projects in the environmental management field, specialising in Strategic Environmental Advice, Environmental Impact Assessment studies, environmental permitting, Public Participation, Environmental Management Plans (EMPs) and Programmes (EMPrs), environmental policy, strategy and guideline formulation, and integrated environmental management; with a key focus on strategic assessment, and providing practical and achievable environmental management solutions and mitigation measures.

RENEWABLE POWER GENERATION PROJECTS: PHOTOVOLTAIC SOLAR ENERGY FACILITIES

Project Name & Location	Client Name	Role
ECO and bi-monthly auditing for the construction of	Enel Green Power	Project Manager
the Adams Solar PV Project Two South of Hotazel,		
Northern Cape		
ECO for the construction of the Kathu PV Facility,	REISA	Project Manager
Northern Cape		
ECO and bi-monthly auditing for the construction of	Enel Green Power	Project Manager
the Pulida PV Facility, Free State		P

Project Name & Location	Client Name	Role
ECO for the construction of the RustMo1 SEF, North	Momentous Energy	Project Manager
West		
ECO for the construction of the Sishen SEF, Northern	Windfall 59 Properties	Project Manager
Саре		
ECO for the construction of the Upington Airport PV	Sublanary Trading	Project Manager
Facility, Northern Cape		
Quarterly compliance monitoring of compliance	REISA	Project Manager
with all environmental licenses for the operation		
activities at the Kathu PV facility, Northern Cape		
ECO for the construction of the Konkoonsies II PV SEF	BioTherm Energy	Project Manager
and associated infrastructure, Northern Cape		
ECO for the construction of the Aggeneys PV SEF	BioTherm Energy	Project Manager
and associated infrastructure, Northern Cape		

Compliance Advice and ESAP Reporting

Project Name & Location	Client Name	Role
Aggeneys Solar Farm, Northern Cape	BioTherm Energy	Environmental Advisor
Airies II PV Facility SW of Kenhardt, Northern Cape	BioTherm Energy	Environmental Advisor
Kalahari SEF Phase II in Kathu, Northern Cape	Engie	Environmental Advisor
Kathu PV Facility, Northern Cape	Building Energy	Environmental Advisor
Kenhardt PV Facility, Northern Cape	BioTherm Energy	Environmental Advisor
Kleinbegin PV SEF West of Groblershoop, Northern	MedEnergy	Environmental Advisor
Саре		
Konkoonises II SEF near Pofadder, Northern Cape	BioTherm Energy	Environmental Advisor
Konkoonsies Solar Farm, Northern Cape	BioTherm Energy	Environmental Advisor
Lephalale SEF, Limpopo	Exxaro	Environmental Advisor
Pixley ka Seme PV Park, South-East of De Aar,	African Clean Energy	Environmental Advisor
Northern Cape	Developments (ACED)	
RustMo1 PV Plant near Buffelspoort, North West	Momentous Energy	Environmental Advisor
Scuitdrift 1 SEF & Scuitdrift 2 SEF, Limpopo	Building Energy	Environmental Advisor
Sirius PV Plants, Northern Cape	Aurora Power Solutions	Environmental Advisor
Upington Airport PV Power Project, Northern Cape	Sublunary Trading	Environmental Advisor
Upington SEF, Northern Cape	Abengoa Solar	Environmental Advisor
Ofir-ZX PV SEF near Keimoes, Northern Cape	Networx \$28 Energy	Environmental Advisor

Due Diligence Reporting

Project Name & Location	Client Name	Role
5 PV SEF projects in Lephalale, Limpopo	iNca Energy	Environmental Advisor
Prieska PV Plant, Northern Cape	SunEdison Energy India	Environmental Advisor
Sirius Phase One PV Facility near Upington, Northern	Aurora Power Solutions	Environmental Advisor
Саре		

RENEWABLE POWER GENERATION PROJECTS: CONCENTRATED SOLAR FACILITIES (CSP)

Project Name & Location	Client Name	Role
ECO for the construction of the !Khi CSP Facility,	Abengoa Solar	Project Manager
Northern Cape		
ECO for the construction of the Ilanga CSP 1 Facility	Karoshoek Solar One	Project Manager
near Upington, Northern Cape		49

Project Name & Location	Client Name	Role
ECO for the construction of the folar Park, Northern	Kathu Solar	Project Manager
Саре		
ECO for the construction of the KaXu! CSP Facility,	Abengoa Solar	Project Manager
Northern Cape		
Internal audit of compliance with the conditions of	Karoshoek Solar One	Project Manager
the IWUL issued to the Karoshoek Solar One CSP		
Facility, Northern Cape		

Compliance Advice and ESAP reporting

Project Name & Location	Client Name	Role
Ilanga CSP Facility near Upington, Northern Cape	llangethu Energy	Environmental Advisor
llangalethu CSP 2, Northern Cape	FG Emvelo	Environmental Advisor
Kathu CSP Facility, Northern Cape	GDF Suez	Environmental Advisor
Lephalale SEF, Limpopo	Cennergi	Environmental Advisor
Solis I CSP Facility, Northern Cape	Brightsource	Environmental Advisor

RENEWABLE POWER GENERATION PROJECTS: WIND ENERGY FACILITIES

Environmental Compliance, Auditing and ECO

Project Name & Location	Client Name	Role
ECO for the construction of the West Coast One	Aurora Wind Power	Project Manager
WEF, Western Cape		
ECO for the construction of the Gouda WEF,	Blue Falcon	Project Manager
Western Cape		
EO for the Dassiesklip Wind Energy Facility, Western	Group 5	Project Manager
Саре		
Quarterly compliance monitoring of compliance	Blue Falcon	Project Manager
with all environmental licenses for the operation		
activities at the Gouda Wind Energy facility near		
Gouda, Western Cape		
Annual auditing of compliance with all	Aurora Wind Power	Project Manager
environmental licenses for the operation activities at		
the West Coast One Wind Energy facility near		
Vredenburg, Western Cape		
External environmental and social audit for the	Cennergi	Project Manager
Amakhala Wind Farm, Eastern Cape		
External environmental and social audit for the	Cennergi	Project Manager
Tsitsikamma Wind Farm, Eastern Cape		
ECO for the construction of the Excelsior Wind Farm	BioTherm Energy	Project Manager
and associated infrastructure, Northern Cape		
External compliance audit of the Dassiesklip Wind	BioTherm Energy	Project Manager
Energy Facility, Western Cape		

Compliance Advice

Project Name & Location	Client Name	Role
Amakhala Phase 1 WEF, Eastern Cape	Cennergi	Environmental Advisor
Dassiesfontein WEF within the Overberg area,	BioTherm Energy	Environmental Advisor
Western Cape		
Excelsior Wind Farm, Western Cape	BioTherm Energy	Environmental Advisor

Great Karoo Wind Farm, Northern Cape	African Clean Energy	Environmental Advisor
	Developments (ACED)	
Hopefield Community WEF, Western Cape	African Clean Energy	Environmental Advisor
	Developments (ACED)	
Rheboksfontein WEF, Western Cape	Moyeng Energy	Environmental Advisor
Tiqua WEF, Western Cape	Cennergi	Environmental Advisor
Tsitsikamma WEF, Eastern Cape	Cennergi	Environmental Advisor
West Coast One WEF, Western Cape	Moyeng Energy	Environmental Advisor

Due Diligence Reporting

Project Name & Location	Client Name	Role
Witteberg WEF, Western Cape	EDPR Renewables	Environmental Advisor
IPD Vredenburg WEF within the Saldanha Bay area,	IL&FS Energy Development	Environmental Advisor
Western Cape	Company	

CONVENTIONAL POWER GENERATION PROJECTS (COAL)

Environmental Compliance, Auditing and ECO

Project Name & Location	Client Name	Role
ECO for the Camden Power Station, Mpumalanga	Eskom Holdings	Project Manager

Compliance Advice

Project Name & Location	Client Name	Role
Thabametsi IPP Coal-fired Power Station, near	Axia	Environmental Advisor
Lephalale, Limpopo		

GRID INFRASTRUCTURE PROJECTS

Environmental Compliance, Auditing and ECO

Project Name & Location	Client Name	Role
ECO for the construction of the Ferrum-Mookodi	Trans-Africa Projects on behalf	Project Manager
Transmission Line, Northern Cape and North West	of Eskom	
EO for the construction of the Gamma-Kappa	Trans-Africa Projects on behalf	Project Manager
Section A Transmission Line, Western Cape	of Eskom	
EO for the construction of the Gamma-Kappa	Trans-Africa Projects on behalf	Project Manager
Section B Transmission Line, Western Cape	of Eskom	
EO for the construction of the Hydra IPP Integration	Trans-Africa Projects on behalf	Project Manager
project, Northern Cape	of Eskom	
EO for the construction of the Kappa-Sterrekus	Trans-Africa Projects on behalf	Project Manager
Section C Transmission Line, Western Cape	of Eskom	
EO for the construction of the Namaqualand	Trans-Africa Projects on behalf	Project Manager
Strengthening project in Port Nolloth, Western Cape	of Eskom	
ECO for the construction of the Neptune Substation	Eskom	Project Manager
Soil Erosion Mitigation Project, Eastern Cape		
ECO for the construction of the Ilanga-Gordonia	Karoshoek Solar One	Project Manager
132kV power line, Northern Cape		

MINING SECTOR PROJECTS

Project Name & Location	Client Name	Role
ECO for the construction of the Duhva Mine Water	Eskom Holdings SoC Limited	Project Manager
Recovery Project, Mpumalanga		
External compliance audit of Palesa Coal Mine's	HCI Coal	Project Manager
Integrated Water Use License (IWUL), near		
KwaMhlanga, Mpumalanga		
External compliance audit of Palesa Coal Mine's	HCI Coal	Project Manager
Waste Management License (WML) and EMP, near		
KwaMhlanga, Mpumalanga		
External compliance audit of Mbali Coal Mine's	HCI Coal	Project Manager
Integrated Water Use License (IWUL), near Ogies,		
Mpumalanga		
Independent External Compliance Audit of Water	Tronox Namakwa Sands	Project Manager
Use License (WUL) for the Tronox Namakwa Sands		
(TNS) Mining Operations (Brand se Baai), Western		
Саре		
Independent External Compliance Audit of Water	Tronox Namakwa Sands	Project Manager
Use License (WUL) for the Tronox Namakwa Sands		
(TNS) Mineral Separation Plant (MSP), Western Cape		
Independent External Compliance Audit of Water	Tronox Namakwa Sands	Project Manager
Use License (WUL) for the Tronox Namakwa Sands		
(TNS) Smelter Operations (Saldanha), Western Cape		
Compliance Auditing of the Waste Management	PetroSA	Project Manager
Licence for the PetroSA Landfill Site at the GTL		
Refinery, Western Cape		

INFRASTRUCTURE DEVELOPMENT PROJECTS (BRIDGES, PIPELINES, ROADS, WATER RESOURCES, STORAGE, ETC)

Project Name & Location	Client Name	Role
ECO and bi-monthly auditing for the construction of	Department of Water and	Project Manager
the Olifants River Water Resources Development	Sanitation	Auditor
Project (ORWRDP) Phase 2A: De Hoop Dam, R555		
realignment and housing infrastructure		
ECO for the Rehabilitation of the Blaaupan & Storm	Airports Company of South	Project Manager
Water Channel, Gauteng	Africa (ACSA)	
Due Diligence reporting for the Better Fuel Pyrolysis	Better Fuels	Project Manager
Facility, Gauteng		
ECO for the Construction of the Water Pipeline from	Transnet	Project Manager
Kendal Power Station to Kendal Pump Station,		
Mpumalanga		
ECO for the Replacement of Low-Level Bridge,	South African National	Project Manager
Demolition and Removal of Artificial Pong, and	Biodiversity Institute (SANBI)	
Reinforcement the Banks of the Crocodile River at		
the Construction at Walter Sisulu National Botanical		
Gardens, Gauteng Province		
External Compliance Audit of the Air Emission	PetroSA	Project Manager
Licence (AEL) for a depot in Bloemfontein, Free		
State Province and in Tzaneen, Mpumalanga		
Province		

HOUSING AND URBAN PROJECTS

Compliance Advice and reporting

Project Name & Location	Client Name	Role
Kampi ya Thude at the Olifants West Game Reserve,	Nick Elliot	Environmental Advisor
Limpopo		
External Compliance Audit of WUL for the	Johannesburg Country Club	Project Manager
Johannesburg Country Club, Gauteng		

Project Name & Location	Client Name	Role
Due Diligence Audit for the Due Diligence Audit	Delta BEC (on behalf of	Project Manager
Report, Gauteng	Johannesburg Development	
	Agency (JDA))	