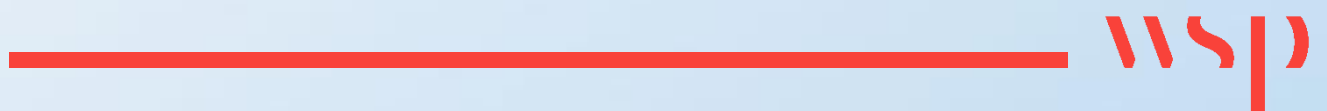


Appendix C

SPECIALIST CVS AND QUALIFICATIONS



APPENDIX 12:

DECLARATION OF SPECIALISTS

Declaration of environmental specialists

Specialist Company Name:	Feathers Environmental Services CC		
Specialist name:	Megan Diamond		
Specialist Qualifications:	BSc Environmental Management		
Professional affiliation/registration ⁵⁸ :	SACNASP		
Physical address:	2 Kingfishers Place, Bromhof, Johannesburg, 2188		
Postal address:	PO Box 786962, Sandton, Johannesburg		
Postal code:	2146	Cell:	0826830970
Telephone:	0826830970	Fax:	N/A
E-mail:	megan@feathersenv.co.za		

DECLARATION BY THE SPECIALIST

I, _____ Megan Diamond _____, declare that –

- I act as the independent specialist in this Standard registration process;
- I have performed the work relating to the specialist assessment to identify the pre-negotiated corridor
- location confirmation in an objective manner;
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist input and confirming statement relevant to this request for
- registration, including knowledge of the National Environmental Management Act, 1998 (Act No. 107 of 1998) (the Act), Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the proponent all material information in my possession that reasonably has
- or may have the potential of influencing compliance with the Standards registration process; and
- all the particulars furnished by me in this form are true and correct.







Signature of the Specialist:

Feathers Environmental Services CC
Name of Company:

3 June 2025
Date:

⁵⁸ A copy of the most recent registration certificate must be appended as appendix 13.

MEGAN DIAMOND

PO Box 786962, Sandton, 2146 
082 683 0970 
megandiamond7@gmail.com 
Megan Diamond 



PROFILE

Ms. Megan Diamond completed a Bachelor of Science degree in Environmental Management from the University of South Africa and has been involved in conservation for 20 years. During her tenure at the Endangered Wildlife Trust's Wildlife & Energy Programme and the Programme's primary project (i.e. the Eskom-EWT Strategic Partnership) from 2006 to 2013, she was responsible for assisting the energy industry and the national utility in minimising the negative impacts, associated with the construction and operation of electrical infrastructure, on wildlife through the provision of strategic guidance, risk and impact assessments, training and research. Megan currently owns and manages *Feathers Environmental Services*, an avifaunal consultancy that provides guidance to industry through the development of best practice procedures and avifaunal specialist studies for various developments including renewable energy facilities, power lines, power stations and substation infrastructure in addition to railway infrastructure and residential properties within South Africa and elsewhere within Africa. Megan has attended and presented at several conferences and facilitated workshops, as a subject expert, since 2007. Megan has authored and co-authored academic papers, research reports and energy industry related guidelines, including the *BirdLife South Africa/ Endangered Wildlife Trust best practice guidelines for avian monitoring and impact mitigation at proposed wind energy development sites in southern Africa* and the *Avian Wind Farm Sensitivity Map for South Africa* (2015), and played an instrumental role in facilitating the endorsement of these two products by the South African Wind Energy Association (SAWEA), IAIAsa (International Association for Impact Assessment South Africa) and Eskom. She chaired the Birds and Wind Energy Specialist Group in South Africa (2011/2012) and the IUCN/SSC Crane Specialist Group's Crane and Power line Network (2013-2015), a working group comprised of subject matter experts from across the world, working in partnership to share lessons, develop capacity, pool resources, and accelerate collective learning towards finding innovative solutions to mitigate this impact on threatened crane populations. She is currently a member of the IUCN Stork, Ibis and Spoonbill Specialist Group and the Eskom-EWT Strategic Partnership Ludwig's Bustard Working Group, in addition to an Eskom-led working group that will result in the development of a national standard and specification for all Medium Voltage power lines constructed both in South Africa and across the continent.



PERSONAL DETAILS

Date of Birth | 7 December 1978

Driver's License | Code A and B

Home Language | English

Other Languages | Afrikaans



EDUCATION

BSc Environmental Management | University of South Africa (UNISA)

2002 – 2009



ACCREDITATION

South African Council for Natural Scientific Professions | Environmental Science

REGISTRATION NUMBER: 300022/14



EXPERIENCE

Director & Avifaunal Specialist | Feathers Environmental Services

JULY 2013 – PRESENT

- * Perform specialist avifaunal assessment studies to minimise the impact of industrial infrastructure on birds and their habitats;
- * Provide strategic guidance to industry through the development of best practice procedures and guidelines;
- * Review and comment on methodologies, specialist studies and EIA reports for Renewable Energy projects;
- * Provide input into renewable energy and power line developments elsewhere in Africa and internationally;
- * Attendance of specialist integration meetings;
- * Stakeholder liaison;
- * Manage the collection and collation of relevant and complete desktop and/or field datasets;
- * Manage pre- and post-construction avifaunal monitoring data collected at wind and solar energy facilities;
- * Site assessments, either as part of the project team or independently; and
- * Preparation of reports according to project deadlines, including the use of Geographic Information Systems (GIS) to portray data.

Wildlife & Energy Programme Manager | Endangered Wildlife Trust

OCTOBER 2006 – JUNE 2013

Programme management

- * Annual review of the programme's conservation and research strategic objectives in accordance with the EWT's and programme's vision and mission
- * Compile and manage programme budgets, monthly reports, work plans and strategy;
- * Formulate, prioritise and approve relevant research and conservation projects;
- * Ensure quality delivery of all projects and their outputs;
- * Participate in international network liaison;
- * Produce regular popular articles & media releases on programme projects and outputs;

- * Establish and maintain a network with relevant national & international stakeholders;
- * Deliver presentations at relevant meetings, functions, workshops & conferences on behalf of the programme; and
- * Identify & establish partnerships to achieve conservation goals.

Eskom –EWT Strategic Partnership

- * Effective and sustainable management of the strategic partnership against its goals;
- * Manage staff in this division;
- * Develop and maintain relationships with Eskom;
- * Negotiate the terms of reference for the annual service level agreements between EWT and Eskom, to ensure the sustainability of the relationship;
- * Compile annual report to Eskom Corporate Environment and Sustainability;
- * Produce monthly reports to Eskom’s regional grids on the status of incident follow-up;
- * Attend applicable forums to interact with Eskom stakeholders;
- * Participate in international network liaison;
- * Maintain a network with all relevant local and regional level stakeholders through meetings, forums and workshops;
- * Identify research needs relating to the management of wildlife interaction with power lines;
- * Conduct research projects on wildlife and power line interaction and present the results at national and international conferences and workshops;
- * Development and implementation of training for Eskom field services staff (at various levels) in the management of wildlife interactions; and
- * Conduct special investigations on power lines relating to wildlife induced faulting.

Environmental Impact Assessment Division

- * Ensure that this division operates effectively and efficiently at all times and manage staff in this division; and
- * Conduct specialist avifaunal studies for new power lines developments including: tendering/quoting for the projects, conducting field work, preparing reports, presenting results & negotiating the acceptance of recommendations, final “walk through” as part of Environmental Management Plans; general project management, all liaison with clients, Eskom, authorities, Interested and Affected Parties etc.

Programme Administrator & Assistant Research Officer | TRAFFIC East/Southern Africa: South Africa

AUGUST 2002 – SEPTEMBER 2006

- * Providing administrative support to the Project Manager & National Representative
- * Co-coordinating and reporting to the Project Steering Committee and the Donor (DANIDA) on a budget of R3,5 million.
- * The completion of data-capture process for the CITES permit database as well as assisting with the transformation of the permit database from DBase into Microsoft Access format.
- * Liaise directly with Government environmental departments, regarding permit collection and queries.
- * Providing information relating to CITES permits wildlife trade to interested parties i.e. Government departments and Provincial Nature Conservation authorities.
- * Assisting the National Representative and Programme Officers of TRAFFIC East/Southern Africa: South Africa with their research or other general work as directed.

Front of House Manager/Receptionist/Reservationist | Lion Sands Private Game Reserve
OCTOBER 2001 – MAY 2002

- * Co-ordination and management of reception staff, shift schedules and leave cycles.
- * Data capturing, statistics, guest liaison and orientation, collation of guest accounts, relevant administration and documentation flow.
- * Training and development of frontline staff. Switchboard, Reception and Reservations duties

Personal Assistant | Appliance Trend Setters
MAY 2000 – SEPTEMBER 2001

- * PA duties in addition to conducting the book keeping requirements of the company



CONFERENCE ATTENDANCE

- * Society for Conservation Biology 21st Annual Meeting (1-5 July 2007)
- * The 6th TAWIRI Scientific Conference (3 – 6 December 2007) **Presented a paper titled “Co-operative management of wildlife and power line conflicts: an African solution”**
- * Pan-African Ornithological Congress (7-12 September 2008)
- * International Conference on Overhead Lines, Design, Construction, Inspection & Maintenance, Fort Collins Colorado USA. (29 March – 1 April 2010) **Presented a paper titled “Bird’s eye view: how birds see is key to avoiding power line collision”**
- * Windaba 2011 – Implementing South African Wind Energy (27-29 September 2011)
- * Pan African Vulture Summit (16-20 April 2012) **Presented a paper titled “Electrification in Africa – Are our vultures being strung along”**
- * 4th Wind Power Africa Conference & Renewable Energy Exhibition (28-30 May 2012) **Presented a paper titled “Wind Energy in Africa – what does this really mean for our continent’s birds”**
- * 13th Pan-African Ornithological Congress (14-21 October 2012) **Presented a paper titled “Stringing South Africa’s Terrestrial Birds Along - Monitoring of Bird Interactions with Power Line and Experimental Testing of Bird Collision Mitigation at the Karoo Long Term Monitoring Site”**
- * AEWA Single Species Action-Planning Workshop for the Conservation of the Grey Crowned Crane (10-13 September 2013) **Presented and participated in the workshop as a subject expert (energy and bird interactions)**



AUTHORED & CO-AUTHORED PAPERS

Jenkins, A.R., Smallie, J. & **Diamond, M.** 2009. Balls, flashers, flappers and coils: South African perspectives on a global search for ways to prevent avian collisions with overhead lines. In: Harebottle, D.M., Craig, A.J.F.K., Anderson, M.D., Rakatomonana, H. & Muchai, M. (eds). *Proceedings of the 12th Pan-African Ornithological Congress, 2008*. Cape Town, Animal Demography Unit.

Smallie, J., **Diamond, M.** & Jenkins, A. 2009. Lighting up the African continent – what does it mean for our birds? pp. 38–43. In: Harebottle, D.M., Craig, A.J.F.K., Anderson, M.D., Rakotomanana, H. & Muchai. (eds). *Proceedings of the 12th Pan-African Ornithological Congress, 2008*. Cape Town, Animal Demography Unit.

Jenkins, A. R., Smallie, J.J and **Diamond, M.** 2010 Avian collisions with power lines: a global review of causes and mitigation with a South African perspective. Bird Conservation International, page1 of16.

Retief, E.F., **Diamond, M.**, Anderson, M.D., Smit, H.A., Jenkins, A.R., Brooks, M. 2011. Avian Wind Farm Sensitivity Map for South Africa.

Jenkins, A.R., Van Rooyen, C.S., Smallie, J.J., Harrison, J.A., **Diamond, M.** And Smit, H.A. 2012. BirdLife South Africa / Endangered Wildlife Trust best practice guidelines for avian monitoring and impact mitigation at proposed wind energy development sites in southern Africa.

Jenkins, A.R., De Goede, K.H., Sebele, L. and **Diamond, M.** 2013. Brokering a settlement between eagles and industry: sustainable management of large raptors nesting on power infrastructure. Bird Conservation International (2013) 23:232 – 246.

Diamond, M., Harris, J., Mirande, C. and Austin, J. 2014. People of a feather flock together: A global initiative to address crane and power line interactions. 13th North American Crane Workshop Summary. Lafayette, Louisiana.

Page-Nicholson, S., Tate, G., Hoogstad, C., Murison, M., **Diamond, M.**, Blofield, A., Pretorius, M., Michael, M.D. 2018. Mitigating the Impact of Large Mammals on Wooden Electrical Distribution Poles in the Kruger National Park, South Africa. African Journal of Wildlife Research.

Diamond, M. and Hoogstad, C. (in press) Collisions and habitat loss associated with utility lines and wind turbines. IUCN SSC Crane Specialist Group – Crane Conservation Strategy.



REFERENCES

Chris van Rooyen | 082 454 9570 (vanrooyen.chris@gmail.com)
Jon Smallie | 082 444 8919 (jon@wildskies.co.za)
Constant Hoogstad | 082 334 4176 (ConstantH@ewt.org.za)
Lee Atkinson | 083 318 3311 (lee@more.co.za)



We certify that

Megan Diamond

having complied with the requirements of the Higher Education Act

and the Institutional Statute, was admitted to the degree of

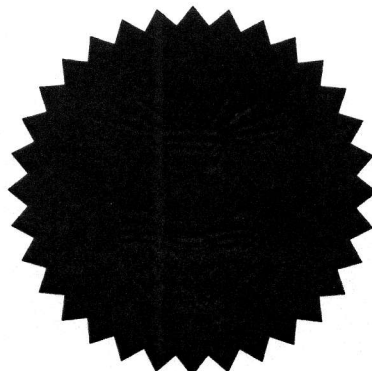
BACHELOR OF SCIENCE

with specialisation in Environmental Management: Zoology Stream

at a congregation of the University

on 19 May 2009

Vice-Chancellor



Executive Dean

University Registrar





herewith certifies that

Megan Diamond

Registration Number: 300022/14

is a registered scientist

in terms of section 20(3) of the Natural Scientific Professions Act, 2003
(Act 27 of 2003)

in the following field(s) of practice (Schedule 1 of the Act)

Environmental Science (Certificated Natural Scientist)

Effective **14 May 2014**

Expires **31 March 2026**



A handwritten signature in black ink, appearing to read 'S. Neph'.

Chairperson

A handwritten signature in black ink, appearing to read 'N. Maseko'.

Chief Executive Officer



To verify this certificate scan this code

APPENDIX 12:

DECLARATION OF SPECIALISTS

Declaration of environmental specialists

Specialist Company Name:	WSP Group Africa		
Specialist name:	Johan Bothma		
Specialist Qualifications:	MLArch		
Professional affiliation/registration ⁵⁸ :	PrLArch SACLAP		
Physical address:	Building 1, Maxwell Office Park, Magwa Crescent West, Waterfall City, Midrand 1685 South Africa		
Postal address:	P.O. Box 98867, Sloane Park,		
Postal code:	2152	Cell:	082 803 3882
Telephone:	011 254 4800	Fax:	N/A
E-mail:	johan.bothma@wsp.com		

DECLARATION BY THE SPECIALIST

I, Johan Bothma, declare that –

- I act as the independent specialist in this Standard registration process;
- I have performed the work relating to the specialist assessment to identify the pre-negotiated corridor
- location confirmation in an objective manner;
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist input and confirming statement relevant to this request for
- registration, including knowledge of the National Environmental Management Act, 1998 (Act No. 107 of 1998) (the Act), Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the proponent all material information in my possession that reasonably has
- or may have the potential of influencing compliance with the Standards registration process; and
- all the particulars furnished by me in this form are true and correct.

Signature of the Specialist: **Bothma, Johan**
(ZAJB05081)

Digitally signed by Bothma, Johan
(ZAJB05081)
DN: cn=Bothma, Johan
(ZAJB05081), ou=Active,
email=johan.bothma@wsp.com
Date: 2025.06.02 19:51:02 +02'00'

Name of Company:
WSP Group Africa

Date:
02/06/2025

⁵⁸ A copy of the most recent registration certificate must be appended as appendix 13.



Johan Bothma

Earth & Environment - Rehabilitation & Closure, Visual Assessment Specialist,
Registered Landscape Architect

CAREER SUMMARY

Johan is the Director for Rehabilitation and Closure based in the Midrand, South Africa office. He has 20 years consulting experience and is currently advancing closure planning and costing for mining, industrial, power, and renewable sector operations, with a focus on risk mitigation, post mining land use planning, and land stewardship. Johan has completed mine closure related projects for a wide variety of commodities throughout Africa and abroad, including sites throughout South Africa, and in Zambia, Mozambique, Botswana, Namibia, Uganda, the DRC and Congo, Ghana, Guinea, Mauritania, the UK, Mexico, and Uzbekistan. He specialises in visual assessment and graphic representation of project impact and mitigation and also has considerable experience in impact assessment, environmental management plans, and auditing for mining, industrial, commercial and property development and projects.



Johan is a professionally registered Landscape Architect and completed his master's degree in 2004, focusing on climate responsive design and energy efficiency for residential developments. He has previously worked on various landscape planning and design projects, including large scale open space management plans, as well as landscape architectural design for prestige governmental projects including the Presidential residence in Bryntirion Estate in Pretoria.

16 years with WSP

Area of expertise

Advancing Closure Planning and Costing
Land Use Planning and Latent Risk Mitigation
Visual Assessment
Environmental Management Plans
Auditing for Mining, Industrial & Commercial
Property Development
Open Space Management Plans
Landscape Design Projects
Open Space Management Plans

20 years of experience

Language

Afrikaans – Fluent
English – Fluent

EDUCATION

MLArch Landscape Architecture, University of Pretoria, Pretoria	2004
BL Landscape Architecture, University of Pretoria, Pretoria,	2001



Johan Bothma

Earth & Environment - Rehabilitation & Closure, Visual Assessment Specialist,
Registered Landscape Architect

PROFESSIONAL AFFILIATIONS

Institute of Landscape Architecture of South Africa (ILASA)	2007
South African Council for the Landscape Architectural Profession (SACLAP)	2007

PROFESSIONAL HISTORY

WSP Group Africa (Pty) Ltd.	July 2022 – present
Golder Associates Africa (Pty) Ltd.	2008 – June 2022
African EPA	2004 – 2007
University of Pretoria (part-time contract)	2003
Strategic Environmental Focus SA (part-time contract)	2002 – 2003
Karien Hanekom Landscape Architects (part-time contract)	2001 - 2002
Maarten Venter Landscape Architects (part-time contract)	2000

PROFESSIONAL EXPERIENCE

REHABILITATION AND CLOSURE

Anglo American Platinum – Limpopo Province, South Africa

2021 – ongoing

Project director

Ongoing closure planning and costs development aligned to the requirements of GN R. 1147, Anglo American Mine Closure Toolbox Version 3 and IRMA, including operational rehabilitation planning and residual costs quantifications.

Sasol Secunda - Mpumalanga, South Africa

2015; 2017; 2019; 2021-2022

Project manager/technical director

Project manager 2015 and 2017, and technical direction and review 2019 and 2021-22 closure costs updates, for the Sasol Secunda Synfuels and Chemicals operations complex, including waste disposal, post-closure water treatment and cash flows.

Sibanye-Stillwater Gold Mines - Gauteng, Free State, and Mpumalanga, South Africa

2013 - ongoing

Project manager/project director

Ongoing closure planning and costs updates for the Kloof, Driefontein, Cooke, Ezulwini, RUSO, Beatrix and Burnstone operations, including operational rehabilitation planning and residual costs quantifications.

Sibanye-Stillwater Platinum operations - Northwest Province and Limpopo, South Africa

2017 - ongoing

Project manager/project director

Ongoing closure planning and costs updates for RPM, Kroondal, Marikana and Blue Ridge operations, including operational rehabilitation planning and residual costs quantifications.



Johan Bothma

Earth & Environment - Rehabilitation & Closure, Visual Assessment Specialist,
Registered Landscape Architect

ICL Boulby Polyhalite Mine – North York Moors National Park, UK 2023

Closure Planning Specialist

Development of a comprehensive mine closure plan which formed part of a larger mine-wide water management project, was the first comprehensive closure planning that had been done for the mine, and included several components, namely: Closure environmental risk assessment, Mine-wide demolition, remediation and rehabilitation planning, including implementation of post-mining land uses, Development of conceptual shaft and sea outfall decommissioning, plugging, and sealing measures, which had not been fully addressed before, Measures for closure of the extensive off-site infrastructure associated with the mine, including conceptual measures for making safe of numerous heritage features such as historical bridges, Computing of the mine-wide and off-site closure costs, for likely and higher-case scenarios, Inclusion of company overheads, retrenchment and reskilling, and committed post-closure costs, Scheduling and costing of operational demolition and rehabilitation activities

Rio Tinto Iron Ore Simandou Project – Guinea 2021 – ongoing

Closure specialist

Development of conceptual closure planning and associated costs for the RTIO Simandou open pit mining project, including further detailed site assessment and technical review of the ongoing for day-of-assessment and life-of-mine closure costs and further mine closure planning updates

Golden Star Resources – Ghana 2013, 2018, 2022

Closure specialist

Compilation of decommissioning plan and asset retirement obligations for its two mines, Golden Star Wassa Limited and Golden Star Bogoso/Prestea Limited. Develop detailed quantity survey based on site assessment to determine individual infrastructure volumes and identification of material to determine the quantities of materials needed for demolition, disposal, including rehabilitation of associated process water dams and impoundments, residue facilities, and associated contamination related remediation.

Torex Gold – Mexico 2013, 2018

Closure specialist

Development of conceptual closure planning and determination of unscheduled and scheduled closure costs for the Torex gold open pit gold mine in Mexico

Arnot OpCo Coal Mine - Mpumalanga, South Africa 2016 – 2019 (Exxaro), 2020 – ongoing (OpCo)

Project manager/technical review

Comprehensive GN R. 1147 compliant closure plan and costs for final closure of Arnot Coal mine, including qualitative and quantitative risk assessments, residual and latent risk mitigation and costs.

Gold Fields South Deep Mine - Gauteng, South Africa 2013-2017; 2019

Project manager

Operational rehabilitation, closure planning and costs, detailed next land use plan, residual and latent costs determination towards GN R. 1147 compliance. Compilation of joint Sibanye/Gold Fields rehabilitation options analysis, planning and costing for the Leeuwspruit.



Johan Bothma

Earth & Environment - Rehabilitation & Closure, Visual Assessment Specialist,
Registered Landscape Architect

Mafube Coal Mine - Mpumalanga, South Africa 2017

Project manager

Closure plan and bio-physical closure costs, qualitative and quantitative risk assessments, residual and latent risk mitigation and water treatment costs, towards GN R. 1147 compliance.

Morupule thermal power station, and coal mine - Morupule area, Botswana

2016; 2018, 2021 - ongoing

Project manager/project director

Closure costs determination and closure framework for Phase 2 expansion of Morupule thermal coal power station (2016), and closure costs review and update of Morupule coal mine (2018, 2021).

Kenmare Moma Mine - Sofala, Mozambique

2015; 2018; 2020

Project manager

Scheduled and unscheduled closure cost updates for Moma sand mine in Mozambique.

Anglo New Denmark, New Vaal, Union and Goedeheop Mines interim closure planning and costing - Mpumalanga, South Africa

2013 – 2014

Project manager/closure specialist

Anglo Closure Toolbox interim closure planning for respective Anglo Coal mines, including state of the environment, rapid strategic environmental assessment, closure criteria, risk assessment, closure costing and next land use planning.

Zincor detailed land use plan - Gauteng, South Africa

2013

Project manager

Detailed evaluation of post-closure next land use options for decommissioned Zincor zinc smelter complex. Letlhakane and Jwaneng land use plans and graphic modelling - Botswana

2012 – 2014

Closure specialist

Post-closure land use plans for the Letlhakane and Jwaneng open pit diamond mines in Botswana. Graphic modelling direction for various waste rock disposal, site-wide rehabilitation and end land use planning alternatives. Closure costs final review for Jwaneng.

Thaba Metsi Coal Mine - Limpopo, South Africa

2012

Closure specialist

Scheduled and unscheduled closure cost determinations, preliminary end land use plan for Thaba Metsi opencast and underground coal mine.

Goedeheop Colliery - Mpumalanga, South Africa

2012

Closure specialist

Scheduled and unscheduled closure cost determinations, preliminary land use plan for Goedeheop North and South underground coal mines.

International closure projects review and technical inputs (various)

Project manager/closure specialist

Specialist closure planning and costs direction and review for various African and international mines, including Kinsevere, Kipushi and Kamoanga copper mines (DRC), Kansanshi copper mine (Zambia), Guelb Moghrein gold-copper mine (Mauritania), Maamba coal mine (Zambia), Torex gold mine (Mexico).

Johan Bothma

Earth & Environment - Rehabilitation & Closure, Visual Assessment Specialist,
Registered Landscape Architect

VISUAL IMPACT ASSESSMENTS

Verkykerskop, Phefumula Emoyeni, Mukondeleli Visual Impact Assessments – South Africa 2023 – ongoing

Visual assessment specialist

Visual impact assessments for various proposed renewables sector PV and wind turbine installations, including directing viewshed analysis and graphic simulation of the implemented project to evaluate visual impacts.

CNOOC on-shore gas project Visual Impact Assessment - Lake Albert, Uganda 2018 – 2019

Project manager/visual assessment specialist

Visual impact assessment and strategic direction for night-time light glare pollution for the new CNOOC offshore oil project on the shore of Lake Albert in Uganda.

Lonmin solar plant Visual Impact Assessment - Northwest Province, South Africa 2013

Project manager

VIA, including viewshed analysis and complex glare path analysis of a proposed photovoltaic installation at Lonmin mine.

Zonnebloem, Schoonoord, Brakfontein, Optimum, Rondebult, Doornrug, and Middelkraal mines – various locations in South Africa 2006 – 2013

Project manager/visual assessment specialist

Complex, staged VIA including viewshed analysis, for various phases of mining.

Lethlakane and Jwaneng diamond mines Visual Impact Assessment - Botswana 2012

Project manager/visual assessment specialist

Visual assessment and extensive graphic modelling for the rehabilitation, closure, and end land use of Lethlakane and Jwaneng open pit diamond mines in Botswana.

Kamoa, Dumasi mines Visual Impact Assessment - DRC, Ghana 2013

Visual assessment specialist

Visual impact assessments for open pit mines.

Schoonoord coal mine Visual Impact Assessment - Mpumalanga, South Africa 2012

Visual assessment specialist

Complex, staged VIA including viewshed analysis, for various phases of mining.

Prestea gold mine Visual Impact Assessment - Ghana, Ghana 2012

Visual assessment specialist

VIA for the redevelopment and expansion of the mothballed Prestea mine at the town of Prestea.

Lethlakane Diamond Mine Visual Impact Assessment - Orapa, Botswana 2012

Visual assessment specialist

Visual assessment and extensive graphic modelling for the rehabilitation, closure, and end land use of Lethlakane open pit diamond mine in Botswana.

Johan Bothma

Earth & Environment - Rehabilitation & Closure, Visual Assessment Specialist,
Registered Landscape Architect

**Scantogo, Project title, Tabligbo, Togo
2011**

Visual assessment specialist

VIA for the construction of a quarry and clinker production plant.

**Crossways & Sunnyvale Estate Visual Impact Assessment - Kouga Municipality, EC, South Africa
2009**

Visual assessment specialist

VIA Report for proposed new residential development just outside of Jeffrey's Bay. Report included photographic assessment of existing site conditions, GIS viewshed analysis and modelling of visual impact before and after proposed development, Graphic representation of the visibility of the development from key visual vantage points and assessment of visual mitigation measures.

**Client, Boplaas Residential Estate Visual Impact Assessment - Kouga Municipality, EC, South Africa
2009**

Visual assessment specialist

VIA for proposed new residential development just outside of Jeffrey's Bay. Report included photographic assessment of existing site conditions, GIS viewshed analysis and modelling of visual impact before and after proposed development, Graphic representation of the visibility of the development from key visual vantage points and assessment of visual mitigation measures.

**KUKA, KUKA Aerial Ropeway Visual Impact Assessment - Mpumalanga, South Africa
2009**

Visual assessment specialist

VIA specialist study for the proposed new 50 km aerial ropeway, that will transport coal ore between the Lion and CMI Smelters and Thorncliff Mine, via suspended buckets. The Ropeway itself is suspended from a series of pylons up to 22 m high, spaced several hundred meters apart. The VIA included a thorough photographic baseline assessment of the study area, modelling of the proposed infrastructure, a complex viewshed analysis that illustrated the impact of the ropeway over distance as well as the number of pylons that will be visible, a 3-dimensional photo montage of the proposed infrastructure within the landscape as well as impact assessment and mitigation report.

**Tubatse Chrome WTP Visual Impact Assessment - Mpumalanga, South Africa
2009**

Project manager/visual assessment specialist

VIA specialist study for the proposed new Water Treatment Plant and associated additional infrastructure for Tubatse Chrome, as part of the overall Environmental Impact Assessment (EIA) process for the project. The existing Tubatse Chrome plant is situated just south of the town of Steelpoort along the R555 Road in Mpumalanga Province, South Africa.

**Anglo, Coal bed methane - Anglo Coal Gas Projects, Limpopo, South Africa
2009**

Visual assessment specialist

VIA specialist study for the proposed new Anglo Coal Gas Projects (Anglo Coal) 4,000 ha coal bed methane gas production site 25 km northwest of Lephalale (Ellisras), and an electricity transmission line to be routed from the proposed 4,000 ha site to a substation north of Lephalale in the Limpopo Province.

The development includes the development of 37 gas well on the farm Nooitgedacht that is approximately 1,000 ha in extent. The proposed 37 spot will be run as an extension to exploration activities, in order to provide a large-scale production test.

Johan Bothma

Earth & Environment - Rehabilitation & Closure, Visual Assessment Specialist,
Registered Landscape Architect

Western Utilities Corporation Visual Impact Assessment - Gauteng, South Africa 2009

Visual assessment specialist

VIA specialist study for the proposed new collection and distribution pipelines and associated purification and pumping infrastructure, for the ambitious WUC project, that aims to address the acid mine drainage problem in the West Rand. Although the pipeline will be mostly buried, they traverse a vast area and may potentially affect several areas of some visual significance and the project will potentially influence a very large number of people during the construction phases of the project. the VIA included a thorough photographic baseline assessment of the study area, modelling of the proposed infrastructure, GIA mapping of the visual resource quality of the landscape and anticipated of visual impact during construction, as well as impact assessment and mitigation report. the VIA report was awarded with the first Golder Africa Technical Writing Award, for excellence in technical report writing.

Cape Gate waste site Visual Impact Assessment - Gauteng, South Africa 2009

Visual assessment specialist

VIA specialist study for the proposed expansion of the Cape Gate waste and by-product storage site, which will include several large storage and discard dumps, storm water management dams, vehicular parking and loading areas and ancillary infrastructure. Analysis included extensive modelling of the dumps over the lifespan of the project, projected visibility of the dumps, the development of visual mitigation strategies and modelling of the anticipated effectiveness of the proposed mitigation of the development and management strategy.

Umcebo Rondebult, Doornrug, Steelecoal and Middelkraal mines Visual Impact Assessment - Mpumalanga, South Africa 2006

Visual assessment specialist

VIA for new opencast coal mine infrastructure and mining operations. Report included photographic assessments of existing site conditions, assessment of visual impact before and after proposed mine infrastructure, and graphic representation of proposed visual mitigation measures.

Xstrata Rhovan mine VIA - Brits, South Africa 2006

Visual assessment specialist

VIA for expansion of existing slimes dam, related infrastructure and plant area. Report included photographic assessments of existing site conditions, GIS viewshed analysis and modelling of visual impact before and after proposed mine infrastructure, and graphic representation of proposed visual mitigation measures. Preliminary cost assessment and implementation plan for proposed visual mitigation measures.

Xstrata Aloys, Lydenburg Works VIA - Mpumalanga, South Africa 2006

Visual assessment specialist

VIA for expansion of existing slimes dam, related infrastructure and plant area. Report included photographic assessments of existing site conditions, GIS viewshed analysis and modelling of visual impact before and after proposed mine infrastructure, and graphic representation of proposed visual mitigation measures. Preliminary cost assessment and implementation plan for proposed visual mitigation measures.

Paardeplaats Residential Estate VIA - Gauteng, South Africa 2006

Visual assessment specialist

VIA compiled for proposed new residential development near the National Botanical Gardens in Krugersdorp. Report included photographic assessments of existing site conditions, modelling of visual impact before and



Johan Bothma

Earth & Environment - Rehabilitation & Closure, Visual Assessment Specialist,
Registered Landscape Architect

after proposed development, Graphic representation of the visibility of the development from key visual vantage points and assessment of visual mitigation measures.

Schurveberg Residential Estate, Northwest Province, South Africa 2006

Visual assessment specialist

VIA for proposed new residential development east of Pelindaba, within ecologically significant valley. Report included photographic assessments of existing site conditions, GIS viewshed analysis and modelling of visual impact before and after proposed development, Graphic representation of the visibility of the development from key visual vantage points and assessment of visual mitigation measures.

ENVIRONMENTAL ASSESMENTS

Menlyn Maine EMPs and environmental audits, Pretoria, South Africa 2011 – 2013

Project manager, EMP auditor

Compiled Environmental Management Plans for the Menlyn Maine Clinton Climate Change Initiative-endorsed Phase 1 infrastructure development as well as Falcon, Epsilon and Pegasus Buildings; and conducted construction environmental compliance audits. All projects are targeting a minimum Green Star SA four-star rating, and LEED ND certification.

Tubatse, Water treatment and pelletiser plant EMP audits, Limpopo Province, South Africa 2010 – 2013

Project manager, EMP auditor

Six-monthly environmental compliance audits in terms of approved EMP and Environmental Authorisations for construction and operation of new water treatment plant and pelletiser plant.

Rand Uranium, TSF EIA, Gauteng, South Africa 2010

EIA Lead

Long term tailings storage facility for disposal of up to 350 million tons of re-processed tailing from a number of tailing resources in the Randfontein area, including 40 km associated pipelines. Coordination of specialist assessment and public participation in terms of overall EIA process.

Transnet, New Multi-Products Pipeline (NMPP) EMP, Durban, Kwa Zulu-Natal to Jameson Park Near Heidelberg, South Africa 2008

EMP development

Compiled the Environmental Management Plan (EMP) for the design, construction, operations, and decommissioning phases of the NMPP project. This consisted of a new multi-products liquid fuel pipeline (or "Trunkline") running from Durban, Kwa Zulu-Natal to Jameson Park near Heidelberg in Gauteng, with a pump station at each terminal, and eight pump stations along the route. A coastal fuel terminal either at the Durban International Airport or and inland fuel terminal at Jameson Park near Heidelberg. The EMP ensured that recommendations of numerous specialists from a wide variety of fields were implemented. Following the compilation of a draft version of the EMP, I also facilitated a detailed workshop between the Contractor and the Client to establish that the mitigation measures proposed are feasible, following which the EMP was amended as required.

City of Tshwane, KH2 and KK1,2,3 Pipelines, Pretoria, South Africa 2008

Project manager, EMP auditor

Various environmental processes to obtain authorisation for the installation of the proposed pipeline. Amendment and update of detailed Environmental Management plan for planning, construction, and operation phases.

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Registered Landscape Architect

The Hills and Sammy Marx lifestyle estates, Water Use Licence Applications, East of Pretoria, South Africa

2008 and 2013

Project manager

Water use licence applications for two extensive mixed use lifestyle estates.

Northwest Province Department of Roads and Transport Road D419 EIA, Northwest Province, South Africa

2005

EMP development

EMP for the construction of road D419, including extensive addressing of erosion prevention and mitigation. EIA Scoping report for the proposed D419 Road between the two Lekgophung and Swartkopfontein in the Northwest Province. The distance between the two termini of the road (approximately 15 km) required extensive consideration of several alignment option and extensive public participation.

The Hills Estate EIA and WULA, Pretoria, South Africa

2004

Project manager, EIA and WULA development, EMP auditor

EIA Scoping Report, EMP and various Water Use Licence Applications for "The Hills" mixed use development in Kungwini, east of Tshwane. This project was particularly complex due to the large extent of the site, large scale of the development and many environmental factors that had to be accommodated. The project includes single stands within an ecological conservation area, medium and high density residential and commercial sectors, resort and hotel facilities, a golf course designed by Greg Norman and the Jacques Kallis cricket oval.

Landscape Design

South African Police Services, Roodeplaat dog school landscape, Gauteng, South Africa

2007 – 2014

Project manager, landscape architect

Initial planning and detail landscape design as well as construction supervision for expanded and upgraded South African Police Services dog school facilities.

DPW Mahlamba Ndlopfu, Presidential residence landscape design, Pretoria, South Africa

2006 – 2009

Project manager, landscape architect

Conceptual and detail design of landscape architectural improvements. Set up of tender documentation and full administration and management of tendering and tender adjudication process for main landscaping contractor, contractor supervision and instruction for interim improvement measures and implementation. Coordination of process with Bryntirion ISM requirements.

DPW Bryntirion Estate Detail Landscaping Design, Pretoria, South Africa

2006 – 2008

Project manager, landscape architect

Initial conceptual and detail design of the landscape associated with the proposed new inner and outer fences around the entire estate, as well as the proposed new gatehouses. Extensive coordination with the entire project team and integration of all relevant Bryntirion ISM planning principles.

Rustenburg Local Municipality, Open Space and Heritage Management Plan (ROSHMAP), Rustenburg, South Africa

2007

Spatial planning expert

Initial project execution planning and engagement of stakeholders and public as well as various departments of Rustenburg Local Municipality (RLM). Coordination of all GIS mapping and databases associated with the project. Administration and management of the Public Participation and Ward Council Engagement processes.

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Registered Landscape Architect

Co-author and compilation of the Draft, Final Draft and Final versions of the comprehensive project report outlining open space and heritage management plan, including proposed genetic project proposal and management strategies.

Bloemhof, Bloemhof Dam Landscape Planning and Conceptual Design, Free State, South Africa 2007

Landscape architect

Conceptual layout and design as for the proposed Bloemhof Dam tourism and recreation resort development, as well as master plan proposal for the development. Development includes water park, sports facilities, multi-functional halls, agricultural show grounds, caravan park, fish amenities and associated facilities, as well as residential golf estate. Integration with engineering services and design of jetty structure.

Bryntirion Estate, Union Building and Ministerial Residential FM Tender, Pretoria, South Africa 2007

Project manager, landscape architect

Drafting setup and completion of tender documentation for DPW Facilities management project, including all specification, contractual matters and Provisional Bills of Quantities for landscape architectural and horticultural services for the project, and integration with architectural, engineering, safety and main Quantity Surveyor consultants on project, as well as DPW Horticultural Services. Facilities Estate and properties included in the project are the entire union Building complex, Bryntirion Estate and over 20 prestige portfolio residences in Gauteng. Projected landscape value of the project over 3 years amount to upwards of R 350 million.

Bryntirion Estate, Heritage Conservation Management Plan, Pretoria, South Africa 2007

Project manager, landscape architect

Part of a multi-disciplinary consortium involved with the Bryntirion Heritage Integrated Services Management Plan. Duties included a landscape inventory and assessment of the individual landscape elements and gardens of Bryntirion Estate. Specifically, the trees and built landscape elements were inventoried. Furthermore, the different landscape areas, that have distinct qualities and attributes that distinguish them from each other, were also identified and prescribed according to the definitions of the National Heritage Resources Act (Act No. 25 of 1999). Area of "cultural significance" in terms of aesthetic, architectural, historical, scientific, social, spiritual, linguistic or technological value or significance were identified and inventoried. The significance of the individual landscape elements and areas, both natural and man-made, was determined using the criteria of the NHRA. This was done using a set of assessment sheets, developed specifically for the project. The overall purpose of the landscape character assessment and inventory was to guide the development of the landscape character assessment and inventory was to guide the development of the landscape Heritage Conservation Plan, Landscape Development Plan and Landscape Management Programme, which I carried out for the project. Conservation, development and management guideline in terms of planting design, hard landscaping design and spatial design were set up for the entire estate and a report was written for the integration of the new outer boundary fence with the existing landscape elements of significance. Pilot projects from a landscape point of view were also identified and described.

City of Tshwane, Environmental Guidelines, Pretoria, South Africa 2005

Environmental Guidelines

Civil municipal infrastructure projects for Tshwane Municipality. This project involved determining all environmental impact caused by municipal infrastructure during the construction, operational and maintenance phases and displaying these impacts in a matrix with all the infra-structural components. The process involved extensive participation from the various relevant departments of CTMM, including several workshops. An extended EMP was produced for all three phases of the infrastructure. A tool was developed in consultation

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Registered Landscape Architect

with a programmer, which allows the electronic capture of the information, enabling the user to carry out various kinds of searches per impact or to update the database.

Bryntirion Estate, VIP Residence and Staff Quarters Landscape, Pretoria, South Africa 2005

Landscape Design

VIP residence and staff housing on Bryntirion Estate in Pretoria: Extensive co-ordination with the architectural design team, taking into account the requirement for extensive indigenous planting design, due to the proximity of the site to the Meintjieskop Hill natural area. Integration of the landscape design with the Bryntirion Estate Heritage Conservation Management Plan Final tender documentation and Bills of Quantities. Site supervision/ inspection for construction process.

Galeshewe, Open Space and Landscape Plan (GOSLP), Kimberley, South Africa 2003

Primary Project Planner

Responsibilities included liaison with all parties involved in the project, on site survey of open space network with members of the community, research and background study work, writing of articles to promote the project, participation in workshops to involve community members in the decision-making process and conceptual design solution for the identified priority projects. Extensive GIS mapping and categorisation of open space network including suggested future development and proposed projects. Creation of an interactive electronic database of all spatial and written information of the open space inventory and spatial development programme.

PUBLICATIONS

Hattingh, R and Bothma, J. 2013. Taking the risk out of a risky business: a land use approach to closure planning, in Mine Closure 2013. Edited by M. Tibbett, A.B. Fourie and C. Dogby. Australian Centre for Geomechanics: Perth.

Bothma, J. and Theron, G. 2012. Human comfort and the South African climate design regions in terms of small-scale development design, in South African Landscape Architecture - a Reader. Pretoria: Unisa Press.

Bothma, J., Crockett, D. and Southwood, J. 2012. Siting a building for human comfort, on SABMag homepage. [Online] Available: www.sabmagazine.com/blog/2011/12/21/siting-a-building-for-human-comfort/

Bothma, J. 2011. Greening the building: Plants, planting and detailing, in Green Building Handbook South Africa - the Essential Guide Volume 3. Edited by L. Van Wyk, Cape Town. Alive2green (pp209-226)

Bothma, J. 2010. Siting a building for Human Comfort, in Green Building Handbook South Africa - The Essential Guide Volume 2. Edited by L.V. Wyk, Cape Town
Alive2green (pp57-72)

Theron, G. and Bothma, J. 2009. The Ecology of Building and Landscape Design, in Green Building Handbook South Africa Volume 1: A Guide to Ecological Design. Edited by L. van Wyk, Cape Town: Alive2green cc (pp61-75).

Bothma, J. 2004. "Landscape and Architectural Devices for Energy-Efficient South African Suburban Residential Design" Submitted in partial fulfilment of the requirements for the degree Master of Landscape Architecture. Pretoria: University of Pretoria.



Johan Bothma

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Registered Landscape Architect

AWARDS

2023. WSP Project of the Year Finalist, for the ICL Boulby Mine Closure Plan and Associated Costs

2022. Golder Africa Mentor of the Year Award

2009. Golder Award for Excellence in Technical Writing, for the Visual Impact Assessment for the Proposed Zonnebloem Opencast Coal Mine



REGISTRATION CERTIFICATE

THIS IS TO CERTIFY THAT

Johan Bothma

IS REGISTERED AS A

Professional Landscape Architect

In terms of the regulations of Section 19(2)(a) of the Landscape Architectural Profession Act, 2000 (Act No.45 of 2000)

REGISTER PARTICULARS

REGISTRATION NUMBER: 20163
ID NUMBER: 7802225132085
REGISTRATION RENEWAL DATE: 2025-08-01
CERTIFICATE SERIAL NUMBER: PRCL 2008043
CERTIFICATE DATE OF ISSUE: 2020-08-24

CONTACT DETAILS

EMAIL ADDRESS: jbo*hma@*old*r.co.*a
MOBILE: 082 *03 3*82

PROMOTE - GROW - TRANSFORM - SUSTAIN

Mr T. M. Munyai
PRESIDENT

Mrs C. E. Chinga
REGISTRAR



SACLAP has confirmed the above information, for digital certification and sharing
by PrivySeal Limited, at 10:08 AM (Africa/Johannesburg) on 11 May 2022



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PRIVYSEAL®

APPENDIX 12:

DECLARATION OF SPECIALISTS

Declaration of environmental specialists

Specialist Company Name:	SoilZA		
Specialist name:	Johann Lanz		
Specialist Qualifications:	M.Sc. (Environmental Geochemistry) B.Sc. Agriculture (Soil Science, Chemistry)		
Professional affiliation/registration ⁵⁸ :	SACNASP IAIASA		
Physical address:	2 Roeland Terrace, CAPE TOWN, 8001		
Postal address:	Postnet, Suite #500, Private Bag X16, CONSTANTIA		
Postal code:	7848	Cell:	+27 (0) 82 927 9018
Telephone:	N/A	Fax:	N/A
E-mail:	johann@soilza.co.za		

DECLARATION BY THE SPECIALIST

I, Johann Lanz, declare that –

- I act as the independent specialist in this Standard registration process;
- I have performed the work relating to the specialist assessment to identify the pre-negotiated corridor location confirmation in an objective manner;
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist input and confirming statement relevant to this request for registration, including knowledge of the National Environmental Management Act, 1998 (Act No. 107 of 1998) (the Act), Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the proponent all material information in my possession that reasonably has or may have the potential of influencing compliance with the Standards registration process; and
- all the particulars furnished by me in this form are true and correct.

Signature of the Specialist:



Name of Company: SoilZA

Date: 3 June 2025

⁵⁸ A copy of the most recent registration certificate must be appended as appendix 13.

Johann Lanz

Curriculum Vitae

Education

M.Sc. (Environmental Geochemistry)	University of Cape Town	1996 - 1997
B.Sc. Agriculture (Soil Science, Chemistry)	University of Stellenbosch	1992 - 1995
BA (English, Environmental & Geographical Science)	University of Cape Town	1989 - 1991
Matric Exemption	Wynberg Boy's High School	1983

Professional work experience

I have been registered as a Professional Natural Scientist (Pr.Sci.Nat.) in the field of soil science since 2012 (registration number 400268/12) and am a member of the Soil Science Society of South Africa.

Soil & Agricultural Consulting Self employed 2002 - present

Within the past 5 years of running my soil and agricultural consulting business, I have completed more than 170 agricultural assessments (EIAs, SEAs, EMPRs) in all 9 provinces for renewable energy, mining, electrical grid infrastructure, urban, and agricultural developments. I was the appointed agricultural specialist for the nation-wide SEAs for wind and solar PV developments, electrical grid infrastructure, and gas pipelines. My regular clients include: Zutari; CSIR; SiVEST; SLR; WSP; Arcus; SRK; Environamics; Royal Haskoning DHV; ABO; Enertrag; WKN-Windcurrent; JG Afrika; Mainstream; Redcap; G7; Mulilo; and Tiptrans. Recent agricultural clients for soil resource evaluations and mapping include Cederberg Wines; Western Cape Department of Agriculture; Vogelfontein Citrus; De Grendel Estate; Zewenwacht Wine Estate; and Goedgedacht Olives.

In 2018 I completed a ground-breaking case study that measured the agricultural impact of existing wind farms in the Eastern Cape.

Soil Science Consultant Agricultural Consultants International (Tinie du Preez) 1998 - 2001

Responsible for providing all aspects of a soil science technical consulting service directly to clients in the wine, fruit and environmental industries all over South Africa, and in Chile, South America.

Contracting Soil Scientist De Beers Namaqualand Mines July 1997 - Jan 1998

Completed a contract to advise soil rehabilitation and re-vegetation of mined areas.

Publications

- Lanz, J. 2012. Soil health: sustaining Stellenbosch's roots. In: M Swilling, B Sebitosi & R Loots (eds). *Sustainable Stellenbosch: opening dialogues*. Stellenbosch: SunMedia.
- Lanz, J. 2010. Soil health indicators: physical and chemical. *South African Fruit Journal*, April / May 2010 issue.
- Lanz, J. 2009. Soil health constraints. *South African Fruit Journal*, August / September 2009 issue.
- Lanz, J. 2009. Soil carbon research. *AgriProbe*, Department of Agriculture.
- Lanz, J. 2005. Special Report: Soils and wine quality. *Wineland Magazine*.



herewith certifies that

Johan Lanz

Registration Number: 400268/12

is a registered scientist

in terms of section 20(3) of the Natural Scientific Professions Act, 2003
(Act 27 of 2003)

in the following field(s) of practice (Schedule 1 of the Act)

Soil Science (Professional Natural Scientist)

Effective **15 August 2012**

Expires **31 March 2026**



A handwritten signature in black ink, appearing to read 'S. Neph'.

Chairperson

A handwritten signature in black ink, appearing to read 'N. Maseko'.

Chief Executive Officer



To verify this certificate scan this code

APPENDIX 12: DECLARATION OF SPECIALISTS

Declaration of environmental specialists

Specialist Company Name:	WSP Group Africa (Pty) Ltd.		
Specialist name:	Tebogo Khoza		
Specialist Qualifications:	M.Sc. Biodiversity and Conservation		
Professional affiliation/registration ⁵⁸ :	SACNSP - Professional Natural Scientist (Reg. 119651) SASS5 - South African Scoring System version 5 practitioner, DWS (Expires in 2028) SASaQS - Southern African Society of Aquatic Scientists (SASaQS0450)		
Physical address:	129 Holkam Rd, Paulshof, Sandton, 2191		
Postal address:	Same as above		
Postal code:	2191	Cell:	0782301762
Telephone:	0113006131	Fax:	
E-mail:	tebogo.khoza@wsp.com		

DECLARATION BY THE SPECIALIST

I, Tebogo Khoza, declare that –

- I act as the independent specialist in this Standard registration process;
- I have performed the work relating to the specialist assessment to identify the pre-negotiated corridor location confirmation in an objective manner;
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist input and confirming statement relevant to this request for registration, including knowledge of the National Environmental Management Act, 1998 (Act No. 107 of 1998) (the Act), Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the proponent all material information in my possession that reasonably has or may have the potential of influencing compliance with the Standards registration process; and
- all the particulars furnished by me in this form are true and correct.

Signature of the Specialist:



Khoza, Tebogo
(ZATK05201)
04-Jun-25

Name of Company:

WSP Group Africa (Pty) Ltd.

Date:

4 June 2025

⁵⁸ A copy of the most recent registration certificate must be appended as appendix 13.

CAREER SUMMARY

Tebogo is currently the lead aquatic scientist at WSP Group Africa. He is a SASS5-accredited and holds an M.Sc. in Biodiversity and Conservation. He has over 7 years' worth of experience in the environmental management field. He has spent 6 years within the consulting industry with focus on various aquatic-related studies thereby establishing himself as an aquatic scientist. Tebogo has been involved in numerous Aquatic Ecology projects across various sectors including mining (e.g., coal, gold, platinum, diamond, titanium etc.), industrial (e.g, smelters, special economic zones, etc.), transport infrastructure upgrades (e.g, roads, airports, rapid transport systems, etc.), public utility services infrastructure (e.g., powerline installations, bulk water pipelines, etc.), as well as mixed-use, residential and commercial developments.



He has undertaken aquatic ecology surveys across Gauteng, Mpumalanga, Free-State, KwaZulu Natal, North-West and Limpopo provinces of South Africa and other African countries including Swaziland, Lesotho, Zimbabwe, Tanzania, Mali as well as along the Zambezi and Chobe rivers in Botswana, Zambia and Namibia. He has acted as lead Aquatic Ecologist for numerous projects, responsible for completion of the aquatic biodiversity and impact assessment surveys, report compilation and amendment to the report queries.

He has been involved at various levels of Specialist Input required for the nationally legislated environmental processes throughout South Africa, especially in the form of Environmental Impact Assessments (EIA's) or Environmental and Social Impact Assessments (ESIA's), Mining Right Applications (MRA's), Water Use License Applications (WULA's), as well as in fulfilment of Biodiversity Management Plans (BMP's).

Area of expertise

Aquatic Biomonitoring (Invertebrate and fish surveys)
Data analysis (Ecoclassification Models)
GIS and Mapping (QGIS)
Microsoft Office

Language

English – Fluent
isiZulu – Fluent
Sesotho – Fluent
Setswana – Fluent
Xitsonga – Intermediate
Sepedi – Intermediate

EDUCATION

Master of Science (MSc.) Biodiversity & Conservation, University of Johannesburg, South Africa	2018
Bachelor of Science (Hons) Zoology, University of Johannesburg, South Africa	2015
Bachelor of Science (BSc) Biochemistry & Zoology, University of Johannesburg, South Africa	2014

ADDITIONAL TRAINING

Basic First Aid	2021
Defensive Driving Course	2020
Environmental Impact Assessment for Reviewers	2018
Advanced Driving Skills (Specialising in off-road 4x4 conditions)	2015

PROFESSIONAL MEMBERSHIPS

SACNSP

- *Professional Natural Scientist* – Aquatic Science (Reg. 119651)
- *Candidate Natural Scientist* – Environmental Science (Reg. 119651)

SASS5 - South African Scoring System version 5 practitioner, DWA (Expires in 2028)

PROFESSIONAL HISTORY

WSP Group Africa (Pty) Ltd	June 2022 – present
Digby Wells Environmental, Johannesburg, Aquatic Ecologist	November 2019 – May 2022
GCS Water & Environmental (Pty) Ltd. Junior Aquatic Ecologist	March 2019 – November 2019
The Biodiversity Company (Pty) Ltd. Junior Natural Scientist	September 2018 – March 2019
Gauteng Department of Agriculture & Rural Development	March 2018 – August 2018

RELEVANT PROFESSIONAL EXPERIENCE

(Below is a list of some of the relevant projects involved in. A complete list can be provided upon request)

ESIA

Transnet National Ports Authority, ESIA, Richardsbay, South Africa

2025

Aquatic Biodiversity Assessment Lead

Environmental and Social Impact Assessment (ESIA) for the proposed port container terminal at the Port of Durban. Responsible for reviewing the aquatic biodiversity and impact assessment report.

Mingomba Mining, ESIA, Chililabombwe, Zambia

2025

Aquatic Biodiversity Assessment Lead

Environmental and Social Impact Assessment (ESIA) for the proposed copper mine. Responsible for the aquatic biodiversity and impact assessment including field surveys and report compilation.

Karo Platinum, ESIA, Chegutu, Zimbabwe

2022

Aquatic Biodiversity Assessment Lead

Environmental and Social Impact Assessment (ESIA) for the proposed powerline. Responsible for the aquatic biodiversity and impact assessment including field surveys, report compilation and client liaison.

Barrick Gold, ESIA, Nyamongo, Tanzania

2022

Field Surveyor & Data Collation

Environmental and Social Impact Assessment for the proposed Gena-Gokona. Expansion Project.

Aquatic Biomonitoring

KBP-JV, Kasane, Botswana

2021 – 2022

Field Surveyor & Data Collation

Environmental Monitoring for the Kazungula Bridge Project. Responsible for undertaking quarterly aquatic biomonitoring surveys and data collation.

Barrick Gold, Loulo, Mali

2021

Field Surveyor & Data Collation

Aquatic Biomonitoring at the Loulo & Gounkoto Gold Mining Complex. Responsible for assisting with field surveys and data collation.

Tebogo Khoza Curriculum Vitae
Aquatic Scientist
SASS5
Pr.Sci.Nat (Aquatic Science – 119651

Rio Tinto, Richards Bay Minerals: Aquatic Biomonitoring, KZN, South Africa
2022 - Present

Aquatic Biodiversity Assessment Lead

Aquatic Biomonitoring at the SP&L site. Responsible for undertaking quarterly aquatic biomonitoring surveys, data collation and report writeup.

Exxaro Resources, Malta Colliery Mpumalanga, South Africa
2019 - 2022

Aquatic Biodiversity Assessment Lead

Aquatic Biomonitoring at the Matla Colliery. Responsible for undertaking quarterly aquatic biomonitoring surveys, data collation and report writeup.

Mafube Coal, Mafube Colliery, Mpumalanga, South Africa
2020 – 2022

Aquatic Biodiversity Assessment Lead

Aquatic Biomonitoring at the Mafube Colliery. Responsible for undertaking biannual aquatic biomonitoring surveys, data collation and report writeup.

Sasol, Defunct Sigma Colliery, Free State, South Africa
2020 – 2022

Aquatic Biodiversity Assessment Lead

Aquatic Biomonitoring for the proposed Ash Backfilling Project at Defunct Sigma Colliery. Responsible for undertaking biannual aquatic biomonitoring surveys, data collation and report writeup.

Sasol, Mooikraal Colliery, Free State, South Africa
2020 – 2022

Aquatic Biodiversity Assessment Lead

Aquatic Biomonitoring for the Mooikraal Colliery. Responsible for undertaking biannual aquatic biomonitoring surveys, data collation and report writeup.

Ivanplats, Ivanplats complex, Limpopo, South Africa
2021

Aquatic Biodiversity Assessment Lead

Aquatic Biomonitoring for the Ivanplats complex. Responsible for undertaking biannual aquatic biomonitoring surveys, data collation and report writeup.

Harmony Gold, Kusasaletu Operations, Gauteng, South Africa
2021 – 2022

Aquatic Biodiversity Assessment Lead

Aquatic Biomonitoring for the Kusasaletu Operations. Responsible for undertaking biannual aquatic biomonitoring surveys, data collation and report writeup.

Aquatic Biodiversity & Impact Assessment

Tronox KZN Sands, Kwazulu-Natal, South Africa
2023-2024

Aquatic Biodiversity Assessment Lead

Aquatic Biodiversity Baseline and Impact Assessment as part of an Integrated Environmental Authorisation for the Port Dunford Mine. Responsible for the aquatic biodiversity and impact assessment including field surveys and report compilation.

Universal Coal, new Clydesdale Colliery Mining Right, Limpopo, South Africa 2021

Aquatic Biodiversity Assessment Lead

Aquatic Biodiversity and Impact Assessment Update for the Proposed Environmental Regulatory Process for the New Clydesdale Colliery Mining Right Area. Responsible for the aquatic biodiversity and impact assessment including field surveys and report compilation.

**Pan African Resources, Pan African Resources, Gauteng, South Africa
2021**

Aquatic Biodiversity Assessment Lead

Aquatic Biodiversity & Impact Assessment for the Pan African Resources PLC Environmental Application Process. Responsible for the aquatic biodiversity and impact assessment including field surveys and report compilation.

**Far West Gold Recoveries, Far West Gold Recoveries, Gauteng, South Africa
2021**

Aquatic Biodiversity Assessment Lead

Aquatic Ecology and Impact Assessment for the Far West Gold Recoveries Kloof Application. Responsible for the aquatic biodiversity and impact assessment including field surveys and report compilation

**Copper Sunset Sand, Mine Expansion, Gauteng, South Africa
2021**

Aquatic Biodiversity Assessment Lead

Aquatic Ecology and Impact Assessment for the Proposed Sand Mine Expansion. Responsible for the aquatic biodiversity and impact assessment including field surveys and report compilation.

**Universal Coal, Dalyshepe Coal Mine, Limpopo, South Africa
2020**

Aquatic Biodiversity Assessment Lead

Aquatic Ecology and Impact Assessment for the Proposed Dalyshepe Coal Mining Project. Responsible for the aquatic biodiversity and impact assessment including field surveys and report compilation.

**Fetakgomo-Tubatse Municipality, Fetakgomo – Tubatse, Limpopo, South Africa
2020**

Aquatic Biodiversity Assessment Lead

Aquatic Ecology and Impact Assessment for the Proposed Fetakgomo-Tubatse Special Economic Zone (FTSEZ). Responsible for the aquatic biodiversity and impact assessment including field surveys and report compilation.



herewith certifies that
Tebogo Magudu Khoza
Registration Number: 119651
is a registered scientist

in terms of section 20(3) of the Natural Scientific Professions Act, 2003
(Act 27 of 2003)
in the following field(s) of practice (Schedule 1 of the Act)

Environmental Science (Candidate Natural Scientist)
Aquatic Science (Professional Natural Scientist)

Effective **1 August 2018**

Expires **31 March 2026**



Chairperson

Chief Executive Officer





Water and Sanitation



Water Research
Commission

GP2025/05/07

CERTIFICATE OF ACCREDITATION

This is to certify that

Tebogo Khoza

has met the requirements of the
River Health Programme as a SASS5 Practitioner



COMPETENCY IN THE FOLLOWING AREAS HAVE BEEN DEMONSTRATED:

UNDERSTANDING OF THE SCOPE AND APPLICATION OF THE SASS5 METHOD.

DEMONSTRATION OF THE CORRECT SAMPLING PROTOCOLS

DEMONSTRATION OF THE CORRECT SAMPLE PREPARATION PROTOCOLS

IDENTIFICATION OF AQUATIC MACROINVERTEBRATES

COMPETENCY IS VALID FOR 3 YEARS FROM CERTIFICATE DATE

NATIONAL SASS5 AUDITOR

23 May 2025

DATE



2025 Certificate of Membership

This is to certify that

Tebogo Khoza

is a member of the Southern African Society of Aquatic Scientists

Membership No: SASAQS0450

Expiration Date: 31/12/2025



SASAqS President

APPENDIX 12:

DECLARATION OF SPECIALISTS

Declaration of environmental specialists

Specialist Company Name:	Beyond Heritage		
Specialist name:	Lara Kraljević		
Specialist Qualifications:	MA Archaeology		
Professional affiliation/registration ⁵⁸ :	ASAPA #661		
Physical address:	98 Analees Street, La Montagne, Pretoria		
Postal address:			
Postal code:	0103	Cell:	0729916829
Telephone:		Fax:	
E-mail:	laralkral@gmail.com		

DECLARATION BY THE SPECIALIST

I, _____ Lara Lucija Kraljević _____, declare that –

- I act as the independent specialist in this Standard registration process;
- I have performed the work relating to the specialist assessment to identify the pre-negotiated corridor location confirmation in an objective manner;
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist input and confirming statement relevant to this request for registration, including knowledge of the National Environmental Management Act, 1998 (Act No. 107 of 1998) (the Act), Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the proponent all material information in my possession that reasonably has or may have the potential of influencing compliance with the Standards registration process; and
- all the particulars furnished by me in this form are true and correct.

Signature of the Specialist:



Name of Company:
Beyond Heritage

Date:
03/06/2025

⁵⁸ A copy of the most recent registration certificate must be appended as appendix 13.

Lara Lucija Kraljević

98 Analees Street, La Montagne, Gauteng 0103 • +27729916829 • laralkral@gmail.com

SUMMARY

Enthusiastic archaeologist with expertise in various analytical techniques related to ceramic studies. A strong researcher with ability to synthesize information into comprehensive academic writing. This serves as an abbreviated CV. A comprehensive version entailing all projects worked on can be made available by request.

EXPERIENCE

Archaeologist, 06/2022 - Current

Beyond Heritage

- Research and report writing of Heritage Impact Assessments

Archaeology Lab Assistant, 01/2014 - 12/2016

University of Pretoria

- Processing of archaeological material after various excavations

EXAMPLES OF HERITAGE IMPACT ASSESSMENT WRITTEN

Solar PV Projects:

- Heritage Impact Assessment for the Proposed Woodland Hills Solar Farm.
- Heritage Impact Assessment for the Proposed Aberdeen Solar Facility 1 and Associated Infrastructure, Eastern Cape Province.
- Heritage Impact Assessment for the Proposed Renewable Energy Generation Project Located within the Emalahleni Local Municipality, Mpumalanga Province: Highveld Industrial PV Park by Knabtiw (Pty) Ltd.

Township Development Projects:

- Heritage Impact Assessment for the proposed Township establishment on the Remainder of ERF 152 Lake Chrissie, Mpumalanga Province.
- Heritage Impact Assessment for the Proposed Construction of a Group Housing Development on Erf 1824, Equestria Extension 252, City of Tshwane Metropolitan Municipality, Gauteng Province.
- Heritage Impact Assessment for the Proposed Residential Development, Halcyon Estate, Broederstroom, North West Province.

Wind Energy Facility Projects:

- Heritage Impact Assessment for the Proposed Kaladokhwe Wind Energy Facility 1, Eastern Cape Province.
- Heritage Impact Assessment for the Proposed Kaladokhwe Wind Energy Facility 2, Eastern Cape Province.
- Heritage Impact Assessment For The Proposed De Rust North Wind Energy Facility (WEF), Pofadder, Northern Cape Province.

SKILLS

- Research and report writing
- Archaeological excavation - Iron Age
- X ray Fluorescence analysis
- Petrographic analysis
- Multivariate statistical analysis

EDUCATION

Master of Arts : Archaeology, 2022
University of Pretoria

BA Honours : Archaeology , 2017
University of Pretoria
Graduated Cum Laude

Bachelor of Arts : Archaeology and French, 2016
University of Pretoria

Matric, 2010
Hoërskool Overkruin

CONFERENCES

ASAPA 2016 - Presented Research titled "Fabrics of Social Boundaries: An X-Ray Fluorescence Analysis of Sites MNR 74 and MNR 78"

AWARDS

- Member of the Golden Key International Honour Society since 2015
- Doctor Hanisch Book Prize for Excellence in Postgraduate Studies in Archaeology - awarded in 2017

LANGUAGES

English, Afrikaans: First Language

Afrikaans: C2
Proficient

Croatian: B2
Upper Intermediate

French: B1
Intermediate



THE ASSOCIATION OF SOUTHERN AFRICAN PROFESSIONAL ARCHAEOLOGISTS

CERTIFICATE OF MEMBERSHIP

HEREBY CONFIRMS THAT

LARA LUCIJA KRALJEVIĆ

Is a Professional Member (No 0661) of
the Association of Southern African Professional
Archaeologists and is in good standing
with the organisation

Valid April 2025
March 2026



ALBINO JOPELA
CHAIRPERSON

SHAHZAADEE KHAN
TREASURER

APPENDIX 12:

DECLARATION OF SPECIALISTS

Declaration of environmental specialists

Specialist Company Name:	Hawkhead Consulting		
Specialist name:	Andrew Zinn		
Specialist Qualifications:	MSc. Resource Conservation Biology		
Professional affiliation/registration ⁵⁸ :	Pr.SciNat. Ecological Science 400687/15		
Physical address:	43 Waterbuck Crescent, River Club Estate		
Postal address:	NA		
Postal code:	2195	Cell:	0833610373
Telephone:		Fax:	
E-mail:			andrew@hawkhead.co.za

DECLARATION BY THE SPECIALIST

I, Andrew Zinn, declare that –

- I act as the independent specialist in this Standard registration process;
- I have performed the work relating to the specialist assessment to identify the pre-negotiated corridor location confirmation in an objective manner;
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist input and confirming statement relevant to this request for registration, including knowledge of the National Environmental Management Act, 1998 (Act No. 107 of 1998) (the Act), Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the proponent all material information in my possession that reasonably has or may have the potential of influencing compliance with the Standards registration process; and
- all the particulars furnished by me in this form are true and correct.

Signature of the Specialist:



Name of Company: Hawkhead Consulting

Date: 4 June 2025

⁵⁸ A copy of the most recent registration certificate must be appended as appendix 13.