

## APPENDIX

*Patricia Nathaniel*



## Patricia Nathaniel

Principal Consultant, Earth & Environment

### CAREER SUMMARY

Patricia is a dedicated, focused and experienced individual with a post-graduate degree in Environmental Management and twelve years of work experience in the environmental field. Patricia is a Principal Consultant for WSP's Earth & Environment Team.

Patricia has an Honours degree in Environmental Management and is a registered Environmental Assessment Practitioner with EAPASA. She is also SACNASP registered.

Patricia was a Technical Manager at KSEMS Environmental Consulting before taking up a position at GIBB Environmental. Patricia has broad experience with a range of aspects within the environmental management space, including environmental reporting, reviewing, compiling tender documents, submission of tenders, business development, marketing, client liaison, training of the junior staff and overall project management of all active projects.

Patricia's most recent position prior to joining WSP as a Principal Consultant, was Senior Environmental Consultant at GIBB Environmental. She was the Environmental Scientist on the MCWAP-2A Project which is one of the largest projects of its kind in Africa involving the abstraction of water from the Crocodile (River) West and the transfer of this water to the end users i.e., predominantly the power stations in the Limpopo Province. She was also the Lead Consultant on the KZN Automotive Supply Park Project, DTPC is the Applicant. This is also a pioneer project as it would be the first of its kind in KZN. She is the EAP on the Lower Mkomazi Bulk Water Scheme Project, renewable energy projects and hospital conditional assessments as well as Environmental Project Manager for the Transnet Port of Durban Masterplan Project.

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*<1 years with WSP*

*12 years of experience*

#### *Area of expertise*

Environmental auditing and reporting  
Environmental Impact Assessments  
Basic Assessment Reports  
Water Use License Applications  
Due Diligence Reports  
Project Management

#### *Language*

English

### EDUCATION

Bachelor of Science (Honours), Environmental Management, University of KwaZulu-Natal,

South Africa

2013

Bachelor of Science, Geography, University of KwaZulu-Natal, South Africa

2009

### ADDITIONAL TRAINING

WULA Training Course: KSEMS

2016

Public Participation in EIA Course: IAIAAsa

2015



## Patricia Nathaniel

Principal Consultant, Earth & Environment

2014 EIA Regulations in Context: Shepstone and Wiley

2015

### PROFESSIONAL MEMBERSHIPS

Registered Environmental Assessment Practitioner: Number 2020/1120

EAPASA

SACNASP Registered Scientist: 123478

SACNASP

### PROFESSIONAL HISTORY

Gibb Environmental, Consultant, Environmental

April 2020 - February 2023

KSEMS Environmental Consultant, Principal Consultant, Technical Manager  
Senior Environmental Consultant, Environmental Consultant

February 2014 – March 2020

ERM Southern Africa, Consultant/subconsultant, Researcher/Environmental

December 2020 – August 2013

Tiger Brands, Quality Analyst

September – December 2010

BSN Medical, Microbiologist Intern

January – December 2009

### PROFESSIONAL EXPERIENCE

#### Environmental Reporting and Project Management

##### Umgeni Water, uMkhomazi Bulk Water Scheme, South Africa

2022 – 2023

EAP

Compilation of the BAR for the project.

##### Eskom, Ferrum Upington 400kV Solar Powerline, South Africa

2022 – 2023

EAP

Brief project description

##### Client, Project title, Country

Year from/to

Role

Compilation of the BAR for the project.

##### DTPC, KZN Automotive Supply Park, South Africa

2022 - 2023

EAP

BAR and WULA. Compilation of the BAR and WULA for the project.

##### Transnet Durban, Transnet Durban Logistics Hub Expansion, South Africa

2022 - 2023

EAP / Project Manager

Fatal Flaw Analysis on various components of the POD expansion. Project manager, environmental assessments.

##### TCTA, MCWAP2 Bulk Water Scheme and Borrow Pits, Limpopo

2020 - 2023

EAP.

BAR and WULA. Compilation of the BAR for the Borrow Pits and WULA for the entire project.



## **Patricia Nathaniel**

Principal Consultant, Earth & Environment

**THD and Dube TradePort (eThekweni Metropolitan Municipality), N3 Material Sources (Quarries and Borrow Pits), South Africa  
2019 -2020**

**Technical Manager/Project Manager**  
Compilation of the BAR and WULA.

**HHO Consulting Engineers (Free State), R34 Upgrade and Borrow Pits, South Africa  
2019 - 2020**

**Technical Manager/Project Manager**  
Compilation of the BAR and WULA.

**Manaba Investments, Ugu District Municipality, Uvongo Car Park, South Africa  
2019 - 2020**

**Technical Manager/Project Manager**  
Compilation of the BAR and WULA.

**DDRA/Grindrod, Mkambathini Municipality, Grindrod Autoport, South Africa  
2019 - 2020**

**Technical Manager/Project Manager**  
EA Amendment and ECO Audit Reports. Compilation of the EA Amendment and Review of the ECO Audit Reports.

**WSP, Umgungundlovu District Municipality, N3 Upgrade from Murray Road to New England Interchange, South Africa  
2019 - 2020**

**Technical Manager/Project Manager**  
Review of the BAR and WULA.

**Aurecon Eastern Cape, New and Upgrade of Access Roads along the N2 including Borrow Pits, Eastern Cape, South Africa  
2018 - 2020**

**Technical Manager/Project Manager**  
Compilation of the BAR and WULA.

**Umgeni Water, Umgungundlovu District Municipality, Vulindlela Pipeline Bulk Water Supply Scheme Phase 1 and 2, South Africa  
2017 - 2020**

**Technical Manager/Project Manager**  
Compilation of the BAR and WULA.

**KSIA, eThekweni Metropolitan Municipality, King Shaka Amendment to the EA, South Africa  
2017 - 2019**

**Technical Manager/Project Manager**  
Review of the EA Amendment.

**THD and Dube TradePort, eThekweni Metropolitan Municipality, Ushukela Mixed Used Development, South Africa  
2017 - 2019**

**Technical Manager/Project Manager**  
Compilation of the BAR and WULA.

**Keystone Investments, eThekweni Metropolitan Municipality, Umbogintwini Petrol Filling Station, South Africa  
2017 - 2018**

**Technical Manager/Project Manager**  
Compilation of the BAR and WULA.



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Principal Consultant, Earth & Environment

**RHDHV, Mangaung Metropolitan Municipality, SANRAL N8 Rehabilitation and Borrow Pits, South Africa**

**2017 - 2018**

**Technical Manager/Project Manager**

Compilation of the BAR and WULA.

**RHDHV, Port Edward, SANRAL Port Edward Borrow Pit, South Africa**

**2017 - 2018**

**Technical Manager/Project Manager**

Review of BAR and WULA.

**RHDHV, Port Edward, SANRAL R61 Borrow Pit, South Africa**

**2017 - 2018**

**Technical Manager/Project Manager**

Review of BAR and WULA.

**Renishaw, Scottburgh, Renishaw Property Development, South Africa**

**2017 - 2018**

**Technical Manager/Project Manager**

Project Direction and Review of the WULA.

**Nyeleti Consulting, Ubumbulu, Mbumbulu MR30 Town Upgrade, South Africa**

**2017 - 2018**

**Technical Manager/Project Manager**

Compilation of the EIA Enquiry.

**Umgeni Water, Umgungundlovu District Municipality, Umbumbulu Pump Station, South Africa**

**2017 - 2018**

**Technical Manager/Project Manager**

Project Direction and Review of the BAR and WULA.

**Transnet, uMhlatuze Municipality, Diesel Locomotive Facility in the Port of Richards Bay, South Africa**

**2017 - 2018**

**Technical Manager/Project Manager**

Project Direction and Review of the EA amendment and WULA.

**Cubical Investments, Ugu District Municipality, Scottsburgh Mall Fuel Station, South Africa**

**2017 - 2018**

**Technical Manager/Project Manager**

Compilation of the BAR, WULA and Appeal.

**TPA Consulting, iLembe District Municipality, Mona Bridge, South Africa**

**2017**

**Technical Manager/Project Manager**

Review of BAR and WULA.

**TPA Consulting, iLembe District Municipality, Mahadeni Bridge, South Africa**

**2017**

**Technical Manager/Project Manager**

Review of BAR and WULA.

**NME Consulting, eThekweni Municipality, N2 Upgrade (Lovu River to Umlaas Canal), South Africa**

**2017**

**Technical Manager/Project Manager**

Compilation of the BAR and WULA.

**Ibhongo Consulting, D1252 Triple Celled Culvert and Borrow Pit, South Africa**

**2016 - 2019**



## **Patricia Nathaniel**

Principal Consultant, Earth & Environment

**Technical Manager/Project Manager**

Project Guidance and Technical Review of BAR and WULA.

**Ecovate, eThekweni Metropolitan Municipality, South Africa  
2016**

**Technical Manager/Project Manager**

Project Guidance and Technical Review of BAR and WULA.

**TPA Consulting, Ugu District Municipality, Harding Informal Traders Market, South Africa  
2016**

**Technical Manager/Project Manager**

Project Guidance and Technical Review of ECO Audit Reports and WULA.

**Arcus Gibb, Eden District Municipality, Gwaing Bridge, South Africa  
2016**

**Technical Manager/Project Manager**

Project Guidance and Technical Review of BAR and WULA.

**FFS Visserhok Plant, Western Cape Scoping and EIR, South Africa  
2016**

**Technical Manager/Project Manager**

Project Guidance and Technical Review of EA amendment.

**Tongaat Hulett Development, eThekweni Metropolitan Municipality, Shongweni Mixed Use  
Development Phase 2 & 3, South Africa  
2016 - 2019**

**Technical Manager/Project Manager**

Project Guidance and Technical Review of the Scoping and EIR.

**Henwood and Nxumalo, Umgungundlovu District Municipality, Water Use License Application for  
Sinkwazi and Sikhumbuzo Roads, South Africa  
2016 - 2017**

**Technical Manager/Project Manager**

Project Guidance and Technical Review of the WULA.

**Henwood and Nxumalo, Umgungundlovu District Municipality, Upgrading of Harewood Phase 1-6  
Roads within Edenvale, South Africa  
2016 - 2020**

**Technical Manager/Project Manager**

Project Guidance and Technical Review of the BAR and WULA.

**Naidu Consulting, Umgungundlovu District Municipality WULA, The Upgrade of New Barker's Bridge,  
South Africa  
2016 - 2017**

**Technical Manager/Project Manager**

Project Guidance and Technical Review of the BAR WULA.

**Naidu Consulting, Umgungundlovu District Municipality BAR and WULA, The Upgrade of the Meshlyn  
Bridge, South Africa  
2016 - 2017**

**Technical Manager/Project Manager**

Project Guidance and Technical Review of the BAR and WULA.

**uBuhlebezwe Municipality, Ogle Farm Mixed Use Development, South Africa  
2016 - 2019**

**Technical Manager/Project Manager**

Project Guidance and Technical Review of the BAR and WULA.



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Principal Consultant, Earth & Environment

**Samani Consulting, Ugu District Municipality, Basic Assessment Report and WULA, Upgrade of Provincial Road D985, South Africa  
2016 - 2017**

**Environmental Consultant/Project Manager**

Project Guidance and Technical Review of BAR and WULA.

**Samani Consulting, Ugu District Municipality, Basic Assessment Report and WULA, Upgrade of Provincial Road P740, South Africa  
2016 – 2017**

**Environmental Consultant/Project Manager**

Project Guidance and Technical Review of BAR and WULA.

**TPA Consulting, Ugu District Municipality, Madakana and Kwaluhlaza Pedestrian Bridge, South Africa  
2016**

**Technical Manager/Project Manager**

Project Guidance and Technical Review of BAR and compilation of the WULA.

**Nyeleti Consulting, Mangaung Metropolitan Municipality, Bloemfontein Ring Road N8, South Africa  
2015 - 2020**

**Environmental Consultant/Project Manager**

Compilation of the Scoping and EIR and WULA.

**SANRAL, Mangaung Municipality, Upgrading of the Sanral N6 National Route from Rouxville to Smithfield including Borrow Pits, South Africa  
2015 - 2020**

**Environmental Consultant/Project Manager**

Basic Assessment Report and WULA. BARs for Borrow Pits, WULA, Technical Review of the ECO Audit Reports.

**David Rowles Development, eThekweni Metropolitan Municipality Basic, Chicken Farm Residential Development, South Africa  
2015 - 2019**

**Environmental Consultant/Project Manager**

Assessment Report, WULA, EIA Enquiries. Compilation of BAR, WULA and EIA Enquiries and Technical Review of Reports once project was handed over to another consultant.

**True Blue Group, eThekweni Metropolitan Municipality, KFC Tongaat, South Africa  
2015 - 2019**

**Environmental Consultant, Reviewer/Project Manager**

Basic Assessment Report, EIA Enquiry and WULA. Compilation of the EIA Enquiry and Reviewer of the WULA

**Samani Consulting, Ugu District Municipality, P73 Borrow Pit, South Africa  
2015 - 2016**

**Technical Manager/Project Manager**

Basic Assessment Report and WULA. Project Guidance and Technical Review of BAR and WULA.

**Transnet, uMhlatuze Municipality, Transnet Locomotive Turntable, South Africa  
2015 -2016**

**Environmental Consultant/Project Manager**

Basic Assessment Report and WULA.

**Samani Consulting, Ugu District Municipality, N2 Borrow Pit, South Africa  
2015 - 2016**

**Environmental Consultant/Project Manager**

Basic Assessment Report and WULA. Compilation of EMPr and WULA/Project Manager.



## **Patricia Nathaniel**

Principal Consultant, Earth & Environment

**Samani Consulting, eThekweni Metropolitan Municipality, P400 WULA, South Africa  
2015 - 2016**

**Environmental Consultant/Project Manager**

WULA and ECO Audit Reports. Compilation of WULA and ECO Audit Reports.

**Aecom, Umgungundlovu District Municipality, DUT Pietermartizburg Upgrade – ECO, South Africa  
2015 - 2016**

**Environmental Consultant/Project Manager**

EMPr and ECO Reports. Compilation of the EMPr and ECO Reports.

**Springville Investments, eThekweni Metropolitan Municipality, 117 Wiltshire Road Upgrade, South Africa  
2015 - 2016**

**Environmental Consultant/Project Manager**

Compilation of WULA.

**Enprocon, Gert Sibande District Municipality, Goedehoop Stene Brickmaking Facility, South Africa  
2015 - 2016**

**Environmental Consultant/Project Manager**

Compilation of the WULA.

**Samani Consulting, Ugu District Municipality, P73 Borrow Pit, South Africa  
2015 - 2016**

**Environmental Consultant/Project Manager**

Compilation of the EMPr.

**Henwood and Nxumalo, Umgungundlovu District Municipality, Harewoods Roads, South Africa  
2015**

**Environmental Consultant**

Basic Assessment Report and WULA. Project Guidance and Technical Review of BAR and WULA.

**Madan Singh and Associates, Ugu Municipality, P77 Road Upgrade, South Africa  
2014 - 2015**

**Environmental Consultant**

Compilation of BAR and WULA.

**Samani Consulting, Ugu Municipality, Upgrade of Provincial Road R75.3, South Africa  
2014 - 2015**

**Environmental Consultant**

Compilation of BAR and WULA.

**Madan Singh and Associates, Umgungundlovu District Municipality, Dambuza Road Upgrade, South Africa  
2014 - 2015**

**2014 - 2015**

**Environmental Consultant**

Compilation of BAR and WULA.

**Boston Ink Consulting, Zululand District Municipality, Upgrade of Phenyane to Obhazweni Road,  
South Africa**

**2014 - 2015**

**Environmental Consultant**

Compilation of WULA.

**Hatch Goba, Ndwedwe Municipality, Umdloti River Bridge and Realignment of P713, South Africa  
2014 - 2015**

**Environmental Consultant**

Compilation of BAR and WULA.





## **Patricia Nathaniel**

Principal Consultant, Earth & Environment

**TPA Consulting Engineers, Okahlamba Municipality, Ohombe Vehicle Bridge, South Africa  
2014 - 2015**

**Environmental Consulting**

Compilation of BAR and WULA.

**Mott Macdonald, eThekwini, Umlazi K & L Sanitation Project  
2014**

**Environmental Consultant**

Screening, Basic Assessment Report and WULA. Compilation of BAR and WULA.

**Client Mott Macdonald, eThekwini, Umlazi P & Q Sanitation Project, South Africa  
2014**

**Environmental Consultant**

Screening, Basic Assessment Report and WULA. Compilation of BAR and WULA.

**Mott Macdonald, eThekwini, Umlazi G Sanitation Project, South Africa  
2014**

**Environmental Consultant**

Screening, Basic Assessment Report and WULA. Compilation of BAR and WULA.

**Mott Macdonald, eThekwini, Umlazi A, B, C, E, S, and Malaba Hills Sanitation Project, South Africa  
2014**

**Environmental Consultant**

Screening, Basic Assessment Report and WULA. Compilation of BAR and WULA.

**Mott Macdonald, eThekwini, Unity Avenue Sanitation Project, South Africa  
2014**

**Environmental Consultant**

Screening, Basic Assessment Report and WULA. Compilation of BAR and WULA.

**Mott Macdonald, eThekwini, N4 Informal Settlement Sanitation Project, South Africa  
2014**

**Environmental Consultant**

Screening, Basic Assessment Report and WULA. Compilation of BAR and WULA.

**Mott Macdonald, eThekwini, Happy City Informal Settlement Sanitation Project, South Africa  
2014**

**Environmental Consultant**

Screening, Basic Assessment Report and WULA. Compilation of BAR and WULA.

**Samani Consulting, Umdoni Municipality, GJ Crookes Pedestrian Bridge, South Africa  
2014**

**Environmental Consultant**

Screening, Basic Assessment Report and WULA. Compilation of BAR and WULA.

**NamPower, Namibia, Baynes Hydropower Project, South Africa  
2010 - 2013**

**Junior Environmental Consultant**

Environmental, Social and Health Impact Assessment.



*We certify that*

**PATRICIA PEARL NATHANIEL**

*having complied with the requirements of the Higher Education Act  
and the Institutional Statute, was admitted to the degree of*

**HONOURS BACHELOR OF SCIENCE**  
*in Environmental Management*

*at a congregation of the University  
on 24 May 2013*

*M. Malherbe*

Vice-Chancellor



*M. Lijt*

Executive Dean

*J. J. J. J. J.*

University Registrar





Registration No. 2020/1120

***Herewith certifies that***

**Patricia Nathaniel**

***is registered as an***

**Environmental Assessment Practitioner**

***Registered in accordance with the prescribed criteria of Regulation 15. (1)  
of the Section 24H Registration Authority Regulations  
(Regulation No. 849, Gazette No. 40154 of 22 July 2016, of the  
National Environmental Management Act (NEMA), Act No. 107 of 1998, as  
amended).***

Effective: 01 March 2023

Expires: 29 February 2024

Chairperson

Registrar



**APPENDIX**

*ANRI SCHEEPERS*



## ANRI SCHEEPERS, BA

*Principal Consultant (Environmental Services), Environment & Energy*

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### CAREER SUMMARY

Anri graduated from the University of Johannesburg with a BA honours in Geography in 2007, and has thirteen years work experience. Anri is a principal environmental consultant and team coordinator for the Planning and Advisory Services unit.

Anri has been involved in numerous mining and industrial projects in South Africa. Anri has experience with diamond, gold, platinum, chrome, coal and manganese mining and processing operations. The projects include Environmental and Social Impact Assessments, Amendment processes and Environmental Management Programme consolidation and alignment processes. She has project managed numerous multi disciplinary projects in various sectors in South Africa and has experience with the International Finance Corporation Performance Standards and African Development Bank Guidelines.

### Years with the firm

8

### Years of experience

13

### Areas of expertise

*Stakeholder Engagement*

*Water Use License Applications*

*Environmental Authorisation Processes*

*Environmental Management Plans*

*Waste Management*

*Legal Compliance Assessments*

*Environmental Due Diligence and Liability Assessments*

*Environmental Management Systems*

### Languages

*English*

*Afrikaans*

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Anri is qualified as a Lead Auditor and has undertaken legal compliance auditing, including environmental authorisations, waste management licences, water use licences and environmental performance assessments. In addition, she has undertaken general site assessments to determine compliance against, local, provincial and national environmental legislation. Anri has also been involved in environmental due diligence and liability assessments.

Anri's roles and responsibilities include the management of Environmental Authorisation and Waste Management Licence Processes (Basic Assessments and Scoping and Environmental Impact Assessment Reporting), Water Use Licence Application Processes and Auditing.

### EDUCATION

Bachelor of Arts (Honours), Geography, University of Johannesburg, Gauteng, South Africa 2007

Bachelor of Arts, Geography, University of Johannesburg, Gauteng, South Africa 2006

### ADDITIONAL TRAINING

Environmental-Law Mine Closure, Centre for Environmental Management, South Africa 2019

Snake Awareness, Scorpion Awareness and First Aid for Snakebite and Scorpion Sting, African Snakebite Institute 2016

Environmental Management Systems ISO 14001 Audit: Lead Auditor, Centre for Environmental Management, South Africa 2014

IWRM, Water Use Authorisations, and Water Use Licence Applications – Procedures, Guidelines, IWWMPs and Pitfalls, Carin Bosman Sustainable Solutions, South Africa 2012

ISO 14001 Environmental Management Systems (EMS), Implementation and Auditing, Centre for Environmental Management, South Africa 2011

IEMA Approved Foundation Course in Environmental Auditing, Aspects International, South Africa 2009

**PROFESSIONAL EXPERIENCE***Environmental Authorisation Processes*

- Jet Park Warehouse Development, Gauteng (2020-2021). Project Manager. Basic Assessment Process for the development of a commercial park within a 30m from a wetland and within a critical biodiversity area. Client: Sable Place Properties
- Vosloorus Filling Plant, Vosloorus, Gauteng (2019-2020). Project Manager. Environmental authorisation process for the proposed dangerous goods filling plant. Client: Richbay Chemicals
- Mbabane – Manzini Corridor Dam (Nondvo Dam), Hhohho Region, Eswatini (2018-2019). Project Manager. An Environmental and Social Impact Assessment for the proposed Nondvo Dam in Eswatini (previously Swaziland). Client: Government of the Kingdom of Eswatini, Ministry of Natural Resources and Energy, Department of Water Affairs
- Sappi Ngodwana Reservoir, Mpumalanga (2020): Project Manager. Basic Assessment Process for the construction of a reservoir within a critical biodiversity area. Client: Sappi Southern Africa
- Demolition and Rehabilitation of Infrastructure at West Wits Business Operations, Carletonville, Gauteng (2019): Project Manager. A contaminated land assessment and environmental authorisation process for the decommissioning and rehabilitation of selected infrastructure West Wits Operations. Client: AngloGold Ashanti
- Kranspoort Cattle Feedlot Basic Assessment Process, Kranspoort, Mpumalanga, South Africa (2018): Project Director. A Basic Assessment Process and Waste Management Plan for the proposed development of a cattle feedlot. Client: Department of Rural Development and Land Reform
- Amandelbult Section Dangerous Goods and Railway Extension Final Basic Assessment Report, Thabazimbi, Limpopo (2017-2018): Project Director. The Basic Assessment Process for the proposed installation of diesel tanks and the extension of a railway line at the Amandelbult Section, Tumela Mine. Client: Anglo American Platinum Limited
- Anglo Platinum Water Separation Project, Rustenburg, North West, (2016-2017): Project Manager. The Basic Assessment process for the proposed refurbishment of an existing pipeline and installation of new pipelines as part of the Water Infrastructure Upgrade Project. Client: Anglo American Platinum Limited
- Sasol Energy Technology Blending Facility Upgrade Project, Sasolburg, Free State, South Africa (2017): Project Manager. Basic Assessment Process for the installation of dangerous goods tanks at the Sasol One Site. Client: Sasol Energy Technology, a Division of Sasol Oil (Pty) Ltd
- Sasol Energy Technology Blending Facility Upgrade Project, Sasolburg, Free State, South Africa (2017-2018): Project Manager. Basic Assessment process for the construction of a fuel drum storage warehouse adjacent to the existing underground fuel storage tanks at the Fuel Blending Facility on the Sasol One site. Client: Sasol Energy Technology, a Division of Sasol Oil (Pty) Ltd
- Section 24G Application Process for Rappa Holdings, Germiston, Gauteng (2017-2018): Project Manager. Undertaking the rectification process for six historic rectification applications. Client: Rappa Holdings (Pty) Ltd
- Environmental Authorisation Process for the SO<sub>2</sub> Abatement Plant at Mortimer Smelter, Swartklip, North West, South Africa (2016-2017): Project Manager. Undertaking a Scoping and Environmental Impact Reporting Process to ensure compliance with the National Environmental Management Air Quality Act (No. 39 of 2004). Client: Anglo American Platinum Limited

- Environmental Authorisation Process for the SO<sub>2</sub> Abatement Plant at Polokwane Smelter, Polokwane, Limpopo, South Africa (2016-2017): Project Manager. Undertaking a Scoping and Environmental Impact Reporting Process to ensure compliance with the National Environmental Management Air Quality Act (No. 39 of 2004). Client: Anglo American Platinum Limited
- Environmental Authorisation for a Private Vehicle Proving Ground Development, Northern Cape, South Africa (2016): Project Manager. A Scoping and Environmental Impact Reporting Process for a private vehicle proving ground. Client: Ingen | Aix GmbH
- Establishment of the Proposed Rietvlei Opencast Coal Mine, Mpumalanga, South Africa (2016-2018): Project Manager. This project involved repeating the environmental authorisation process with the DMR as the competent authority, for the establishment of an opencast coal mine north of Middelburg. Client: Rietvlei Mining Company
- Environmental Authorisation for Blue Sphere, Nigel, Gauteng, South Africa (2014): Consultant. This project includes an environmental impact assessment, environmental management programme report, water use license application, waste management license application and an atmospheric emissions licence application as well as the public participation process for the existing and proposed processes for Blue Sphere in Nigel. Client: Blue Sphere Investments and Trading 103 (Pty) Ltd
- Environmental Authorisation for the Proposed Construction and Operation of Two Furnaces and Associated Infrastructure at Transalloys, eMalahleni, Mpumalanga, South Africa (2014): Consultant. The project entailed undertaking an environmental authorisation (by way of a scoping and environmental impact reporting process), including an atmospheric emissions licence application and waste management licence application process for the construction of two new 75MVA submerged arc furnaces that will primarily produce silicomanganese. Client: Transalloys (Pty) Ltd
- Section 24G Rectification Process for the Storage of Dangerous Goods for Much Asphalt, Gauteng, South Africa (2014): Project Manager. Much Asphalt was required to undertake a Section 24G Rectification Process for the unlawful storage of dangerous goods on a number of their sites. Zaffar was involved in the compilation of the Section 24G application forms. Client: Much Asphalt (Pty) Ltd
- M14 Furnace Environmental Authorisation, Meyerton, Gauteng, South Africa (2012): Consultant. The project entailed undertaking an environmental authorisation, including an atmospheric emissions licence application process, in terms of the National Environmental Management Act (No. 107 of 1998) for the construction of an 81MVA furnace that will produce Ferromanganese and Silicomanganese. Client: Samancor Manganese (Pty) Ltd
- Basic Assessment Process for the Proposed Expansion and Upgrading of the Raw Materials Stockyard at Metalloys, Meyerton, Gauteng, South Africa (2011): Consultant. The project included the undertaking of an environmental authorisation process, by way of a basic assessment process, and the amendment application of an atmospheric emissions licence. The project involved the expansion and The project entailed undertaking an environmental authorisation, including an atmospheric emissions licence application process, in terms of the National Environmental Management Act (No. 107 of 1998) for the construction of an 81MVA furnace that will produce Ferromanganese and Silicomanganese upgrading of the existing Raw Materials Stockyard at the Samancor Meyerton Works (Metalloys site). Client: Samancor Manganese (Pty) Ltd
- Proposed new Sinter Plant: Mamatwan Mine, Hotazel, Northern Cape, South Africa (2010): Consultant. This project included an environmental impact assessment, environmental management programme report addendum and water

use license application as well as the public participation process for a proposed sinter plant at the Mamatwan Mine in the Northern Cape. Client: Hotazel Manganese

#### *Environmental Management Plans*

- Refurbishment (Fit-Out) of the 8<sup>th</sup> Floor in 140 West Building, South Africa (2020): Project Manager. Compilation of the Environmental Management Plan for the refurbishment of an office space in order to acquire a Green Star SA – Office v1 certification by the Green Building Council of South Africa. Client: Goldman Sachs
- Environmental Management Plan for the South Sudan Feeder Roads, South Sudan (2019): Project Director. Compilation of an Environmental Management Plan for the construction of the Kayango Market to A43 Road in South Sudan. Client: United Nations Office for Project Services (UNOPS)
- Environmental Programme for the Proposed Knightsbridge Development, Bryanston, Gauteng, South Africa (2015): Project Manager. Compilation of a Green Star Rating Environmental Programme for the Proposed Knightsbridge Development. Client: Emira Property Fund
- J.P Morgan Chase & Company, 1 Fricker Road EMP ECO, Illovo, Gauteng, South Africa (2017): Project Manager. An EMP was compiled for the proposed refurbishment of the office building to attain a Green Star rating and is also responsible for conducting the first EMP compliance audit and training of the DEO to carry out subsequent audits. Client: J.P Morgan Chase & Company
- Compilation of Environmental Management Plans - West Plant Metalloys, Meyerton, Gauteng, South Africa (2011): Consultant. The project included the undertaking of an environmental risk assessment for all facilities and activities at West Plant. Environmental management plans were compiled from the results of the risk assessments. Client: Samancor Manganese (Pty) Ltd Metalloys

#### *Environmental Management Programme Reports*

- Separation of the Union Section Operational Environmental Management Programme (and Addendums) into ‘Carved Out’ versus ‘Retained’ categories, Swartklip, North West Province, South Africa (2017): Project Manager. The Section is in possession of an approved Environmental Management Programme as well as numerous addendums for mining, concentrating and smelting operations. The Section is in a restructuring process which involves the selling and/or disenfranchising of certain of the operations. WSP/PB restructured the Sections’s consolidated Environmental Management Programme to align with the future goals/strategies of the Mine. Client: Anglo Platinum Limited - Rustenburg Platinum Mines Limited
- EMPR Updates – Vaal River and West Wits Operations, Gauteng and North West, South Africa (2014-2016): Project Manager. The alignment of the West Wits (WW) and Vaal River (VR) Operations Environmental Management Programme Reports (EMPR) in accordance with the requirements of the Mineral and Petroleum Resources Development Act (No. 28 Of 2002) (MPRDA). Client: AngloGold Ashanti (Pty) Ltd
- Environmental Management Programme Report Consolidation and Alignment of Union Mine: Rustenburg Platinum Mines, North-West, South Africa (2014): Project Manager. The EMPR consolidation and alignment process combined the original EMPR and authorised EMPR amendments into a complete and comprehensive document, which will become the overarching EMPR for the mine lease area and will be used as a concise management tool for all employees operating within mine lease area. Client: Anglo American Platinum Ltd



*Waste Management*

- Construction and Operation of a Waste Treatment Facility, Middelburg, Mpumalanga (2016-2018): Project Manager. The Scoping and Environmental Impact Reporting process for the construction and operation of a Health Care Risk Waste treatment facility in Middelburg. Client: Vikela Afrika Waste Care CC
- Applications for Samancor Manganese (Pty) Ltd Metalloys in terms of section 20 of the Environment Conservation Act 73 of 1989, Meyerton, Gauteng, South Africa (2014): Consultant. The project entailed applications, by way of risk assessments, in terms of section 20 of the Environmental Conservation Act, for the North Plant Sludge Dam, West Plant Sludge Dam, Bag Filter Material storage Facilities and Slag Stockpiles at Metalloys. Subsequent to the receipt of the waste management licences in terms of the National Environmental management: Waste Act (No. 59 of 2009) an amendment process was also undertaken. Client: Samancor Manganese (Pty) Ltd
- Applications for Afrisam, Vanderbijlpark, in terms of section 20 of the Environment Conservation Act 73 of 1989. Vanderbijlpark, Gauteng, South Africa (2014): Consultant. The project entailed applications in terms of section 20 of the Environmental Conservation Act, for the slag stockpiles at Afrisam, Vanderbijlpark. Subsequent to the receipt of the waste management licences in terms of the National Environmental management: Waste Act (No. 59 of 2009) an amendment process was also undertaken. Client: AfriSam South Africa (Pty) Ltd
- Waste Management Licence Application for The Existing And New Waste Management Facilities At Columbus Stainless Complex In Middleburg, Mpumalanga Province, South Africa (2014): Project Manager. Columbus Stainless (Pty) Ltd (Columbus) proposes to license existing waste management facilities and a new hazardous waste store within the footprint of the Columbus Complex. The Environmental Authorisation process by way of Scoping and Environmental Impact Reporting is required in order to license the said facilities. The facilities requiring licensing involve, but is not limited to: storage, recovery, bailing and treatment. WSP is responsible for obtaining a Waste Management License for the said activities via the Department of Environmental Affairs in line with relevant legislation. Client: Columbus Stainless (Pty) Ltd
- Establishment of a Waste Monitoring Committee, Meyerton, Gauteng, South Africa (2011): Consultant. The project included the identification of potential members for the monitoring committee and the establishment of the committee. The establishment of the committee included the compilation of the constitution and committee meetings. Client: Samancor Manganese (Pty) Ltd

*Water Use Licence Applications*

- Water Use Licence Application Process for the SO<sub>2</sub> Abatement Plant at Anglo American Platinum Limited: Polokwane Smelter, Polokwane, Limpopo, South Africa (2017-2018): Project Manager. The project involved the management of specialist along with the compilation and submission of the technical documentation. Client: Anglo American Platinum Ltd: Polokwane Metallurgical Complex
- Rietvlei Coal Mine Water Use Licence Application and Integrated Water and Waste Management Plan, Middelburg, Mpumalanga, South Africa (2016 – 2017): Project Manager. The project involved the compilation of the Integrated Water and Waste Management plan for all water uses proposed at the Greenfileds Rietvlei Opencast Coal Mining Operation. Client: Rietvlei Mining Company (Pty) Ltd
- Metalloys Water Use Licence Application, Meyerton, Gauteng, South Africa (2009): Assistant. This project involved compiling and submitting water use licence applications for all water use licence activities being undertaken at Metalloys. Subsequently a water use licence amendment process was also undertaken. Client: Samancor Manganese (Pty) Ltd

*Environmental Authorisation Amendments/Renewals*

- Amendment of the Vodacom Dangerous Good Environmental Authorisations, Midrand, Gauteng (2021): Project Manager. The amendment process of the environmental authorisations to amend auditing and monitoring conditions. Client: Vodacom South Africa
- Transfer of the West Wits Operations EMPR to Harmony Gold (2020): Project Manager. The amendment of the EMPR to transfer the West Wits Operations EMPR to Harmony Gold. Client: AngloGold Ashanti Limited
- Amandelbult Section Bus and Taxi Terminal Part 2 Amendment Process, Thabazimbi, Limpopo (2020-2021): Project Manager. The amendment process of the existing Environmental Management Programme Report to formalise the bus and taxi terminal. Client: Rustenburg Platinum Mines
- Sibanye Rustenburg Platinum Mine Part 2 Amendment Process, Rustenburg, North West (2018): Project Manager. The proposed amendment of the Environmental Management Programme Report to excluded activities which will not take place and to ensure alignment of the management measures. Client: Sibanye-Stillwater
- Zibulo Colliery Part 2 Amendment Process, Mpumalanga (2018-2019): Project Manager. The amendment of the Zibulo Colliery Environmental Management programmes for the inclusion of a new coal stockpile. Client: Anglo American Inyosi Coal
- Scaw Metal Waste Treatment and Disposal Facility Part 2 Amendment (2018-2019): Project Manager. The amendment of the Scaw Waste Management Licence to include different waste types. Client: Scaw South Africa
- The transfer of Authorisations for Union Mine (2018): Project Manager. The transfer a Waste Management Licence and ECA Permit in terms of the Part 1 Amendment Process. Client: Anglo American Platinum Limited
- The transfer of Authorisations for Anglo American Platinum Rustenburg Section (2018): Project Manager. The transfer a two Waste Management Licences in terms of the Part 1 Amendment Process. Client: Anglo American Platinum Limited
- Amendment of the Sibanye Rustenburg Platinum Mines Environmental Management Programme, Rustenburg, North West (2018): Project Manager. A Part 2 Amendment Process was undertaken to limit the EMPR to activities have commenced or will be undertaken. Client: Sibanye-Stillwater
- Amendment Process for the Copper Smelting and Casting Plant at Rappa Resources, Germiston, Gauteng (2017-2018): Project Manager. A Part 2 Amendment Process for the installed Copper Smelting and Casting Plant at Rappa Resources. Client: Rappa Resources (Pty) Ltd
- Renewal of the Technopack Eastern Cape Waste Management Licence, Springs, Gauteng (2017): Project Manager. The Waste Management Licence was renewed to ensure the continuation of the plant operations at Enstra. Client: Technopack Eastern Cape (Pty) Ltd
- The Impala Platinum Springs Waste Management Licence Amendment, Springs, Gauteng (2018): Project Manager. A Part 1 Amendment Process was undertaken in order to amend some of the conditions of the Waste Management Licence. Client: Impala Platinum Refineries
- Environmental Authorisation Amendment Process for the Ventilation Shaft at Siphumelele 1 Mine, Rustenburg, North-West, South Africa (2016): Project Manager. Part 2 Amendment Process for the proposed establishment of the Ventilation Shaft at Siphumelele 1 Mine. Client: Rustenburg Platinum Mines Limited

*Stakeholder Engagement*

- Minimum Emissions Standard Postponement Application for Nulandis Lilianton and Modderfontein (2018-2019): Project Manager. Undertaking the stakeholder engagement process in support of the Nulandis Lilianton and Modderfontein Minimum Emissions Standard Postponement Application. Client: Nulandis
- Minimum Emissions Standard Postponement Application for Sappi Ngodwana (2019): Project Manager. Undertaking the stakeholder engagement process in support of the Sappi Ngodwana Minimum Emissions Standard Postponement Application. Client: Sappi Southern Africa
- Minimum Emissions Standard Postponement Application for AEL Interlligent Blasting Modderfontein (2018-2019): Project Manager. Undertaking the stakeholder engagement process in support of the Modderfontein Site Minimum Emissions Standard Postponement Application. Client: AEL Intelligent Blasting
- Identification of Interested and Affected Parties for Omnia Sasolburg, Sasolburg, Free State, South Africa (2018): Project Manager. The identification of interested and affected parties in terms of Clause 4.1 and 4.2 of ISO 14001:2015. Client: Omnia Fertilizer a Division of Omnia Group (Pty) Ltd
- Re-establishment of a Monitoring Committee for Metalloys, Meyerton, Gauteng, South Africa (2015 – 2016): Project Manager. The re-establishment of a Monitoring Committee for four of the Waste Management Facilities at Samancor Manganese, Metalloys. Client: BHP Billiton Metalloys (Pty) Ltd
- Stakeholder Engagement for Mooi-Mgeni Transfer Scheme Phase 2, Rosetta Village, Kwazulu- Natal, South Africa (2009): Assistant. This project involved undertaking the public participation process for the Mooi-Mgeni Transfer Scheme Phase 2, which will primarily encompass the construction of the proposed Spring Grove Dam and an associated transfer pipeline from the proposed dam to the Mpofana River. Client: Department of Water Affairs and Forestry (DWAF)

*Legal Compliance*

- AfriSam Regulation 34 Audits (2020-2021): Lead Auditor. Undertaken the Regulation 34 Compliance Audits for various AfriSam Operations (Eikenhof, Roodekrans, Ladysmith, Umlaas, Pietermaritzburg, Rooikraal). Client: AfriSam
- EMPR Regulation 34 Audits at Mogalakwena Section, Limpopo, South Africa (2020): Lead Auditor. Undertaking nine compliance audits in accordance with Regulation 34 of the EIA Regulations and compilation of seven statements of confirmation that the activities have not yet commenced. Client: Rustenburg Platinum Mines.
- Desktop Review of the Impala EMPR 2019 Audit (2020): Lead Auditor. A desktop review was undertaken to determine whether any changes has been made to the operations at Impala that could influence compliance. Client: Impala Platinum
- External Waste Management Licence Audit at Impala Platinum, Gauteng, South Africa (2016, 2018 and 2020): Lead Auditor. External compliance audit of the WML for the Salvage Yard at Impala Springs. Client: Impala Platinum Refiners
- External Water Use Licence Audit of the Rustenburg Operations, North West, South Africa (2020): Lead Auditor. Undertaking the Water Use Licence for the Waterval Smelter and Anglo Converter Plant, Rustenburg Base Metal Refinery and Precious Metals Refinery. Client: Rustenburg Platinum Mines.
- Impala Platinum Regulation 34 and Waste Management Licence Audits, Rustenburg (2019): Lead Auditor. Undertaking seven compliance audits in accordance with Regulation 34 of the EIA Regulations. Client: Impala Platinum



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*Principal Consultant (Environmental Services), Environment & Energy*

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- Surface Operations Regulation 34 Audits (2019): Lead Auditor. Undertaking the Regulation 34 audits for the Vaal River, Mine Waste Solution and West Wits Operations. Client: AngloGold Ashanti Limited
- Used Oil Industry Audits, Countrywide, South Africa (2014-2019): Lead Auditor. Country-wide environmental compliance auditing of the South African recycled oil industry, comprising sixteen oil refinery operations, and twenty nine drum re-conditioning plants. The audits are primarily focussed on compliance to legislation and ensuring that each site follows international best practice. The audits include a review of the refineries ISO14000 auditor's findings, and tracking of compliance in regards to corrective actions. Client: OSE Foundation
- Sasol Third Party Audits, Johannesburg, Gauteng, South Africa (2017): Project Manager. Undertaken compliance assessments of three environmental authorisations and two water use licence for Sasol Gas. Client: Sasol Gas
- External Environmental Compliance Audit - Tarlton Intermixture Fractionator Plant, Gauteng, South Africa (2014 and 2016): Lead Auditor. An external environmental compliance audit of the record of decision for the Transnet Pipelines Tarlton Intermixture Fractionator Plant was undertaken in order to establish whether Transnet Pipelines are compliant with the conditions specified therein. The audit was undertaken by means of site observations, interviews and verification of available information. Client: Transnet Pipelines (GOC) Ltd
- Waste Management Licence for the Remediation and Decommissioning of Tar Residue Pits, Rustenburg, North-West, South Africa (2015): Lead Auditor. A close-out audit was undertaken to compile compliance with the Waste Management Licence conditions during remediation and decommissioning. Client: Anglo Platinum Limited - Rustenburg Platinum Mines Limited
- Water Use Licence Audit for the Landau Colliery, Mpumalanga, South Africa (2014): Auditor. The audit of the Water Use Licence was conducted in accordance with the relevant requirements of the National Water Act and conditions stipulated therein. The audit report included a summary of findings and compliance criteria, as well as recommendations for future corrective and preventative actions if required. Client: Anglo American Thermal Coal
- Waste Management License Audit for the Slagment Operation, Vanderbijlpark, Gauteng, South Africa (2014): Lead Auditor. This project involved the annual environmental compliance auditing for AfriSam's Slagment Operation in Vanderbijlpark in Gauteng Province. The audit included AfriSam's compliance to the conditions of their waste management license. Client: AfriSam South Africa (Pty) Ltd
- Legal Compliance Audit, Olifantsfontein, Province, South Africa (2012): Lead Auditor. The project included undertaking a legal compliance audit of the atmospheric emissions licence and waste management licence at A-Thermal Retort Technologies (Pty) Ltd. A-Thermal, in Olifantsfontein. Client: A-Thermal retort Technologies (Pty) Ltd
- Metalloys Water Use Licence Audit, Meyerton, Gauteng, South Africa (2012): Auditor. The project entailed undertaking a compliance verification audit of the water use licence conditions of Metalloys. Recommendations were also provided in the audit report for non-compliance or potential concerns. Client: Samancor Manganese (Pty) Ltd
- M14 Furnace Legal Compliance Audit, Meyerton, Gauteng, South Africa (2010 & 2012): Auditor. The project included undertaking a legal compliance audit at Samancor Manganese (Pty) Ltd (Metalloys) to verify their compliance to the conditions of the record of decision issued for the M14 Furnace and the associated atmospheric emissions licence. Client: Samancor Manganese (Pty) Ltd
- Annual Audit of the Record of Decision and Environmental Management Plan for the Fouriespruit Stream diversion and Old Slag Area, Meyerton, Gauteng, South

Africa (2009 & 2010): Lead Auditor. A legal compliance audit on the record of decision and the associated environmental management plan was undertaken to establish whether the upgrading of the existing stream diversion and the closure and rehabilitation of the old slag disposal area comply with the conditions contained therein. Client: Samancor Manganese (Pty) Ltd

- Goedgevonden Mine Water Use Licence Audit, Ogies, Mpumalanga, South Africa (2009): Auditor. The project entailed undertaking a compliance verification audit of the water use licence conditions of Goedgevonden Mine. Recommendations were also provided in the audit report for non-compliance or potential concerns. Client: Xtrata Coal South Africa

*Environmental Due Diligence and Liability Assessments*

- Environmental Due Diligence for Rolfes Chemicals, Germiston, Gauteng, South Africa (2014): Auditor. Environmental Due Diligence for the acquisition of a Processing Plant and associated facilities. Client: Rolfes Chemicals Alberton
- Environmental and Social Due Diligence of 22 FMCG facilities, Country-wide, South Africa (2014): Lead Auditor. Transactional Environmental and Social Due Diligence for the acquisition of 22 FMCG facilities mainly in the food manufacturing and consumer formulated chemical sectors situated across South Africa for an international private equity and real estate investor. Client: Confidential
- Environmental and Social Due Diligence of Medrock, Johannesburg, South Africa (2014): Lead Auditor. Transactional Environmental and Social Due Diligence for the acquisition of three medical supplies facilities situated in Johannesburg. Client: Confidential

*Site Assessments*

- The development and expansion at Two Rives Platinum Mine (2021): Project Manager. Environmental Screening for the proposed expansions at the existing Two Rivers Platinum Mine. Client: Two Rivers Platinum Mine
- The Development of a Filling Plant, Vosloorus, Gauteng (2019): Project Manager. Environmental screening for the proposed chemical filling plant. Client: Richbay Chemicals
- Springfield Coal Mine, Meyerton, Gauteng (2019): Project Manager. Site and Legal Review for the Proposed Springfield Coal Mine. Client: Glubay Coal
- The Development of Thermal Power Plant and Solar PV Plant, Nacala, Mozambique (2018): Project Manager. Environmental and social screening for the alternative sites in terms of the International Finance Corporation Performance Standards on Environmental and Social Sustainability. Client: Confidential
- Gap Analysis for the Northern Pit Development at Zibulo Colliery, Mpumalanga (2018): Project Manager. Undertaking a gap analysis of the proposed development of an opencast pit in the northern section of the approved mining right area for Zibulo Colliery, Mpumalanga. Client: Anglo American Inyosi Coal (Pty) Ltd
- Screening Assessment of Proposed Waste Management Facility at Vodacom Campus, Midrand, Gauteng, South Africa (2017). Project Manager. Screening assessment to prepare a business case based on the facts so that the options for Vodacom's development vs. the potential requirement to identify an alternative site can be objectively evaluated by Vodacom. Client: Vodacom Group Limited
- Site Assessment of a culvert on Sappi Forest Property, plantation Nooitgedacht – Camelot South, Ngodwana, Mpumalanga, South Africa (2015): Project Manager. A site assessment of a recently completed culvert development on Sappi Forest property, plantation Nooitgedacht – Camelot South, Mpumalanga. The purpose of the site assessment is to evaluate the works undertaken on site in respect of the National Environmental Management Act (107 of 1998) as amended and National



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Water Act (36 of 1998) and relevant regulations promulgated under these acts.  
Client: Sappi Southern Africa Limited

- Legal Assessment for the a Proposed Development of a barley Malting Process in Alrode, Germiston, Gauteng, South Africa (2013): Senior Consultant. Undertaking of legal assessment to identify and assess potential scenarios based on environmental assessment triggers for the proposed development at erven 283, 289 and 1607 in Alrode Extension 2. Client: South African Breweries (Pty) Ltd

### *Environmental Management Systems*

- Voorspoed Internal ISO 14001 Audit, Klerksdorp, Free State, South Africa (2010): Auditor. An internal audit was undertaken of the Voorspoed Mine, ISO 14001 System. During the audit conformance to ISO 14001 and the effective implementation of such was assessed. Client: De Beers Group Services (Pty) Ltd
- Venetia Internal ISO 14001 Audit, Musina, Limpopo, South Africa (2009): Auditor. An internal audit was undertaken of the Venetia Mine, ISO 14001 System. During the audit conformance to ISO 14001 and the effective implementation of such was assessed. Client: De Beers Group Services (Pty) Ltd