

<b>Name:</b>	Mari
<b>Surname:</b>	Schroeder Wolmarans
<b>Year of Birth:</b>	1968
<b>Nationality:</b>	South African
<b>Expertise:</b>	<p>Mari has been active in the environmental, sustainability and governance field since 1992. She has been a registered professional environmental scientist since 2001, a certified environmental assessment practitioner since 2000 and completed IEMA approved auditing courses in 2000 and 2001.</p> <p>She has managed numerous complex environmental studies, multi-disciplinary teams and all aspects related to the legal and procedural requirements of projects. She has a proven track-record in the mining, processing and smelting, infrastructure development, energy, manufacturing, construction, waste management, agriculture and conservation sectors.</p>
<b>Career History:</b>	<p><b>Ethical Exchange Sustainability Services (Pty) Ltd</b> From 2011: Director and Founding Member, Independent Sustainability Auditor and Advisor</p> <p><b>Synergistics Environmental Services (Pty) Ltd (now part of SLR)</b> 2004-2011: Director and Founding Member</p> <p><b>WSP Environmental (previously Walmsley Environmental Consultants)</b> 1999-2003: Associate, Head of Environmental Assessment Unit (2002-2003), Senior Consultant (1999-2001)</p> <p><b>Ninham Shand Consulting Engineers (now Aurecon)</b> 1996-1998: Senior Environmental Scientist</p> <p><b>Van Riet &amp; Louw (now V&amp;L Landscape Architects and Environmental Planners)</b> 1990-1996: Environmental Planning Consultant</p>
<b>Academic Qualifications:</b>	<p><b>Bachelor in Landscape Architecture: Faculty of Natural Science, UP, 1991</b> Four-year course at Honours level, covering Environmental Planning as key component (only graduate course in South Africa to incorporate Integrated Environmental Management and Environmental Assessment Processes into its curriculum at the time in South Africa).</p> <p><b>Negotiation and Business Management (one-year diploma) 2003</b></p>
<b>Continued Education:</b>	<p>Integrated Water Resource Management, Authorisations and License Applications, CBSS, 2015 (3 days) Dealing with the Inspectorate of the DMR, Oceans Training Management, 2015 (1 day) Integration of HIV and Gender-Related Issues into the EIA Process Workshop, SAIEA, 2013 (1 day) ISO14001 Awareness Course, Advantage.A.C.T, 2012 (1 day) IEMA approved Carbon Footprint Management Course, Aspects International, 2011 (2 days) Environmental Impact Assessment: Project Management Short Course, CSIR, 2002 (2 days) IEMA accredited Environmental Management System Implementation Course, WSP, 2001 (5 days) IEMA accredited Internal Environmental Management System Auditing Course, WSP, 2001 (5 days) IEMA accredited Environmental Auditor Training Course, Aspects International, 2000 (5 days)</p>
<b>Professional Affiliations:</b>	<p>Environmental Assessment Practitioner, certified by Interim Certification Board (EAPSA) since 2004 Professional member of the South African Institute of Ecologists and Environmental Scientists (SAIE&amp;ES) since 2001 Member of the International Association for Impact Assessment (IAIA)</p>
<b>Clients:</b>	<p>Various Financial Institutions, Coega Development Corporation, NOSA, The Mineral Corporation, SANRAL, Aphone Consulting, Aurecon, KBK Engineers, Anglo American, AngloGold Ashanti, EnviroServ, Kumba Resources, Exxaro Resources, Department of Water Affairs, Umgeni Water, Department of Environmental Affairs, Konkola Copper Mines, Department of Public Works, Rand Water Board, NamPower, Department of Roads, Wesizwe Platinum, Sishen Iron Ore Company, Lafarge Aggregates, African Rainbow Minerals, Letseng Diamond Mine, Shanduka Coal, Herculite Ferrochrome, Mkombi</p>

Mining, Strategic Natural Resources, Northam Platinum, PPC, My Acre of Africa Management Company, various local authorities and private clients and various confidential clients.

*Note: Due diligence audits are subject to confidentiality agreements and as such, details about the clients cannot be divulged.*

**Areas Worked:** All nine provinces of South Africa, Namibia, Botswana, Zambia, Mozambique, Lesotho, Tanzania, the Democratic Republic of the Congo (DRC), Uganda, Mongolia and the USA.

**Project Experience:**

## **AUDITING, RISK ASSESSMENTS AND STRATEGIC ADVICE**

### **Competent Person Reports (JSE) (2010 to 2017):**

Participation as environmental technical advisor. Responsible for the environmental, sustainability and governance (ESG) reporting sections in terms of JSE listing requirements, the SAMREC codes and the SAMESG best practice guideline on social, environmental and governance (ESG) reporting. The latest reports completed were for various coal mining complexes (2017), a manganese mine (2016 and 2018) and various platinum mining complexes (2015).

### **Due Diligence Audits, Risk Audits and Fatal Flaw Reviews (2004 to 2017):**

Participation as environmental technical advisor in over 100 due diligence audits, risk audits and fatal flaw reviews since 2004. Being responsible for environmental and sustainability component of the audits, the work involved site assessments, documentation reviews and interviews, reporting on environmental licencing and permitting status, verification of environmental performance and compliance, determination of material financial and reputational risks and liabilities, assessment of environmental management budgets, costs and liabilities and input into the overall financial models and business plans.

### **Review of Project Feasibility Studies (2008 to 2017):**

Participation as environmental technical advisor in the review of various feasibility studies (preliminary, bankable and definitive).

### **Provided ongoing environmental and sustainability advice and produced various environmental and sustainability chapters for feasibility study reports:**

On behalf of The Mineral Corporation, for various key client (2004-2017). Sishen Mine (2004-2010). Mbila Project (2006-2008), Dingleton Town Relocation (2008-2010), Navachab Expansion Project (2011-2012), New Largo Coal Project (2010-2014). Exxaro Resources (2006-2012). Letšeng Diamond Mine (2006-2009).

### **Supervision and Mentoring of Environmental Control Officers:**

Supervision and mentoring of site environmental control officers for various projects including housing developments, roads, railway lines, pipelines, power lines, commercial, institutional, and industrial and mining complexes with associated infrastructure such as sewerage treatment works, water treatment works, telecommunication structures, fuel installations, explosives magazines, hazardous substance storage areas, roads and pipelines. Projects on behalf of various private clients, parastatals and local governments throughout South Africa and Namibia (2002-2015).

### **Coca Cola Beverages South Africa:**

Environmental risk assessment. Update of environmental aspects and impacts register. Recommendations for improved site management. On behalf of NOSA (Pty) Ltd. Eastern Cape, SA (2017).

### **Jeffrey's Bay Wind Farm:**

Site assessment and water license compliance audit. On behalf of NOSA (Pty) Ltd, for Globeleq South Africa, Eastern Cape, SA (2016-2017).

### **Grupo Antolin:**

Annual independent environmental audits and site assessments. Identification of environmental risks and recommendations for improved risk management. On behalf of NOSA (Pty) Ltd, Nelson Mandela Bay Logistics Park, Eastern Cape, SA (2015, 2016 and 2017).

### **R67 Road (Seymour to Queenstown):**

Independent environmental control officer. Management staff training. Develop of environmental induction training material for general staff induction. Coordinate monthly site audits. Ongoing guidance to contractor's designated environmental officer. Monthly reporting to client and authorities. For KBK Engineers on behalf of SANRAL, Eastern Cape, SA (from 2016).

### **Diamond Mines Expansion Projects:**

Bi-annual environment compliance and risk review of two diamond mining expansion projects to assess the risk exposure to funding institutions, SA (2014-17).

### **Petroleum Storage:**

Site assessment and development of an environmental management plan for disused petroleum storage tanks. On behalf of NOSA, for Express Petroleum, Humerial, Port Elizabeth, SA (2016).

### **Ncora Irrigation Scheme:**

Site assessment and development of a maintenance management plan. On behalf of Aphane Engineers for the Department of Water and Sanitation. Eastern Cape, SA (2016).

### **Proposed Coega Manganese Terminal:**

Coordinate monthly PM10, PM2.5 and dustfall baseline monitoring for the proposed Manganese Terminal at Coega Industrial Zone over a twelve-month period. For Airshed Planning Professionals on behalf of Hatch. Eastern Cape, SA (2013).

### **Formalchem Chemical Plant:**

Risk assessment. Water and soil sampling and monitoring in response to a Department of Environmental Affairs directive issued to the owners of the site. Remediation plan and report to the DEA. For private landowners. Eastern Cape, SA (2013).

### **Tharisa Mine:**

Environmental management programme compliance audit. Water use license compliance audit. North-West Province, SA (2013).

### **Elitheni Coal:**

Environmental management programme and environmental legal compliance audit. Review of external water use license audit report. Eastern Cape, SA (2013).

**Lafarge Bloemfontein Quarry:**

Environmental management programme and legal compliance audit. For Lafarge Aggregates. Free State, SA (2011).

**Hernic Ferrochrome Smelter:**

Environmental compliance audit. For Hernic Ferrochrome, Northwest Province, SA (2004).

**Elandsheuwel Prospecting:**

Environmental management programme and compliance audit. On behalf of the Mineral Corporation, North-West Province, SA (2008).

**Oaklands Housing Construction Project:**

Site assessment to verify licencing requirements. Water use license application. For private client (2015-2017).

**New Largo Project:**

Development of construction environmental management system procedures. Coordinate comprehensive three-year environmental monitoring programme (air, surface water, ground water, ecology and biomonitoring). For Anglo American Inyosi Coal. Mpumalanga, SA (2009-2013).

**New Zinc Mine Development:**

Annual construction phase environmental audits on behalf of financial institutions to assess compliance with the project's environmental management programme, biodiversity off-set commitments, legal commitments and performance against IFC performance standards, World Bank standards and the Equator Principles (from 2015).

**Sheeprun (Booysendal) Rehabilitation:**

Development and implementation of rehabilitation strategy for old prospecting drill sites and access routes. Consultation with landowners. Site environmental control and supervision during construction. On behalf of Northam Platinum. Limpopo, SA (2009-2010).

**Environmental Monitoring Programmes:**

Coordination of short-term and seasonal environmental monitoring programmes, undertaken as part of various environmental impact assessment processes. For various clients. South Africa, Namibia and Lesotho (2000-2014).

**Relocation of sections of the Manganese and Iron Ore Railway Lines and Associated Infrastructure near Sishen Mine (demolition of existing line and construction of a new line):**

Environmental study leader. Coordinate environmental control officer activities. Review of quarterly environmental audit reports to relevant authorities. On behalf of Kumba Resources, Northern Cape, SA (2010-2012).

**My Acre of Africa Conservation Education Centre in the Kruger National Park (Phase 2):**

Environmental study leader responsible for environmental control and reporting to client and government departments (SANParks, DEA and DWS) during the construction phase. For My Acre of Africa Management Company. Mpumalanga and Limpopo, SA (2009-2010).

**My Acre of Africa Conservation Education Centre in the Kruger National Park (Phase 1):**

Environmental control officer. For My Acre of Africa Management Company. Mpumalanga and Limpopo, SA (2002-2004).

**Weather Radar Station:**

Site selection. Construction environmental control. For SA Weather Services. Kruger National Park. Mpumalanga, SA (2009).

**Letšeng Diamond Mine:**

Construction environmental management plan audits. For Letšeng Diamond Mine's Second Processing Plant Development, Lesotho (2008).

**Eco-Estate Development:**

Environmental site control during construction period. For private client. Alberton, Gauteng, SA (2004-2005).

**Harbour Town Housing Development at Vaal Dam:**

Initiate site environmental control processes in order to facilitate in-house environmental control by client. Manage post-approval authority review and compliance audits. For private client. Gauteng, SA (2004-2005).

**Platreef Opencast Platinum Mine:**

Coordinate comprehensive three-year environmental monitoring programme (air quality, surface water, groundwater and acid-base accounting). For African Minerals. Limpopo, SA (2002-2005).

**Windhoek to Walvis Bay 200 kV Transmission Line:**

Induction training and environmental compliance monitoring during construction. Supervision of client appointed environmental control officer. Review of environmental control officer reports. For NamPower. Namibia (2000-2002).

**400 kV Scorpion Mine Transmission Lines:**

Develop environmental induction training material. Conduct environmental induction training. Input during appointment of environmental control officer. Ad-hoc advice to environmental control officer and review of environmental control reports. For NamPower. Namibia (2002).

**Bloemfontein Maximum Security Prison:**

Environmental control officer during construction. Monthly environmental site audits and reports. Ad-hoc environmental advice to site personnel. Ikhwezi Consortium, Free State, SA (1999-2002).

**Navachab Expansion Project:**

Provide environmental and sustainability input into project risk assessments. Provide input on operation readiness planning. For AngloGold Ashanti. Namibia (2012).

**New Largo Colliery:**

Provide environmental and sustainability input into project risk assessments during pre-feasibility phase and feasibility phase. Participate in project team strategic closure vision development (2010-2012).

**Margolis Hazardous Waste Site:**

Risk assessment of potential golf driving range development on a closed hazardous waste site. For EnviroServ. Gauteng, SA (2008).

**Phola-Kusile Coal Conveyor:**

Provide environmental and sustainability input into project risk assessments during pre-feasibility phase and feasibility phase. (2010-2012).

**Sishen Mine Western Expansion Project:**

Provide environmental and sustainability input into project risk assessments during pre-feasibility phase and feasibility phase (2008-2011).

**Sishen Expansion Project 1A (SEP1A):**

Provide environmental and sustainability input into project risk assessments during pre-feasibility phase and feasibility phase (2006).

**Sishen Expansion Project 1 (SEP1):**

Provide environmental and sustainability input into project risk assessments during pre-feasibility phase and feasibility phase (2004-2005).

**Tati Mine:**

Integrated Safety, Health and Environmental Certification Audit (environmental component). For NOSA. Botswana (2009).

**Wesizwe Prospecting Operations:**

Various EMP performance assessments, risks assessments, audits and closure plans for prospecting. On behalf of the Mineral Corporation and Wesizwe Platinum. North-West Province, SA (2007-2010).

**Kipushi Zinc and Copper Smelter:**

Assessment of environmental liabilities of moth-balled operations. On behalf of the Mineral Corporation and United Resources. Democratic Republic of the Congo (2007-2008).

**Sishen Expansion Project 1 (SEP1):**

Risk assessment and review of environmental impact assessment process conducted by client-appointed consultant. For Kumba Resources, Northern Cape, SA (2004-2005).

**Styltdrift Platinum Project:**

Independent review of environmental impact assessment and environmental management programme by client-appointed consultant. On behalf of the Bafokeng Nation, North-West Province, SA (2007).

**Lafarge Saldanha Quarry:**

Environmental management programme compliance and liability audit and action plan. On behalf of the Mineral Corporation. Western Cape, SA (2005).

**PPC Swartland Cement Factory:**

Integrated Safety, Health and Environmental Certification Audit (environmental component). For NCA (NOSA), Western Cape, SA (2006).

**PPC Cement Depot and Old Factory Buildings:**

Integrated Safety, Health and Environmental Certification Audit (study leader for environmental component). For NCA (NOSA), Gauteng, SA (2005).

**Kimberley Mine:**

Integrated Safety, Health and Environmental Certification Audit (environmental component). For NCA (NOSA), Northern Cape, SA (2004).

**Konkola Copper Mine:**

EMP and environmental compliance audit, Zambia (2003).

**Letšeng Diamond Mine:**

Annual EMP compliance Audits for Letšeng Diamond Mine. Compliance report to government. Lesotho (2008 and 2009).

**Rustenburg Granite Quarries:**

Environmental compliance audit. For private client. Northwest Province, SA (2002).

**Bank Colliery:**

Initial review audit for ISO 14001 environmental management system. For Anglo Coal. Mpumalanga, SA (2001).

**Landau Colliery:**

Initial review audit for ISO 14001 environmental management system. For Anglo Coal. Mpumalanga, SA (2001).

**Kleinkoppie Colliery:**

Initial review audit for ISO 14001 environmental management system. For Anglo Coal. Mpumalanga, SA (2001).

***ENVIRONMENTAL ASSESSMENTS AND MANAGEMENT PROGRAMMES AND SYSTEMS*****Coega Aquaculture Development Zone:**

Integrated environmental impact assessment. Environmental management programme. For Coega Development Corporation, Eastern Cape, SA (2015-2017).

**R335 Zuurberg Road:**

Basic environmental assessment. Environmental management programme. For Aurecon on behalf of the Department of Rural Development and Land Reform, Eastern Cape, SA (2014-15).

**R67 Road (Seymour to Queenstown):**

Basic environmental assessment and water use authorisation. Environmental management programme. For KBK Engineers on behalf of SANRAL, Eastern Cape, SA (2015).

**Mkhombi Mining:**

Scoping and preliminary environmental impact assessment and environmental management programme for a proposed iron ore mine. For Mkhombi Mining. Mpumalanga, SA (2014).

**Monitoring Weirs:**

Basic environmental assessment. Environmental management programme. For Anglo American Inyosi Coal on behalf of Department of Water Affairs. Mpumalanga, SA (2013).

**New Largo Project:**

Environmental impact assessment. Waste management license. Water use license. Environmental management programme. On behalf of Anglo American Inyosi Coal. Mpumalanga, SA (2009-2013).

**Phola-Kusile Conveyor:**

Environmental impact assessment. Waste management license. Water use license. Environmental management programme. On behalf of Anglo American Inyosi Coal. Mpumalanga, SA (2009-2013).

**Chloorkop Landfill Gas Extraction Project:**

Environmental scoping assessment and management programme. For EnviroServ. Gauteng, SA (2005-2006).

**Northern Landfill Site:**

Compilation of environmental impact assessment report. On behalf of Jones & Wagener, for PIKITUP. Gauteng, SA (2004-2006).

**Sishen Mine Western Expansion Project:**

Environmental impact assessment for relocation of railway line, water pipeline and power lines. Water use license. Permits for relocation of protected plants. Environmental management programme. For Kumba Iron Ore, Northern Cape (2008-2011).

**Reductants, Coke and Co-Generation Plant:**

Environmental assessment for the development of a second phase of a processing plant to produce char reductants for the ferroalloy industry, as well as a new coke and co-generation plant. On behalf of Exxaro Resources. Limpopo, SA (2009-2012).

**New Clydesdale Expansion Project 2:**

Environmental studies for new Haasfontein mining expansion area. For Exxaro Coal. Mpumalanga, SA (2009-2011).

**Ferrosilicon Processing Plant:**

Basic environmental assessment. Air emissions license. Environmental management programme. For Exxaro Resources. Gauteng, SA (2008-2009).

**Lafarge Quarries:**

Development of six environmental management programmes. On behalf of Lafarge Aggregates. Mpumalanga. Limpopo and Free State, SA (2009-2011).

**Kombat Mine, Othihase Mine and Tsumeb Smelter**

Input into the development of environmental management systems and procedures. For Ongopolo Mining and Processing. Namibia (2004-2006)

**Mkhombi Project:**

Environmental management programme for prospecting. For Mkhombi Mining. Mpumalanga, SA (2010).

**New Clydesdale Expansion Project 1:**

Environmental impact assessment and environmental management plan for new Diepspruit greenfields mining expansion area. For Exxaro Coal. Mpumalanga, SA (2007-2008).

**Mbila Project:**

Environmental feasibility report. Environmental impact assessment. Draft water use license application. Draft social and labour plan. Environmental management programme. For Minerals Technologies international, KwaZulu Natal, SA (2006-2008).

**Sishen Mine Barrier Pillar Project:**

Environmental impact assessment an environmental management plan for mining of barrier pillar between Khumani Mine and Sishen Mine. Environmental management programme. For Kumba Iron Ore, Northern Cape (2007).

**Letšeng Diamond Mine:**

Ongoing environmental advisory services. Annual update of rehabilitation and closure costing. Environmental impact assessment for new greenfields mining and processing waste facilities. Project brief (scoping assessment) for new processing plant. for Letšeng Diamond Mine. Environmental management programme. Lesotho (2006-2009).

**Sishen Expansion Project 1A (SEP1A):**

Environmental assessment, Environmental management plan (amendment). For Kumba Resources, Northern Cape, SA (2006).

**Graspan Expansion Project:**

Environmental impact assessment and environmental management plan for new greenfields mining expansion area. For Shanduka Coal. Mpumalanga, SA (2007).

**Matimba Brownfields Expansion Project at Grootegeeluk Mine:**

Environmental impact assessment. Environmental management programme. For Kumba Resources. Limpopo, SA (2005-2006).

**Rand Water Pipeline (Clarens to Suikerbosrand):**

Environmental screening study. For Rand Water Board (2001).

**Sishen Expansion Project (SEP1):**

Ongoing environmental advisory services. Review of environmental assessment on behalf of client. Drafting of the environmental chapter of the project feasibility report. For Kumba Resources, Northern Cape, SA (2004-2005).

**Lafarge Ninians Quarry:**

Scoping assessment. Environmental management programme review and update. For the Mineral Corporation, KZN, SA (2004).

**Platreef Platinum Mine:**

Environmental baseline studies. For African Minerals. Limpopo, SA (2002-2004).

**Thermal Power Plants:**

Review and editing of final draft environmental guidelines for ten southern African countries. For Southern African Power Pool (SAPP) (2002).

**Secunda Filling Station and Shopping Centre Development:**

Environmental assessment. For private client. Mpumalanga, SA (2004).

**Engen Petroleum Plant Expansion:**

Environmental assessment (initial phase). For Engen Petroleum, KZN, SA (2003-2004).

**My Acre of Africa Conservation Education Centre in the Kruger National Park:**

Site selection. Environmental impact assessment. Environmental design criteria. Environmental management plan. For My Acre of Africa Management Company. Mpumalanga and Limpopo, SA (2002-2004).

**Transkalahari Highway Pre-Feasibility Study:**

Environmental screening assessment. For Department of Roads. Namibia, (2003).

**Windhoek to Walvis Bay 200kV power line:**

Environmental impact assessment. For NamPower. Namibia (2000-2002).

**Kgalagadi Transfrontier Park Mata-Mata and Grootkolk Rest Camps:**

Environmental management programme and social management plan. For SA National Parks Board, Northern Cape, SA (2003).

**Mooi-Mgeni River Water Transfer Scheme:**

Environmental screening assessment for associated infrastructure (roads, power lines, etc.). For Department of Water Affairs and Forestry and Umgeni Water Board, KZN, SA (1997-1998).

**Nkomazi-Mgeni Water Transfer Scheme associated infrastructure (tunnels; pipelines; access roads; power lines):**

Environmental screening assessment. For Department of Water Affairs and Forestry and Umgeni Water Board, KZN, SA (1997-1998).

**Mvoti River Feasibility Study:**

Environmental screening assessment for project associated infrastructure (roads, power lines, water treatment works, etc.). For Department of Water Affairs and Forestry and Umgeni Water Board, KZN, SA (1996).

**Rossway Quarry:**

Environmental management programme. For Lafarge. Gauteng, SA (1999).

**STRATEGIC PLANNING AND ASSESSMENTS****Twyfellaar Project:**

Strategic environmental screening assessment and site survey. Identification of environmental risks, costs and potential liabilities. For El Torro. Mpumalanga, SA (2014).

**New Largo Project:**

State of environmental report. Post-mining land use plan. Input into strategy for wetland offsets. For Anglo American Inyosi Coal. Mpumalanga, SA (2011-2013).

**Navachab Expansion Project:**

Develop sustainability design criteria and sensitivity maps. Adjudicate consultant proposals and tenders. Review environmental assessment reports produced by external environmental practitioners. Provide sustainability input into project option selection, design and planning. Participate in project risk assessments. For AngloGold Ashanti. Namibia (2012).

**Grootegeeluk Mine Closure Planning:**

Managing a process of developing a strategy for post-closure land use and rehabilitation. For Exxaro Resources. Limpopo, SA (2009-2012).

**Various Mining, Water and Infrastructure Development Projects:**

Providing strategic environmental and sustainability input and advice as part of multi-disciplinary project design and implementation teams (1998-2014).

**Maputo Corridor:**

Strategic environmental management plan. For Mpumalanga Department of Economic Affairs (1997-1998).

**Vanderbijlpark Riverfront (Vaal River):**

Strategic environmental planning. For Vanderbijlpark Town Council. Gauteng, SA (1995).

**Taung Dam Development:**

Strategic environmental planning. For Provincial Government, KZN, SA (1992).

**Giants Castle and Royal Natal National Park Tourism Development:**

Strategic environmental and tourism planning. For Natal Parks Board, KZN, SA (1991).

**CLOSURE AND REHABILITATION**

Environmental gap analysis and assessment of rehabilitation status at various prospecting sites. Assessment of rehabilitation requirements and costs to implement. Limpopo, SA (2017).

Mining and Processing Rehabilitation and Closure Cost Calculations: Various mining projects in southern Africa (2004-2017).

New Largo Coal Project: Conceptual end land use plan. Rehabilitation plan and closure objectives. On behalf of Anglo American Inyosi Coal. Mpumalanga, SA (2012-2013).

Sheeprun (Booysendal) Rehabilitation: Development and implementation of rehabilitation strategy for old prospecting drill sites and access routes, consultation with landowners. On behalf of Northam Platinum. Limpopo, SA (2009-2010).

Letšeng Diamond Mine: Annual update of rehabilitation and closure costing. For Letšeng Diamond Mine. Lesotho (2006-2009).

Kipushi Mine: Assessment of environmental liabilities of closed mine. On behalf of the Mineral Corporation and United Resources, Democratic Republic of the Congo (2007).

Graspan Mine: Rehabilitation and closure costing. For Shanduka Coal. Mpumalanga, SA (2006).

**STAKEHOLDER CONSULTATION, FACILITATION AND TRAINING**

Grootegeeluk Mine: Independent facilitation of public meeting for two new developments at the mine. On behalf of external environmental consultant (SLR Consulting), for behalf Exxaro Resources. Limpopo, SA (2014).

Environmental Law Training: Deliver environmental law training course for managers as part of ISO14001 environmental management system. For Aspen, on behalf of NOSA (2013).

Mentoring and training of Site Environmental Control Officers: In-house training of environmental control staff. Training of client appointed environmental control officers (2008-2015).

Mentoring of Environmental Assessment Professionals: In-house training of environmental assessment staff as EIA team leader and company director (2002-2015).

Development of General Authorisations Legal Framework: Facilitation of consultative workshop for the development of general authorisations. On behalf of Ninham Shand and Department of Water Affairs and Forestry (2004).

Grootegeeluk Mine: Independent coordinating and facilitating of annual consultative meeting with registered interested and affected parties.

Mbila Project: Extensive community participation process in various rural villages. Coordination of household survey and data collection process. Training of meeting facilitators. Conduct meetings with municipal councillors, traditional councillor, interest groups, tribal leaders and chief. For Minerals Technologies International, KwaZulu Natal, SA (2006-2008).

My Acre of Africa Conservation Education Centre in the Kruger National Park: Conduct community participation and authority consultation, including extensive consultation with neighbouring rural communities. For My Acre of Africa Management Company. Mpumalanga and Limpopo, SA (2002-2004).

Development of Information Documents for Environmental Assessment (Roads, Telecommunication, Residential Development, Transmission Lines and Filling Stations): Facilitation of workshops with government officials and consultants in all nine provinces. For the Department of Environmental Affairs and Tourism (2003).

Transkalahari Highway Pre-Feasibility Study: Conduct public participation and authority consultation in all towns along the route. For Department of Roads. Namibia, (2003).

Rand Water Pipeline Feasibility Study (Clarens to Suikerbosrand): Conduct authority consultation and public participation along extensive pipeline route as part of overall feasibility study. For Rand Water. Gauteng and Orange Free State (2001).

Chloorkop Landfill Gas Extraction Project: Conduct public participation and authority consultation as part of EIA. For EnviroServ. Gauteng, SA (2005-2006).

Development of a Canal at Florida lake: Public participation process. For Exigent Environmental Consultants. Gauteng, SA (2004).

Saldanha Steel Smelter: Assist with environmental monitoring committee meetings. Western Cape, SA (1995-1996).

Maputo Corridor: Assist with consultative meetings throughout Mpumalanga Province as part of strategic assessment. For Mpumalanga Department of Economic Affairs (1997-1998).

Environmental induction training: for construction workers (2002) and for management staff (2016, 2017).

Sustainable development: Nelson Mandela By University Graduate School. Teaching one module as part of the MBA module on sustainable development (2015 and 2016).

Mine Closure: Planning and costing, and assessment of the environmental feasibility of projects. Develop and facilitate two training modules at the Council of Geoscience. On behalf of the Mineral Corporation (2006).

## **PAPERS AND PUBLICATIONS**

Numerous project-related technical reports (1997-2017).

'Using environmental offsets as a strategy to achieve sustainable development'. Paper presented at the International Association for Impact Assessment Conference (2008).

'Raising the Image of Environmental Impact Assessments from a mere Legal Requirement to a Proactive Planning Tool'. Paper presented at the International Association for Impact Assessment Conference (2006).

Author of five environmental guideline documents for the Department of Environmental Affairs and Tourism. "Residential Development: Information Document for Environmental Assessment", "Roads: Information Document for Environmental Assessment", "Service Stations (Retail and Consumer Installations): Information Document for Environmental Assessment", and "Telecommunication Structures: Information Document for Environmental Assessment" (2003).

'Putting Promises into Practise': A critical look at what it takes to implement and deliver (practice) the decisions (promises) made in the environmental assessment phase during project implementation and construction management. Paper presented at the International Association for Impact Assessment Conference (2001).

'Khayalami Metropolitan Area Integration of Environmental and Land Development Objectives'. Paper presented at the conference: SA Planning Institution, Pretoria (1998).

'Integrated Urban Development and Land Development Objectives for Khayalami Metropolitan Council'. Paper presented at the International Association for Impact Assessment Conference (1997).