

APPENDIX A

QUALIFICATIONS OF EAP - CV

For the De Beers Demolition Works Basic Assessment Report and Environmental Management Plan

July 2017

Practitioner Statement - Chrizette Deona Neethling

(Updated: 2016)

Service Provider

- **EndemicVision Environmental Services Pty (Ltd)**
- www.endemicvision.co.za

Contact Person

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Qualifications

- MSc Environmental
- BSc - Honours
- BA with specialization in Environmental Management
- ND Nature Conservation Management
- NC Business Management

Experience Profile - since 1995

- Biodiversity and Conservation management - Natal Parks Board, Big Game Parks Swaziland, Cape Nature Conservation - Karoo Region and Cape Metropol Area
- Environmental Law Enforcement - Cape Nature Conservation - Karoo Region and Cape Metropol Area
- Environmental Training - Cape Nature Conservation - Karoo Region, Anglo American - Northern Cape
- Environmental Auditing - Anglo American, Kumba Iron Ore - Northern Cape and Polokwane, SPH Kundalila - Northern Cape
- Project Management - Cape Nature Conservation - Karoo Region & Cape Metropol area, Kumba Iron Ore - Northern Cape, Anglo American - Northern Cape
- Operational Environmental Support - Kumba Iron Ore - Northern Cape, Xifati, - Gauteng, Anglo American - Northern Cape
- Risk Management - Anglo American - Northern Cape, Kumba Iron Ore - Northern Cape, Limpopo
- ISO 14001(2004) Environmental Management Systems - Anglo American - Northern Cape
- Mine Closure Management - Black Mountain Mine, Sishen Mine, Geosciences Division - Kumba Iron Ore
- Environmental Impact Assessments - Cape Nature Conservation - Karoo Region and Cape Metropol Area, Solek - Northern Cape, Black Mountain Mine - Northern Cape, De Beers Marine, De Beers Consolidated Mines - Northern Cape.
- Biodiversity Monitoring and Biodiversity Management Plans - Black Mountain Mine - Northern Cape, Sishen Mine - Northern Cape

Project Profile

| # | Start Year | Project | Company | Responsibility | Products | Project Team | Project Value | Project Type |
|---|------------|--|--|---|--|--------------|---------------|---|
| 1 | 1999 | WWF - Riverine Rabbit Conservation Project | WWF Western Cape Nature Conservation Northern Cape Nature Conservation | Inter-provincial project coordinator | Baseline monitoring. Environmental Education. Establishment of Nature Conservancies. | 8 | R0.5mil | Biodiversity management |
| 2 | 2000 | C.A.P.E. Stewardship Program | CapeNature | Klein Karoo project roll-out and implementation | Secured conservancies and formal conservation areas. | 3 | n/a | Biodiversity management |
| 3 | 2003 | C.A.P.E. Stewardship Program | CapeNature | Cape Metropol project roll-out and implementation | Contractual nature reserves and voluntary registered conservation areas. | 7 | n/a | Biodiversity management |
| 4 | 2006 | Anglo American and Botanical Society of South Africa - Prospecting and biodiversity management in sensitive habitats | Anglo American Exploration Division | Biodiversity and Environmental management support | Best practice exploration management standards. A basic impact assessment and Environmental Management Plan Report amendment. First finalist for the Nedbank Mining Green Awards 2008. | 25 | R0.5m | Biodiversity management |
| 5 | 2007 | Black Mountain Tailings Deposition Facility Extension Project | Anglo American, Base Metals | Project facilitation and integration. | Integration of design into water and closure management. | 12 | R0.5mil | Impact Assessment and Planning |
| 6 | 2008 | Water Mass Balance and Storm Water Management Plan for Black Mountain | Anglo American, Base Metals | Project facilitation and integration. Water quality monitoring system. Integrated waste management plan. | Operational water mass balance for modelling. | 6 | R38k | Integrated environmental project management |
| 7 | 2008 | Black Mountain - Overland Slurry pipeline for underground backfilling | Anglo American, Base Metals | Environmental Impact Assessment | Environmental Impact Assessment Report | 2 | R67k | Impact Assessment and Planning |
| 8 | 2008 | Biodiversity Management Plan | Black Mountain Mining Pty Ltd | Compilation of biodiversity management strategy for non-mined areas with conservation area management plan and Terms of reference | Biodiversity Management Plan Conservation Area Implementation Plan Integrated Terms of Reference | 2 | R80k | Biodiversity management |

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| | | | | integrating legal requirements | | | | |
| 9 | 2009 | Conservation Management Site Evaluation | Haaskraal Farms | Conservation evaluation and recommendations | Conservation inspection report | 1 | R30k | Biodiversity management |
| 10 | 2009 | Environmental Compliance Audit | SPH Kundalila | Environmental evaluation and recommendations | Environmental Audit Report | 2 | R25k | Environmental compliance management |
| 11 | 2009 | Black Mountain Integrated Closure Plan | Anglo American, Base Metals | Closure plan model development. Environmental and biophysical input. | Integrated Closure Plan | 5 | R265k | Closure and Rehabilitation management |
| 12 | 2009 | Xifati EMP Review | Xifati Consulting | Operational and administrative compliance requirements of mining environmental management plan. | Environmental Audit Memo | 1 | R30k | Auditing |
| 13 | 2009 | Sishen Integrated Rehabilitation Strategy | Sishen Iron Ore Mine Pty Ltd | Biophysical Rehabilitation Management concept. Project Integration facilitation. Environmental Specialist studies. | Biophysical Rehabilitation Plan Compost Management Plan Visual Impact Assessment Legal Compliance Gap Analysis Detailed vegetation survey report Best practice rehabilitation gap analysis Monitoring and Maintenance report | 6 | R1.5mil | Closure and Rehabilitation management |
| 14 | 2010 | Kumba Geosciences Division Strategic Closure Planning | Kumba Geosciences Division | Strategy concept, design and implementation. | Strategic Closure Plan | 6 | R160k | Closure and Rehabilitation management |
| 15 | 2010 | Screening Environmental Evaluation for Alternative Energy | Solek Engineering | Environmental evaluation and recommendations | Screening Report | 2 | R30k | Impact Assessment and Planning |
| 16 | 2010 | Environmental legal training | Kumba Geosciences Division | Training of managers, supervisors and contractors | Environmental legal training manual | 2 | R0.5mil | Training |
| 17 | 2010 | Exploration concurrent rehabilitation | Kumba Geosciences Division | Independent closure quantum assessment Concurrent rehabilitation Rehabilitation monitoring | Closure plan Rehabilitation schedule Closure quantum report | 2 | R0.75mil | Closure and Rehabilitation management |

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| 18 | 2010 | AEW Management | Kumba Geosciences Division | Ensure compliance and improvement on best practice EMS | Best practice gap analysis Environmental and Chemical Risk Assessments Management Action Plans | 6 | R0.8mil | Integrated environmental project management |
| 19 | 2010 | Sishen Prospecting Environmental Support | Sishen Iron Ore Mine Pty Ltd | Ensure environmental compliance of prospecting rights | Environmental performance reports Rehabilitation and closure quantum review reports Environmental inspection reports | 5 | R300k | Environmental compliance management |
| 20 | 2011 | Sishen Concurrent rehabilitation | Sishen Iron Ore Mine Pty Ltd | Conceptual and Detailed Design of the rehabilitation works for the North Eastern section of the G80 Dump. Tender process and appointment of biophysical contractor. Project Management, quality control and monitoring | Conceptual Rehabilitation Design Detailed Rehabilitation Design Appointed biophysical contractor Rehabilitation works | 2 | R0.5mil | Closure and Rehabilitation management |
| 21 | 2011 | Black Mountain Storm Water Management Project Phase II | Anglo American, Base Metals | Environmental legal audit. Design alignment to environmental requirements | Regulation 704 Audit | 3 | R204k | Environmental compliance management |
| 22 | 2011 | Conversion of old order Waste permits to new order waste licenses | De Beers Namaqualand Mines | Environmental Impact Assessment Public participation process Waste license application | Environmental Management Plan | 2 | R40k | Impact Assessment and Planning |
| 23 | 2011 | Gamsberg Gap Analysis | Vedanta Plc | Legal permitting and gap analysis | Gap Analysis Report | 2 | R33k | Environmental compliance management |
| 24 | 2011 | Sishen Closure Planning Review | Kumba Iron Ore (Pty)Ltd | Product compilation. Team risk assessment facilitation | Strategically aligned closure plan for Sishen Mine | 8 | R0.6mil | Closure and Rehabilitation management |
| 25 | 2011 | Leinster Prospecting Right application | JK Consulting | Environmental Assessment and Management Plan compilation | Prospecting EMP | 2 | R67k | Impact Assessment and Planning |
| 26 | 2011 | Gamsberg Sustainable Development Management | Vedanta Plc | Project facilitation and integration, Sustainable Development Design, Stakeholder engagement process design, Biodiversity input. Management support | Legal Verification Report Sustainable Development Strategy Stakeholder Engagement Plan Reviewed ESIA process Reviewed Basic | 8 | R1.5mil | Integrated environmental project management |

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| | | | | | Assessment process | | | |
| 27 | 2011 | Project Environmental Compliance Evaluation | Anglo Thermal Coal | Legal compliance evaluation, operational input and evaluation, on-site training. | Compliance Report evaluating NWA, NEMA, MPRDA compliance | 2 | R58k | Environmental compliance management |
| 28 | 2011 | Black Mountain Biodiversity and Rehabilitation Survey | Anglo American, Base Metals | Sand mining, Exploration and Conservation Area vegetation analysis | Vegetation Survey Report | 2 | R60k | Biodiversity management |
| 29 | 2012 | Kolomela Closure Planning Review | Kumba Iron Ore (Pty)Ltd | Product compilation. Team risk assessment facilitation | Strategically aligned closure plan for Kolomela Mine | 8 | R250k | Closure and Rehabilitation management |
| 30 | 2012 | Kolomenal Rehabilitation Review | Kumba Iron Ore (Pty)Ltd | Product compilation. Team risk assessment facilitation | Initial rehabilitation strategy for Kolomela Mine | 8 | R300k | Closure and Rehabilitation management |
| 31 | 2012 | EMPR Amendment for mine extension - Sishen Mine | AGES | Environmental and Biophysical alignment Biophysical closure cost updating | Updated EMPR for mine extension | 16 | R1.5mil | Impact Assessment and Planning |
| 32 | 2012 | Impact Evaluation for the development of the Komaggas Bridge | De Beers Consolidated Mines | Regulatory consultation, ecological assessment, stakeholder engagement, impact assessment | Ecological Assessment Report Environmental Management Plan Environmental Impact Assessment Basic Assessment Report | 4 | R50k | Impact Assessment and Planning |
| 33 | 2012 | Waste utilisation feasibility | Anglo American Technical Division | Coordinate and conduct feasibility study to reuse sewage waste for mine rehabilitation purposes. | Feasibility report | 4 | R40k | Environmental Risk Management |
| 34 | 2012 | Environmental Assurance | Bestwood Securitisation | Environmental compliance review Environmental control inspections | ECO reports Compliance review report | 4 | R45k | Auditing |
| 35 | 2012 | Sishen Prospecting Rehabilitation monitoring | Sishen Iron Ore Mine Pty Ltd | Evaluate recovery of impacted areas | Rehabilitation progress inspection reports | 3 | R100k | Closure and Rehabilitation management |
| 36 | 2012 | Zandriesspoort Rehabilitation | Kumba Exploration | Design, implement and monitor concurrent rehabilitation | Rehabilitated areas | 2 | R300k | Closure and Rehabilitation management |
| 37 | 2013 | Thabazimbi Planning Review | Kumba Iron Ore (Pty)Ltd | Product compilation. Team risk assessment facilitation | Strategically aligned closure plan for Thabazimbi Mine | 8 | R250k | Closure and Rehabilitation management |

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| 38 | 2013 | Biodiversity Authorisation | Vedanta Plc | Assessment of protected species and application to remove and relocate protected species | Environmental authorisations | 2 | R62k | Biodiversity management |
| 39 | 2013 | Environmental Authorisation for the Vryburg Waste Water Treatment Works | Dr. Ruth S Mompoti District Municipality | Secure environmental authorisations for construction of new sewage treatment works and demolition of old works. | Full EIA, Scoping and EMP Reports Waste Licence Water Use Licence | 10 | R40mil | Impact Assessment and Planning |
| 40 | 2013 | R575 Road Diversion Environmental Authorisation | Shanduka Coal | Secure environmental authorisations for construction of bypass provincial road | Full EIA, Scoping and EMP Reports | 5 | R16mil | Impact Assessment and Planning |
| 41 | 2013 | Environmental Training | Bestwood Securitisation | Environmental training | Environmental training manual | 4 | R30k | Training |
| 42 | 2013 | BMM Biodiversity Action Plan | Black Mountain Mining Pty Ltd | Design and compile an integrated biodiversity management plan with conservation action plan and alignment to legal monitoring requirements | Biodiversity Action Plan Conservation Area Management Plan IUCN Review | 3 | R70k | Biodiversity management |
| 43 | 2013 | NFA DENC applications | Bestwood Securitisation | Facilitate application process on behalf of client | Submitted application forms | 1 | R10k | Impact Assessment and Planning |
| 44 | 2013 | Environmental Authorisation: Above Ground Diesel Storage | De Beers Marine | Secure environmental authorisations for construction of aboveground diesel storage | Basic Environmental Impact Assessment Environmental Management Plan | 3 | R250k | Impact Assessment and Planning |
| 45 | 2013 | Sishen In-pit Risk Assessment | Sishen Iron Ore Mine Pty Ltd | Evaluate Risk Assessment Approach Complete Risk Assessment | Risk Assessment Emergency Response Plan Risk Management Action Plan | 5 | R65k | Environmental Risk Management |
| 46 | 2014 | Sishen Surface Water Risk Assessment | Sishen Iron Ore Mine Pty Ltd | Evaluate Risk Assessment Approach Complete Risk Assessment | Risk Assessment Emergency Response Plan Risk Management Action Plan | 5 | R65k | Environmental Risk Management |
| 47 | 2014 | Agboau Environmental Management System | Endeavour Mining Pty Ltd | Evaluate, design and compile EMS for new operation | EMS Manual EMS Procedures and Action Plans EMS Management Maps | 4 | R450k | Integrated environmental project management |
| 48 | 2014 | Biodiversity Authorisation | Black Mountain Mining Pty Ltd | Assessment of protected species and application to remove and relocate protected species | Environmental authorisations | 2 | R45k | Biodiversity management |

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| 49 | 2014 | Biodiversity Management Plan | Black Mountain Mining Pty Ltd | Updating of biodiversity management plan | Consolidated compliance report Conservation Area Management Plan Biodiversity Management Plan | 3 | R100k | Biodiversity management |
| 50 | 2014 | Sishen Biodiversity Monitoring | Sishen Iron Ore Mine Pty Ltd | Monitoring Protocol Review and Design, Sensitive habitats, Fauna, Flora monitoring implementation | Monitoring Protocol Monitoring Reports Biodiversity Trends and Action Plans | 6 | R3mil | Biodiversity management |
| 51 | 2014 | G80 Concurrent rehabilitation | Sishen Iron Ore Mine Pty Ltd | Conceptual and Detailed Design of the biophysical rehabilitation works for the North Eastern section of the G80 Dump. Tender process and appointment of biophysical contractor. Project Management, quality control and monitoring | Conceptual Biophysical Rehabilitation Design Detailed Biophysical Rehabilitation Design Appointed biophysical contractor Rehabilitation works Rehabilitation monitoring | 9 | R1.5mil | Closure and Rehabilitation management |
| 52 | 2015 | Biodiversity financial tracking tool | Black Mountain Mining Pty Ltd | Design and orient staff in objective based financial management tool | Biodiversity financial tracking tool | 2 | R60k | Biodiversity management |
| 53 | 2015 | Big syncline Prospecting Basic Assessment | Black Mountain Mining Pty Ltd | Environmental Assessment and Management Plan compilation | Prospecting EMP | 2 | R100k | Impact Assessment and Planning |
| 54 | 2015 | Ecological Study: Sishen Far South Pit | Sishen Iron Ore Mine Pty Ltd | Ecological assessment and EIA report | Ecological impact report | 1 | R65k | Impact Assessment and Planning |
| 55 | 2015 | Vryburg Quarry Mine Right Application | Vryburg | Facilitate mining right application and associated Scoping and Environmental Impact Assessment | Ecological specialist study report Surface water study report Visual impact study report EIA EMP | 2 | R200k | Impact Assessment and Planning |
| 56 | 2015 | KK Prospecting Right application | JK Consulting | Environmental Assessment and Management Plan compilation | Prospecting Right Prospecting EMP Prospecting Ecological specialist study Prospecting Water Study | 4 | R150k | Impact Assessment and Planning |
| 57 | 2015 | Sandham group of farms Prospecting Right application | JK Consulting | Environmental Assessment and Management Plan compilation | Prospecting Right Prospecting EMP Prospecting Ecological specialist study Prospecting Water Study | 4 | R170k | Impact Assessment and Planning |

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| 58 | 2015 | Kamieskroon Municipality WULA | De Beers Consolidated mines | Facilitate transfer of water use license | Water Report use license application | 3 | R65k | Impact Assessment and Planning |
| 59 | 2015 | Nama-khoi Municipality WULA | De Beers Consolidated mines | Facilitate transfer of water use license | Water Report use license application | 3 | R65k | Impact Assessment and Planning |
| 60 | 2016 | Vryburg Environmental Compliance and ECO | Dr Ruth S District Municipality | Project environmental control and monitoring | Environmental audit reports Water quality monitoring reports EMS document Legal register | 2 | R500k | Environmental compliance management |
| 61 | 2016 | BVI Screening | BVI Consulting | Legal screening of existing project requirements to commence construction | Legal screening memo Legal screening presentation | 2 | R56k | Environmental compliance management |
| 62 | 2016 | BMM Closure & Rehab Plan | Black Mountain Mining Pty Ltd | Compilation of closure and rehabilitation plan in terms of NEMA regs 2015 | Annual rehabilitation plan, Closure strategy update. | 4 | R85k | Closure and Rehabilitation management |
| 63 | 2016 | BMM Prospecting amendment | Black Mountain Mining Pty Ltd | Coordination of application and specialist studies for prospecting expansion project | Ecological study; application forms; Environmental Impact assessment | 4 | R150k | Impact Assessment and Planning |
| 64 | 2016 | Doornknie Prospecting right | Black Mountain Mining Pty Ltd | Coordination of application and specialist studies for prospecting expansion project | Ecological study; application forms; Environmental Impact assessment | 4 | R150k | Impact Assessment and Planning |
| 65 | 2016 | Swartberg Decline EIA | Black Mountain Mining Pty Ltd | Coordination of application and specialist studies for prospecting expansion project | Ecological study; Hydrological study; risk assessment; GA application EIA application forms; Environmental Impact assessment | 11 | R450k | Impact Assessment and Planning |
| 67 | 2016 | Kgalagadi Pipeline protected species permit | Royal HaskoningDHV (Pty) Ltd | Coordination and application of protected tree permits for 80km pipeline clearance | Application forms Assessment report Specimen and population estimates | 3 | R45k | Environmental compliance management |