



Kim Allan

Business Development Manager
WSP Environment & Energy South Africa

Career Summary

Kim is a senior associate with 10 years' consulting experience in South Africa, Namibia, Zimbabwe and the United Kingdom, and is the Business Development Manager for WSP Environment & Energy. She is responsible for managing and coordinating national business development as well as the implementation of the Key Account Management Programme, an initiative aimed at building and leading key client service delivery teams, coordinating services and regions and diversifying and growing client relationships.

Kim has been project manager on a number of large environmental authorisations for predominately industrial and mining clients. She has extensive integrated environmental management experience, including, environmental and social impact assessments, environmental management programmes, environmental management systems (ISO:14001) and systems development, environmental monitoring, closure planning, compliance auditing, waste management, environmental training and project management.

Her areas of expertise include *inter alia*:

- Integrated environmental management;
- Environmental risk assessments;
- Stakeholder engagement;
- Environmental legal compliance;
- Environmental audits;
- Environmental training;
- Waste management;
- Contaminated land studies; and
- Systems development and management.

Professional Qualifications

Education and Training

- Advanced Environmental Management Training Course - Aldo Leopold Institute, 2003;
- BSc (Honours) – Environmental Law and Environmental Management, University of the Witwatersrand, 2002;
- Microsoft Certified Systems Engineer - Training Connection, 1999; and
- BSc – Zoology and Environmental Science, University of Cape Town, 1998.

Professional Memberships

- Registered Environmental Assessment Practitioner with the Interim Certification Board, 2011; and
- Member of the Institute of Environmental Management and Assessment - Accredited Trainer, 2010.

Selected Relevant Experience

Project experience

INTEGRATED ENVIRONMENTAL MANAGEMENT

2011, Lower Orange Hydro Electric Power Scheme, NamPower, Namibia

An environmental pre-feasibility study to ascertain whether there were any environmental fatal flaws associated with the construction of nine mini hydro power stations along the Lower Orange River catchment between Moddersdrift in the west to Skuitdrift in the east.

2011, Kalahari Solar Power Project, Group Five Infrastructure (Pty) Ltd, South Africa

Environmental Impact Assessment under Equator Principle guidelines for a 500 MW generating plant, powered by a concentrated solar power farm covering 1600 ha and a solar technology research centre, on the farm Kathu 465 near the town of Kathu, Northern Cape.

2010, Revision and Alignment of Environmental Management Programme Reports, AngloGold Ashanti Limited, South Africa

The review and update of AngloGold Ashanti's approved Environmental Management Programme Reports for its West Wits and Vaal River Operations in accordance with the Regulations promulgated in terms of the Mineral and Petroleum Resources Development Act (No. 28 of 2002).

2009, Environmental Impact Assessment for a Waste Shredding Facility, Lafarge Industries South Africa (Pty) Ltd, South Africa

The project involved the completion of an environmental impact assessment and waste management license application for the development of a facility for the sorting, shredding, blending and packaging of waste for transportation to Lichtenburg for use as alternative fuel in the cement kilns.

2008, Environmental Impact Assessment for Ethylene Purification Unit 5, Sasol Chemical Industries Limited, South Africa

Additional volumes of C2 material have been produced by Sasol Synfuels developments in Secunda. The existing C2 separation facilities will not be able to cope with this additional load on an ongoing basis, and therefore an environmental impact assessment was undertaken for the new EPU5 separation facility.

2008, Environmental Management Programme Amendment for the Precious Metals Refinery Expansion, Anglo Platinum Limited, South Africa

This project involved the development of an Environmental Management Programme Amendment for the proposed Precious Metals Refinery expansion programme that aimed to increase the throughput from 3.5 million oz per annum to 5.0 million oz per annum finished metal by the year 2014.

2008, Environmental Management Programme Amendment for the Waterval Phase 4 Ore Expansion, Anglo Platinum Limited, South Africa

This project involved the development of an Environmental Management Programme Amendment for the proposed ore replacement project to extend the life of Waterval Shaft by approximately ten years by supplementing the existing Central Shaft with the proposed West Shaft and its associated infrastructure.

2008, Environmental Management Programme Amendment for the Waterval Slag Furnace No. 2, Anglo Platinum Limited, South Africa

As Anglo Platinum will exceed the existing slag cleaning furnace design capacity installed at the Waterval Smelter Complex an Environmental Management Programme Amendment was completed for the proposed installation of a new slag cleaning furnace.

2007, Environmental Management Programme Amendment for Additional Ventilation Shafts, Anglo Platinum Limited, South Africa

One comprehensive Environmental Management Programme Amendment for the establishment of approximately 15 new ventilation shafts (upcast and downcast) along with main fan systems and refrigeration plants for the Waterval, Bleskop, Boschfontein, Brakspruit and Townlands Mines.

2007, AngloGold Ashanti Limited – Environmental Management Programme Amendment Tau Tona and Savuka Waste Rock Dumps, South Africa

This project comprised a comprehensive Environmental Management Programme Amendment for the establishment and operation of a crushing and screening plant adjacent to the Tau Tona Waste Rock Dump and an additional crushing facility at the existing Savuka Waste Rock Dump within the West Wits Operations in Carltonville.

ENVIRONMENTAL MANAGEMENT SYSTEMS (ISO 14001:2004)**2008, EMS Planning, Denel Land Systems, South Africa**

This project entailed the Phase 1: EMS Initiation and Phase 2: EMS Preparation / Planning, which typically forms the 'Planning' component of an ISO 14001:2004 EMS for Denel Land Systems.

2007, EMS Legal and Compliance Auditing, City of Johannesburg, South Africa

An internal compliance audit was undertaken for the completion of the development and implementation phases for the City of Joburg's EMS.

COMPLIANCE AUDITING

2011, Environmental Performance Assessment, AngloGold Ashanti Limited, South Africa

A formal assessment and verification audit of the Vaal river and West Wits Environmental Management Programme Reports was conducted in accordance with Regulation 55 of the Mineral and Petroleum Resources Development Act (No. 28 of 2002).

2010, National Legacy Report, Department of Environmental Affairs, South Africa

The National Legacy Report project included a comparison with international best practice, an analysis of greening events, practical applications of the municipal greening business plans and strategies, results and progress of greening initiatives implemented and conclusions and predictions of greening legacy associated with the FIFA 2010 event.

2009, Environmental Compliance Audit, General Electrics, South Africa

This project included the compilation of the environmental component of the annual fire, safety and health, and environmental audit for General Electric's facilities in Midrand.

2003/2004, Annual Legal Compliance Audits, South Africa

Annual compliance audits for a number of organisations, including, Mondi, Sappi, Impala Platinum, Ticor, South Africa National Parks and Phinda Private Game Reserve.

ENVIRONMENTAL TRAINING

2008, Environmental Awareness Training, Anglo Platinum Limited, South Africa

The environmental awareness training course was specifically designed to meet Anglo Platinum's requirements and included an introduction to environmental legislation, policies and procedures and project specific environmental authorisation requirements.

2007, EMS Internal Auditors Training, Consol Glass (Pty) Ltd, South Africa

The internal auditor course provided the employees of Consol Glass knowledge and practical experience in EMS auditing within the industrial sector. The course was designed to meet the auditor training requirements in the International Standards ISO 14001:2004 and Auditing Standard ISO 19011 that incorporate the requirements of ISO 14010 –12. The course is accredited in the UK by the Institute of Environmental Management and Assessment (IEMA).

2003/2004, Train-the-Trainer, South Africa

The development and facilitation of employee and train-the-trainer courses for a number of organisations, including: Mondi, PFG, Sasol and FFS Refiners.

WASTE MANAGEMENT

2010, Enstra Mill Waste Management Licensing, Sappi Manufacturing (Pty) Ltd, South Africa

Environmental authorisation in the form of a waste management license was obtained for three waste sites at the Enstra Mill in Springs.

2010, Integrated Waste Management Plan, Anglo Platinum Limited, South Africa

The project incorporated the development of a baseline waste management report and an integrated waste management plan that included waste management standards, a waste management procedure and an implementation plan for the mine and processing facilities in Rustenburg.

2010, Environmental Authorisation for a Waste Resource Recovery Facility, Veolia Environmental Services South Africa (Pty) Ltd, South Africa

The compilation of an environmental impact assessment and waste license application for a resource recovery facility to be used primarily for the recycling, re-processing and treatment of a range of liquid and solid waste streams.

CLOSURE PLANNING

2010, Closure Management Plan, Rio Tinto Group, Murowa Diamonds (Private) Limited, Zimbabwe

Development and compilation of a closure management plan for the Murowa Diamond Mine, in Zimbabwe, with specific focus on waste, water, soil, biodiversity, contaminated land, community liaison, closure targets, selection criteria, risk assessment and closure cost estimate. Socio-economic and biophysical environmental factors were identified and assessed to ensure optimal solutions for all stakeholders were provided for in the advent of mine closure.

CONTAMINATED LAND

2005/2006, United Kingdom

Kim was the commercial manager for a contaminated land consultancy based in Brighton, in the United Kingdom. There she was involved in contaminated land reporting, environmental insurance broking, detailed desk-based reports, fully interpreting and risk-rating all commercial reports, consulting with local authorities and undertaking site investigations.

SYSTEMS DEVELOPMENT AND MANAGEMENT

2003/2004, South Africa

Kim was involved in the creation, development and management of two separate on-line legal registers: the environmental suite and the health and safety suite. The online systems include a legal register, full text of the legislation, legal updating service to all users via e-mail, links with client specific aspects and risks, legal compliance statistics based on audit results, integrated aspects register, integrated permit register and a comprehensive resources database containing policies, application forms, court cases, government contact details and published guidelines.



Brent Holme

Senior Consultant
WSP Environment & Energy South Africa

Career Summary

Brent is a senior environmental consultant with five years' consulting experience. He has been project manager on a number of large environmental authorisations for predominately industrial and mining clients. Brent has extensive integrated environmental management experience, including, environmental impact assessments, environmental management programmes, environmental monitoring, compliance auditing and monitoring, waste management, environmental training, project management and general environmental support.

His areas of expertise include *inter alia*:

- Integrated environmental management and environmental authorisations (basic assessments and environmental impact assessments);
- Environmental Management programme amendments;
- Environmental risk assessments;
- Stakeholder engagement;
- Environmental legal compliance;
- Environmental compliance monitoring, including environmental performance assessment report monitoring;
- Waste management, including waste management license authorisations and developing industry waste management plans;
- Environmental support services; and
- Project management.

Please note – only a selection of relevant projects in particular areas of expertise have been detailed below.

Professional Qualifications

Education and Training

- Environmental Law Course – Centre for Environmental Managers at the University of Potchefstroom, 2010;
- BSc (Hons): Geography, with Environmental Sciences – University of Johannesburg, 2006; and
- BSc: Geography and Environmental Management – University of Johannesburg, 2006.

Selected relevant experience

Project experience

INTEGRATED ENVIRONMENTAL MANAGEMENT

Ongoing, Yzermyn Underground Coal Mine, Atha Mining Services (Pty) Ltd, South Africa

Environmental impact assessment and the development of an environmental management programme report in accordance with the National Environmental Management Act (No. 107 of 1998), the Minerals and Petroleum Resources Development Act (No. 28 of 2002), the Equator Principles and the International Finance Corporation requirements for a 2,500 hectare greenfields coal mine near Wakkerstroom in Mpumalanga Province.

2012, Anglo Platinum Tar Dams Remediation Project, Anglo American Platinum Limited, South Africa

Project involved the necessary environmental authorisation required for the removal and remediation of four tar residue dams within the Rustenburg Platinum Mines mine lease area near Rustenburg, North West Province. Basic assessment process was required in order to receive authorisation for the decommissioning of the dams and to receive a waste management license for the remediation activities associated with the tar dams project.

2011, Kalahari Solar Power Project, Group Five Infrastructure (Pty) Ltd, South Africa

Environmental Impact Assessment under Equator Principle guidelines for a 500 MW generating plant, powered by a concentrated solar power farm covering 1600 ha and a solar technology research centre, on the farm Kathu 465 near the town of Kathu, Northern Cape.

2011, Kleinkopje Colliery 2A Pollution Control Dam Relocation Project, Anglo Operations Limited; Kleinkopje Colliery, South Africa

Under took an environmental impact assessment and environmental management programme report in accordance with the relevant South African legislation for the relocation of Kleinkopje Colliery's existing 2A Pollution Control Dam. The project involved the relocation of the dam, installation of a reverse osmosis plant and the construction of two additional pollution control dams within Kleinkopje Colliery's mine lease area, near Witbank, Mpumalanga Province.

2009, Upgrading of BMW's Rosslyn Plant, BMW South Africa (Pty) Ltd, South Africa

Environmental authorisation was required in order to upgrade BMW's existing manufacturing plant for the production of BMW's new 3-Series motor vehicles, in Rosslyn Industrial Area, Gauteng Province. Authorisation was received in 2009 and construction for the upgrade of the plant commenced in 2010.

2009, Anglo Platinum Operations Procedure, Anglo American Platinum Limited, South Africa

Compiled the Operations Procedure for Anglo Platinum which assists managers in assessing the scopes of work required for projects. The procedure is a guideline which identifies the phases and what is required in each phase associated with an environmental authorisation.

2009, Landfill Gas Utilisation Project, Ener-G Systems (Pty) Ltd, South Africa

Environmental impact assessments were required prior to the installation of plants that utilise methane gas generated as a result of waste decay on landfills, which is flared to produce electricity. Ener-G Systems undertook separate authorisation processes for five landfill sites in and around Johannesburg, Gauteng Province.

ENVIRONMENTAL MANAGEMENT PROGRAMME DEVELOPMENT

2012, Waterval Smelter Slag Stockpile and Secondary Mill Project, Anglo American Platinum Waterval Smelter, South Africa

Scoping and environmental impact assessment in order to amend Waterval Smelter's existing environmental management programme report for the inclusion of the existing slag stockpile and new secondary slag mill. The environmental and socio-economic aspects of each component of the project was assessed in order to develop an environmental management programme report amendment document for the Waterval Smelter, near Rustenburg in North West Province.

2012, Stockyard Dam Relocation Project, Anglo Operations Limited: New Vaal Colliery, South Africa

Compiled an environmental management programme report for the relocation of the Stockyard and KSP dams on New Vaal Colliery's mining area, near Sasolburg, Free State Province. Due to the localised nature of the project, WSP was granted exemption from undertaking the stakeholder engagement process for the project by Free State Department of Mineral Resources.

2008, Tau Lekoa Mine Waste Rock Dump Screening Plant, AngloGold Ashanti: Tau Lekoa Mine, South Africa

Involved with the environmental management programme report amendment for the Tau Lekoa Mine Waste Rock Dump Screening Plant near Klerksdorp, North West Province.

COMPLIANCE MONITORING AND AUDITING

2008 – 2012, InvestChem Annual Environmental Compliance Monitoring, InvestChem (Pty) Ltd, South Africa

Conducted annual environmental compliance auditing for InvestChem's Sulphonation Plant in Kempton Park, Gauteng Province. The monitoring included InvestChem's compliance to various commitments contained in their environmental management programmes and conditions within their environmental authorisations (records of decision). The findings and observations are recorded and reported to InvestChem.

2009 – 2012, Various Performance Assessment Reporting for Anglo Operations Limited's Mines, Anglo American Operations Limited, South Africa

Undertook various environmental management programme report – performance assessment reports for Anglo Operation Limited Mines. Mines included Greenside Colliery, Landua Colliery, Kleinkopje Colliery, Isibonelo Colliery, New Vaal Colliery, New Denmark Colliery and Kriel Colliery. The assessments are a requirement of the Minerals and Petroleum Resources Development Act (No. 28 of 2002) and reports were compiled and submitted to the Department of Mineral Resources.

2011, AngloGold Ashanti West Wits and Vaal River Performance Assessment Report, AngloGold Ashanti, South Africa

Undertook an assessment of AngloGold Ashanti's West Wits and Vaal River's operations' environmental management programme reports. The assessment included the development of an electronic auditing tool, assessment and compilation of recommendations for each operation.

2009 and 2011, Performance Assessment Reporting for Anglo Platinum's Rustenburg Section (Mining and Processing), Anglo American Platinum Limited, South Africa

Assessed compliance to the various environmental management programme reports for the mining and processing operations at Anglo American Platinum's Rustenburg Section Mines, near Rustenburg in the North West Province. The assessment is a requirement of the Minerals and Petroleum Resources Development Act (No. 28 of 2002) and reports were compiled and submitted to the Department of Mineral Resources.

2009, Environmental Compliance Audit, General Electrics, South Africa

This project included the compilation of the environmental component of the annual fire, safety and health, and environmental audit for General Electric's facilities in Midrand.

2008 – 2010, NORA Collector and Processing Audits, ROSE Foundation, South Africa

Audited collectors and reprocessing oil plants for compliance to operating procedures developed by the ROSE Foundation during 2008 to 2010. Where non-conformance was observed, recommendations were made to assist the collectors and plants.

2008 – 2009, Sasolburg Roads Upgrade Project, Basil Read and WSP Civil and Structures, South Africa

Conducted environmental compliance monitoring for the Sasolburg P10/1 and P83/1 roads project near Sasolburg, Free State Province. The audit included compliance to the environmental management plan and environmental authorisation for the upgrading of the roads and associated infrastructure, including a number of bridges.

WASTE MANAGEMENT**2012, Industry Waste Management Plan, Transnet Rail Engineering, South Africa**

Developed an industry waste management plan for Transnet Rail Engineering's Koedoespoort (Gauteng, North West and Limpopo Provinces) and Durban (KwaZulu Natal) Regions. The project involved the identification of existing waste management practises within the regions (baseline conditions), assessment of the baseline conditions against legal requirements and best practices in order to develop objectives and targets for the gaps and issues identified. A waste management standard for each region was developed to assist with the implementation of the objectives and targets.

2012, Spray Drying Facility, InvestChem (Pty) Ltd, South Africa

Undertook a basic assessment process required for a waste management license for InvestChem's Spray Drying Facility in Kempton Park, Gauteng Province. The Spray Drying Facility utilises spent effluent rich in sodium sulphate and sodium sulphite generated from the sulphonation process, which is sent through a drying facility where water is vaporised and a sodium sulphate product is produced, which is sold as an additional commodity.

2011, Non-mineral Waste Guideline, Anglo American Limited, South Africa

Developed Anglo American's Non-mineral Waste Guideline that is being used for all of Anglo American's operations globally. The guideline assists relevant responsible personnel involved with Anglo American projects and 'managed operations' with effective non-mineral waste management. This involves a guideline relating to waste minimisation, classification, handling, storage and disposal of non-mineral waste thereby ensuring environmental protection at all Anglo American project areas and 'managed operations'.

2010, Resource Recovery Facility, Veolia Environmental Services (Pty) Ltd, South Africa

The compilation of an environmental impact assessment and waste license application for a resource recovery facility to be used primarily for the recycling, re-processing and treatment of a range of liquid and solid waste streams.

2010, Integrated Waste Management Plan, Anglo Platinum Limited, South Africa

The project incorporated the development of a baseline waste management report and an integrated waste management plan that included waste management standards, a waste management procedure and an implementation plan for the mine and processing facilities in Rustenburg.