



## Ashlea Strong

Principal Consultant  
WSP Environment & Energy South Africa

### Career Summary

Ashlea holds a Masters in Environmental Management; a BTech (Nature Conservation), and a National Diploma (Nature Conservation); She is also a Certified Environmental Assessment Practitioner of South Africa (CEAPSA). She has 13 years' experience in the environmental field.

She currently provides technical and strategic expertise on a diverse range projects in the environmental management field, including environmental scoping and impact assessment studies, environmental management plans, waste and water management, as well as the provision of environmental management solutions and mitigation measures. She has been involved in the management of a number of large EIAs within South Africa and has environmental auditing and training experience and expertise. Ashlea has a specific passion for training and energy sector projects.

Responsibilities over the years have included Unit / Team Management, Financial viability of the unit, Balancing of the unit's workload, Performance management, Mentoring of unit staff members, Promote, improve and ensure complete client care.

Her areas of expertise include:

- Project management
- Integrated environmental management
- Environmental impact assessments
- Environmental management programmes and plans
- Environmental auditing
- Environmental control and monitoring
- Environmental training
- Environmental feasibility and planning services

### Professional Qualifications

#### Education and Training

- Masters in Environmental Management, University of the Free State, 2006.
- B Tech Nature Conservation, Technikon SA, 2001.
- National Diploma in Nature Conservation, Technikon SA, 1999.
- SAQA US ID: 115753 – Conduct outcomes-based assessment (NQF Level 5), 2009.

## Professional Memberships

- Registered as Certified Environmental Assessment Practitioner of South Africa (CEAPSA) with the Interim Certification Board.

## Selected Relevant Experience

### ELECTRICITY SECTOR

#### **2012, Proposed Solar Park, Northern Cape Province, Central Energy Fund (CEF).**

This project involved the provision of process expertise for the compilation of an Environmental Impact Assessment and Environmental Management Plan for the proposed Solar Park in the Northern Cape Province.

#### **2012, Proposed Tabor – Nzhelele 400kV Transmission Lines and associated infrastructure, Limpopo Province, Eskom Transmission.**

This project involved the compilation of an Environmental Impact Assessment and Environmental Management Plan for a 100km 400kV powerline between Louis Trichardt and Musina in the Limpopo Province.

#### **2012, Retrofitting of the existing Electrostatic Precipitators with Fabric Filter Plants at Units 2,3 and 4 at the Grootvlei Power Station.**

This project involved the compilation of a Basic Assessment Report and Environmental Management Plan for the proposed retrofitting of the existing Electrostatic Precipitators with Fabric Filter Plants at the Grootvlei Power Station.

#### **2008, Proposed Mulilo Coal Fired Power Station and associated infrastructure as well as associated power lines and substations in the Musina area of the Limpopo Province, Parsons Brinkerhoff Africa and Mulilo Power.**

This project involved the compilation of an Environmental Impact Assessment and Environmental Management Plan for the proposed Mulilo Coal Fired Power Station and associated infrastructure as well as associated power lines and substations in the Musina area of the Limpopo Province.

#### **2008, Pebble Bed Modular Reactor Demonstration Plant and Associated Infrastructure, Western Cape Province, Eskom Generation.**

This project involved the compilation of an Environmental Impact Assessment and Environmental Management Plan for the proposed Pebble Bed Modular Reactor Demonstration Plant and Associated Infrastructure in the Western Cape Province.

#### **2008, Proposed Bantamsklip – Kappa 765 kV Transmission Lines and associated infrastructure, Western and Northern Cape Provinces, Eskom Transmission.**

This project involved the compilation of an Environmental Impact Assessment and Environmental Management Plan for four 260km 765kV powerlines between the Bantamsklip Nuclear Power Station Site and the proposed new Kappa Substation in the Karoo, Western Cape Province.

#### **2008, Proposed Bantamsklip – Bacchus, Bacchus - Kappa and Bacchus – Muldersvlei 400 kV Transmission Lines and associated infrastructure, Western and Northern Cape Provinces, Eskom Transmission.**

This project involved the compilation of an Environmental Impact Assessment and Environmental Management Plan for a number of 400kV powerlines between the Bantamsklip Nuclear Power Station Site and a number of substations, including Bacchus, Kappa and Muldersvlei, in the Western Cape Province.

**2008, Westgate – Tarlton – Kromdraai 132 kV Sub-Transmission line and associated infrastructure, Gauteng Province, Eskom Distribution – Central Region.**

This project involved the compilation of an Environmental Impact Assessment and Environmental Management Plan for the Westgate – Tarlton – Kromdraai 132 kV Sub-Transmission line and associated infrastructure in the Gauteng Province.

**2008, Environmental Scoping Study for the proposed new distribution line and substation for Eskom, Dundonald, Mpumalanga (also involved in the Public Participation Process), Eskom Distribution.**

This project involved the compilation of an Environmental Impact Assessment and Environmental Management Plan for a 132kV powerline as well as a new substation in the Tarlton area of Gauteng.

**2008, The proposed new 132 kV sub-transmission line between the Dinaledi and GaRankuwa substations for Eskom, GaRankuwa, North West Province, Eskom Distribution.**

This project involved the compilation of an Environmental Impact Assessment and Environmental Management Plan for a 132kV powerline between the Dinaledi and GaRankuwa substations in the GaRankuwa area of the North West Province.

**2008, Expansion of the Transmission powerline network and associated infrastructure between the Perseus substation and the Beta substation near the town of Dealesville in the Free State Province**

This project involved the compilation of an alignment specific construction Environmental Management Plan for the 13km 765kV Perseus Beta Turn-ins.

**2008, Westgate – Tarlton – Kromdraai 132 kV Sub-Transmission line and associated infrastructure, Gauteng Province, Eskom Distribution – Central Region.**

This project involved the compilation of an Environmental Impact Assessment and Environmental Management Plan for a 132kV powerline as well as a new substation in the Tarlton area of Gauteng.

**2008, Basic Assessment for the proposed Watershed – Mmabatho 88kV Power line. North West Province, Eskom Distribution – Central Region.**

This project involved the compilation of a Basic Assessment and Environmental Management Plan for a new 88kV powerline near Mmabatho in the North West Province.

**2007, Proposed Watershed – Mmabatho 88kV Power line. North West Province, Eskom Distribution – Central Region.**

This project involved the compilation of an Environmental Impact Assessment and Environmental Management Plan for the Watershed – Mmabatho 88kV Power line in the North West Province.

**2007, Proposed Combined Cycle Gas Turbine Plant and Associated Infrastructure near Majuba, Mpumalanga, Eskom Holdings.**

This project involved the compilation of an Environmental Impact Assessment and Environmental Management Plan for the proposed Combined Cycle Gas Turbine Plant and Associated Infrastructure near Majuba in the Mpumalanga Province

**2006, Proposed Capacity Increase of the Atlantis OCGT Plant and Associated Infrastructure, Western Cape Province, Eskom Generation.**

This project involved the compilation of an Environmental Impact Assessment and Environmental Management Plan for the proposed Capacity Increase of the Atlantis OCGT Plant and Associated Infrastructure in the Western Cape Province.

**2006, Proposed Concentrated Solar Thermal Plant in the Northern Cape, Eskom Holdings.**

This project involved the compilation of an Environmental Impact Assessment and Environmental Management Plan for the proposed Concentrated Solar Thermal Plant near Upington in the Northern Cape Province.

**2006, Proposed Underground Coal Gasification plant, Eskom, Mpumalanga, Eskom Holdings.**

This project involved the compilation of an Environmental Impact Assessment and Environmental Management Plan for the proposed Underground Coal Gasification plant near the Majuba Power Station in the Mpumalanga Province.

**2005, Proposed new Coal-fired Power Station in the Lephalale Area for Eskom, Limpopo Province, Eskom Generation.**

This project involved the compilation of an Environmental Impact Assessment and Environmental Management Plan for the proposed new Coal-fired Power Station in the Lephalale Area in the Limpopo Province.

**2005, Proposed Open Cycle. Gas Turbine Power Station at Atlantis for Eskom, Western Cape, Eskom Generation.**

This project involved the compilation of an Environmental Impact Assessment and Environmental Management Plan for the proposed Open Cycle. Gas Turbine Power Station at Atlantis in the Western Cape Province.

## INFRASTRUCTURE SECTOR:

**2013, Proposed Expansion of the Cremation Facilities at the Envirocin Pet Crematorium, Envirocin, Gauteng Province**

This project involves the compilation of a basic assessment for the expansion of the cremation facilities at the Envirocin Pet Crematorium in Kyasands, Gauteng Province.

**2013, Proposed Kraft Paper Mill in Frankfort, Industrial Development Corporation of South Africa**

This project involved the undertaking of an Environmental Impact Assessment, including the compilation of an Environmental Management Programme, for the proposed establishment of a KRAFT paper mill in Frankfort in the Free State Province.

**2011, Rehabilitation of the N14 between Delerayville and Sannieshof, North West Province, SANRAL.**

This project involved the compilation of a Basic Assessment and Environmental Management Plan for the upgrading of the N14 between Sannieshof and Delerayville as well as the construction of a new bridge over the Hartsriver. This project also included the compilation of Water Use License and Mining Permit Applications.

**2011, Proposed new Waterfall Cemetery, Limpopo Province, Makhado Municipality.**

This project involved the compilation of a Basic Assessment and Environmental Management Plan for the new Waterfall Cemetery, Limpopo Province.

**2008, Route determination of the proposed Metro Boulevard, Gauteng Province, Johannesburg Roads Agency.**

This project involved the undertaking of an Environmental Impact Assessment for the route determination of the proposed Metro Boulevard in the Weltevreden Park Area of the Gauteng Province.

**2007, Proposed new fuel supply pipeline between Milnerton and Atlantis, Eskom Generation, Western Cape Province.**

This project involved undertaking an Environmental Impact Assessment for the proposed new fuel supply pipeline between Milnerton and Atlantis to supply the Ankerlig Power Station in the Western Cape Province.

## MINING SECTOR

**2013, Establishment of the Proposed Rietvlei Opencast Coal Mine, Rietvlei Coal Company, Mpumalanga Province**

This project involves the undertaking of an integrated environmental authorisation process, including an Environmental Impact Assessment, Environmental Management Programme Report, Waste Management

License Application and Water Use License Application, for the establishment of an opencast coal mine north of Middelburg.

**2013, Decommissioning of Redundant Infrastructure at the Vaal River Operations, AngloGold Ashanti, North West and Free State Provinces**

This project involves undertaking an integrated Environmental Authorisation and Waste Management License process for the proposed decommissioning of redundant infrastructure at AngloGold Ashanti's Vaal River Operations.

**2013, Decommissioning of Redundant Infrastructure at the West Wits Operations, AngloGold Ashanti, Gauteng Provinces**

This project involves undertaking a Basic Assessment process for the proposed decommissioning of redundant infrastructure at AngloGold Ashanti's West Wits Operations.

**2011, Inyanda Mine Pegasus South Expansion, Mpumalanga, Exxaro Coal (Pty) Ltd.**

This project included the compilation of an Environmental Impact Assessment, Environmental Management Plan, the Amendment of the existing Environmental Management Programme Report and the amendment of the existing Water Use License for the Inyanda Mine Pegasus South Expansion project, north of Middelburg in the Mpumalanga Province.

**2010, Sishen Infrastructure Program, Northern Cape Province, Sishen Iron Ore (Pty) Ltd.**

This project involved the compilation of an Environmental Impact Assessment and an Environmental Management Plan for the infrastructure expansion programme proposed by the Sishen Mine in the Northern Cape.

**2011, Prospecting Permit Applications in the Kuruman area of the Northern Cape, Sound Mining Solutions.**

This project involved the compilation of Environmental Management plans as part of six applications for Prospecting Permits in the Kuruman area of the Northern Cape.

**2010, Borrow pits required by the Limpopo Department of Roads and Transport.**

This project involved the compilation of Environmental Management plans as part of the applications for Mining Permits for borrow pits required for the rehabilitation of provincial roads in the Limpopo Province.

**2008, Borrow pits required for the Medupi Coal Fired Power Station, Limpopo Province, Eskom Generation.**

This project involved the compilation of Environmental Management plans as part of the applications for Mining Permits for borrow pits required for the Medupi Coal Fired Power Station in the Limpopo Province.

**2008, Borrow pits required for the Ingula Pumped Storage Scheme, KwaZulu-Natal, Eskom Generation.**

This project involved the compilation of Environmental Management plans as part of the applications for Mining Permits for borrow pits required for the Ingula Pumped Storage Scheme in the Kwa-zulu Natal Province.

**2007, Project Manager, Mining Right Application for a 23 Hectare Borrow Pit required for the Steelpoort Pumped Storage Scheme, Mpumalanga, Eskom Generation.**

This project entailed the compilation of the required Environmental Management Programme Report in support of a Mining Right Application for a 23 Hectare Borrow Pit required for the Steelpoort Pumped Storage Scheme in the Mpumalanga Province.

**2004, Renewed Mining and Prospecting Activities on the farm Quaggaskop 215, Vanrhynsdorp, Western Cape, Minexpo.**

This project involved the compilation of an Environmental Management Programme Report for the recommencement of mining and prospecting activities on the farm Quaggaskop 215 outside Vanrhynsdorp in Western Cape Province.

## WASTE MANAGEMENT PROJECTS

### **2012, Proposed continuous Ashing at Majuba Power Station, Mpumalanga.**

This project entailed the compilation Environmental Impact Assessment and Waste Management License Application for the proposed continuous ashing project at the Majuba Power Station in Mpumalanga.

### **2012, Proposed continuous Ashing at Tutuka Power Station, Mpumalanga.**

This project entailed the compilation Environmental Impact Assessment and Waste Management License Application for the proposed continuous ashing project at the Tutuka Power Station in Mpumalanga.

### **2011, Proposed extension of Ash Dams at Hendrina Power Station, Mpumalanga.**

This project entailed the compilation Environmental Impact Assessment and Waste Management License Application for the proposed extension of the ash dams at the Hendrina Power Station in Mpumalanga.

## SPECIALIST PROJECTS:

### **2008, Strategic Environmental Assessment for the Development. Master Plan Greater Port Harcourt, Rivers State, Nigeria.**

This project entailed the compilation of a Strategic Environmental Assessment for the City of Port Harcourt as part of the development of the Master Plan for the Greater Port Harcourt Area.

### **2006, Development of an Environmental Policy for the Ekurhuleni Metropolitan Municipality, Gauteng.**

This project entailed the development and compilation of an environmental policy for the Ekurhuleni Metropolitan Municipality.

### **2005, Development of the Integrated Environmental Policy for the City of Tshwane Metropolitan Municipality, Gauteng.**

This project entailed the development and compilation of an environmental policy for the City of Tshwane Metropolitan Municipality.

### **2007, Environmental Input into the National Transport Master Plan**

This project included the provision of strategic environmental input in to the Draft National Transport Plan.

### **2006, Development of the Development Corridors for the Ekurhuleni Metropolitan Municipality.**

This project included the provision of strategic environmental input in to the Ekurhuleni Metropolitan Municipalities Development Corridor Study.

### **2005, Environmental scan of the Greater Denneboom Area for inclusion in the Integrated Transport Plan for the Greater Denneboom Area, Gauteng.**

This project included the provision of strategic environmental input in to the Integrated Transport Plan for the Greater Denneboom area in Gauteng.

## AUDITING

### **2013, EMPR Performance Assessment Report for the Landau Colliery, Anglo Thermal Coal, Mpumalanga Province**

This project involved the formal assessment and verification of the Landau Colliery Environmental Management Programme Report, conducted in accordance with Regulation 55 of the Mineral and Petroleum Resources Development Act (No. 28 of 2002).

**2013, Waste Management License Audit for the Slagment Operation, AfriSam Southern Africa (Pty) Ltd, Vanderbijlpark, Gauteng Province**

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.

**2013. InvestChem Annual Environmental Compliance Monitoring, InvestChem (Pty) Ltd, South Africa**

This project involved the 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).

**2007 and 2006, EMPR Performance Assessment Report for the New Vaal Colliery, Anglo Coal, Free State.**

This project involved the formal assessment and verification of the New Vaal Colliery Environmental Management Programme Report, conducted in accordance with Regulation 55 of the Mineral and Petroleum Resources Development Act (No. 28 of 2002).

**ENVIRONMENTAL CONTROL PROJECTS****2012, N14 rehabilitation between Sannieshof and Delareyville, North West Province, SANRAL.**

This project involved the monthly auditing of the contractor's compliance with the conditions of the approved Environmental Management Plan as well as ad hoc environmental advise to the Project Engineer and SANRAL.

**2009, Delmas and Bontleng Waste Water Treatment Works, Mpumalanga, Victor Khanye Municipality.**

This project involved a once off compliance audit of the above-mentioned Waste Water Treatment Works.

**2009, Nkonjaneni Water Borne Sewer Project in Piet Retief, Mkhondo Local Municipality, Mpumalanga.**

This project involved the monthly auditing of the contractor's compliance with the conditions of the approved Environmental Management Plan as well as ad hoc environmental advise to the Project Engineer.

**2005 – 2007, Upgrading of the Waterval Water Care Works, ERWAT, Gauteng.**

This project involved the monthly auditing of the contractor's compliance with the conditions of the approved Environmental Management Plan.

**2003, Lotus Gardens Ext 2 Township establishment, City of Tshwane, Gauteng.**

This project involved the monthly auditing of the contractor's compliance with the conditions of the approved Environmental Management Plan.

**TRAINING****2012, N14 rehabilitation between Sannieshof and Delareyville, North West Province, SANRAL.**

This project involved the provision of training for the staff of the N14 rehabilitation project with regards to the contents of the environmental management plan.

**2004, Training in Environmental Aspects and Rehabilitation for the Small Scale Mining Division of Mintek.**

This project involved the provision of environmental awareness training for delegates involved in the small scale miner training programme run by the Mintek small scale mining division.

**2004, Training in Environmental Aspects and Impacts for Transwerk Germiston.**

This project involved the provision of environmental aspects and impacts training for the staff of Transwerk in Germiston.

**HEALTH AND SAFETY PROJECTS**

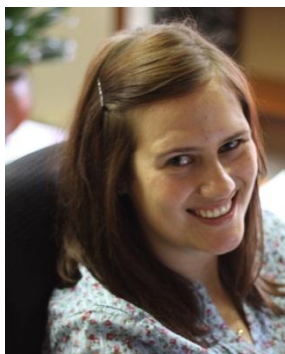
**2012, Payneville water and sewer reticulation project, Ekurhuleni Metropolitan Municipality, Gauteng.**

This project involved the monthly health and safety auditing of the Payneville water and sewer reticulation project in Springs.

**2009, Nkonjaneni Water Borne Sewer Project in Piet Retief, Mkhondo Local Municipality, Mpumalanga.**

This project involved the monthly health and safety auditing of the Nkonjaneni water borne sewer project in Piet Retief.





## Anri Scheepers

Senior Consultant  
WSP Environmental (Pty) Ltd

### Career Summary

Anri graduated from the University of Johannesburg with a BA honours in Geography in 2007, and has eight years work experience. Anri is a senior environmental consultant and is in the process of acquiring her MSc in Environmental Management from the North West University, Potchefstroom.

Anri's roles and responsibilities include the management of Basic Assessment Processes, Scoping and Environmental Impact Assessment Reporting Processes, Water Use Licence Application Processes and Waste Licencing Processes and the implementation of ISO 14000 and 9000 systems.

Her areas of expertise include *inter alia*:

- Project management
- Integrated environmental management and environmental authorisations
- Environmental impact assessments
- Environmental management programmes and plans
- Environmental risk assessments
- Environmental legal compliance
- Environmental control and monitoring
- Environmental training
- Environmental feasibility and planning services
- Waste and Water Use licenses
- Stakeholder engagement

### Professional Qualifications

#### Education and Training

- Current - MSc in Environmental Management from the North West University, Potchefstroom.
- 2014 – Environmental Management Systems ISO 14001 Audit: Lead Auditor.
- 2011 - ISO 14001 Environmental Management Systems (EMS) Implementation and Auditing.
- 2009 - IEMA Approved Foundation Course in Environmental Auditing (South Africa).
- 2007 - B.A Geography Honours, University of Johannesburg.
- 2003 - 2006 - B.A Geography, University of Johannesburg.

## Professional Memberships

- IAIAAsa - International Association for Impact Assessment (South Africa).

## Selected Relevant Experience

### STAKEHOLDER ENGAGEMENT

#### **2009, Stakeholder Engagement for Mooi-Mgeni Transfer Scheme Phase 2: Department of Water Affairs and Forestry (DWAFF), Project No 14/2/V200/10/2**

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.

### WATER USE LICENCE APPLICATIONS

#### **2009, Samancor Manganese (Pty) Ltd Metalloys Operations Water Use Licence Application**

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.

### ENVIRONMENTAL AUTHORISATION PROCESSES

#### **2010, Hotazel Manganese - Mamatwan Mine: Proposed new Sinter Plant**

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.

#### **2011, Basic Assessment Process for the Proposed Expansion and Upgrading of the Raw Materials Stockyard at Samancor Manganese (Pty) Ltd Metalloys**

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 upgrading of the existing Raw Materials Stockyard at the Samancor Meyerton Works (Metalloys site).

#### **2012, Samancor Manganese (Pty) Ltd Metalloys M14 Furnace Environmental Authorisation**

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.

#### **2014, Environmental Authorisation for Blue Sphere Investments and Trading 103 (Pty) Ltd**

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.

#### **2014, Environmental Authorisation for the Proposed Construction and Operation of Two Furnaces and Associated Infrastructure at Transalloys (Pty) Ltd**

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.

#### **2014, Much Asphalt (Pty) Ltd, Section 24G Rectification Process for the Storage of Dangerous Goods**

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.

## ENVIRONMENTAL MANAGEMENT PLANS

#### **2011, Compilation of Environmental Management Plans for West Plant at Samancor Manganese (Pty) Ltd Metalloys**

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.

## ENVIRONMENTAL MANAGEMENT PROGRAMME REPORTS

#### **2014, Anglo Gold Ashanti Vaal River and West Wits Operations EMPR Updates**

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).

#### **2014, Environmental Management Programme Report Consolidation and Alignment of Union Rustenburg Platinum Mines – Union Mine, Anglo American Platinum Limited**

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.

## WASTE MANAGEMENT

#### **2009, Applications for Samancor Manganese (Pty) Ltd Metalloys in terms of section 20 of the Environment Conservation Act 73 of 1989**

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.

#### **2009, Applications for Afrisam, Vanderbijlpark, in terms of section 20 of the Environment Conservation Act 73 of 1989**

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.

**2011, Waste Management Licence Application for the Proposed Upgrade of the Existing Pelletising Plant to an Agglomeration Plant at Samancor Manganese (Pty) Ltd Metalloys**

The project included undertaking a waste management licensing process, by way of a scoping and environmental impact reporting process, for the upgrade of the existing Pelletising Plant to an Agglomeration Plant at the Samancor Meyerton Works.

**2011, Waste Management Licence Application for the Refurbishment of West Plant Sludge Dam 3 and Associated Mixing facility at Samancor Manganese (Pty) Ltd Metalloys**

The project included undertaking the waste management licensing process, by way of the scoping and environmental impact reporting process, for the Refurbishment of West Plant Sludge Dam 3 and associated Mixing Facility at the Samancor Meyerton Works.

**2011, Basic Assessment Process for the Mixing Facility for the Pelletising Plant at Samancor Manganese (Pty) Ltd Metalloys**

The project included undertaking the waste management licensing process, by way of the basic assessment Process, for the proposed construction and operation of a Mixing Facility for the Pelletising Plant at the Samancor Meyerton Works (Metalloys site).

**2011, Establishment of a Waste Monitoring Committee for Samancor Manganese (Pty) Ltd Metalloys**

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.

**2013, Waste Management Plan for the Kisanfu Project in the Democratic Republic of the Congo**

The project entailed the compilation of a waste management plan for the Kisanfu Project in the Democratic Republic of the Congo.

**2014, Columbus Stainless (Pty) Ltd, Waste Management Licence Application for The Proposed Upgrading And Re-Lining Of The North Storage Dam At Columbus In Middelburg, Mpumalanga Province, South Africa**

This project involves the undertaking of a Basic Assessment process in order to gain a Waste Management License for the proposed Re-lining of the North Effluent Storage Dam. The North Effluent Storage Dam plays an integral role in the storage/containment of effluent generated by the steel making plant at Columbus Stainless (Pty) Ltd. The legislation amendments following the submission of the project Waste Management License application resulted in the withdrawal of the application. As such, the project commenced without the need for authorisation.

**2014, Columbus Stainless (Pty) Ltd, Waste Management Licence Application for The Existing And New Waste Management Facilities At Columbus Stainless Complex In Middleburg, Mpumalanga Province, South Africa**

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. Definitely

## LEGAL COMPLIANCE

**2009, Goedgevonden Mine Water Use Licence Audit**

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.

**2009 and 2010, Annual Audit of the Record of Decision and Environmental Management Plan for the Fouriespruit Stream diversion and Old Slag Area at Samancor Manganese (Pty) Ltd Metalloys**

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.

**2010 and 2011, Annual Environmental Performance Audit for the Pelletising Plant, for Samancor Manganese (Pty) Ltd Metalloys**

A compliance audit of the record of decision and the Environmental Conservation Act 20 Exemption Conditions was undertaken, to establish whether the Pelletising Plant complies with the conditions contained therein.

**2012, Samancor Manganese (Pty) Ltd Metalloys M14 Furnace Legal Compliance Audit**

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.

**2012, Legal Compliance Audit for A-Thermal retort Technologies (Pty) Ltd**

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.

**2012, Water Use Licence Audit at Samancor Manganese (Pty) Ltd Metalloys**

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.

**2014, Rose Foundation, Used Oil Industry Audits, Countrywide, RSA**

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.

**2014, Water Use Licence Audit for the Landau Colliery, Anglo Thermal Coal, Mpumalanga Province**

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

**2014, Waste Management License Audit for the Slagment Operation, AfriSam Southern Africa (Pty) Ltd, Vanderbijlpark, Gauteng Province**

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.

**2014, External Environmental Compliance Audit for the Transnet Pipelines Tarlton Intermixture Fractionator Plant**

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.

## ENVIRONMENTAL MANAGEMENT SYSTEMS

**2009, De Beers Consolidated Mines – Venetia Internal ISO 14001 Audit**

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.

**2010, De Beers Consolidated Mines – Voorspoed Internal ISO 14001 Audit**

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.

**ENVIRONMENTAL DUE DILIGENCE AND LIABILITY ASSESSMENTS**

**2014, Rolfes Chemicals Alberton, Environmental Due Diligence**

Environmental Due Diligence for the acquisition of a the Processing Plant and associated facilities.

**2014, Abraaj Group, Environmental and Social Due Diligence of 22 FMCG facilities, Country-wide, RSA**

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.

**2014, Client Confidential, Environmental and Social Due Diligence of Medlock, Johannesburg, South Africa**

Transactional Environmental and Social Due Diligence for the acquisition of 3 medical supplies facilities situated in Johannesburg.